Learn Today What Will Drive Tomorrow’s O&P Reimbursements  See cover fold-out.

RAND Study: Economic Value of Advanced Transfemoral Prosthetics
Friday, 9/8 7:40 AM

Latest Dobson-DaVanzo Analysis of 2011-2014 Medicare O&P Payments
Saturday, 9/9 7:40 AM

bebionic
Embrace the everyday

I like having this part of me everyday that allows me to do and be the person I want to be.

– Angel Giuffria, Trailblazer

Added durability with individual finger motors located in the palm.

Fingertip compatibility with touch screen electronics

*small size only

Visit us at booth #615

professionals.ottobockus.com
Learn Today What Will Drive Tomorrow’s O&P Reimbursements

RAND Study: Economic Value of Advanced Transfemoral Prosthetics

**Friday, Sept. 8 | 7:40 AM | Oceanside D**

**ABSTRACT:**
Due to recent advances in technologies, prosthetic knees and feet allow for more dynamic movements and improve user quality of life, but payers have recently started questioning their value for money. To answer this question, we simulated the differential clinical outcomes and cost of microprocessor-controlled knees (MPK) compared to non-microprocessor controlled knees (NMPK). We conducted a literature review of the clinical and economic impacts of prosthetic knees, convened technical expert panel meetings, compiled the input parameters required, and constructed and implemented a simulation model over a 10-year time period for unilateral transfemoral Medicare amputees with a Medicare Functional Classification Level of 3 and 4. We found that compared to NMPK, MPK is associated with sizeable improvement in physical function and reductions in incidences of falls and osteoarthritis. The effect on low-back pain, depression, obesity, diabetes, and cardiovascular disease could not be quantified due to the lack of data. Our simulation results show that over a 10-year time period, compared to NMPK, MPK is associated with an incremental cost of $10,604 per person and an increase of 0.91 quality adjusted life year per person, resulting in an incremental cost of $11,606 per quality adjusted life year gained. The results suggest that the incremental cost of MPK is in line with commonly accepted criteria for good value for money and with the incremental cost of other medical devices that are currently covered by U.S. payers.

---

Economic Value of Orthotic and Prosthetic Services Among Medicare Beneficiaries: A 2011–2014 Claims-Based Retrospective Cohort Study

**Saturday, Sept. 9 | 7:40 AM | Mandalay Bay H**

**ABSTRACT:**
**Background:** There are few studies of the economic value of orthotic and prosthetic services. An initial custom cohort study of orthotic and prosthetic Medicare beneficiaries based on Medicare Parts A and B claims from 2007-2010 concluded that patients in the study group who received timely orthotic or prosthetic care had lower total health care costs than a comparison group of untreated patients. This study reports on a parallel analysis based on claims from 2011-2014 and includes Medicare Part D drug claims in addition to Parts A and B. Its purpose is to validate earlier conclusions on the extent to which Medicare patients who received select orthotic and prosthetic services had less total health care utilization, lower Medicare payments, and/or fewer negative outcomes compared to matched patients not receiving these services.

**Methods:** This is a retrospective cohort analysis using 2011-2014 Medicare claims data and propensity score matching techniques to control for observable selection bias based on etiological diagnosis, comorbidities, patient characteristics, and historical health care utilization.

**Results:** Patients who received lower extremity orthotics had total 18-month episode costs that were $1,939 lower than comparable patients who did not receive orthotic treatment ($22,734 vs $24,673). Patients who received spinal orthotic treatment had total 18-month episode costs that were $2,094 lower than comparable patients who did not receive orthotic treatment ($23,560 vs $25,655). Study group beneficiaries receiving both types of orthotics had significantly lower Part D spending than those not receiving treatment. Patients who received lower extremity prostheses had comparable Medicare episode payments to matched beneficiaries not receiving prostheses ($68,877 for study group, $68,893 for comparison group) despite the relatively high cost of the prosthesis, and better outcomes on select metrics. Prosthetic study group patients had significantly lower spending for most facility-based care, offsetting the cost of the prosthesis over a 15-month period.

**Conclusions:** These outcomes generally echoed those found in the prior study, with some fluctuation in the dollar spread between the study and comparison groups in specific subcategories of expenditures. Across all analyses, the results suggest that orthotic and prosthetic services provide value to the Medicare program and to the patient.
# Table of Contents

## Welcome ................................................................................. 2

## General Information

- AOPA Antitrust Compliance Policy .................................................. 3
- Attire .......................................................................................... 3
- Badges and Tickets ......................................................................... 3
- Business Center ........................................................................... 4
- Children ....................................................................................... 4
- Complimentary Food and Beverage .................................................. 4
- Continuing Education (CE) Credits ..................................................... 4
- Exhibit Hall Credits ......................................................................... 4
- Exhibit Hall Hours ........................................................................... 5
- Guests ........................................................................................... 5
- Information Desk ............................................................................ 5
- Location of Events ........................................................................... 5
- Lost and Found .............................................................................. 5
- Membership Information ................................................................. 5
- Message Center ............................................................................ 5
- O&P Almanac .................................................................................. 6
- Registration Hours .......................................................................... 6
- Speaker Ready Room ..................................................................... 6
- Shuttle Service ............................................................................... 7
- AOPA World Congress App ............................................................. 7

## Special Acknowledgments

- Award Winners .............................................................................. 8
- Board of Directors ......................................................................... 10
- Planning Committee ...................................................................... 10
- Partners & Sponsors ...................................................................... 11
- Staff .............................................................................................. 12

## Getting Around ........................................................................ 14

## Program Overview .................................................................... 17

## Special Events

- Thranhardt Golf Classic ................................................................... 36
- Welcome to Las Vegas Reception ..................................................... 37
- Professional Women of O&P Celebrating Success ................................ 37
- Centennial Celebration .................................................................. 38
- Party with a Purpose ...................................................................... 38
- Step It Up Challenge ..................................................................... 38
- Technical Fabrication Contest ......................................................... 39
- Presidential Papers ....................................................................... 39
- Giant Slot Machine & $2,000 Giveaway .............................................. 39
- Exhibitor Sponsored Happy Hour ..................................................... 39
- Las Vegas Guest Tour .................................................................... 40
- Technology Transfer Program .......................................................... 40
- Alumni Connection ....................................................................... 40

## Education Programs

### Tuesday Schedule ................................................................. 41

- Pre-Conference Education: Flexible Sub-Ischial Vacuum Socket Course ........................................ 42

### Wednesday Schedule .......................................................... 43

- Manufacturers’ Workshops ................................................................. 44
- Business Certificate Program ............................................................. 57
- Exhibit Hall Happenings ................................................................ 60

### Thursday Schedule .............................................................. 61

- Education ..................................................................................... 62
- General Session ............................................................................ 62
- Keynote Speaker ........................................................................... 62
- Lunch and Learn ............................................................................ 67
- Exhibit Hall Happenings ................................................................. 79

### Friday Schedule ...................................................................... 81

- AOPA Election Results Announcement ............................................. 82
- Education ...................................................................................... 82
- General Session ............................................................................ 82
- Thranhardt Lectures ...................................................................... 82
- Lunch and Learn ............................................................................ 87
- Technology Transfer Session ......................................................... 92
- Exhibit Hall Happenings ................................................................. 96
- Poster Session ............................................................................... 97

### Saturday Schedule ............................................................... 105

- Education ...................................................................................... 106
- Exhibit Hall Happenings ................................................................. 106
- General Session ............................................................................ 106
- Hamontree Lectures ..................................................................... 107
- Exhibit Hall Happenings ................................................................. 114

## Exhibition

### Exhibit Hall Map .................................................................... 116

- International O&P Showcase ......................................................... 115

### Exhibitor Directory ................................................................ 116

- Exhibitor Product Listings .............................................................. 146
President’s Letter

Welcome to AOPA’s Centennial Celebration and the Second World Congress!

Seldom do we have the opportunity to accomplish so many wonderful things in one place at the same time. But that’s exactly the exciting opportunity the global orthotics and prosthetics community enjoys in bringing our world of O&P together in Las Vegas for this second AOPA World Congress and AOPA’s Centennial Celebration. Commemorating the 100th Anniversary of AOPA’s leadership in advancing the interests of providers and their suppliers to further the quality of care to patients will be a very special educational journey for all.

The depth and breadth of the educational programs of the World Congress drawing on the diverse talents of our colleagues in all parts of the world offers you a unique exposure to research, clinical advances, product innovation and the diverse talents and thinking of a blue ribbon roster of presenters. From the always popular clinically and research oriented Thranhardt Lecture Series to the business management Hamontree Lectures presenters, to the early morning general sessions with top flight programming and everything in between is designed to give you the most comprehensive education choices our field can provide.

Combine this with the nostalgia generated by observing 100 years of progress in how we serve our patients and our special recognition for the “great” inventions and their inventors highlights the traditions and achievements that have made our patients the beneficiaries of this progress. You won’t want to miss the “Walk through Time” that condenses all of these developments into one fascinating history which is the legacy you and our patients enjoy today. A special attraction is the “Tell Your Stories” at www.AOPA100.org which will be accessible for all in the exhibit hall during the next three days. These personal and company “stories” bring life to the legacy we all enjoy.

Chris Nolan, as chair of the World Congress Planning Committee, has led an extraordinary effort to build on past successes and introduce innovations to our event. Lunch and Learn sessions had their debut last year as did our special luncheon spotlighting the role of women in our profession. Now this year the committee has through a special sponsorship from the American Board for Certification in Orthotics, Prosthetics and Pedorthics (ABC) enabled the Clinical Education Workgroup to create the Presidential Papers award which designates “Presidential Paper” winning submissions from top researchers that will be published in a special edition of the highly regarded Journal of Neuroengineering & Rehabilitation.

And finally, I urge you to attend the Party with a Purpose on Thursday evening which will also be a fundraising event for the important advocacy effort of the O&P Political Action Committee. It’s a party with a 1920’s theme at the 1923 Bourbon Bar which can only be described as a modern speakeasy. It will be a wonderful celebration of our centennial with cocktails, delicious dinner and live entertainment. Of course the Purpose is to help fund our O&P advocacy—the party is self-explanatory. Please join me in welcoming our second century as we honor our past and educate ourselves for the future at this Second AOPA World Congress and our First Centennial!

Sincerely,

Michael Oros, CPO, LPO, FAAOP
President, AOPA
General Information

AOPA ANTITRUST COMPLIANCE POLICY
AOPA has a policy of strict compliance with federal and state antitrust laws which serve to prohibit agreements, combinations and conspiracies in restraint of trade. Attendees at the AOPA World Congress should avoid discussing certain subjects when they are together at any formal or informal gathering. The following guidelines are to be adhered to at all times during the Congress:

• DO NOT discuss prices, fees or rates, or features that can impact prices such as discounts, costs, terms and conditions of sale, warranties, or profit margins.
• DO NOT agree with competitors as to uniform terms of sale, warranties or contract provisions.
• DO NOT exchange data concerning fees, prices, production, sales, bids, costs, customer credit, or other business practices.
• DO NOT agree with competitors to divide up customers, markets or territories.
• DO NOT agree with competitors not to deal with certain suppliers or others.
• DO NOT try to prevent a supplier from selling to your competitor(s).
• DO NOT discuss your customers with your competitors.
• DO leave any meeting (formal or informal) where improper subjects are being discussed. Tell everyone why you are leaving.
• Any questions about AOPA’s antitrust policy should be directed to AOPA’s Executive Director.

ATTIRE
AOPA has adopted a policy of business casual attire for the 2017 AOPA World Congress. The Welcome Reception is also casual.

BADGES AND TICKETS
Badges must be worn to all functions. Your badge is your pass to the Exhibit Hall and the education sessions. It also ensures that you are able to greet and be greeted by name by your colleagues and friends. Unless noted otherwise, optional events require tickets. Please remember to bring your tickets with you to the event. If you ordered tickets with your advance registration, you will find them with your badge. If you are missing tickets, please go to registration for verification and replacement. There will be a $50 fee for the replacement of a lost badge.
GENERAL INFORMATION

CONTINUING EDUCATION CREDITS
The American Board for Certification in Orthotics, Prosthetics & Pedorthics (ABC) has approved a total of 40.25 continuing education (CE) credits for the 2017 AOPA World Congress and the Board of Certification/Accreditation (BOC) has approved 45 CEs, Scientific & Business, including 5 Exhibit Hall CEs. Generally, one credit is awarded per session hour. Specific rules apply to specific disciplines. Exhibit Hall credits are available by completing the Exhibits Passbook or exhibit hall forms available from ABC and BOC. Representatives from ABC and BOC will be available during the Congress to answer your questions. Many programs run concurrently, so you will only be able to earn credits for the programs that you actually attend. AOPA will be tracking all credits electronically during the Congress. To receive credit, please scan your badge at the beginning of each session. Please note that your Congress badge may be scanned at only one concurrent session at a time. Those scanning at multiple concurrent sessions will not receive credit. Full-conference registrants will receive a certificate of attendance. You will also find exhibit hall credit forms in your meeting attaché bag.

EXHIBIT HALL CREDITS
ABC certified practitioners can earn (3) three CE credits for touring the Exhibit Hall and BOC certified practitioners can earn up to five (5) CE credits. To receive credit, you must submit the completed Exhibits Passbook or an application with the required documentation directly to your certifying board or drop off at the AOPA booth (#100). Applications will be available at the ABC booth (#338) and the BOC booth (#1336) located in the Exhibit Hall. You will also find the Exhibits Passbook and forms in your meeting attaché bag.

BUSINESS CENTER
The FedEx Office® business center at the Mandalay Bay offers you virtually everything you need to meet your convention exhibiting needs—from packing and shipping to signage, copying and last-minute office supplies. Hours vary based on convention calendar and show demand. Please call 702-262-5320 or email usa5528@fedex.com for more information.

CHILDREN
A special registration category has been created at a reduced rate for children ages 11-17. Children under 11 are allowed in the exhibit hall, but must be supervised at all times. There is no registration fee or badge required for children ages 10 and under.

COMPLIMENTARY FOOD AND BEVERAGE
Complimentary breakfasts and lunches are available for Full Conference meeting attendees. Your lunch tickets for Thursday and Friday are included with your Full Conference badge. Be sure to bring your ticket with you each day. Lunch will be served in the Exhibit Hall. Breakfast will be served on Thursday, Friday, and Saturday in conjunction with the general sessions and tickets are not needed. Check the Program Overview for exact times.
GENERAL INFORMATION

EXHIBIT HALL HOURS

<table>
<thead>
<tr>
<th>Date</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wednesday, September 6</td>
<td>5:30 – 7:30 PM</td>
</tr>
<tr>
<td>Thursday, September 7</td>
<td>9:00 AM – 6:30 PM</td>
</tr>
<tr>
<td>Friday, September 8</td>
<td>9:00 AM – 6:30 PM</td>
</tr>
<tr>
<td>Saturday, September 9</td>
<td>9:00 AM – Noon</td>
</tr>
</tbody>
</table>

GUESTS

Please do not ask those who are not registered for the World Congress to meet you in the Exhibit Hall. They will not be permitted to enter without a badge. No exceptions will be made. Use the registration area as your meeting point. Guests, spouses and children qualify for reduced registration rates. Please see registration personnel if you have questions.

LOCATION OF EVENTS

All official AOPA World Congress events will be held at the Mandalay Bay, Las Vegas, Nevada.

- **Manufacturers’ Workshops** will be held at the Mandalay Bay South Convention Center Level II
- **The Exhibit Hall, General Sessions, and general education** will be held at the Mandalay Bay South Convention Center Level II
- **The Thranhardt Golf Tournament** will be held at the Las Vegas National Golf Club.
- **Party With a Purpose** will be held at the 1923 Bourbon Bar located in The Shoppes at Mandalay Place.

LOST AND FOUND

The AOPA World Congress information desk located in the registration area will serve as the drop-off and pick-up point for all lost and found items.

MEMBERSHIP INFORMATION

Want to become a new AOPA member or renew your membership? Stop by the AOPA booth #100 located in the Exhibit Hall and speak with a staff member.

MESSAGE CENTER

A message board is available in the registration area. You may leave messages for other attendees, post resumes, job announcements and for sale notices. You may also use the AOPA Mobile app, AOPA 365, as a way to communicate with other attendees.
O&P ALMANAC
The O&P Almanac is the official magazine of the 2017 AOPA World Congress. Look for your complimentary copy in your attaché bag. Attendees interested in subscriptions, editorial or general information about AOPA publications are encouraged to stop by the AOPA booth #1256 in the Exhibit Hall.

REGISTRATION HOURS
World Congress registration will occur in the South Convention Center, Level II, of the Mandalay Bay just outside of the exhibit hall. Badges and registration materials will be available for pick up during the following dates and time:

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuesday, September 5</td>
<td>10:00 AM – 6:00 PM</td>
</tr>
<tr>
<td>Wednesday, September 6</td>
<td>7:00 AM – 6:30 PM</td>
</tr>
<tr>
<td>Thursday, September 7</td>
<td>7:00 AM – 6:00 PM</td>
</tr>
<tr>
<td>Friday, September 8</td>
<td>7:00 AM – 5:00 PM</td>
</tr>
<tr>
<td>Saturday, September 9</td>
<td>8:00 AM – Noon</td>
</tr>
</tbody>
</table>

SPEAKER READY ROOM
Need a little more time to prepare for your presentation? Speakers and presenters are encouraged to use our Speaker Ready Room, located in Reef F of the Mandalay Bay on Level 2. This room will be equipped with a full complement of audio-visual equipment. The Speaker Ready Room will be open:

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thursday, September 7</td>
<td>7:00 AM – 5:00 PM</td>
</tr>
<tr>
<td>Friday, September 8</td>
<td>7:00 AM – 5:00 PM</td>
</tr>
<tr>
<td>Saturday, September 9</td>
<td>7:00 – 11:00 AM</td>
</tr>
</tbody>
</table>
Use your smart phone to navigate the 2nd World Congress.

DOWNLOAD the “AOPA 365” App on your iPhone, Android or iPad to:

- Get up-to-date information regarding the World Congress
- Easily view the agenda and set up your own personal schedule
- Earn extra CE Credits by taking quizzes for certain sessions
- Vote for Hamontree contenders
- Interact with colleagues
- Share photos and comments
- Search for speakers and specific topics
- Navigate the Exhibit Hall
- Review speaker bios
- Visit the Centennial website AOPA100.org
- Learn about AOPA
- Read the O&P Almanac
- See how Membership has its benefits
- Get current with Hot Issues
- See how Mobility Saves
- Visit the AOPA Bookstore
- Access the AOPA Membership Directory

Simply go to the app store and search AOPA365 or utilize the QR code above. Visit www.AOPAnet.org.

ALPS Shuttle
If you have been to Las Vegas before, you know that it involves a lot of walking! This year, ALPS will be providing free shuttle service between the Convention Center and the Mandalay Bay hotel to make your visit more comfortable. Just meet the shuttle down in the Lower Level Tour Lobby/Beach Access Area or the Convention Center Entrance/Shark Reef for a ride.

The shuttle will operate during the following hours:

- **Wednesday, Sept. 6**
  7:00 am – 7:30 pm

- **Thursday, Sept. 7**
  7:00 – 10:00 am
  4:00 pm – 7:00 pm

- **Friday, Sept. 8**
  7:00 – 10:00 am
  4:00 – 7:00 pm

FREE SHUTTLE SERVICE
BEST OF SHOW

Hear the four best abstracts submitted for presentation at the “Best of Show” award-winning Thranhardt Lecture Series. Launched by a gift from J.E Hanger in memory of Howard R. Thranhardt, CP, the series offers an honorarium to the winners. The series recognizes individuals committed to advancing O&P education and research. Winners of the Thranhardt Lecture receive an award of $500 each. Hear the contenders present on Friday, September 8, from 8:00 – 9:00 AM in Oceanside D. See page 82 for details.

2017 Award Contenders:

• Introducing the Prosthetic Homologue for Embodiment (C13A), Michael Wininger, PhD
• Reference Values for Temporal Gait and Loading Symmetry of Lower-Limb Amputees Can Help in Refocusing Rehabilitation Targets (C13B), Andrea Giovanni Cutti, PhD and Gennaro Verni, MEng
• Do Foot Orthoses Work? Outcomes from a Multi-Clinic Study of 6,658 Pedorthic Patient Visits, Michael Ryan, PhD, CPed
• The Micro-Processor Controlled Orthosis: What is the Impact to the User Versus the Stance control Orthosis and Conventional Locked KAFO (C13D), Shenan Hoppe-Ludwig, CPO

LIFETIME ACHIEVEMENT AWARD

Each year the American Orthotic & Prosthetic Association (AOPA) presents the prestigious Lifetime Achievement Award. This honor is bestowed on individuals who have made significant contributions to the field of orthotics and prosthetics. The AOPA Board of Directors is proud to name Sir Saeed Zahedi, OBE, FREng, BSc, PhD, FI MechE, CEng, RDI as the recipient of the 2017 Lifetime Achievement Award. Join O&P professionals as AOPA presents the award during the AOPA Election Results Announcement and Awards Ceremony on Friday, September 8, from 7:15 – 8:00 AM in Oceanside D. See page 82 for details.

THE SAM E. HAMONTREE, CP(E), BUSINESS EDUCATION AWARD

The Sam E. Hamontree, CP(E), Business Education Award was created to recognize the best business education paper, idea and/or proposal submitted for presentation. This award is a counterpart to the Thranhardt Award given each year to the best clinical abstract(s). Presentations by the 2017 Hamontree Award contenders are scheduled for Saturday, September 9, from 10:30 – 11:30 AM in Mandalay Bay L. The audience will be invited to cast their vote for the award winner and through the show’s mobile app, AOPA 365. See page 107 for details.

2017 Sam E. Hamontree Award Nominees:

• An Easy Way to Show Health Economical Benefit in standard O&P Practice: A First Experience! (B11A), Andreas Hahn, PhD, MSc
• Competitive Differentiator: Executing a Data-Drive Growth Strategy in O&P (B11B), Ryan Ball
Inventor Awards
AOPA is honoring four inventors to recognize those who have made a significant contribution to patient care through the invention of a device or technique. The 2017 AOPA World Congress Inventor awards will be presented during the Opening General Session Thursday, September 7, 7:15 – 9:00 AM in Mandalay Bay Oceanside D.

The four Inventor Award Winners:

- Van Phillips
- J. Martin “Marty” Carlson, CPO(E), FAAOP
- M.E. “Bill” Miller, CO
- Kelly James, PhD

Ralph R. “Ronney” Snell, CPO, FAAOP, Legislative Advocacy Award
The Ralph R. “Ronney” Snell, CPO, FAAOP, Legislative Advocacy Award recognizes individuals who have made valuable contributions toward advancing the legislative and regulatory goals of the O&P field by motivating members of Congress and other decision makers to take action on behalf of O&P. Join O&P professionals as AOPA presents the award during the AOPA Election Results Announcement and Awards Ceremony on Friday, September 8, from 7:15 – 8:00 AM in Oceanside D.

2017 Award Winners:

- Adrianne Haslet
- Aaron Holm

Student Poster Awards
The Edwin and Kathryn Arbogast Award and the Otto and Lucille Becker Award will honor two meritorious scientific papers submitted for presentation as a poster at the 2017 AOPA World Congress by a student or resident. The purpose of these awards is to encourage students and residents to share their research through outstanding poster presentations. Join O&P professionals as AOPA presents the award during the AOPA Election Results Announcement and Awards Ceremony on Friday, September 8, from 7:15 – 8:00 AM in Oceanside D. See page 82 for details.

WillowWood

The Edwin and Kathryn Arbogast Award
The Edwin and Kathryn Arbogast Award will be presented for the best prosthetic abstract submitted for a poster presentation.

2017 Award Winner:
A Mixed-Methods Examination of Limitations to Physical Activity as Reported by Individuals with Lower Extremity Amputations
Elizabeth Bell, University of Maryland-College Park

The Otto and Lucille Becker Award
The Otto and Lucille Becker Award will be presented for the best orthotic abstract submitted for a poster presentation.

2017 Award Winner:
Characteristics of Delphi Processes in Orthotics and Prosthetics Research
Kierra Falbo, Northwestern University
AOPA Board of Directors

Michael Oros, CPO, LPO, FAAOP
2017 President

Jim Weber, MBA
2017 President-Elect

James Campbell, PhD, CO, FAAOP
2017 Immediate Past President

Chris Nolan
2017 Vice President

Jeff Collins, CPA
2017 Treasurer

Directors

David A. Boone, BSPO, MPH, PhD
Traci Dralle, CFm
Terri Kuffel, JD
Pam Lupo, CO
Jeffrey Lutz, CPO
Dave McGill
Rick Riley
Bradley N. Ruhl
Thomas F. Fise, JD
Executive Director/Secretary

2017 World Congress Planning Committee

Chris Nolan (Chairman)
Traci Dralle, CFm (Exhibits Chair)
Eric Ferris
Elizabeth Ginzel, CPO, LPO
Dennis Janisse, CPed
(Pedorthic Education Chair)
Michel-Lynn Jakala
Eileen Levis
Karen Lundquist, MBC
Pam Lupo, CO
Mike Magill
Brad Mattear, LO, CPA, CFO
Kristen Pierson
Rick Riley
Gulapar Srisawasdi, MD, CPed
Brian Stroup
Jim Weber, MBA

Clinical Sessions Workgroup

Thomas V. DiBello, CO, LO, FAAOP
(Clinical Chair)
James H. Campbell, PhD, CO, FAAOP
Andrea Giovanni Cutti, Meng, PhD
Michael Dillon, PhD
Rosie Jované, CPO
Aaron Leung, PhD, Associate Professor, Interdisciplinary
Michael Oros, CPO, LPO, FAAOP
Marlo Ortiz Vazquez del Mercado, CPO(M)
Klaas Postema, MD, PhD, Professor
Nerrolyn Ramstrand, PhD, Associate Professor in P&O
Silvia Raschke, PhD
Michael Schaefer, CPO, Dipl.
Urs Schneider, MD, PhD
Don Shurr, PT, CPO
Partners & Sponsors

AOPA thanks the following companies for their generous support and sponsorship of the AOPA’s 2nd World Congress.

American Board for Certification in Orthotics, Prosthetics & Pedorthics (ABC)
Amputee Coalition
Con.fair.med, a subsidy of the German Association of Orthopaedic Technology
Charcot-Marie Tooth Association
Mexico—National Member Society of ISPO
Orthotics and Prosthetics Association of India (OPAI)
Orthotics Prosthetics Canada (OPC)
United States National Member Society of ISPO (USISPO)
Uniendo Fronteras/Uniting Frontiers
GENERAL INFORMATION

AOPA Staff

Thomas F. Fise, JD, Executive Director
Donald J. DeBolt, Chief Operating Officer
Lauren Anderson, Manager of Communications, Policy, and Strategic Initiatives
Devon Bernard, Assistant Director of Coding Reimbursement, Programming and Education
Tina M. Carlson, CMP, Senior Director of Membership, Operations & Meetings
Ryan Gleeson, Membership and Meetings Coordinator
Betty Leppin, Manager of Membership and Operations
Joseph McTernan, Director of Coding Reimbursement, Programming and Education
Yelena Mazur, Membership and Meetings Coordinator
Kelly O’Neill, CEM, Manager of Meetings & Conventions
Ashlie White, Manager of Projects

Make the Alumni Connection

AOPA makes it easy to connect with your classmates!

- Connect with your classmates through AOPA's mobile app, AOPA 365—your school will be set up as a networking group.
- Proudly wear your school button which will be provided at information or the NCOPE booth #340.
- Share pictures, messages, and more through the mobile app.
- Meet your friends at informal social gatherings throughout the Congress.

Two Alumni Meetings:

Northwestern University
Wednesday, Sept. 6, 7:30 PM
Fleur, in the bar area

California State, Dominguez Hills
Thursday, Sept. 7, 8:00 PM
Border Grill
RSVP at csudhopalumni.eventbrite.ie
Who is an innovator?
Who is held to the highest O&P standards?
Who is committed to life-long learning?

I AM.

I am a big part of great possibilities.

Find out what ABC can do for you.

abcop.org
703.836-7114
Getting Around

Mandalay Bay

South Convention Center, Level 2

Map Legend

- Men’s Room
- Women’s Room
- Charging Station

Classroom seating based on three people per 6’ table. Capacities are subject to change based on allowances for head tables, staging, audiovisual and catering requirements.
Las Vegas Special Offers

**House of Blues Restaurant & Bar**
15% Off Food & Beverage when you show your World Congress Badge.

**Foundation Room**
15% Off Food & Beverage when you show your World Congress Badge.  
*Dining room only.*

**Complimentary Admission** when you show your World Congress Badge during nightlife hours.

**Entertainment**
Use your passkey to take advantage of big savings!
Up to 40% off shows & attractions  
Visit the website today for current headliners and to book special events.

**Cabanas**
10% off cabanas across all of our bookable properties  
Spinal Technology takes your orders for custom fabrication nearly 90 hours every week.

**Weekdays**

- **8:30AM – 10:00PM EST**
  - Order by 10PM EST for UPS* Next Day orders
  - All other orders until 12AM EST

**Saturday**

- **Extended Service Hours**
  - **10:00AM – 9:00PM EST**
  - Order by 9PM EST for UPS* Next Day orders for Monday delivery

**Sunday**

- **Extended Service Hours**
  - **10:00AM – 8:00PM EST**
  - Same day or Monday delivery based on time of order placed, flight availability, & courier

**Holidays**

- **Extended Service Hours**
  - Same day or Next Day delivery based on time of order placed, flight availability, & courier

*Check UPS Saturday delivery availability in your area

Visit us at booth #745

We work late, so you don’t have to

191 Mid Tech Drive, West Yarmouth, MA 02673 | 800 253 7868 | spinaltech.com
Say **goodbye to gloves**, masks and special ventilation. Choose an alternative solution **free from isocyanates** and **fiber glass**. Protect our nature and **avoid** exposure to environmental and **health risks**!
# Program Overview

**TUESDAY | SEPTEMBER 5, 2017**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:00 AM</td>
<td>Registration and Information Desk Open</td>
<td>Mandalay Bay Foyer</td>
</tr>
<tr>
<td>10:00 AM</td>
<td>Exhibitor Set Up</td>
<td>Shoreline Exhibit Hall</td>
</tr>
<tr>
<td>1:00 – 5:00 PM</td>
<td>Pre-Conference Education: Flexible Sub-Ischial Vacuum Socket Course</td>
<td>Mandalay Bay L</td>
</tr>
</tbody>
</table>

**WEDNESDAY | SEPTEMBER 6, 2017**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 AM</td>
<td>Registration and Information Desk Open</td>
<td>Mandalay Bay Foyer</td>
</tr>
<tr>
<td>7:00 AM</td>
<td>Shuttle Service</td>
<td></td>
</tr>
<tr>
<td>8:00 AM</td>
<td>Exhibitor Set Up</td>
<td>Shoreline Exhibit Hall</td>
</tr>
<tr>
<td>8:00 AM  – Noon</td>
<td>Manufacturers’ Workshops—Tier A (Four-Hour Workshops)</td>
<td></td>
</tr>
</tbody>
</table>

**MWA-1** Tillges Technologies Introduces the NEW Carbon Fiber Pre-Preg PROPULSION™ Bracing Line including AFO, KAFO and Partial Foot Prosthetic Solutions  
*Sponsor*: Tillges Technologies / TCOP  
*Breakers A*

**MWA-2** Get Their Gait Straight! A Collaborative Approach to Carbon Composite AFOs  
*Sponsor*: Allard USA  
*Breakers B*

**MWA-3** Chronic and Acute Stance Control Patient Application Management  
*Sponsor*: Becker Orthopedic  
*Breakers C*

**MWA-4** Socket Selection Criteria and Alignment Considerations  
*Sponsor*: ALPS  
*Breakers D*

**MWA-5** Aligning Your Documentation: Clearing Medical Necessity and Other Major Reimbursement Roadblocks  
*Sponsor*: Ottobock  
*Breakers E*
**PROGRAM OVERVIEW**

**WEDNESDAY | SEPTEMBER 6, 2017**  
*Continued*

**MWA-6**  
**Orthomerica OWLS Certificate Course (Part 1)**  
*Sponsor:* Orthomerica Products Inc.  
*Breakers F*

**MWA-7**  
**Össur Innovation and Outcomes**  
*Sponsor:* Össur Americas  
*Breakers G*

**MWA-8**  
**The Providence Nocturnal Scoliosis System**  
*Sponsor:* Spinal Technology, Inc  
*Breakers H*

**MWA-9**  
**O&P Fabrication is Changing—Don’t Get Left Behind**  
*Sponsor:* Vorum  
*Mandalay Bay I*

**MWA-10**  
**Beyond the DAFO Basics—Brace Planning for Crouched Gait**  
*Sponsor:* Cascade Dafo, Inc.  
*Mandalay Bay J*

**MWA-11**  
**Improving Lives Through Innovation**  
*Sponsor:* RUSH Foot  
*Mandalay Bay K*

**8:00 – 10:00 AM  Manufacturers’ Workshops—Tier B**  
(Two-Hour Workshops)

**MWB-1**  
**Standard Cyborg Introduces Design Studio: CAD/CAM, Re-Invented**  
*Sponsor:* Standard Cyborg  
*Breakers J*

**MWB-2**  
**One Glue to Bond Them All? Modern Contact Adhesives in O&P**  
*Sponsor:* Renia GmbH  
*Breakers K*

**MWB-3**  
**Hip Bracing Solutions by Össur; Featuring the Unloader® Hip & Rebound® Hip**  
*Sponsor:* Össur Americas  
*Breakers L*

**MWB-4**  
**Orthomerica Introduces the Latest Advancements to the SmartSoc™ System, which Includes Video Scanning Capabilities for both Cranial Remolding Orthoses and Prosthetics**  
*Sponsor:* Orthomerica Products Inc.  
*Reef D*

**MWB-5**  
**CAD Modification Design Essentials with Roger Wagner, CPO**  
*Sponsor:* WillowWood  
*Reef E*
MWB- 6  Creating Successful Prosthetic Outcomes for Your Low-Mobility Patients  
*Sponsor:* Ottobock  
Reef F

MWB- 7  Don’t Gamble with your Foot Choice—Bet on Ottobock’s Full Line of Feet from K2 to K4 Including 3 Microprocessor Feet  
*Sponsor:* Ottobock  
Reef A

MWB- 8  New Solutions with Freedom Innovations  
*Sponsor:* Freedom Innovations  
Reef B

10:30 AM – 12:30 PM  Manufacturers’ Workshops—Tier C  
(Two-Hour Workshops)

MWC- 1  Gomez Orthotic Spine System  
*Sponsor:* Friddle’s Orthopedic Appliances, Inc.  
Breakers J

MWC- 2  How Exposed are You and Your Practice?  
*Sponsor:* Cailor Fleming Insurance  
Breakers K

MWC- 3  Maximizing Your Referral Sources & Marketing in Today’s Environment  
*Sponsor:* Aspen Medical Products  
Breakers L

MWC- 4  Restoring Hand Function to People with Partial Digit Amputations  
*Sponsor:* Naked Prosthetics  
Reef D

MWC- 5  WillowWood One Socket System Certification Course  
*Sponsor:* WillowWood  
Reef E

MWC- 6  Less Pain. More Life. Defining your Unique Approach to Osteoarthritis  
*Sponsor:* Ottobock  
Reef F

MWC- 7  Improved Outcomes with MPKs Over Mechanical Knees  
*Sponsor:* Ottobock  
Reef A

MWC- 8  Pattern Recognition: Enhanced Myoelectric Control for Upper Limb Prosthetics  
*Sponsor:* Coapt  
Reef B

MWC- 9  Innovation in Spine Technology  
*Sponsor:* Ottobock  
Breakers I
PROGRAM OVERVIEW

WEDNESDAY | SEPTEMBER 6, 2017  Continued

1:00 – 3:00 PM  Manufacturers’ Workshops—Tier D
(Two-Hour Workshops)

MWD-1  Bracing For The Acute Patient
   Sponsor: Aspen Medical Products
   Breakers L

MWD-2  Fuzion Orthotic System
   Sponsor: Orthomerica Products Inc.
   Reef D

MWD-3  Triple Action® Ankle Joint: The New Standard in Orthotics for Biomechanical Control of the Foot/Ankle Complex
   Sponsor: Becker Orthopedic
   Reef E

MWD-4  Restoring Function and Raising Activity to the Next Level
   Sponsor: Fillauer
   Reef F

MWD-5  Stroke: Orthotic Selection for Acute and Chronic Conditions
   Sponsor: Ottobock
   Reef A

MWD-6  What’s your Terrain? Transcending K2 Boundaries with the Purely Mechanical All-Terrain Knee
   Sponsor: LegWorks
   Reef B

1:00 – 5:00 PM  Manufacturers’ Workshops—Tier E
(Four-Hour Workshops)

MWE-1  Leveraging the OPIE Toolbox for Business Success (1:00 – 3:00 PM); Maximize Your Productivity with Integrated Business Solutions (3:00 – 5:00 PM)
   Sponsor: OPIE Software
   Breakers A

MWE-2  The Pedorthic Part of Your Practice: Thinking Outside of The Proverbial Shoe Box
   Sponsor: OHI
   Breakers B

MWE-3  SpineCor® ‘Tech-Assist’ Model Training for Adult SpineCor Comfort Plus Brace Treatment
   Sponsor: Becker Orthopedic
   Breakers C
MWE- 4  The FS3000 Foot Drop AFO from Turbomed Orthotics  
_Sponsor:_ Turbomed Orthotics Inc.  
_Breakers D_

MWE- 5  How Bebionic and Michelangelo can Help Men, Women & Adolescents Achieve Cognitive Connectivity with Their Upper Limb Prosthesis  
_Sponsor:_ Ottobock  
_Breakers E_

MWE- 6  Orthomerica OWLS Certificate Course (Part 2)  
_Sponsor:_ Orthomerica Products Inc.  
_Breakers F_

MWE- 7  Touch Bionics by Össur: Advanced Solutions for Upper Limb Loss and Deficiency  
_Sponsor:_ Össur Americas  
_Breakers G_

MWE- 8  Improved Clinical Outcomes with Consistent Successful Socket Fit Via Full Weight Bearing Hydrostatic Casting Technique  
_Sponsor:_ Cypress Adaptive  
_Breakers H_

MWE- 9  Don’t Fear Change! Modular Adjustable Carbon Dynamic Bracing Exists! And the all “NEW” Hybrid Crossover Knee!  
_Sponsor:_ Fabtech Systems  
_Breakers I_

MWE- 10  3 Pillars of a Successful Practice  
_Sponsor:_ Freedom Innovations  
_Breakers J_

MWE- 11  Adjustable Socket Revolution: Volume Management, Suspension and More  
_Sponsor:_ Click Medical  
_Breakers K_

MWE- 12  LIM Innovations—Beyond The Infinite Socket®  
_Sponsor:_ LIM Innovations  
_Mandalay Bay I_

MWE- 13  Lower Extremity KAFOs, AFOs & KOs for Complex Patients  
_Sponsor:_ Townsend Design \ Thuasne USA  
_Mandalay Bay J_

MWE- 14  Navigating New Pathways: Orthotic Tools for Maximizing Therapeutic Outcomes  
_Sponsor:_ Surestep  
_Mandalay Bay K_
## Wednesday | September 6, 2017  

### 3:30 – 5:30 PM  
**Manufacturers’ Workshops—Tier F**  
(Two-Hour Workshops)

<table>
<thead>
<tr>
<th>Workshop</th>
<th>Title</th>
<th>Sponsor</th>
</tr>
</thead>
<tbody>
<tr>
<td>MWF-1</td>
<td>The Acceleration of 3D Scanning Integration: Why and How is it Happening Now?</td>
<td>TechMed 3D Breakers L</td>
</tr>
<tr>
<td>MWF-2</td>
<td>The College Park/Liberating Technology Boston Digital Arm System’s Unique Control Strategies</td>
<td>College Park Industries Reef D</td>
</tr>
<tr>
<td>MWF-3</td>
<td>The End of Rigid Sockets—Socket-less Sockets for Various Fitting Levels</td>
<td>Martin Bionics Reef E</td>
</tr>
<tr>
<td>MWF-4</td>
<td>Upper Extremity: New Developments and Modern Updates</td>
<td>Fillauer Reef F</td>
</tr>
<tr>
<td>MWF-5</td>
<td>Hold On!!! Latest Suspension and Liner Technologies from Ottobock</td>
<td>Ottobock Reef A</td>
</tr>
<tr>
<td>MWF-6</td>
<td>Boston Brace 3D</td>
<td>Boston Orthotics &amp; Prosthetics Reef B</td>
</tr>
</tbody>
</table>

### 1:00 – 5:00 PM  
**Business Certificate Program**  
Mandalay Bay L

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:00 – 1:45 PM</td>
<td>Materials Management: The Hidden Product Cost Factor (B1)</td>
</tr>
<tr>
<td>2:00 – 2:30 PM</td>
<td>Financial Health—Cash is King (B2)</td>
</tr>
<tr>
<td>2:30 – 3:00 PM</td>
<td>Effective Staff Meetings that Translate into Business Results (B3)</td>
</tr>
<tr>
<td>3:00 – 3:45 PM</td>
<td>Back to Basics: Using the Classics to Make Online Marketing Easy and Affordable (B4)</td>
</tr>
<tr>
<td>4:00 – 5:00 PM</td>
<td>Balanced Scorecards—Essential Tools for Success (B5)</td>
</tr>
</tbody>
</table>

### 1:00 – 5:00 PM  
**Tranhardt Golf Classic**  
Las Vegas National Golf Club

### 5:30 – 7:30 PM  
**Welcome to Las Vegas Reception in Exhibit Hall**  
Shoreline Exhibit Hall
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 AM – 6:00 PM</td>
<td>Registration and Information Desk Open</td>
<td>Mandalay Bay Foyer</td>
</tr>
<tr>
<td>7:00 AM</td>
<td>Breakfast</td>
<td>Mandalay Bay Oceanside D Foyer</td>
</tr>
<tr>
<td>7:00 AM – 5:00 PM</td>
<td>Speaker Ready Room Open</td>
<td>Reef F</td>
</tr>
<tr>
<td>7:00 – 10:00 AM</td>
<td>Shuttle Service</td>
<td></td>
</tr>
<tr>
<td>7:15 – 9:00 AM</td>
<td>Opening General Session</td>
<td>Mandalay Bay Oceanside D</td>
</tr>
<tr>
<td>9:00 – 10:00 AM</td>
<td>Professional Women of O&amp;P Celebrating Success Brunch</td>
<td>Oceanside G</td>
</tr>
<tr>
<td>9:00 AM – 5:00 PM</td>
<td>NCOPE Approved Clinical Mentor Course (ACM)</td>
<td>Breakers G</td>
</tr>
<tr>
<td>9:00 AM – 6:30 PM</td>
<td>Exhibit Hall Open</td>
<td>Shoreline Exhibit Hall</td>
</tr>
<tr>
<td>9:00 – 10:30 AM</td>
<td>Break in Exhibit Hall</td>
<td>Shoreline Exhibit Hall</td>
</tr>
<tr>
<td>9:10 – 9:40 AM</td>
<td>Introducing the Supro Wrist with i-limb Quantum Hand (PPT)</td>
<td>Shoreline Exhibit Hall</td>
</tr>
<tr>
<td>9:50 – 10:20 AM</td>
<td>A Behind-the-Scenes Look at What’s Been Cooking in Allard’s R&amp;D Lab (PPT)</td>
<td>Shoreline Exhibit Hall</td>
</tr>
<tr>
<td>10:30 – 11:30 AM</td>
<td>Managing the Diabetic Foot— An Update from Around the World (P1)</td>
<td>Mandalay Bay I</td>
</tr>
<tr>
<td>10:30 AM – Noon</td>
<td>Compliance and Ethics (B6)</td>
<td>Mandalay Bay L</td>
</tr>
<tr>
<td></td>
<td>• Compliance and Ethics in Orthotics and Prosthetics (B6A)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Health Care Compliance and Ethics Week–Join Us! (B6B)</td>
<td></td>
</tr>
<tr>
<td>10:30 AM – Noon</td>
<td>Symposium: Future of Prosthetics: Analyzing the Tissue Socket Interface (C1)</td>
<td>Oceanside D</td>
</tr>
<tr>
<td>10:30 AM – Noon</td>
<td>Future Tech: A Glimpse into Emerging Technologies (T1)</td>
<td>Mandalay Bay J</td>
</tr>
<tr>
<td>Time</td>
<td>Event</td>
<td></td>
</tr>
<tr>
<td>---------------</td>
<td>----------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>10:30 AM – 12:10 PM</td>
<td><strong>Free Papers—Improving Outcomes for the Lower Limb Amputee (C2)</strong> Mandalay Bay K</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Comorbidities, Physical Function, and Daily Step Counts Among Adults with a Unilateral Transtibial Amputation who are Using a Prosthetic (C2A)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• A Novel Auditory Biofeedback System for Improving Amputee Mobility in the Home and Community (C2B)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Selection and Assessment of a Set of Outcome Measures for Electronically Controlled Knee Users (C2C)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Survey on the Validity of the K-Level System and Utility of Clinical Outcome Measures in K-Level Assignment (C2D)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• The Risk of Major Cardiovascular Events for Adults with Above Knee Amputations (C2E)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• On the (Im-)Possibility to Predict Who May Benefit from a Microprocessor Controlled Prosthetic Knee Component (C2F)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Comparative Effectiveness of Microprocessor Controlled, Carbon Fiber Energy Storing, and Returning Prosthetic Feet in Persons with Unilateral Transtibial Amputation (C2G)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Does a Vacuum Assisted Suspension System Improve Elderly Transtibial Amputees Gait and Balance Close to Non-Amputee Scores? (C2H)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Why do Amputees Prefer Energy Storage and Return Feet? Clues from the Analysis of Step Length Asymmetry and Margin of Stability (C2I)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Affects of Prosthetic Socket Suspension on Gait in Unilateral Transtibial Amputees (C2J)</td>
<td></td>
</tr>
<tr>
<td>10:30 AM – Noon</td>
<td><strong>Symposium: Orthotic Management of Post Stroke Gait Dysfunction (C3)</strong> Oceanside C</td>
<td></td>
</tr>
<tr>
<td>11:30 AM – Noon</td>
<td><strong>Pre-Ulcer Stage: Diabetic Foot Screening and Evaluation (P2)</strong> Mandalay Bay I</td>
<td></td>
</tr>
<tr>
<td>11:30 AM – Noon</td>
<td>Ottobock’s Unique Treatment for Osteoarthritis (PPT)</td>
<td></td>
</tr>
</tbody>
</table>
|               | Sponsor: Ottobock  
|               | Shoreline Exhibit Hall |
| Noon – 1:00 PM | **Lunch and Learn: Exoskeleton and NeuroRehab—Where are we Headed?** Oceanside E  
|               | Advanced tickets required. |
| Noon – 1:30 PM | **Lunch in Exhibit Hall**  
|               | Shoreline Exhibit Hall |
| 12:10 – 12:40 PM | **Driving Outcomes for Lower Mobility (PPT)**  
|               | Sponsor: Ottobock  
|               | Shoreline Exhibit Hall |
| 12:50 – 1:20 PM | **Data in O&P (PPT)**  
|               | Sponsor: OPIE Software  
<p>|               | Shoreline Exhibit Hall |
| 1:30 – 2:00 PM | <strong>Pre-Ulcer Stage: Off-Loading for Ulcer Prevention (P3)</strong> Mandalay Bay I |</p>
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
</table>
| 1:30 – 2:00 PM | **Functional Solutions for Finger Amputees: Understanding Prevalence, Challenges, Impairment and Solutions (PPT)**  
**Sponsor:** Naked Prosthetics  
Shoreline Exhibit Hall |
| 1:30 – 2:15 PM | **Fabrication Methods Triple Action Ankle Joint (T2)**  
Mandalay Bay J |
| 1:30 – 2:30 PM | **DME CERT Outreach and Education Task Force: Prevalent O&P Errors (B7)**  
Mandalay Bay L |
| 1:30 – 3:00 PM | **Symposium: New Technologies for Prosthetics and Orthotics (C4)**  
Oceanside D |
| 1:30 – 3:00 PM | **Specializing in Upper Limb Prosthetics—A Free Paper Session (C5)**  
Mandalay Bay K  
- A Wireless Implantable Multichannel Myoelectric System for Prostheses Control (C5A)  
- Differences in Southampton Hand Assessment Procedure Scores with and without the Use of Powered Partial-Hand Prostheses (C5B)  
- Control within a Virtual Environment is Correlated to Functional Outcomes when using a Physical Prosthesis (C5C)  
- Performance and Satisfaction with Intuitive Multifunctional Hand Prosthesis Control (C5D)  
- Adaptive Calibration for Enhanced Pattern Recognition Control For Upper-Limb Prostheses (C5E)  
- Factors that Influence Acceptance and Rejection of an Upper Limb Prosthesis (C5F)  
- Sixty Years of Active Prosthesis Use: A Self-Report Case Study with Recommendations (C5G)  
- The Clinical Application of Pattern Recognition Control in Upper Limb Prosthetics: A Two-Year Retrospective (C5H)  
- Liners with Embedded Electrodes for Direct Control Prostheses (C5I) |
| 1:30 – 3:00 PM | **Symposium: Driving Improved Patient Care: Examples from Clinicians on Outcomes Use (C6)**  
Oceanside C |
| 2:00 – 2:30 PM | **Ulcer Stage: Diabetic Management of the Foot Ulcer and Pedorthic Concern—What Physicians Want (P4)**  
Mandalay Bay I |
| 2:10 – 2:40 PM | **Pro-Flex Family of Feet (PPT)**  
**Sponsor:** Össur Americas  
Shoreline Exhibit Hall |
| 2:15 – 3:00 PM | **Good Manufacturing Practices for Technicians: Guidelines for Present and Future FDA requirements for Clinical Thermoforming (T3)**  
Mandalay Bay J |
| 2:30 – 3:15 PM | **Ulcer Stage: Insoles and Shoes for Partial Foot Amputation (P5)**  
Mandalay Bay I |
THURSDAY | SEPTEMBER 7, 2017  Continued

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:30 – 5:15 PM</td>
<td><strong>Best Business Practices and Documentation (B8)</strong></td>
</tr>
<tr>
<td></td>
<td>Mandalay Bay L</td>
</tr>
<tr>
<td></td>
<td>• A New Twist on Documentation (B8A)</td>
</tr>
<tr>
<td></td>
<td>• The Power of Social Media—Creating an Army of Online Healthcare Advocates to Grow Your Business (B8B)</td>
</tr>
<tr>
<td></td>
<td>• AMPLIFY: Using Traditional and Digital Methods to Enhance Advocacy (B8C)</td>
</tr>
<tr>
<td></td>
<td>• AOPA’s Take on Documentation and Best Business Practices (B8D)</td>
</tr>
<tr>
<td></td>
<td>• The AOPA Co-Op: Right at Your Fingertips (B8E)</td>
</tr>
<tr>
<td></td>
<td>• Implementation of EMR—Catching up with the Rest of Healthcare to Communicate with Referral Sources (B8F)</td>
</tr>
<tr>
<td>2:50 – 3:20 PM</td>
<td><strong>AK Multi Sport Solutions featuring the Easy Ride Knee by Proteor (PPT)</strong></td>
</tr>
<tr>
<td></td>
<td><em>Sponsor: Nabtesco &amp; Proteor in USA</em></td>
</tr>
<tr>
<td></td>
<td>Shoreline Exhibit Hall</td>
</tr>
<tr>
<td>3:15 – 4:30 PM</td>
<td><strong>Instructional Course: Innovative Transfemoral Socket Design (C7)</strong></td>
</tr>
<tr>
<td></td>
<td>Oceanside D</td>
</tr>
<tr>
<td>3:15 – 4:30 PM</td>
<td><strong>Prosthetic Management of the Lower Limb Amputee—A Free Paper Session (C8)</strong></td>
</tr>
<tr>
<td></td>
<td>Mandalay Bay K</td>
</tr>
<tr>
<td></td>
<td>• Gait Training Interventions for Lower Extremity Amputees (C8A)</td>
</tr>
<tr>
<td></td>
<td>• Empowering Prosthesis Wearer’s Self-Management Abilities Through Mobile Technology: A Usability and Acceptability Study (C8B)</td>
</tr>
<tr>
<td></td>
<td>• Limb Volume Stability in Response to Socket Suspension (C8C)</td>
</tr>
<tr>
<td></td>
<td>• A Case Study of a Hip Disarticulation Amputee Converting to a Transfemoral Amputee (C8D)</td>
</tr>
<tr>
<td></td>
<td>• Development of an Active Cooling System for Improving Comfort and Residual Limb Skin Care (C8E)</td>
</tr>
<tr>
<td></td>
<td>• A Comparison of Compression and Release Socket to Traditional Transfemoral Socket Designs: Results of the EMU Comparative Study (C8F)</td>
</tr>
<tr>
<td></td>
<td>• Comparing Residuum-Socket Interface Pressure and Soft Tissue Deformations for Three Transtibial Trial Socket Designs (C8G)</td>
</tr>
<tr>
<td>3:15 – 4:30 PM</td>
<td><strong>Symposium: Gait Salvage: Mobility Matters (C9)</strong></td>
</tr>
<tr>
<td></td>
<td>Oceanside C</td>
</tr>
<tr>
<td>3:15 – 4:30 PM</td>
<td><strong>Utilization of Carbon Infused Polypropylene in Pediatric Orthotics and Prosthetic Sockets (T4)</strong></td>
</tr>
<tr>
<td></td>
<td>Mandalay Bay J</td>
</tr>
<tr>
<td>3:30 – 3:45 PM</td>
<td><strong>Ulcer Stage: Off-Loading For Foot Ulcers (P6)</strong></td>
</tr>
<tr>
<td></td>
<td>Mandalay Bay I</td>
</tr>
<tr>
<td>3:30 – 4:00 PM</td>
<td><strong>What’s New at Freedom Innovations (PPT)</strong></td>
</tr>
<tr>
<td></td>
<td><em>Sponsor: Freedom Innovations</em></td>
</tr>
<tr>
<td></td>
<td>Shoreline Exhibit Hall</td>
</tr>
<tr>
<td>Time</td>
<td>Event</td>
</tr>
<tr>
<td>--------------</td>
<td>----------------------------------------------------------------------</td>
</tr>
<tr>
<td>3:45 – 4:30 PM</td>
<td><strong>Biomechanics of Gait and the Influence of Pedorthics (P7)</strong></td>
</tr>
<tr>
<td></td>
<td>Mandalay Bay I</td>
</tr>
<tr>
<td>4:00 – 7:00 PM</td>
<td><strong>Shuttle Service</strong></td>
</tr>
<tr>
<td>4:10 – 4:40 PM</td>
<td><strong>Össur Miami LSO &amp; Rebound Post-Op (PPT)</strong></td>
</tr>
<tr>
<td></td>
<td><em>Sponsor: Össur Americas</em></td>
</tr>
<tr>
<td></td>
<td>Shoreline Exhibit Hall</td>
</tr>
<tr>
<td>4:30 – 5:30 PM</td>
<td><strong>German Quality Standards of Prosthetic Fittings in Upper and Lower Limb Prosthetics (C10)</strong></td>
</tr>
<tr>
<td></td>
<td>Oceanside D</td>
</tr>
<tr>
<td>4:30 – 5:30 PM</td>
<td><strong>Unique Considerations in Prosthetic Clinical Care—A Free Paper Session (C11)</strong></td>
</tr>
<tr>
<td></td>
<td>Mandalay Bay K</td>
</tr>
</tbody>
</table>

- Evaluation of a Non-Fluid-Based Variable Cadence Controller (VCC) To Control Transfemoral Swing-Phase over a Range of Walking Speeds (C11A)
- Which Functional Elements Stabilize the Residual Limb within Transfemoral Sockets in both Frontal and Sagittal Plane for Optimized Prosthetic Gait? (C11B)
- Fluctuating Residual Limb Volume Accommodated with an Adjustable, Modular Socket Design: A Novel Case Report (C11C)
- Cost-Effectiveness of Advanced Hydraulic Microprocessor Controlled Knee Protheses in Patients with Lower Limb Amputations (C11D)
- Effects of Prosthetic Socket Suspension on Knee Proprioception and Dynamic Balance in Transtibial Amputees (C11E)
- Viability of Prescribing Increases in Physical Activity in Lower Limb Amputees (C11F)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>4:30 – 5:30 PM</td>
<td><strong>Symposium: Implementing an Integrated Care Model into Your Practice (C12)</strong></td>
</tr>
<tr>
<td></td>
<td>Oceanside C</td>
</tr>
<tr>
<td>4:30 – 5:30 PM</td>
<td><strong>Pedorthics: Usability, Adherence, and Communication with Patients (P8)</strong></td>
</tr>
<tr>
<td></td>
<td>Mandalay Bay I</td>
</tr>
<tr>
<td>4:30 – 5:30 PM</td>
<td><strong>Technician Update (T5)</strong></td>
</tr>
<tr>
<td></td>
<td>Mandalay Bay J</td>
</tr>
<tr>
<td>4:50 – 5:20 PM</td>
<td><strong>A Technical Overview of College Park/Liberating Technologies Expanding Lower and Upper Limb Product Line (PPT)</strong></td>
</tr>
<tr>
<td></td>
<td><em>Sponsor: College Park Industries</em></td>
</tr>
<tr>
<td></td>
<td>Shoreline Exhibit Hall</td>
</tr>
<tr>
<td>5:30 – 6:30 PM</td>
<td><strong>Centennial Celebration in Exhibit Hall</strong></td>
</tr>
<tr>
<td></td>
<td>Shoreline Exhibit Hall</td>
</tr>
<tr>
<td>6:30 – 9:30 PM</td>
<td><strong>Party With a Purpose</strong></td>
</tr>
<tr>
<td></td>
<td>1923 Bourbon Bar (Mandalay Bay)</td>
</tr>
<tr>
<td></td>
<td><em>Advanced tickets required.</em></td>
</tr>
</tbody>
</table>
## PROGRAM OVERVIEW

### FRIDAY | SEPTEMBER 8, 2017

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 AM – 5:00 PM</td>
<td>Registration and Information Desk Open</td>
<td>Mandalay Bay Foyer</td>
</tr>
<tr>
<td>7:00 AM</td>
<td>Breakfast</td>
<td>Mandalay Bay Oceanside D Foyer</td>
</tr>
<tr>
<td>7:00 AM – 5:00 PM</td>
<td>Speaker Ready Room Open</td>
<td>Reef F</td>
</tr>
<tr>
<td>7:00 – 10:00 AM</td>
<td>Shuttle Service</td>
<td></td>
</tr>
<tr>
<td>7:15 – 9:00 AM</td>
<td>General Session</td>
<td>Oceanside D</td>
</tr>
<tr>
<td>7:15 – 7:40 AM</td>
<td>AOPA Award Announcements</td>
<td>Oceanside D</td>
</tr>
<tr>
<td>7:40 – 8:00 AM</td>
<td>RAND Study</td>
<td>Oceanside D</td>
</tr>
<tr>
<td>8:00 – 9:00 AM</td>
<td>Award Winning Thranhardt Presentations (C13)</td>
<td>Oceanside D</td>
</tr>
<tr>
<td></td>
<td>• Introducing the Prosthetic Homologue for Embodiment (C13A)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Reference Values for Temporal Gait and Loading Symmetry of Lower-Limb Amputees Can Help in Refocusing Rehabilitation Targets (C13B)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Do Foot Orthoses Work? Outcomes from a Multi-Clinic Study of 6,658 Pedorthic Patient Visits (C13C)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• The Micro-Processor Controlled Orthosis: What is the Impact to the User Versus the Stance Control Orthosis and Conventional Locked KAFO? (C13D)</td>
<td></td>
</tr>
<tr>
<td>9:00 – 10:30 AM</td>
<td>Break in Exhibit Hall</td>
<td>Shoreline Exhibit Hall</td>
</tr>
<tr>
<td>9:00 AM – 6:30 PM</td>
<td>Exhibit Hall Open</td>
<td>Shoreline Exhibit Hall</td>
</tr>
<tr>
<td>9:10 – 9:40 AM</td>
<td>Alpha Duo Liner (PPT)</td>
<td>Sponsor: WillowWood Shoreline Exhibit Hall</td>
</tr>
<tr>
<td>9:50 – 10:20 AM</td>
<td>Vista CTO (PPT)</td>
<td>Sponsor: Aspen Medical Products Shoreline Exhibit Hall</td>
</tr>
<tr>
<td>10:30 AM – Noon</td>
<td>Symposium: Power in Prosthetics (C14)</td>
<td>Oceanside D</td>
</tr>
<tr>
<td>Time</td>
<td>Event</td>
<td>Location</td>
</tr>
<tr>
<td>------------------</td>
<td>-----------------------------------------------------------------------------------------</td>
<td>----------------</td>
</tr>
<tr>
<td>10:30 – 12:10 PM</td>
<td><strong>Improving Function for the Orthotic Patient—A Free Paper Session (C15)</strong></td>
<td>Mandalay Bay K</td>
</tr>
<tr>
<td></td>
<td>- Improvement in Functional Elbow Movement with a Myoelectric Orthotic Device:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>A Novel Application of a Post-CVA Assistive Rehabilitation Orthotic Device (C15A)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Report on Three Users’ Function After One Year of Using Upper Extremity Myoelectric</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Custom Orthosis to Remediate Brachial Plexus Injury Paresis (C15B)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Functional Utility of Wearing a Myoelectric Upper Extremity Orthosis in Chronic Stroke</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Survivors with Moderate Hemiparesis (C15C)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Economic Impact of Brace Use to Treat Adolescent Idiopathic Scoliosis on Total</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Charges in the United States (C15D)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Asymmetric CAD/CAM Bracing for Idiopathic Scoliosis ≥ 40 Degrees (C15E)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Effect of Sacroiliac Belt on Activity Pattern of Lumbopelvic Muscles in Patient in</td>
<td></td>
</tr>
<tr>
<td></td>
<td>with Unilateral Sacroiliac Joint Instability in Different Loading Conditions (C15F)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Cranial Remodeling Orthosis Quality Management in Patients with Brachycephaly and</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Plagiocephaly (C15G)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Functional Bracing for Treatment of Pediatric Diaphyseal Femoral Fractures:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>An Alternative to Spica Casting? (C15H)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Maintaining Upright Posture: Balancing Moments and Preventing Falls (C15I)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Relative Influence of Orthotic Support Features within an Open Frame AFO vs. a</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Contact AFO on Function, Endurance, and Activity Level in Patients with</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Spastic Equinovarus Secondary to Chronic Stroke (C15J)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>10:30 AM – Noon <strong>Symposium: World Perspectives on Polio &amp; PPS Management (C16)</strong></td>
<td>Oceanside C</td>
</tr>
<tr>
<td></td>
<td>10:30 AM – Noon **Symposium: Current Strategies for Managing Charcot-Marie Tooth</td>
<td>Mandalay Bay I</td>
</tr>
<tr>
<td></td>
<td>(CMT) Disease (C17/P9)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>10:30 AM – Noon <strong>Cyber Security… IS IT SAFE? Be Prepared!! (B9)</strong></td>
<td>Mandalay Bay L</td>
</tr>
<tr>
<td></td>
<td>10:30 AM – Noon <strong>3D Printing in O&amp;P: Foundations (T6)</strong></td>
<td>Mandalay Bay J</td>
</tr>
<tr>
<td>11:30 AM – Noon</td>
<td><strong>Innovative MPC Solutions from Freedom Innovations (PPT)</strong></td>
<td>Shoreline Exhibit Hall</td>
</tr>
<tr>
<td>Noon – 1:30 PM</td>
<td><strong>Lunch in Exhibit Hall</strong></td>
<td>Shoreline Exhibit Hall</td>
</tr>
<tr>
<td>12:00 – 12:30 PM</td>
<td><strong>What’s your Terrain? Transcending K2 Boundaries with the Purely Mechanical All-Terrain Knee (PPT)</strong></td>
<td></td>
</tr>
<tr>
<td>Noon – 1:30 PM</td>
<td><strong>Lunch and Learn: The Diabetic Foot in Remission: Strategies to Make Prevention Pay</strong></td>
<td>Oceanside E</td>
</tr>
<tr>
<td>Time</td>
<td>Event</td>
<td>Details</td>
</tr>
<tr>
<td>------------</td>
<td>----------------------------------------------------------------------</td>
<td>------------------------------------------------------------------------</td>
</tr>
</tbody>
</table>
| 12:50 – 1:20 PM | **The Diversification of Clinical Applications for ProComp (PPT)** | *Sponsor:* Cascade Orthopedic Supply, Inc.  
Shoreline Exhibit Hall |
| 1:30 – 2:00 PM   | **Introducing the New Members of the Ottobock Upper Limb Portfolio (PPT)** | *Sponsor:* Ottobock  
Shoreline Exhibit Hall |
<p>| 1:30 – 3:00 PM   | <strong>3D Printing in O&amp;P: Fabrication Workshop (T7)</strong>                     | Mandalay Bay J |
| 1:30 – 3:00 PM   | <strong>Advancements in Osseointegration Technology for Amputees (C18)</strong>   | Oceanside D |
| 1:30 – 3:10 PM | <strong>New Considerations in Lower Limb Orthotic Management—A Free Papers Session (C19)</strong> | Mandalay Bay K |
|                | • The Variable Resistance Orthotic Knee (C19A)                        |  |
|                | • Safety and Effectiveness Results from the C-Brace Retrospective Registry (C19B) |  |
|                | • Development of a Bench Testing Procedure in Quantifying the Mechanical Properties of Ankle-Foot Orthoses in Additive Manufacturing (C19C) |  |
|                | • Additional Weight Added to Ankle Foot Orthoses Could Increase Coordination of Gait in Pediatric Patients (C19D) |  |
|                | • Case Study: Gait Analyses of Tuning AFOFC for an Adult with Ankle Plantarflected Contracture (C19E) |  |
|                | • Choosing the Optimal Passive-Dynamic Ankle Foot Orthosis for your Patient (C19F) |  |
|                | • Challenging Current Practices and Beliefs in Using AFOs for Pediatric Patients with Cerebral Palsy (C19G) |  |
|                | • Prevalence of Flat Foot/Pes Plannus among School Children between 6 – 10 Years Old (C19H) |  |
|                | • A Flexible AFO: Contradiction to Traditional Thought? (C19I) |  |
|                | • Case Study: Gait and Functional Analysis of Three Carbon Fiber Ankle Foot Orthoses (AFOs) and Their Effectiveness Addressing Drop Foot (C19J) |  |
| 1:30 – 3:00 PM | <strong>Symposium: Pediatric LE Orthotic Gait and Functional Design, Tuning and Alignment (C20)</strong> | Oceanside C |
| 1:30 – 4:30 PM | <strong>Focus on Technology (P10)</strong>                                       | Mandalay Bay I |
|                | • Comparison of 3 Casting Methods for Custom Foot Orthoses (P10A)     |  |
|                | • Technology and Pedorthic Care (P10B)                                |  |</p>
<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:30 – 5:00 PM</td>
<td><strong>Triple Aim (B10)</strong></td>
<td>Mandalay Bay L</td>
</tr>
<tr>
<td></td>
<td>• What is the Triple Aim? An Overview and Definition of the Triple Aim (B10A)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Complete Care—Succeeding with Alternative Payment Models that may Affect O&amp;P (B10B)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Quality at Kaiser (B10C)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• How Measuring Satisfaction Can Change Behavior (B10D)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• How Could Triple Aim Impact the Scope of Practice of the O&amp;P Clinician—Threat or Opportunity? (B10E)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Panel Discussion (B10F)</td>
<td></td>
</tr>
<tr>
<td>2:10 – 2:40 PM</td>
<td><strong>Join the Revolution—New Orthotic and Prosthetic Solutions from Click Medical (PPT)</strong></td>
<td>Shoreline Exhibit Hall</td>
</tr>
<tr>
<td></td>
<td><strong>Sponsor</strong>: Click Medical</td>
<td></td>
</tr>
<tr>
<td>2:50 – 3:20 PM</td>
<td><strong>Treating Pediatric Toe Walking—Is it Idiopathic? (PPT)</strong></td>
<td>Shoreline Exhibit Hall</td>
</tr>
<tr>
<td></td>
<td><strong>Sponsor</strong>: Surestep</td>
<td></td>
</tr>
<tr>
<td>3:15 – 4:30 PM</td>
<td><strong>Symposium: Predicting Walking Ability Following Lower Limb Amputation (C21A)</strong></td>
<td>Oceanside D</td>
</tr>
<tr>
<td>3:15 – 4:30 PM</td>
<td><strong>Technology Transfer Session (C22)</strong></td>
<td>Oceanside E</td>
</tr>
<tr>
<td>3:15 – 4:30 PM</td>
<td><strong>3D Printing in O&amp;P: Materials, Machines and Methods Discussion (T8)</strong></td>
<td>Mandalay Bay J</td>
</tr>
<tr>
<td>3:30 – 4:00 PM</td>
<td><strong>Innovative Approaches; Positive Outcomes. Treatment for Hypotonic Trunk, Neuromuscular Scoliosis and Head-drop (PPT)</strong></td>
<td>Shoreline Exhibit Hall</td>
</tr>
</tbody>
</table>
### FRIDAY | SEPTEMBER 8, 2017  Continued

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>4:00 – 7:00 PM</td>
<td>Shuttle Service</td>
</tr>
</tbody>
</table>
| 4:10 – 4:40 PM| **Aspen’s New Bivalve LSO & TLSO (PPT)**  
*Sponsor:* Aspen Medical Products  
*Shoreline Exhibit Hall* |
| 4:30 – 5:00 PM| **A Deeper Look into Full-Contact BK Sockets via a Comprehensive Fluid Control System (C21B)**  
*Oceanside D* |
| 4:30 – 5:30 PM| **Poster Sessions**  
*Oceanside Foyer* |
| 4:30 – 5:30 PM| **3D Printing Roundtable Discussion (T9)**  
*Mandalay Bay J* |
| 4:50 – 5:20 PM| **Vista Therapy Collar (PPT)**  
*Sponsor:* Aspen Medical Products  
*Shoreline Exhibit Hall* |
| 5:30 – 6:30 PM| **Exhibitor Sponsored Happy Hour in Exhibit Hall**  
*Exhibit Hall* |

---

**Exhibitor Sponsored Happy Hour Reception**  
5:30 – 6:30 PM  
**FRIDAY**  
September 8, 2017
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 – 11:00 AM</td>
<td><strong>Speaker Ready Room Open</strong></td>
<td>Reef F</td>
</tr>
<tr>
<td>7:00 AM</td>
<td><strong>Breakfast</strong></td>
<td>Mandalay Bay H Foyer</td>
</tr>
<tr>
<td>8:00 AM – Noon</td>
<td><strong>Registration Open</strong></td>
<td>Mandalay Bay Foyer</td>
</tr>
<tr>
<td>7:40 – 8:00 AM</td>
<td><strong>Dobson-Davanzo Cost Effectiveness Research</strong></td>
<td>Mandalay Bay H</td>
</tr>
<tr>
<td>8:00 – 9:00 AM</td>
<td><strong>General Session Symposium: Healthcare Delivery Systems from Around the World</strong></td>
<td>Mandalay Bay H</td>
</tr>
<tr>
<td>9:00 AM – Noon</td>
<td><strong>Exhibit Hall Open</strong></td>
<td>Shoreline Exhibit Hall</td>
</tr>
<tr>
<td>9:00 – 10:30 AM</td>
<td><strong>Break in Exhibit Hall</strong></td>
<td>Shoreline Exhibit Hall</td>
</tr>
<tr>
<td>9:10 – 9:40 AM</td>
<td><strong>Fabrication Solutions: Clinical Applications for ProComp (PPT)</strong></td>
<td>Shoreline Exhibit Hall</td>
</tr>
<tr>
<td>9:50 – 10:20 AM</td>
<td><strong>3D Printing: Transforming the Process of Prosthetic Fabrication (PPT)</strong></td>
<td>Shoreline Exhibit Hall</td>
</tr>
<tr>
<td>10:30 AM – Noon</td>
<td><strong>Concurrent Education</strong></td>
<td></td>
</tr>
<tr>
<td>10:30 – 11:30 AM</td>
<td><strong>Hamontree Presentations — Opening Remarks and Instructions on How to Vote (B11)</strong></td>
<td>Mandalay Bay L</td>
</tr>
<tr>
<td></td>
<td>• <strong>An Easy Way to Show Health Economical Benefit in Standard O&amp;P Practice: A First Experience! (B11A)</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• <strong>Competitive Differentiator: Executing a Data-Driven Growth Strategy in O&amp;P (B11B)</strong></td>
<td></td>
</tr>
<tr>
<td>10:30 AM – Noon</td>
<td><strong>Symposium: The Experience of Sequential Partial Foot and Transtibial Amputation: Implications for Shared Decision Making about Amputation Surgery (C23)</strong></td>
<td>Mandalay Bay H</td>
</tr>
<tr>
<td>10:30 AM – Noon</td>
<td><strong>Symposium: Pediatric UE Functional Orthotics for Children with Neuromuscular Diseases (C24)</strong></td>
<td>Reef DE</td>
</tr>
</tbody>
</table>
### PROGRAM OVERVIEW

**SATURDAY | SEPTEMBER 9, 2017**  
*Continued*

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:30 AM – Noon</td>
<td><strong>Prosthetic Free Papers—Advancing Care for Today (C25)</strong></td>
<td>Mandalay Bay K</td>
</tr>
<tr>
<td></td>
<td>• Differences in Stepping, Functional Level and Cost-Efficacy of the Genium and C-Leg Microprocessor Knees (C25A)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Osseointegrated Implants in Patients with Diabetes Mellitus: A Case Series of Eight Patients (C25B)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Advanced Prosthetic Components Improve Standing Balance and Limb Load Symmetry for Transfemoral Amputees using Microprocessor Knees (C25C)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• The First 500 of the POQOL-100 (C25D)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Clinical Trials are the Future of O&amp;P (C25E)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• The Role of Exercise Testing in Prosthetic Rehabilitation: A Systematic Literature Review (C25F)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Adjustable Liners and Sockets for Prosthetic Devices (C25G)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Clinical Results on the Use of a Microprocessor Controlled Prosthetic Knee Component for Above-Knee Amputees of Low Mobility (C25H)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• On the Use of Health Economic Instruments to Evaluate Prosthetic Services (C25I)</td>
<td></td>
</tr>
<tr>
<td>10:30 AM – Noon</td>
<td><strong>Pedorthic Education (P11)</strong></td>
<td>Mandalay Bay I</td>
</tr>
<tr>
<td></td>
<td>• Rocker Shoes for Reduction of Ankle Motion—Implications for Pain and Stability (P11A)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Advances In Shoe Closures Could Change the World (P11B)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Distinguishing Categories of Medial Column Ligamentous Failure (P11C)</td>
<td></td>
</tr>
<tr>
<td>10:30 AM – Noon</td>
<td><strong>Adjustable Socket Revolution (T10)</strong></td>
<td>Mandalay Bay J</td>
</tr>
<tr>
<td>11:30 AM – Noon</td>
<td><strong>The Sun is Shining: How to Use Capital Markets to Fund Your Business’ Growth (B12)</strong></td>
<td>Mandalay Bay L</td>
</tr>
<tr>
<td>Noon – 1:00 PM</td>
<td><strong>Lunch on your own</strong></td>
<td></td>
</tr>
<tr>
<td>1:00 – 2:30 PM</td>
<td><strong>Concurrent Education</strong></td>
<td></td>
</tr>
<tr>
<td>1:00 – 2:30 PM</td>
<td><strong>Symposium: Multi-Scale Integration in Upper Limb Prosthetics (C26)</strong></td>
<td>Mandalay Bay H</td>
</tr>
<tr>
<td>1:00 – 2:30 PM</td>
<td><strong>Orthotic Symposium: Stance Control (C27)</strong></td>
<td>Reef DE</td>
</tr>
</tbody>
</table>
PROGRAM OVERVIEW

**Have you claimed your ABC Digital Badge yet?**

**What’s a Digital Badge?**

It’s a great way to include verifiable evidence of your credential on electronic correspondence and social media. Make sure that others understand the hard work you put in to earn your ABC Certification — Show your ABC pride!

---

**American Board for Certification in Orthotics, Prosthetics & Pedorthics, Inc.**

[abcop.org](http://abcop.org)  
703. 836.7114

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:30 – 2:50 PM</td>
<td><strong>Prosthetic Free Papers (C28)</strong></td>
<td>Mandalay Bay I</td>
</tr>
<tr>
<td></td>
<td>• Changes in Pressure Distribution and Outcomes with Alignment Changes (C28A)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Change in Pressure Distribution and Outcomes with Loose and Tight Tension (C28B)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Comparison of Timed Submerged Swimming Trials with and without Lower Extremity Prostheses (C28C)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Impact Test for Prosthetic Feet (C28D)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Assessment of Prosthetic Mobility and its Relationship to Fall History in People with Lower Limb Amputation (C28E)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• An 18-Month Review of Implementing Outcome Measures in Clinical Practice (C28F)</td>
<td></td>
</tr>
<tr>
<td>1:00 – 2:30 PM</td>
<td><strong>Symposium: Everyday Risk &amp; New Regulations of Isocyanate in the O&amp;P Work Environment (C29)</strong></td>
<td>Mandalay Bay J</td>
</tr>
<tr>
<td>1:00 – 2:30 PM</td>
<td><strong>2017 Compliance Update: Compliance Excellence, Best Business Practices and the Successful Accreditation Survey (B13)</strong></td>
<td>Mandalay Bay L</td>
</tr>
</tbody>
</table>
**Special Events**

Make sure your busy World Congress Schedule includes time for these fun networking events.

**TUESDAY | September 5, 2017**

1:00 – 5:00 PM

**Pre-Show Transfemoral Socket Symposium**

This expert level course will provide an overview of the research and development work that led to the Northwestern University Flexible Sub-Ischial Vacuum (NU-Flex-SIV) Sock, a socket technique designed to improve comfort for persons with transfemoral amputation. *Space is limited and tickets are required.*

**WEDNESDAY | September 6, 2017**

1:00 – 5:00 PM

**Thranhardt Golf Classic**

Join your colleagues for a fun afternoon of golf and calamity at the Las Vegas National Golf Club. Network with top leaders in O&P at the Thranhardt Golf Classic. We have scheduled the tournament for Wednesday, Sept. 6 from 1:00 to 5:00PM so you can fly in on Wednesday morning, catch the luxury motor coach to the tournament and enjoy an afternoon of golf with all your O&P friends and colleagues. Visit www.lasvegasnational.com for more information.

Support two great causes, AOPA’s Capitol Connection and OPAF & The First Clinics. Strengthen OPAF’s efforts and the legislative, research and education efforts of the Capitol Connection to further the O&P policy agenda. Individual tickets are $195 and four-some’s are $750 and include green fees, cart fees, pre-round range balls, transportation via luxury motor coach and an awards ceremony.
THURSDAY | September 7, 2017

9:00 – 10:00 AM
**Professional Women of O&P Celebrating Success**
Oceanside G

Women registering as full conference attendees for the 2017 World Congress are invited to join us for a special event for women at this year’s 2017 World Congress. AOPA’s 2017 World Congress Planning Committee has organized a program to offer all women working in the O&P profession a casual networking brunch and the opportunity to learn from successful women in O&P. Join us to hear from these outstanding leaders, who will share insight to their success in the O&P field:

- **Marita Dorsh-Carozza, CP, FAAOP**, a successful clinician and business owner who has mentored many young practitioners;
- **Rebecca Hast**, Chief Compliance Officer at Hanger, who has been a leader in both O&P related healthcare fields for more than 30 years.
- **Rosie Jované**, an ISPO representative from Central America who champions O&P around the world.

*Space is limited. Confirm your participation on the World Congress registration form. For more information, please contact Betty Leppin at bleppin@aopanet.org or 571-431-0876. A special thanks to our sponsors: Hanger and Townsend Design \ Thausne USA.*
THURSDAY | September 7, 2017

Noon – 1:00 PM
Lunch and Learn: The Current State of Exoskeletal Devices
Oceanside E
This advanced level class isn’t for everyone. Those who are considered experts in this treatment area are invited to enjoy a lunch buffet while learning the latest treatment methodologies in this area. Space is limited and tickets are required.

5:30 – 6:30 PM
Centennial Celebration
Join conference participants, on Thursday, September 7 in the exhibit hall, as we celebrate AOPA’s Centennial and 100 Years of the formalized O&P Profession with a Champagne Toast.

6:30 – 9:30 PM
Party with a Purpose
Let’s celebrate 100 years of success—Las Vegas Style!
Reserve your ticket for this elaborate 1920’s themed party at the 1923 Bourbon Bar—A Modern Speakeasy, immediately following the Centennial Celebration. Enjoy extensive, prohibition inspired cocktails, a delicious dinner, live entertainment and a cigar lounge. Since this event is a fundraiser for the O&P PAC, rules apply. Tickets must be purchased separately but can be reserved in advance. Space is limited and the event will sell out.

Step It Up Challenge
Participate in a 3 day Step-It-Up Challenge, sponsored by MD Orthopaedics. Each day participants can track their steps via phone, separate app, fitness tracker, pedometer, etc. Participants must post a picture of their daily steps by 6:00 PM on each day in the Activity Feed of the AOPA 365 app or present their data to the Step It Up race headquarters near the information booth, located right outside the exhibit hall. Sign up for your chance to win daily cash prizes!

Sponsored by:
Technical Fabrication Contest
Start practicing! This year’s technical fabrication contest will feature a timed competition on the exhibit hall show floor.

Sign up, strut your stuff and show the profession that you are the best technical fabricator in the O&P profession. Winners receive—Bragging Rights and cash prizes.

Pre-register on your World Congress registration form to make sure you receive all communications and updates regarding the contest. If you have already registered for the Congress and were not able to register for the Technical Fabrication Contest, you can contact Ryan Gleeson at rgleeson@AOPAnet.org. If you decide to participate at the show, you can sign up at registration or at the contest location Booth #1223. There is no charge to participate.

- First Place Winner receives a $500 Cash Prize
- Runner up receive a $200 Cash Prize

All World Congress registrants may participate unless they are a judge, work for a contest sponsor or are on the World Congress Planning Committee or AOPA Board of Directors.

Presidential Papers
Through a special sponsorship from the America Board for Certification in Orthotics, Prosthetics and Pedorthics (ABC), the 2017 World Congress Clinical Education Workgroup will award the top papers the designation, “Presidential Paper.” Presidential Papers will be published in a special edition of the highly regarded *Journal of Neuroengineering & Rehabilitation*. All articles will be searchable on Medline, Medicus and other indexing services. The research will be available freely and permanently accessible online without subscription charges or registration barriers. The material will provide a valuable resource for future research.

Play the GIANT SLOT MACHINE and $2,000 Giveaway
Back by popular demand. As you attend educational sessions, be sure to get your tokens for the giant slot machine located in the exhibit hall. Test your luck and play your tokens to win fabulous prizes from exhibitors and AOPA. Support AOPA’s government relations program for a chance to win cash prizes, including the $2,000 grand prize!

Support AOPA’s government relations program for a chance to win cash prizes, including the $2,000 grand prize!

Sponsored by:
Townsend Design \ Thuasne USA

FRIDAY | September 8, 2017
5:30 – 6:30 PM
Exhibitor Sponsored Happy Hour
What better way of wrapping up a full day of learning than spending an hour in the exhibit hall, enjoying refreshments and networking with your colleagues and exhibitors. The Happy Hour is hosted by exhibitors—Las Vegas style. The Happy Hour reception is included in your full conference registration.
**SPECIAL EVENTS**

**FRIDAY | September 8, 2017**

9:00 AM – 1:00 PM

**Las Vegas Guest Tour**

We will start this private tour at the original Las Vegas, Fremont Street. See where it all began along with a view of the world’s largest whole golden nugget. Your professional Las Vegas tour guide provides a colorful history and dialogue of this great destination as you proceed southward down Las Vegas Boulevard. Our second stop will be the new Las Vegas High Roller—the world’s largest observation sky wheel with 28 pods holding 40 passengers each. The wheel takes 30 minutes to complete and features broad views of Las Vegas and the Strip. After leaving the High Roller, you will continue down the strip taking in all the sights and sounds of Las Vegas. Last, but certainly not least, is a stop at the world famous Welcome to Las Vegas sign. **Tickets are $95 per individual.**

**FRIDAY | September 8, 2017**

3:15 – 4:30 PM

**Technology Transfer Program**

Oceanside E

Join inventors and researchers from educational, clinical and manufacturing sectors, both within and outside of our industry, to present their ideas to an audience of manufacturing and clinical representatives, along with investors and venture capitalists from outside our industry. Review state of the art ideas, processes, designs and products about to be commercialized. A one hour networking wine-and-cheese reception will be held for inventors and investors to network following the presentation.

---

**Make the Alumni Connection**

_AOPA makes it easy to connect with your classmates!_

- Connect with your classmates through AOPA’s mobile app, _AOPA 365_—your school will be set up as a networking group.
- Proudly wear your school button which will be provided at information or the NCOPE booth #340.
- Share pictures, messages, and more through the mobile app.
- Meet your friends at informal social gatherings throughout the Congress.

**Two Alumni Meetings:**

- **Northwestern University**
  - Wednesday, Sept. 6
  - 7:30 PM
  - Fleur, in the bar area

- **California State, Dominguez Hills**
  - Thursday, Sept. 7
  - 8:00 PM
  - Border Grill
  - RSVP at: csudhopalumni.eventbrite.ie
AOPA thanks the following companies for their generous support and sponsorship of AOPA's 2nd World Congress.

### DIAMOND SPONSORS

![Logo](image)

### PLATINUM SPONSORS

![Logo](image)

### GOLD SPONSORS

![Logo](image)

### SILVER SPONSORS

![Logo](image)

### SUPPORTING SPONSORS

- AMFIT
- Aspen Medical Products
- Becker Orthopedic Appliance Co.
- Cailor Fleming Insurance
- Cascade Dafo
- Cascade Orthopedic Supply Inc.
- College Park Industries
- Comfort Products Inc.
- Fillauer
- FLO-TECH® Orthotic & Prosthetic Systems Inc.
- KISS Technologies LLC
- Knit-Rite Inc.
- LegWorks
- MD Orthopaedics Inc.
- Naked Prosthetics
- OPGA
- PEL
- Pine Tree Orthopedic Lab
- Protokinetics Gait Analysis
- Walkways
- Protorthotics
- Surestep
- Tamarack Habilitation Technologies
- Townsend Design \ Thuasne USA
ALPS NEW FLEX SLEEVE

Features new knitted construction with a 30° pre-flexion

Visit us at Booth #315!

www.easyliner.com
info@easyliner.com

ALPS
**PROGRAM AT-A-GLANCE**

Registration is open from 10:00 AM-6:00 PM, Mandalay Bay Foyer.

<table>
<thead>
<tr>
<th>Time</th>
<th>Exhibit Hall</th>
<th>Education</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 AM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8 AM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9 AM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10 AM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11 AM</td>
<td><strong>Exhibitor Setup</strong>&lt;br&gt;All exhibit booth personnel and set-up staff must have proper identification to enter the Exhibit Hall during set-up. Set-up must be complete by 6 PM.</td>
<td></td>
</tr>
<tr>
<td>Noon</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 PM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 PM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 PM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 PM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 PM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6 PM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7 PM</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Pre-Conference Education: Flexible Sub-Ischial Vacuum Socket Course**
1-5 PM  
4.0 CE Credits  
Mandalay Bay L  

P.42
10:00 AM – 6:00 PM **Registration Open**  
Mandalay Bay Foyer

10:00 AM – 6:00 PM **Exhibitor Set Up**  
Shoreline Exhibit Hall

1:00 – 5:00 PM **Pre-Conference Education: Flexible Sub-Ischial Vacuum Socket Course**  
Mandalay Bay L

Stefania Fatone, PhD, BPO (Hons)  
Ryan Caldwell, CP/L, FAAOP

The Northwestern University Flexible Sub-Ischial Vacuum (NU-FlexSIV) Socket, a socket technique designed to improve comfort for persons with transfemoral amputation. The NU-FlexSIV Socket has lower proximal trim lines that do not impinge on the pelvis; is flexible so muscles can move comfortably within the socket as they contract during activity and improve sitting comfort; and is held securely to the residual limb by vacuum pump suction. Using video we will describe patient evaluation, liner selection, casting, rectifications, fitting and definitive fabrication for the NU-FlexSIV Socket. Review use of the clinical algorithm for mold reductions and rectification mapping that has been developed to facilitate decision making for socket fabrication. Clinical case series and formal case studies will be used to evaluate socket function. Socket comfort score, gait analysis, and clinical outcome measures have been used to assess socket performance in a small group of civilian and military amputees. Anecdotal information from previous course participants and results from ongoing research will be described. Tickets are required and are available through registration; space is limited.
## PROGRAM AT-A-GLANCE

Registration is open from 7:00 AM-6:30 PM, Mandalay Bay Foyer.

<table>
<thead>
<tr>
<th>Time</th>
<th>Exhibit Hall</th>
<th>Education</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 AM</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| 8 AM    | **Exhibitor Setup**  
All exhibit booth personnel and set-up staff must have proper identification to enter the Exhibit Hall during set-up.  
Set-up must be complete by 3 PM. |           |
| 9 AM    |              |           |
| 10 AM   |              |           |
| 11 AM   |              |           |
| Noon    |              |           |
| 1 PM    |              |           |
| 2 PM    |              |           |
| 3 PM    |              |           |
| 4 PM    |              |           |
| 5 PM    |              |           |
| 6 PM    |              |           |
| 7 PM    |              |           |

**Manufacturers’ Workshops Tier A (4-Hr.)**  
8 AM - Noon  
4.0 CE Credits  
11 Workshops to choose from P.44-46

**Manufacturers’ Workshops Tier B (2-Hr.)**  
8-10 AM, 2.0 CE Credits  
8 Workshops to choose from P.47-48

**Manufacturers’ Workshops Tier C (2-Hr.)**  
10:30-12:30 PM  
2.0 CE Credits  
9 Workshops to choose from P.49-50

**Manufacturers’ Workshops Tier D (2-Hr.)**  
1-3 PM  
2.0 CE Credits  
6 Workshops to choose from P.51-52

**Manufacturers’ Workshops Tier F (2-Hr.)**  
3:30-5:30 PM  
2.0 CE Credits  
6 Workshops to choose from P.56-57

**Business Certificate Program**  
1-5 PM  
4.0 CE Credits  
Mandalay Bay L P.57-58

**Welcome to Las Vegas Reception**  
5:30-7:30 PM  
Exhibit Hall
WEDNESDAY SEPTEMBER 6

7:00 AM – 6:30 PM  Registration and Information Desk Open
Mandalay Bay Foyer

8:00 AM – 3:00 PM  Exhibitor Set Up
Shoreline Exhibit Hall

8:00 AM – Noon  Manufacturers’ Workshops—Tier A
(The following workshops in Tier A run concurrently within this track)

MWA-1  🔄 Tillges Technologies Introduces the NEW Carbon Fiber Pre-Preg PROPULSION™ Bracing Line including AFO, KAFO and Partial Foot Prosthetic Solutions
Sponsor: Tillges Technologies / TCOP
Breakers A

The next generation of lower extremity carbon pre-preg bracing is here! Now featuring a modular molded inner boot design offering total heel control and adjustability, custom energy storing and release posterior strut, and ultra-lightweight design. Join us to learn about the new Propulsion line of pre-preg bracing. This presentation will feature an introduction to the application and benefits to the patient. There will be several case studies presented of the different braces on a variety of patients with different diagnoses.

Become the specialist in wound care in your area and achieve results that exceed your competition! Learn about the PressureGuardian system from Tillges Technologies, which allows you to measure pressure in orthotic or prosthetic devices quickly and efficiently. Presenters will also discuss the Minnesota Boot, a custom fabricated orthosis for lower extremity wound and deformity management.

MWA-2  🔄 Get Their Gait Straight! A Collaborative Approach to Carbon Composite AFOs
Sponsor: Allard USA
Breakers B

Don’t gamble with little feet! Learn why 89% of patients prefer carbon fiber. Review The Ohio State University Wexner Medical Centers Department of Neurology study which concludes “Anterior shell carbon fiber AFOs should be considered for most neuromuscular patients with distal leg weakness.” A carbon composite AFO, however, is only as good as its fit. In this four-hour course, you will:

• Become an expert on assessing patients to determine the best style of carbon composite AFO offering the dynamics and propulsion needed for a patient’s specific challenges
• Learn how to properly align and customize that AFO to ensure optimal function and longevity
• Review assessments of functional and postural outcomes of the pediatric CP patient
• Understand the biomechanics of the hip, factors leading to hip displacement and the orthotic management of these deficits
MWA-3  Chronic and Acute Stance Control Patient Application Management
  
  **Sponsor:** Becker Orthopedic Breakers C

  The formula for success in the application of a stance control orthosis is tied to a proper assessment of the patient. Chronic and acute patient categories present unique practitioner challenges in the use of the technology. Success has been directly linked to a physical trial with an immediate fit orthosis. In this approach, a practitioner can ascertain if any physical restraints exist from the late effects of a neuromuscular deficit in chronic patients. In acute cases, the practitioner can initial the task of gait retraining and determine if sufficient muscular strength exists for the patient to initiate over the ground weight bearing. In either category, patients undergo a physical challenge through the use of the trial orthosis and if successful can transition to a custom device. The workshop will cover the unique physical limits of acute and chronic applications, as well as a practicum on the use of the PreStride™ immediate fit stance control orthosis.

MWA-4  Socket Selection Criteria and Alignment Considerations
  
  **Sponsor:** ALPS Breakers D

  Prosthetists have come to adopt liners with pins and locking devices as their main stay suspension method for trans-tibial amputees. While this provided them with major improvements over previous suspension methods available, not all amputees have the proper tissue and limb configuration to be fitted with locking suspension. The stresses created at the distal end will cause skin and suspension problems in a good number of amputees. Additionally, the largest segment of the amputee population more specifically geriatric and less functional individuals, often have difficulty in donning of a pin.

MWA-5  Aligning Your Documentation: Clearing Medical Necessity and Other Major Reimbursement Roadblocks
  
  **Sponsor:** Ottobock Breakers E

  Be ready for the audits. Keep up to date with the latest audits in orthotics and prosthetics. Learn the documentation rules and the best ways to make sure your documentation is complete, efficiently handled, and ready for a clean claim submission.

MWA-6  Orthomerica OWLS Certificate Course (Part 1)
  
  **Sponsor:** Orthomerica Products Inc. Breakers F

  This eight hour certificate course will cover the disease process of diabetes including diabetic neuropathy, wound development, and wound healing using Orthomerica’s OWLS system. Charcot Arthropathy treatment with Orthomerica’s shark-o will be discussed, as well as Orthomerica’s newly released “tri-planar adjustable, carbon/glass filled foot sole. There will be a live patient evaluation and OWLS treatment by Dr. Suecof and Jeff Miller. Attendees will receive OWLS certification and will be listed as such on the Orthomerica search engine.
MWA-7  
**Össur Innovation and Outcomes**  
*Sponsor: Össur Americas*  
Breakers G  
A comprehensive look at how the latest innovations and technology by Össur contributes to clinical outcomes of the end user. This workshop will review the latest products with discussion on the design, benefits and how they contribute to successful clinical outcomes.

MWA-8  
**The Providence Nocturnal Scoliosis System**  
*Sponsor: Spinal Technology, Inc.*  
Breakers H  
This course instructs orthotists on the use of a nocturnal orthotic system for the non-surgical treatment of adolescent idiopathic, juvenile and neuromuscular scoliosis. The program will educate on how to satisfactorily address the needs of patients via thorough review of scoliosis principles and the use of innovative technology to optimize fit, comfort and compliance while stopping curve progression in a nocturnal only setting.

MWA-9  
**O&P Fabrication is Changing. Don’t Get Left Behind.**  
*Sponsor: Vorum*  
Mandalay Bay I  
O&P clinics around the world are rushing to start using Computer-Aided Design and Manufacturing (CAD/CAM) tools, and interest in 3D printing is quickly growing. Frozen reimbursement rates, a shortage of clinicians, and rising patient expectations are among the many challenges driving these surges. Attend this hands-on workshop to learn how Spinal Technologies, Shriners Hospitals for Children, Orthomerica, and hundreds of others are using CAD/CAM to boost clinician productivity by up to 600% and better serve patients. Also learn how you can help your staff smoothly migrate from plaster to a virtual 3D world on a computer. Refreshments will be provided.

MWA-10  
**Beyond the DAFO Basics—Brace Planning for Crouched Gait**  
*Sponsor: Cascade Dafo, Inc.*  
Mandalay Bay J  
What is crouching? Is it simply flexed knees during gait? The answer is not as straightforward as it seems. Join us as we look at the process of assessing and planning bracing for patients who present with crouched gait. Through video case studies and active participation, we’ll explore dynamic brace selection, casting, ordering, fitting, and optimizations to help patients with excess dorsiflexion achieve the best possible outcomes.

MWA-11  
**Improving Lives Through Innovation**  
*Sponsor: RUSH Foot*  
Mandalay Bay K  
Ability Dynamics is challenging the prosthetic foot market with the RUSH™ foot, a remarkable innovation that integrates a new approach to foot design with new composite materials used in the aerospace industry. This radical departure from the industry status quo of using carbon fiber composites and traditional designs has resulted in improvements in gait and a reduction in socket issues—and ultimately a better quality of life for amputees. Practitioners will also learn from Sienna Newman, CPO, LPO, how improvements in design and composite materials can impact their practice by eliminating unbillable repairs and warranty returns.
8:00 – 10:00 AM  Manufacturers’ Workshop Tier B  
(Two Hour Workshops)

MWB-1  🟢 Standard Cyborg Introduces Design Studio: CAD/CAM, Re-Invented  
**Sponsor:** Standard Cyborg  
**Breakers J**  
There’s an understandable reason O&P practitioners have traditionally been frustrated by CAD/CAM systems. Technology is supposed to save clinics time and money, but existing software is complicated and the scanners and carvers that get sold alongside the software are incredibly expensive. Standard Cyborg’s cloud-based 3D design software is different. It was released late last year to allow clinicians to design any and all prosthetics and orthotics. It works with any scanner and allows you to 3D print or carve the final shape. Its adoption has been fast—being used in over a dozen countries and nearly every state in the US, including becoming part of the curriculum at top-tier educational programs like Baylor, Northwestern, and Hartford. Come learn about Standard Cyborg’s new approach to CAD/CAM, 3D Printing, and how technology can help clinics spend less time in the plaster room and more time with their patients.

MWB-2  🟢 One Glue to Bond Them All? Modern Contact Adhesives in O&P  
**Sponsor:** Renia GmbH  
**Breakers K**  
Many materials used in today’s Orthotics and Prosthetics industry can be quite challenging to work with. Classic contact cements are not geared for these applications, and come with unnecessary health hazards as well. Is there a safe and simple way to solve these bonding problems? There sure is, and we will show you how! In this workshop, we will cover topics like material identification and preparation, as well as modern, designed for O&P contact adhesives that make fabrication and modification of orthopedic devices and shoes much easier, safer, and more efficient. We will also demonstrate the new Termat Lowell Lasting Foam.

MWB-3  🟢 Hip Bracing Solutions by Össur; Featuring the Unloader® Hip & Rebound® Hip  
**Sponsor:** Össur Americas  
**Breakers L**  
From the manufacturers of the clinically proven Unloader One®, is an innovative osteoarthritis hip brace. Come see the unique Unloader Hip® and learn about how it can make a difference in improving mobility for your patients suffering from hip osteoarthritis. We will also be demonstrating the Rebound® Hip. This is a solution designed to support healing after hip arthroscopy. The low profile & light-weight Rebound® Hip provides gentle controlling forces that facilitate healing while allowing patients to safely perform daily activities.
MWB-4  Orthomerica Introduces the Latest Advancements to the SmartSoc™ System, which Includes Video Scanning Capabilities for both Cranial Remolding Orthoses and Prosthetics  
_Sponsor:_ Orthomerica Products Inc.  
_Reef D_

This presentation will cover the latest enhancements to the SmartSoc™ System, the newest portable scanning technology from Orthomerica. The system converts 2D videos, obtained from a cell phone, into 3D models with 0.10% accuracy for precise fabrication. We will give an in-depth overview of the Smartsoc system (including the new iPhone version) and the web based eBrace® patient management program that allows users to review the scan and order the device. The Measurement Comparison Utility (MCU) allows cranial practitioners to print comprehensive cranial comparison reports, and prosthetic practitioners can evaluate and document volume fluctuations of the residual limb.

MWB-5  CAD Modification Design Essentials with Roger Wagner, CPO  
_Sponsor:_ WillowWood  
_Reef E_

This workshop will familiarize attendees with the navigation and use of the OMEGA software. Participants will learn how to create new patient shape files and will be introduced to the concept of “stacks,” which are the sets of steps to be completed for the Capture, Design, or Fabrication of the model.

MWB-6  Creating Successful Prosthetic Outcomes for Your Low-Mobility Patients  
_Sponsor:_ Ottobock  
_Reef F_

This workshop will focus on appropriate solutions to achieve better outcomes for TT and TF lower mobility users. These solutions will include component selection, material selection, and reimbursement answers. Discussion on the challenges of walking in confined areas, transferring, ambulating on uneven surfaces and using assistive devices will be covered. Alignment and gait training techniques will be included in this workshop.

MWB-7  Don’t Gamble with your Foot Choice—Bet on Ottobock’s full line of feet from K2 to K4 including 3 Microprocessor feet  
_Sponsor:_ Ottobock  
_Reef A_

This workshop will provide the practitioner with a comprehensive overview of all the latest foot designs introduced by Ottobock. Learn about our feet that provide stability for the lower mobility user to the newest running and sports feet used in the Paralympics. Discussion on appropriate selection criteria and alignment recommendations will be covered.

MWB-8  New Solutions with Freedom Innovations  
_Sponsor:_ Freedom Innovations  
_Reef B_

Explore the newest additions to Freedom’s product portfolio. Take a closer look and get your hands dirty fitting the Kinnex MPC Ankle/Foot System.
10:30 AM – 12:30 PM Manufacturers’ Workshop Tier C
(Two Hour Workshops)

MWC-1  Gomez Orthotic Spine System

Sponsor: Friddle’s Orthopedic Appliances, Inc.
Breakers J

This course will provide the practicing orthotist with an in-depth overview of the “Gomez Orthotic Spine System” approach to the comprehensive management of spinal pathologies, including idiopathic scoliosis, neuromuscular disorders, as well as degenerative spine disorders. The emphasis will be on proper spine alignment and balance and the importance of detailed clinical evaluation, combined with objective assessment of tri-planar spinal flexibility to create a comprehensive biomechanical plan for successful treatment of spine deformities and instabilities. Each participant will learn the use of the simple tools to measure and record clinical signs to be used in the orthosis design.

MWC-2  How Exposed are You and Your Practice?

Sponsor: Cailor Fleming Insurance
Breakers K

You’ve worked hard at building your career and your business... and we as O&P practitioners plan to treat each referral with the utmost care, latest technology and professionalism however, sometimes, treatment plans do not always meet our (or the patient's) outcome goals.

MWC-3  Maximizing Your Referral Sources & Marketing in Today’s Environment

Sponsor: Aspen Medical Products
Breakers L

Join Aspen for a sales and marketing workshop. Learn sales techniques, approaches and philosophy. Leverage your current relationships to increase referrals. Use innovative approaches to access physicians. Leave with a marketing promotions kit to enhance your efforts.

MWC-4  Restoring Hand Function to People with Partial Digit Amputations

Sponsor: Naked Prosthetics
Reef D

Partial digit loss is among the most common and the most underserved amputation levels. Manufacturing advances, combined with clinical expertise and advanced engineering, have allowed Naked Prosthetics to create strong and functional prostheses that have been returning people to demanding jobs and hobbies for over three years. This workshop will cover the etiology and prevalence of digit amputation; supported outcome measures for this population; and the latest innovations at Naked Prosthetics.
MWC-5  WillowWood One Socket System Certification Course
Sponsor: WillowWood
Reef E
Participants will receive an overview of the key aspects of fitting patients with the WillowWood One System, an elevated vacuum system that improves socket fit, function, and comfort through advances in liner technology and seal design. Course topics include patient selection, component function, shape capture, socket fitting, and vacuum parameter adjustment.

MWC-6  Less Pain. More Life. Defining your Unique Approach to Osteoarthritis
Sponsor: Ottobock
Reef F
Learn more about knee osteoarthritis and how to inspire your patients to live with less pain and more life. We will discuss current trends, market dynamics, and a new approach to relieving knee pain by starting at the ankle. We will share patient feedback and physician insight as to why this seemingly counterintuitive approach could change your treatment protocol and business approach to knee osteoarthritis.

MWC-7  Improved Outcomes with MPKs Over Mechanical Knees
Sponsor: Ottobock
Reef A
This workshop is designed for practitioners interested in learning and using the latest technology for TF and HD patients. The course will review Ottobock family of microprocessor knees; including the Kenevo, the C-leg4, the Genium Bionic System and X3. An overview of the features, benefits, alignment, programming and training users to maximize results will be covered in this course. Gain a deeper understanding of the newest technology and be able to differentiate various knee functions to provide the appropriate choice for your patients.

MWC-8  Pattern Recognition: Enhanced Myoelectric Control for Upper Limb Prosthetics
Sponsor: Coapt
Reef B
Spend an informative session with the professionals from Coapt and users of Coapt’s COMPLETE CONTROL pattern recognition system. Attendees will learn the basics and benefits of this powerful technology and be introduced to the newest generation solution—a reimagined, smaller, more power-efficient system redesigned to simplify fabrication challenges. The workshop will include live demonstrations of enhanced prosthesis control and interactive opportunities to have questions answered. Finally, attendees will learn how to best involve Coapt’s evaluation and fitting resources and what to expect both from the system and from patient performance.

MWC-9  Innovation in Spine Technology
Sponsor: Ottobock
Breakers I
Join us in discussing the latest innovation in spine technology: Dyneva. Dyneva helps patients who suffer from spinal stenosis, lower back pain, lumbar instability, disc prolapse, and protrusion. The dynamic functions of this spine brace will help your patients live a more active, pain free life.
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
</table>
| 1:00 – 3:00 PM | **Manufacturers’ Workshop Tier D**  
|             | (Two Hour Workshops)                                                 |

**MWD-1**  
**Bracing For The Acute Patient**  
*Sponsor: Aspen Medical Products Breakers L*  
Learn about exciting options for treating trauma patients in hospitals. Leverage these offerings to increase hospital calls.

**MWD-2**  
**Fuzion Orthotic System**  
*Sponsor: Orthomerica Products Inc.*  
Reef D  
The foot and ankle complex is frequently affected by deterioration of the joints and ligamentus structures secondary to trauma, inflammatory diseases and degenerative changes. This 2 hour presentation reviews the anatomy of the foot & ankle and discusses common pathologies that cause dysfunction. A full spectrum of orthotic management strategies is discussed to improve alignment, increase function and relieve pain. This presentation also presents innovative approaches to the management of patients with deformities and spasticity using materials that fuse traditional plastics with colorful, skin-friendly foam.

**MWD-3**  
**Triple Action® Ankle Joint: The New Standard in Orthotics for Biomechanical Control of the Foot/Ankle Complex**  
*Sponsor: Becker Orthopedic*  
Reef E  
The Adult and Pediatric Triple Action® Ankle Joints from Becker Orthopedic set a new standard in biomechanical control of the foot/ankle complex by offering unparalleled durability, high resistance spring options and independent adjustment features that allow precise tuning of dorsiflexion/plantarflexion resistance and ankle alignment. Orthotists can use these new innovative ankle joints to achieve the best possible outcome for any clinical presentation, from mild to highly complex. Through case study examples, clinicians will gain practical tools and expertise to help them use these advanced ankle components in their own clinical practices.

**MWD-4**  
**Restoring Function and Raising Activity to the Next Level**  
*Sponsor: Fillauer*  
Reef F  
No longer will your lower extremity amputees have to sacrifice performance for practicality. Attendees will review the biomechanics behind Fillauer’s versatile foot designs and materials, see a wide range of practical applications, and take a look at three new posterior-mounted foot options, including one that will extend 21st century technology to Symes and Boyd patients.
MWD- 5  🛋️ Stroke: Orthotic Selection for Acute and Chronic Conditions
*Sponsor:* Ottobock
Reef A
Gather tips and processes to get the most out of fittings and to maximize your patients' function. Learn about what products Ottobock has designed to help stroke survivors improve their mobility and attain the best possible quality of life.

MWD- 6  🛍️ What's your Terrain? Transcending K2 Boundaries with the Purely Mechanical All-Terrain Knee
*Sponsor:* LegWorks
Reef B
This course will cover the All-Terrain Knee and gait training for both low and high-activity patients. The All-Terrain Knee is a K2-reimbursable knee with an innovative design that provides stability, safety, and energy efficiency for your patients while promoting a more natural gait pattern. An overview will be provided of our technology, followed by the fitting of a new patient. General gait training techniques that benefit all amputees will be presented.

1:00 – 5:00 PM  Manufacturers' Workshop Tier E
(Four Hour Workshops)

MWE- 1  🛠️ Leveraging the OPIE Toolbox for Business Success (1:00 – 3:00 PM); Maximize Your Productivity with Integrated Business Solutions (3:00 – 5:00 PM)
*Sponsor:* OPIE Software
Breakers A
From 1:00 – 3:00 pm, prospective OPIE users can learn how OPIE can improve workflow, optimize efficiencies, and provide data that can help to advance patient care and overcome reimbursement issues. From 3:00 – 5:00 pm, current OPIE & Futura users can join us to learn about the tools currently available to maximize the effectiveness of your office.

MWE- 2  🛋️ The Pedorthic Part of Your Practice: Thinking Outside of The Proverbial Shoe Box
*Sponsor:* OHI
Breakers B
Shoes and inserts are only a small piece of the pie. Learn how to expand your horizons within your practice to offer more to your patients and grow your bottom line.
Our workshop will review various pathologies, appropriate appliances & utilizations, and the proper footwear for your appliances. “Fall Risk Awareness” will be discussed to include as part of your daily visits with patients, and how the MBB can be a preventative device with at-risk patients balance and stability. We will also discuss how CMS is requiring physicians to be more thorough which creates more referral sources to your practices.
MWE-3  
**SpineCor® ‘Tech-Assist’ Model Training for Adult SpineCor Comfort Plus Brace Treatment**  
_Sponsor: Becker Orthopedic_  
_Breakers C_  
In this four hour workshop, attendees will learn how to order and fit Adult SpineCor Comfort Plus braces to their scoliosis or hyperkyphosis patients. The SpineCor Tech-Assist team, in collaboration with Becker Orthopedic, will use photos of the patient to perform the clinical and radiological evaluation required for determining the correct brace configuration. This frees up the Orthotist’s valuable time and allows them to focus on the important job of fitting the brace.

The workshop will instruct the Orthotist in how to take evaluation photos of the patient for the Tech-Assist team and explain their decision-making process in deciding between the different brace configurations. The brace ordering process will be presented, as well as the various brace configurations, with each attendee having the opportunity to gain some ‘hands-on’ experience with a live patient model. Guidance on indications and contraindications will also be provided to help the Orthotist determine patient candidacy. The long-term management of a patient in the Adult SpineCor Comfort Plus brace will also be presented.

MWE-4  
**The FS3000 Foot Drop AFO from Turbomed Orthotics**  
_Sponsor: Turbomed Orthotics Inc.  
_Breakers D_  
Turbomed will offer a two hour training course twice on the revolutionary foot drop AFO, The FS3000 foot drop AFO from Turbomed Orthotics. The first training session will be from 1:00 to 3:00 and second one from 3:00 to 5:00. During the training session, practitioners will learn how to rapidly assess a patient (in less than 5 minutes) and how quickly a FS3000 KIT fully assembles. In the past 24 months, more than 8000 units of the FS3000 have been sold worldwide.

MWE-5  
**How Bebionic and Michelangelo can Help Men, Women & Adolescents Achieve Cognitive Connectivity with Their Upper Limb Prosthesis**  
_Sponsor: Ottobock_  
_Breakers E_  
This workshop is designed for practitioners interested in learning more about premium myoelectric technology available for upper limb amputees. This course will review the Bebionic and Michelangelo hands by Ottobock, and appropriate selection based on patient criteria. An overview of the features and benefits of both terminal devices will be discussed. Additionally, this course will examine the connection between positive body image and the users’ acceptance of the prosthesis.

MWE-6  
**Orthomerica OWLS Certificate Course (Part 2)**  
_Sponsor: Orthomerica Products Inc._  
_Breakers F_  
This eight hour certificate course will cover the disease process of diabetes including diabetic neuropathy, wound development, and wound healing using Orthomerica’s OWLS system. Charcot Arthropathy treatment with Orthomerica’s shark-o will be discussed, as well as Orthomerica’s newly released “tri-planar adjustable, carbon/glass filled foot sole. There will be a live patient evaluation and OWLS treatment by Dr. Suecof and Jeff Miller. Attendees will receive OWLS certification and will be listed as such on the Orthomerica search engine.
MWE-7  Touch Bionics by Össur: Advanced Solutions for Upper Limb Loss and Deficiency
Sponsor: Össur Americas
Attendees will learn about the latest innovations from Touch Bionics by Össur. The i-limb™ quantum is the first upper limb prosthesis that can change grips by a simple gesture. This workshop will introduce the supro wrist. With the addition of the supro wrist to the product line, simultaneous pre-positioning of the wrist while entering grips is possible. In addition, this workshop will cover all new developments with the full range of Touch Bionics by Össur products—i-limb family of hands, i-digits, and livingskin™. Attendees will learn the best practices for conducting client evaluations, functional testing, and therapy training protocols.

MWE-8  Improved Clinical Outcomes with Consistent Successful Socket Fit Via Full Weight Bearing Hydrostatic Casting Technique
Sponsor: Cypress Adaptive
Socket fit is vital to comfort, suspension, control and acceptance of a lower extremity prosthesis. Learn about a new approach that incorporates a full weight bearing casting technique enabling the practitioner to capture individual limb conditions as they are inside a socket under full weight bearing conditions. The implementation of this technique significantly reduces/eliminates the need for cast modifications and multiple check sockets, facilitating maximal clinical efficiency and faster patient progression. Participants will learn and perform the correct methodology to apply this full weight bearing casting technique through instruction, presentation of case studies, live patient demonstration and hands on practice.

MWE-9  Don’t Fear Change! Modular Adjustable Carbon Dynamic Bracing Exists! And the all “NEW” Hybrid Crossover Knee!
Sponsor: Fabtech Systems
Learn about PDE™ modular dynamic springs and Reaktiv™ carbon braces. These adjustable, modular carbon composite spring systems are designed to change with your patient at any time. Learn how easy it is to change patient categories, change alignment or address heel height even after the carbon brace has been made! Full overview and hands on casting demonstration provided. Learn all about the new “Crossover knee”, an ambulatory knee that converts into a sports knee. This new hybrid knee is a first for the industry! The Do-Anything Knee!

MWE-10  3 Pillars of a Successful Practice
Sponsor: Freedom Innovations
Come join us for an afternoon to explore the three pillars of what makes a successful practice. The program aims to provide information on New Product Integration, Billing and Reimbursement Support and Physical Therapy Application and Training with our products. This course will feature specialists from the field on Reimbursement and Physical Therapy.
MWE-11  Adjustable Socket Revolution: Volume Management, Suspension and More
Sponsor: Click Medical
Introducing RevoFit Adjustable Socket technology for upper and lower extremity applications and the RevoFit Lanyard. Utilize a powerful mechanical tensioning system in laminated socket designs to enhance fit as an function of prosthetic sockets. Empower your patients to improve socket fit and function by incorporating the user adjustable RevoFit system. Learn how to create Suspension, Volume Management and/or Donning & Doffing solutions for your prosthetic patients. Learn when and how to use RevoFit while reviewing indications, contra-indications, socket design and fabrication processes.

MWE-12  LIM Innovations—Beyond The Infinite Socket®
Sponsor: LIM Innovations
Utilizing state of the art technology and design, the Infinite Socket System has provided a gateway to measurable accountable care. We leverage our technology to improve Functional Outcome Measures, and drive continued innovation of our product line. The Infinite Socket System has provided O&P providers the opportunity to expand their business through improved service, device delivery, patient referrals, and better patient outcomes. This training will provide real-life case studies from Certified Providers who we have partnered with to grow their business, as well as deliver the latest clinical developments to the Infinite Socket System.

MWE-13  Lower Extremity KAFOs, AFOs & KOs for Complex Patients
Sponsor: Townsend Design \ Thuasne USA
Townsend Design \ Thuasne USA provides a diverse range of lower extremity bracing solutions for patients who have complex mobility challenges and severe anatomic abnormalities. Will Cox, CPO, describes clinical conditions that require specific bracing structures and componentry to help normalize gait and optimize function. Whether you have internal fabrication capabilities, or rely on external central fabricators, Townsend is an industry-leading resource for composite, carbon, thermo-plastic and hybrid bracing technology. Learn about Townsend’s collaboration with Becker Orthopedic (stance control KAFOs), our traditional locking KAFOs and KOs, a carbon KO for BK amputees, and our fantastic new SpryStep dynamic posterior lateral strut composite AFO. (www.thuasneusa.com)

MWE-14  Navigating New Pathways: Orthotic Tools for Maximizing Therapeutic Outcomes
Sponsor: Surestep
When normal development is disrupted by tone, weakness or other abnormalities, we must comprehend the cause and effects to properly implement orthotic intervention. This presentation discusses development from ages 0-3, 3-6 and 6 plus. Attendees will learn deficits, functional impairments and specific solutions including innovative SureStep orthoses. This interactive presentation with photos and videos will invoke good open discussion and group interaction. Several traditional and SureStep sample orthoses are used to demonstrate the contrasts in orthotic theory, concept and treatment modalities.
3:30 – 5:30 PM   Manufacturers’ Workshop Tier F
(Two Hour Workshops)

MWF-1   The Acceleration of 3D Scanning Integration: Why and How is It
Happening Now?
Sponsor: TechMed 3D Breakers L
It was in the 90’s that PCs became powerful enough to run 3D CAD software. In
the O&P industry, specific 3D CAD-CAM solutions like Rodin, Vorum, Delcam and
Shoemaster became available during that decade. These systems are now mature,
reliable and reasonably affordable. However, the penetration rate of 3D CAD-CAM
in the O&P industry is still far off the level it should reach. It is now changing and it is
changing fast. One of the main reasons is a sudden multiplication of affordable, easy
to use and reliable 3D scanners with control interfaces specialized for the human
body. 3D scanning of a human body part has changed from being tricky and cumber-
some to being pleasant and nearly trainingless. It used to be the biggest investment a
clinic could make at above 20 000$. Now it is becoming a near commodity. Barriers
are coming down fast and a select number of O&P manufacturers and clinics are
taking full advantage of it. Is this an opportunity or a threat for your business?

MWF-2   The College Park/Liberating Technology Boston Digital Arm System’s
Unique Control Strategies
Sponsor: College Park Industries
Ref D
A hands on workshop with the CPI/LTI Boston Digital Arm System’s microcomputer-
based prosthetic interface. It is capable of supporting input signals from a variety of
sensors including myo-electrodes, servo transducers, force sensor pads, switches,
TMR, and COAPT. It is intuitively a control platform compatible with most manufac-
tures’ upper-limb components including the latest dexterous hands and supports
simultaneous control of up to five devices. Including experience with the new
College Park Axis shoulder disarticulation joint.

MWF-3   The End of Rigid Sockets—Socket-less Sockets for Various Fitting Levels
Sponsor: Martin Bionics
Ref E
The human body is dynamic. Shouldn’t your sockets be dynamic as well? This will
be an interactive introduction and training for the revolutionary Socket-less Socket
designs for various fitting levels.

MWF-4   Upper Extremity: New Developments and Modern Updates
Sponsor: Fillauer
Ref F
This course will focus on our new upper extremity skeletal system, NEXO and
our new electric terminal device, the ETD2. The NEXO system is a new group of
components that will significantly lighten your prostheses as well as making the
alignment adjustable and the fabrication simpler than ever. This course will also
cover the new transhumeral component selection. We will conclude the course with
the ETD2 product group. It is a sleeker, modern take on the popular ETD product,
the ETD2 has all the features you are looking for in an electric functional device
without breaking your budget.
MWF- 5  Hold On!!! Latest Suspension and Liner Technologies from Ottobock

Sponsor: Ottobock
Reef A

This workshop will discuss the latest socket suspension options for the trans-tibial and trans-femoral levels of amputation including material choices used for all levels of function. This course will focus on the indications for using silicone, thermoplastic elastomer or urethane systems in your interface as well as an introduction to vacuum fittings using the Harmony System or the EMS Socket System.

MWF- 6  Boston Brace 3D

Sponsor: Boston Orthotics & Prosthetics
Reef B

From the leaders in scoliosis bracing, the Boston Brace 3D is the next innovation in the non-operative treatment of idiopathic scoliosis. Our clinical experts have combined knowledge of the three dimensional scoliotic curvature with the latest in shape capture and CAD/CAM technologies. This enhanced brace design comes from the unique selective shift/push combination of corrective forces that are fabricated into each brace. Attendees will be introduced to the standard clinical processes developed for the Boston Brace 3D.

1:00 – 5:00 PM  Business Certificate Programming
Mandalay Bay L

Don’t miss these pre-show workshops, created exclusively for those working towards their O&P Business Certificate. Earn your business certificate in O&P Business Management from AOPA. With 100 years of service to the O&P profession, AOPA is a reliable partner in providing high-quality and relevant business education to the O&P community. By completing four core and four elective courses (and passing the accompanying quizzes) you will earn your certificate in O&P Business Management from AOPA. For more information about the program, please visit www.aopanet.org/education.

1:00 – 1:45 PM  Materials Management: The Hidden Product Cost Factor (B1)
Darren Donnelly, MBA, CO

Learn the importance of cost of materials management and discuss the importance of organizing the purchasing and inventory workflow. The two largest expense items are materials and salaries. Most business owners are aware of their payroll cost monthly, but also managing cost of materials can help you cut costs, control spending, and increase your profit margin.

2:00 – 2:30 PM  Financial Health—Cash is King (B2)
Sandy Howell, Director, OPIE Software

Are you taking a preventative healthcare approach or a reactive one to your finances? Understanding the financial health of your practice is not just about having a healthy balance sheet. This presentation will focus on key elements related to cash flow; how to calculate these metrics and guide you on implementing change within your practice.
2:30 – 3:00 PM  Effective Staff Meetings that Translate into Business Results (B3)
Valerie Vastola, Business Advisor, OPIE Software
Are you missing out on data, numbers and the overall health of your office? This session will talk about the importance of weekly meetings with your staff and how to provide the best experience for your patients. Preparation, proper agenda, time and assignments are key.

3:00 – 3:45 PM  Back to Basics: Using the Classics to Make Online Marketing Easy and Affordable (B4)
Jane Gordon, Account Executive, VGM
Christina Throndson, Director, VGM
During this presentation, we will discuss the 4 P’s of marketing—product, price, place and promotion, and their effective role in today’s digital world. We will also discuss the promotion mix of direct marketing, personal selling, sales promotion, advertising and publicity. The tools have changed, but the process remains the same.

4:00 – 5:00 PM  Balanced Scorecards—Essential Tools for Success (B5)
Elizabeth Ginzel, CPO, LPO
Lesleigh Sisson, CFom, OPIE Software
Pam Lupo, CO
This panel presentation will illustrate the need for businesses to develop, implement and execute balanced scorecards to assist in meeting their strategic goals. We will also share balanced score cards in varying arenas of orthotics and prosthetics: clinical, customer service representative, accounts receivable, fabrication and marketing. The use of tools to measure metrics in objectives, measurements, initiatives, and goals brings clarity to management and allows for quick and concise reporting to leadership.
Wednesday Exhibit Hall
Happenings

5:30 – 7:30 PM  Welcome to Las Vegas Reception
Shoreline Exhibit Hall

DON’T MISS THE SHOWSTOPPING
WELCOME RECEPTION
as exhibitors greet you—Las Vegas style.

During the reception exhibitors will compete to show you
the best Vegas has to offer through costumes, props and
entertainment. Remember to vote for your favorite using the
mobile app, AOPA 365, under the contest section. Refresh-
ments will be served. The Welcome Reception is included
in your full conference registration. Guest tickets may be
purchased for $45 per individual.

VOTE for your
favorite with
the AOPA
365 App

On your iPhone,
Android or iPad:
DOWNLOAD the
AOPA 365
App Today!
As an online reimbursement, coding, and policy resource, this site includes a collection of detailed information with links to supporting documentation for the topics most important to AOPA Members. Like a Wikipedia of all things O&P, the Co-OP incorporates a crowdsourcing component, which is vetted by AOPA staff, to garner the vast knowledge and experience of our membership body.

Resources include:

- State-specific insurance policy updates,
- L code search capability,
- Data and evidence resources, and so much more!

For more information or to see a live demo, visit the AOPA Booth #100.

www.AOPAnet.org/co-op.
Congratulations AOPA on 100 years of leading the profession. We are proud to have served together for generations.
# THURSDAY 9 | 7 | 17 SCHEDULE

## PROGRAM AT-A-GLANCE

Registration is open from 7:00 AM- 6:00 PM, Mandalay Bay Foyer

<table>
<thead>
<tr>
<th>Time</th>
<th>Exhibit Hall</th>
<th>Oceanside C</th>
<th>Oceanside D</th>
<th>Mandalay Bay I</th>
<th>Mandalay Bay J</th>
<th>Mandalay Bay K</th>
<th>Mandalay Bay L</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 AM</td>
<td></td>
<td></td>
<td></td>
<td>Breakfast</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8 AM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9 AM</td>
<td>Exhibit Hall Open</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9:00 AM-6:30 PM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9:00-10:30 AM</td>
<td>Break</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10 AM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11 AM</td>
<td>Product Preview Theaters (PPT)</td>
<td>C3 (Post Stroke Symposium) 10:30 AM-Noon 1.5 CE Credits P.67</td>
<td>C1 (Prosthetic Symposium) 10:30 AM-Noon 1.5 CE Credits P.64</td>
<td>P1-2 (Pedorthic Education) 10:30 AM-Noon 1.5 CE Credits P.63</td>
<td>T1 (Future Tech) 10:30 AM-Noon 1.5 CE Credits P.63</td>
<td>C2 (Free Papers) 10:30 AM-12:10 PM 1.5 CE Credits P.66</td>
<td>B6 (Compliance and Ethics) 10:30 AM-Noon 1.5 CE Credits P.64</td>
</tr>
<tr>
<td>Noon</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 PM</td>
<td>9:10 AM – 5:20 PM</td>
<td>C6 (Outcomes Symposium) 1:30-3:00 PM 1.5 CE Credits P.71</td>
<td>C4 (Symposium: New Tech) 1:30-3:00 PM 1.5 CE Credits P.69</td>
<td>P3-5 (Pedorthic Education) 1:30-3:15 PM 1.75 CE Credits P.81-72</td>
<td>T2-3 (Technical Education) 1:30-3:00 PM 1.5 CE Credits P.67-71</td>
<td>C5 (Upper Limb Pros.) 1:30-3:00 PM 1.5 CE Credits P.69</td>
<td>B7 (DME Cert Taskforce) 1:30-2:30 PM 1.0 CE Credit P.68</td>
</tr>
<tr>
<td>2 PM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 PM</td>
<td>3:15-4:30 PM</td>
<td>C9 (Symposium: Gait Salvage) 3:15-4:30 PM 1.25 CE Credits P.75</td>
<td>C7 (Instructional Course) 3:15-4:30 PM 1.25 CE Credits P.74</td>
<td>P6-8 (Pedorthic Education) 3:30-5:30 PM 2 CE Credits P.76-78</td>
<td>T4 (Utilization of Carbon) 3:15-4:30 PM 1.25 CE Credits P.75</td>
<td>C8 (Prosthetic Management) 3:15-4:30 PM 1.25 CE Credits P.74</td>
<td>B8 (Best Business Practices and Documentation) 2:30-5:15 PM 2.75 CE Credits P.72</td>
</tr>
<tr>
<td>4 PM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 PM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6 PM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7 PM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**Centennial Celebration in Exhibit Hall**
5:00-6:30 PM P.80

**Party With a Purpose**
6:30-9:30 PM
1923 Bourbon Bar
P.80

*Ticket Required.*
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 AM – 6:00 PM</td>
<td><strong>Registration and Information Desk Open</strong></td>
<td>Mandalay Bay Foyer</td>
</tr>
<tr>
<td>7:00 AM</td>
<td><strong>Breakfast</strong></td>
<td>Mandalay Bay Oceanside D Foyer</td>
</tr>
<tr>
<td>7:15 – 9:00 AM</td>
<td><strong>Opening General Session</strong></td>
<td>Mandalay Bay Oceanside D</td>
</tr>
<tr>
<td>9:00 AM – 6:30 PM</td>
<td><strong>Exhibit Hall Open</strong></td>
<td>Shoreline Exhibit Hall</td>
</tr>
<tr>
<td>9:00 – 10:00 AM</td>
<td><strong>Professional Women of O&amp;P Celebrating Success Brunch</strong></td>
<td>Oceanside G</td>
</tr>
<tr>
<td></td>
<td>Women registering as full conference attendees for the 2017 World Congress are invited to join us for a special event for women at this year’s 2017 World Congress. AOPA’s 2017 World Congress Planning Committee has organized a program to offer all women working in the O&amp;P profession a casual networking brunch and the opportunity to learn from successful women in O&amp;P. <strong>Ticket is required.</strong></td>
<td></td>
</tr>
<tr>
<td>9:00 AM – 5:00 PM</td>
<td><strong>NCOPE Approved Clinical Mentor Course (ACM)</strong></td>
<td>Breakers G</td>
</tr>
<tr>
<td></td>
<td>All certified and/or licensed clinicians, residency directors, mentors or O&amp;P educators are welcome to attend. Advanced registration required; course manual and lunch shall be provided by NCOPE.</td>
<td></td>
</tr>
<tr>
<td>9:00 – 10:30 AM</td>
<td><strong>Break in Exhibit Hall</strong></td>
<td>Shoreline Exhibit Hall</td>
</tr>
<tr>
<td></td>
<td>• Take advantage of this time to compete in the Technical Fabrication Contest</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Meet with exhibitors</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• View and learn about new products and service offerings from around the world</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Participate in Product Preview Theater Presentations</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Network with attendees</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Enjoy the Walk Through Time—Historical Display</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Play the Giant Slot Machine</td>
<td></td>
</tr>
</tbody>
</table>
Managing the Diabetic Foot—An Update from Around the World (P1)
Mandalay Bay I

Guatemala—Luis Rodil, BOCPD
India—Rakesh Jain, CPO, LPO and Badarinath Athani, Masters Orthopedic Surgery
Netherlands—Klaas Postema, MD, PhD
Thailand—Gulapar Srisawasdi, MD, CPed
United States—Dennis Janisse, CPed

According to the International Diabetes Federation, in developed countries, one in every six people with diabetes will have an ulcer during their lifetime. In developing countries, foot problems related to diabetes are thought to be even more common. Diabetic foot problems account for up to 15% of healthcare resources in developed countries. It has been estimated that foot problems may account for as much as 40% of the total available resources. This session will provide you with an update on Diabetic Foot Management from your international colleagues.
10:30 AM – Noon  Compliance and Ethics (B6)
Mandalay Bay L

10:30 – 11:30 AM  Compliance and Ethics in Orthotics and Prosthetics (B6A)
Teri Kuffel, JD
This course explores ethical considerations and their relevance for orthotics
and prosthetics in a healthcare setting. Attendees will critically analyze
ethical concepts, which influence the development of healthcare policies
and regulations in the orthotic and prosthetic field.

11:30 AM – Noon  Healthcare Compliance and Ethics Week—Join us! (B6B)
Mitch Dobson, CPO, FAOPO
Joseph McTernan, Director of Reimbursement Services
and Education, AOPA
As part of our centennial celebration, AOPA is launching Healthcare Compli-
ance and Ethics Week in partnership with the Health Care Compliance
Association. If you want your patient care facility or O&P service to stand
out, then join this interesting conversation to learn the benefits of partici-
pating. You’ll leave with real life examples, tips, tools and resources to make
it easy to participate. Visit bit.ly/aopaethics for more information.

AOPA Celebrates Corporate
Compliance & Ethics Week
November 5–11, 2017

10:30 AM – Noon  Symposium: Future of Prosthetics: Analyzing the Tissue Socket
Interface (C1)
Oceanside D
Alexander Dickinson, MEng, PhD, CEng MIMechE
Hugh Herr, PhD
Peter Lee, PhD, BEng (Hon)
Ellankavi Ramasamy, MSc
Urs Schneider, MD, PhD
Join us for an interesting symposium as we discuss:
• A Quantitative Methodology For The Design And Fabrication Of
  Transtibial Sockets
• Simulating Lower Extremity Amputee Dynamics Using 3D Finite Element
  Simulations
• Limb Loading In BK Sockets: Simulated Soft Tissue Socket Interaction
• Pressure casting and residual limb/socket interaction.
10:30 AM – Noon  

**Future Tech: A Glimpse into Emerging Technologies (T1)**  
Mandalay Bay J

Steve Hill, BOCO

This presentation will discuss many of the emerging technologies today. While we will focus on the technologies specific to Orthotics and Prosthetics, an overview of many other new technologies will be discussed to encourage finding ways to employ them for the benefit of our practice and our patients. Topics such as stem cell therapy, 3D printing, amorphous metals, bioplastic, nanomaterials, and more will be discussed. Participants will gain an understanding of some of the newer and emerging technologies.

10:30 AM – 12:10 PM  

**Free Papers—Improving Outcomes for the Lower Limb Amputee (C2)**  
Mandalay Bay K

(The following sessions run consecutively within this program.)

10:30 – 10:38 AM  

**Comorbidities, Physical Function, and Daily Step Counts Among Adults with a Unilateral Transtibial Amputation who are Using a Prosthetic (C2A)**  
J. Megan Sions, PhD, DPT, PT

Outcome measures and step activity monitors are gaining increased popularity for objectively evaluating physical function and activity-level among adults using a prosthetic. Review relationships between objective data and comorbidities, challenging providers to consider medical history when interpreting such data.

10:40 – 10:48 AM  

**A Novel Auditory Biofeedback System for Improving Amputee Mobility in the Home and Community (C2B)**  
Vibhor Agrawal, PhD  
Robert Gailey, PhD

This presentation will describe a novel auditory biofeedback system for above-knee amputees. The sensors of this system can automatically identify common gait deviations and provide auditory and musical feedback to users. Results of a clinical study and the efficacy of this device will be discussed.

10:50 – 10:58 AM  

**Selection and Assessment of a Set of Outcome Measures for Electronically Controlled Knee Users (C2C)**  
Andrea Giovanni Cutti, PhD

Outcome measures are essential to evaluate the tailored rehabilitation program needed when fitting electronically controlled prosthetic knees. We have selected a group of instruments and tested their validity on a group of patients.
11:00 – 11:08 AM  📋 Survey on the Validity of the K-Level System and Utility of Clinical Outcome Measures in K-Level Assignment (C2D)
Dylan Borrenpohl, CPO
This presentation highlights relevant challenges faced by clinicians who care for patients with lower-limb loss when operating within the K-Level system of classification and reimbursement.

11:10 – 11:18 AM  📋 The Risk of Major Cardiovascular Events for Adults with Above Knee Amputations (C2E)
Benjamin Mundell, PhD
Rates and risk factors for major cardiac events for those with and without an above-knee amputation (AKA) were compared using longitudinal population-based data. Those with an AKA of dysvascular etiology were four times more likely to experience a cardiac event.

11:20 – 11:28 AM  📋 On the (Im)Possibility to Predict Who May Benefit from a Microprocessor Controlled Prosthetic Knee Component (C2F)
Andreas Hahn, PhD, MSc
We analyzed the extent of 60 clinically important factors to justify allocation or non-allocation of an advanced hydraulic microprocessor controlled exo-prosthetic knee component to prosthetic walkers.

11:30 – 11:38 AM  📋 Comparative Effectiveness of Microprocessor Controlled, Carbon Fiber Energy Storing, and Returning Prosthetic Feet in Persons with Unilateral Transtibial Amputation (C2G)
Brian Kaluf, BSE, CP
This effort represents the largest study of microprocessor-controlled prosthetic ankles and the results include clinically relevant outcome measures that matter most to patients, prosthetists, physicians and payers.

11:40 – 11:48 AM  📋 Does a Vacuum Assisted Suspension System Improve Elderly Transtibial Amputees Gait and Balance Close to Non-Amputee Scores? (C2H)
Beatriz Samitier, MD, PhD
This presentation will examine the improvement in gait capability and functional mobility of elderly trans-tibial dysvascular amputees using vacuum assisted suspension systems and analyze the differences compared to a non-amputee control group.

Andrea Giovanni Cutti, PhD
Han Houdijk, PhD
Increasing evidence exists that energy cost is only marginally effected by energy storage and return feet (ESAR). The question why amputees largely prefer ESAR, remains unexplained from the biomechanical standpoint. We hypothesize that an ESAR foot might enhance push off power and enhance the backward margin of stability allowing a more stable and symmetrical gait pattern.
| Noon – 12:08 PM | **Affects of Prosthetic Socket Suspension on Gait in Unilateral Transtibial Amputees (C2J)**  
Fan Gao, PhD  
Hear an overview of an investigation on the effects of prosthetic socket suspension including VASS, suction and locking-pin on gait characteristics in unilateral transtibial amputees. |
|---|---|
| 10:30 AM – Noon | **Symposium: Orthotic Management of Post Stroke Gait Dysfunction (C3)**  
Oceanside C  
Stefania Fatone, PhD, BPO (Hons)  
Jill Seale, PhD, PT  
This symposium will outline the most common gait deviations and causative impairments for the common gait patterns following stroke. The current state of orthotic utilization in stroke recovery will be described, along with challenges and barriers to orthotic use for stroke survivors. The symposium will focus on interventions to manage the swing phase clearance dysfunction (traditional and FES) and stance phase issues. Finally, the symposium will review the evidence on best device type, orthotic outcomes, and timing for orthotic intervention. |
| 11:30 AM – Noon | **Pre-Ulcer Stage: Diabetic Foot Screening and Evaluation (P2)**  
Mandalay Bay I  
Gulapar Srisawasdi, MD, CPed  
Foot ulcers and other lower-limb complications secondary to diabetes are common, complex, costly, and associated with increased morbidity and mortality. Strong evidence suggests that consistent provision of foot-care services and preventive care can reduce amputations among patients with diabetes. However, routine foot examination and rapid risk stratification is often difficult to incorporate into busy primary care settings. Data suggests that the diabetic foot is adequately evaluated only 12% to 20% of the time which is why it is important for all healthcare specialists to incorporate a stringent Diabetic Foot screening and evaluation as part of every patient encounter. |
| Noon – 1:00 PM | **Lunch and Learn: Exoskeletons and NeuroRehab—Where Are We Headed?**  
Oceanside E  
Kern Bhugra, MSEE  
Hugh Herr, PhD  
Larry Jasinski, MBA  
Join us for a lunch buffet and advanced level discussion on the indications for use (i.e. Stroke, MS, Parkinson’s, etc.); technology direction; price points and affordability; reimbursement potential; clinical trials; and home vs clinic. This session is designed for seasoned prosthetists. **Tickets are required and available through registration; limited space available.** |
Noon – 1:30 PM  **Lunch in Exhibit Hall**  
Shoreline Exhibit Hall

1:30 - 2:00 PM  **Pre-Ulcer Stage: Off-Loading for Ulcer Prevention (P3)**  
Mandalay Bay I  
Brian Lane, CPed  
Up to 50 percent of people with diabetes eventually lose sensation in their feet, which is sufficient for them to injure themselves unknowingly. It is vital to offload these areas but due to the patients’ inadequate sensation, they are unable to judge whether they have obtained pressure relief. We will discuss:  
• role of insole: off the shelf vs custom made  
• role of shoes: off the shelf vs custom made

1:30 – 2:15 PM  **Fabrication Methods Triple Action Ankle Joint (T2)**  
Mandalay Bay J  
Gary Bedard, CO  
The Triple Action ankle joint represents a new standard in lower extremity biomechanical control for the foot and ankle. There are unique features of this ankle joint design that contribute to the ease of fabrication into a custom orthosis. Video demonstrations will include disassembly and assembly of the component body. Graphic presentation will illustrate proper metal contouring procedures. A brief biomechanical review will also reveal the advanced biomechanical nature of the ankle joint. Online resources as well as tool and fabrication kit content will be presented.

1:30 – 2:30 PM  **DME CERT Outreach and Education Task Force: Prevalent O&P Errors (B7)**  
Mandalay Bay L  
Michael Hanna, Jurisdiction C  
Colleen Harryman, Jurisdiction D  
Stacie McMichel, Jurisdiction B  
Michelle Wullstein, Jurisdiction A  
The DME CERT Outreach and Education Task Force will provide an overview of the CERT process followed by an outline of the most prevalent errors within O&P criteria. The panel will then parallel those errors with Medicare’s requirements. There will be time for questions from the session attendees at the conclusion of the presentation.
1:30 – 3:00 PM  Symposium: New Technologies for Prosthetics and Orthotics (C4)  
Oceanside D  
Thor Besier, PhD  
Jannis Breuniger, MSc  
Andrew Hansen, PhD  
Michael Schaefer, CPO, Dipl.  
Urs Schneider, MD, PhD  
Technology options for improved treatment in orthotics and prosthetics will be presented. Panelists will share innovations on a new approach to smart sensing joint modules in orthotics; a new method to improve socket climate; digital manufacturing in the O&P clinic and 3D printed prosthetic feet—new approaches to functional components.

1:30 – 3:00 PM  Specializing in Upper Limb Prosthetics—A Free Paper Session (C5)  
Mandalay Bay K  
(The following sessions run consecutively within this program.)

1:30 – 1:38 PM  A Wireless Implantable Multichannel Myoelectric System for Prostheses Control (C5A)  
Daniel McDonnell, PhD  
The goal of this study is to validate an implantable myoelectric system to improve control of prostheses. Our objective is to provide simultaneous multi-degree of freedom prosthesis control, ultimately providing an intuitive control experience. In this study we demonstrate system performance in a chronic animal study.

1:40 – 1:48 PM  Differences in Southampton Hand Assessment Procedure Scores with and without the Use of Powered Partial-Hand Prostheses (C5B)  
Lynsay Whelan, MS, OTR/L  
This presentation will evaluate differences between Southampton Hand Assessment Procedure (SHAP) outcome measure scores and kinematic movements during functional tasks for individuals with partial hand limb loss with and without a myoelectric prosthesis.

1:50 – 1:58 PM  Control within a Virtual Environment is Correlated to Functional Outcomes when using a Physical Prosthesis (C5C)  
Levi Hargrove, PhD  
This session will show the outcome measures from a virtual environment and how they correlate strongly with physical performance when controlling a prosthesis.
2:00 – 2:08 PM  Performance and Satisfaction with Intuitive Multifunctional Hand Prosthesis Control (C5D)
Ivana Sreckovic, PhD
This study gathers feedback from certified prosthetists and users who had the possibility of testing a system with pattern recognition at home for four weeks. The improvements in unilateral gross manual dexterity and ability to control two degrees of freedom were observed during initial fitting and follow-up measurements.

2:10 – 2:18 PM  Adaptive Calibration for Enhanced Pattern Recognition Control For Upper-Limb Prostheses (C5E)
Nathan Brantly, Research Engineer, Coapt
Blair Lock, MSc, PEng
An adaptive calibration scheme is presented as alternative approach with the potential to improve prosthesis control and reduce the need for re-calibration.

2:20 – 2:28 PM  Factors that Influence Acceptance and Rejection of an Upper Limb Prosthesis (C5F)
Andreas Kannenberg, MD, PhD
Leveraging factors that influence rejection of UL prostheses could help improve acceptance, function and quality of life in persons with UL amputations. Based on the findings of our literature search, specific guidelines are proposed to improve prosthesis acceptance that focus on fitting as early as medically possible.

2:30 – 2:38 PM  Sixty Years of Active Prosthesis Use: A Self-Report Case Study with Recommendations (C5G)
Debra Latour, MEd, OTR/L
This presentation offers insight to the experiences of an individual over six decades of active and diverse prosthetic use and incorporates the compelling perspective of the individual as a consumer of prosthetic technology, clinician, and contributor to the population and the industry.

2:40 – 2:48 PM  The Clinical Application of Pattern Recognition Control in Upper Limb Prosthetics: A Two-Year Retrospective (C5H)
Chris Baschuk, MPO, CPO, LP, FAAOP
Pattern recognition control of externally powered prostheses has been commercially available for several years. Presented here is a series of case studies over the course of the past two years demonstrating the clinical success and challenges associated with utilizing this technology.

2:50 – 2:58 PM  Liners with Embedded Electrodes for Direct Control Prostheses (C5I)
Matthew Wernke, PhD
The RIC developed a liner with embedded electrodes. The evaluation of this device was with participants using pattern recognition control of their myoelectric devices. This work investigates the potential for the liner to work with direct control myoelectric prostheses.
1:30 – 3:00 PM  
**Symposium: Driving Improved Patient Care: Examples from Clinicians on Outcomes Use (C6)**  
Oceanside C  
Andrea Kinsinger, PT  
Matt Luetke, CPO  
Jim Rogers, CPO  
Shane Wurdeman, PhD, CP, FAAOP  
James Wynne, CPO  

There is growing pressure for the use of outcome measures in O&P. In the past few years audiences have been provided with education on the many different outcome measures available for use in O&P care as well as many presentations that highlight theoretical benefits of use of such outcomes in the clinic. This symposium will go the next step by providing real-life case studies from clinicians using outcomes, demonstrating benefits to the patient and improved processes for delivering better patient care.

2:00 – 2:30 PM  
**Ulcer Stage: Diabetic Management of the Foot Ulcer and Pedorthic Concern—What Physicians Want (P4)**  
Mandalay Bay I  
Gulapar Srisawasdi, MD, CPed  

For many surgeons, the main objective in an amputation procedure is to salvage as much functional limb that will heal; for a pedorthist, the goal is to preserve and restore the patient’s functional level. During this segment of the program, we will discuss:  
- post-partial foot amputation  
- proper level of amputation: does it matter for pedorthists?

2:15 – 3:00 PM  
**Good Manufacturing Practices for Technicians: Guidelines for Present and Future FDA requirements for Clinical Thermoforming (T3)**  
Mandalay Bay J  
Gary Bedard, CO  

The processing parameters of your lab may have been up to date ten years ago, the question for today is your lab compliant with industrial vacuum forming process guidelines and do those parameters satisfy FDA Good Manufacturing Practices. In this session learn how to establish the station pressure for your site elevation and review how to develop internal guidelines for Good Manufacturing Practice.
2:30 – 3:15 PM  🎓 Ulcer Stage: Insoles and Shoes for Partial Foot Amputation (P5)
Mandalay Bay I
Dennis Janisse, CPed
The partial foot amputation is the most common type of amputation in the United States and occurs nearly twice as frequently as either the transfemoral or transtibial amputations. This portion of the program will review traditional and non-traditional treatment options for partial foot amputations.

2:30 – 3:00 PM  🎓 A New Twist on Documentation (B8A)
Mandalay Bay L
Michael Hanna, Provider Relations Senior Analyst for CGS, DME MAC Jurisdiction C
Pam Lupo, CO
Keith Wilson, CPO
Michelle Wullstein, Jurisdiction A
The achievement of proper documentation to support reimbursement is no easy task. The responsibility of telling a patient’s story and clinical history, while meeting medical necessity documentation is demanding. It is often the wording or nuance of language that dictates success or failure. This interactive session will use real time audience polling through the AOPA 365 app as we review actual O&P documentation. This presentation will also tie in CERT error rate data and identify relevant and necessary specifications and details.

2:30 – 5:15 PM  🎓 Best Business Practices and Documentation (B8)
Mandalay Bay L
A full afternoon devoted to Best Business Practices will provide you with tools for better documentation, marketing, enhanced advocacy and managing electronic medical records. Also, learn about the newest benefit available to AOPA members.

3:00 – 3:30 PM  🎓 The Power of Social Media—Creating an Army of Online Healthcare Advocates to Grow Your Business (B8B)
Mandalay Bay L
Angel Giuffira, Strategy Communications Manager, Ottobock
Social media communities are a powerful tool for advocacy, yet the healthcare industry is behind the curve in recognizing their potential value for marketing. Learn how social media communities play an important role for individuals seeking healthcare solutions that seem out of reach. Discover the power of social media and the importance of creating an army of online advocates to help grow your business where success can be measured by increased engagement and patient actions.
3:30 – 4:00 PM  AMPLIFY: Using Traditional and Digital Methods to Enhance Advocacy (B8C)
Dan Ignaszewski, Director of Government Relations, Amputee Coalition
Karen Lundquist, MBC
Ashlie White, Project Manager, AOPA
The Amputee Coalition created the “AMPLIFY Your Voice” initiative with support of key industry partners to help address three issues:
• A lack of awareness
• Needed advocacy tools and educational support
• Policy creation
This presentation will discuss the strategic approaches to reaching new and current audiences and motivating them to take action individually and as a group.

4:00 – 4:30 PM  AOPA’s Take on Documentation and Best Business Practices (B8D)
Joseph McTernan, Director of Reimbursement Services and Education, AOPA
Obtaining and maintaining proper documentation is a vital element in the provision of medically appropriate prosthetic and orthotic care. Documentation creates a chronological timeline of the continuum of care that is necessary for members of the rehabilitation team to provide the best care possible for the patient. In addition, proper documentation is crucial to support claims for reimbursement as it establishes and defines the medical need for the services provided. This session will focus on the role of documentation in developing best practices for your O&P business. Highlights of the session will include how to get proper documentation before you provide a service, how to obtain additional documentation once the service is provided, and the importance of educating referral sources on the need for documentation and its content.

4:30 – 4:45 PM  The AOPA Co-Op: Right at Your Fingertips (B8E)
Ashlie White, Project Manager, AOPA
Learn about a new coding, reimbursement and policy resource tool available to AOPA members.

4:45 – 5:15 PM  Implementation of EMR—Catching up with the Rest of Healthcare to Communicate with Referral Sources (B8F)
Darren Donnelly, MBA, CO
The steps necessary in implementing a new EMR system include, planning, budgeting, setting a timeline, managing risk, stakeholder management, implementation and follow up. Other areas to focus on are dealing with logistics of changing and managing expectations. We will define some change management terms like, assigning a change agent, driving results and creating a team for success.
3:15 – 4:30 PM  **Instructional Course: Innovative Transfemoral Socket Design (C7)**  
Oceanside D  
Malte Bellmann, Dipl.-Ing  
Olaf Gawron, CPO  
Jason Kahle, MSMS, CPO, FAAOP  
Marlo Ortiz, CP(M)  
Michael Schaefer, CPO, Dipl.  

In prosthetics, few topics create greater controversy than the subject of functional socket design in above-knee prostheses. This instructional course will present the conditions and demands that need to be taken into consideration from a biomechanical point of view. Experienced clinicians and certified prosthetists will then present design possibilities for modern above-knee prosthetic sockets.

3:15 – 4:30 PM  **Prosthetic Management of the Lower Limb Amputee—A Free Paper Session (C8)**  
Mandalay Bay K  
(The following sessions run consecutively within this program.)

3:20 – 3:28 PM  **Gait Training Interventions for Lower Extremity Amputees (C8A)**  
M. Jason Highsmith, DPT, PhD, CP, FAAOP  
Gait training interventions for lower extremity amputees are not well studied. This systematic review evaluated over 10 years of literature revealing 18 articles covering two topical areas, including overground and treadmill-based gait training interventions.

3:30 – 3:38 PM  **Empowering Prosthesis Wearer’s Self-Management Abilities Through Mobile Technology: A Usability and Acceptability Study (C8B)**  
Daniel Lee, PT, DPT, GCS  
The most common reason individuals with limb loss consult their prosthetist is socket comfort. This study compares the usability and acceptability of an interactive self-management mobile app against that of the previously studied paper-based decision trees in adult lower limb prosthesis wearers.

3:40 – 3:48 PM  **Limb Volume Stability in Response to Socket Suspension (C8C)**  
Matthew Wernke, PhD  
Elevated vacuum suspension has previously been reported to better manage limb volume compared to other forms of suspension. This study investigates differences in limb volume changes due to suspension and activity.

3:50 – 3:58 PM  **A Case Study of a Hip Disarticulation Amputee Converting to a Transfemoral Amputee (C8D)**  
Burhan Dhar, CPO, MBA, CM  
Advanced amputation and prosthetic innovation leads to a good quality of life.
### 4:00 – 4:08 PM

**Development of an Active Cooling System for Improving Comfort and Residual Limb Skin Care (C8E)**

Todd Farrell, PhD  
Thane Hunt  
This presentation will describe efforts toward developing an active cooling mechanism to remove heat from within the socket in amputee subjects. Results from a survey of over 100 prosthetists regarding the prevalence of socket heat and perspiration issues will be presented.

### 4:10 – 4:18 PM

**A Comparison of Compression and Release Socket to Traditional Transfemoral Socket Designs: Results of the EMU Comparative Study (C8F)**

Tyler Klenow, MSOP, CPO, LPO, CPT  
Rapid advances are being made in the area of transfemoral socket design. One such advance is the Compression and Release Socket. Results of a university study comparing the CRS/HiFi socket to a traditional IC socket intervention using 3D motion analysis are presented.

### 4:20 – 4:28 PM

**Comparing Residuum-Socket Interface Pressure and Soft Tissue Deformations for Three Transtibial Trial Socket Designs (C8G)**

Joshua Steer, BEng  
This presentation shows the value of combining pressure sensor data with surface scanning and MR imaging to evaluate the link between pressure loading, socket rectifications and underlying anatomy.

### 3:15 – 4:30 PM

**Symposium: Gait Salvage: Mobility Matters (C9)**

Oceanside C  
Eric Burns, CPO  
Mallory Lemons, CPO  
Holly Olszewski, CPO  
A growing number of today’s amputees are a result of dysvascular disease most several comorbidities. These patients are often in declining health and mobility could be an answer for many of their health related issues. Research shows mobility is an indicator of future health wellness and future healthcare costs. Can orthotics and prosthetic intervention change the declining trajectory of these patient with a focus on Gait Salvage as a primary outcome measure?

### 3:15 – 4:30 PM

**Utilization of Carbon Infused Polypropylene in Pediatric Orthotics and Prosthetic Sockets (T4)**

Mandalay Bay J  
Jeff Newell  
Carbon infused polypropylene is a prepreg sheet composite that can immediately replace the generic sheet stock in your lab production. The exchange offers improvement in fabrication process parameters as well as clinical product benefits. The sheet composite is stiffer than homopolymer polypropylene, resists warpage, and clinical creep in field use. In this session, material as well as process fabrication parameters will be reviewed along with case examples of clinical application.
3:30 – 3:45 PM  📚 Ulcer Stage: Off-Loading For Foot Ulcers (P6)
Mandalay Bay I
Dennis Janisse, CPed
Review sample cases that provide new approaches to insole and shoe modification and useful ways to ensure that you are providing proper offloading. We will also review Plantar Pressure screening technology.

3:45 – 4:30 PM  📚 Biomechanics of Gait and the Influence of Pedorthics (P7)
Mandalay Bay I
Klaas Postema, MD, PhD
This presentation gives evidence about gait and the biomechanical changes due to shoe adaptations.

4:30 – 5:30 PM  📚 German Quality Standards of Prosthetic Fittings in Upper and Lower Limb Prosthetics (C10)
Oceanside D
Merkur Alimusaj, Dipl.-Ing, CPO
Olaf Gawron, CPO
Michael Schaefer, CPO, Dipl.
The session focuses on the recently published German compendiums, “Quality Standards in Upper Limb Prosthetics” and “Quality Standards in Lower Limb Prosthetics.”

4:30 – 5:30 PM  📚 Unique Considerations in Prosthetic Clinical Care—A Free Paper Session (C11)
Mandalay Bay K
(The following sessions run consecutively within this program.)

4:30 – 4:38 PM  📚 Evaluation of a Non-Fluid-Based Variable Cadence Controller (VCC) To Control Transfemoral Swing-Phase over a Range of Walking Speeds (C11A)
Jan Andrysek, PhD
Brandon Burke, BA
This presentation reviews the development of a non-fluid based swing-phase Variable Cadence Controller (VCC) for use in prosthetic knee joints. Findings indicate that the VCC is able to provide cadence responsive control over a broad range of walking speeds.

4:40 – 4:48 PM  📚 Which Functional Elements Stabilize the Residual Limb within Transfemoral Sockets in both Frontal and Sagittal Plane for Optimized Prosthetic Gait? (C11B)
Malte Bellmann, Dipl.-Ing
Review the findings of a novel study developed to objectify force transmission principles in three types of transfemoral sockets (CAT-CAM, MAS, subischial socket).
4:50 – 4:58 PM  Fluctuating Residual Limb Volume Accommodated with an Adjustable, Modular Socket Design: A Novel Case Report (C11C)  
Samer Moussa, CPO  
The case study presented will discuss the management of female CRPS with fluctuating residual limb volume using a modular, adjustable, transfemoral prosthetic socket.

5:00 – 5:08 PM  Cost-Effectiveness of Advanced Hydraulic Microprocessor Controlled Knee Protheses in Patients with Lower Limb Amputations (C11D)  
Andreas Hahn, PhD, MSc  
We report on the results of a health economic analysis investigating the impact of fall-related costs on the overall cost effectiveness of advanced hydraulic microprocessor controlled exo-prosthetic knee components. We stratify for subjects with vascular and non-vascular amputation etiology.

5:10 – 5:18 PM  Effects of Prosthetic Socket Suspension on Knee Proprioception and Dynamic Balance in Transtibial Amputees (C11E)  
Fan Gao, PhD  
This presentation will give an overview of an investigation of the effects of prosthetic socket suspension including VASS, suction, and locking-pin on knee proprioception and dynamic balance in unilateral transtibial amputees.

5:20 – 5:28 PM  Viability of Prescribing Increases in Physical Activity in Lower Limb Amputees (C11F)  
Georan Fiedler, PhD  
Emily Heskett, MSPO  
Amputees are known to display lower levels of daily physical activity compared to non-amputees, which is detrimental to their health. The aim of this study was to investigate to what extent people with lower limb loss adhere to the increases in physical activity as prescribed.

4:30 – 5:30 PM  Symposium: Implementing an Integrated Care Model into Your Practice (C12)  
Oceanside C  
Andrea Giovanni Cutti, PhD  
John Miguelez, CP, FAAOP(D)  
Paul Prusakowski, CPO  
Silvia Raschke, PhD  
Tiffany Ryan, MOT, OTR/L  
Michael Schaefer, CPO, Dipl.  
This session shows how different experts have implemented an integrated care model approach into their every-day clinical practice. A multi-disciplinary team works closely with the patient to create and implement a prosthetic/orthotic and rehabilitation program. This approach has proved to be effective both in lower/upper limb prosthetics and orthotics, creating excellent outcomes for patients while establishing a competitive advantage for the company.
**4:30 – 5:30 PM**  
**Pedorthics: Usability, Adherence, and Communication with Patients (P8)**  
Mandalay Bay I  
Klaas Postema, MD, PhD  
Patients’ acceptance and adherence with devices can be influenced by a clinician’s communication skills.

**4:30 – 5:30 PM**  
**Technician Update (T5)**  
Mandalay Bay J  
James Lawson, ABC  
Review the new language for technicians, certification and central fabrication accreditation.

**5:30 – 6:30 PM**  
**Centennial Celebration in Exhibit Hall**  
Shoreline Exhibit Hall  
Join conference participants in the exhibit hall, as we celebrate AOPA’s Centennial and 100 Years of the formalized O&P Profession with a Champagne Toast.

**6:30 – 9:30 PM**  
**Party With a Purpose**  
1923 Bourbon Bar (Mandalay Bay)  
Let’s celebrate 100 years of success—Las Vegas Style! Reserve your ticket for this elaborate 1920’s themed party at the 1923 Bourbon Bar—A Modern Speakeasy, immediately following the Centennial Celebration. Enjoy extensive, prohibition inspired cocktails, a delicious dinner, live entertainment and a cigar lounge. Since this event is a fundraiser for the O&P PAC, rules apply. **Tickets must be purchased at registration or at the AOPA Booth #100.**
# Thursday Exhibit Hall Happenings

<table>
<thead>
<tr>
<th>Time</th>
<th>Event Description</th>
<th>Sponsor</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 AM – 6:30 PM</td>
<td>Exhibit Hall Open</td>
<td></td>
</tr>
<tr>
<td>9:00 – 10:30 AM</td>
<td>Break in Exhibit Hall</td>
<td></td>
</tr>
<tr>
<td>9:10 – 9:40 AM</td>
<td>Introducing the Supro Wrist with i-limb Quantum Hand (PPT)</td>
<td>Össur Americas</td>
</tr>
<tr>
<td>9:50 – 10:20 AM</td>
<td>A Behind-the-Scenes Look at What’s Been Cooking in Allard’s R&amp;D Lab (PPT)</td>
<td>Allard USA</td>
</tr>
<tr>
<td>11:30 AM – Noon</td>
<td>Ottobock’s Unique Treatment for Osteoarthritis (PPT)</td>
<td>Ottobock</td>
</tr>
<tr>
<td>Noon – 1:30 PM</td>
<td>Lunch in Exhibit Hall</td>
<td></td>
</tr>
<tr>
<td>12:10 – 12:40 PM</td>
<td>Driving Outcomes for Lower Mobility (PPT)</td>
<td>Ottobock</td>
</tr>
<tr>
<td>12:50 – 1:20 PM</td>
<td>Data in O&amp;P (PPT)</td>
<td>OPIE Software</td>
</tr>
<tr>
<td>1:30 – 2:00 PM</td>
<td>Functional Solutions for Finger Amputees: Understanding Prevalence, Challenges, Impairment and Solutions (PPT)</td>
<td>Naked Prosthetics</td>
</tr>
<tr>
<td>2:10 – 2:40 PM</td>
<td>Pro-Flex Family of Feet (PPT)</td>
<td>Össur Americas</td>
</tr>
<tr>
<td>2:50 – 3:20 PM</td>
<td>AK Multi Sport Solutions featuring the Easy Ride Knee by Proteor (PPT)</td>
<td>Nabtesco &amp; Proteor in USA</td>
</tr>
<tr>
<td>3:30 – 4:00 PM</td>
<td>What’s New at Freedom Innovations (PPT)</td>
<td>Freedom Innovations</td>
</tr>
<tr>
<td>4:10 – 4:40 PM</td>
<td>Össur Miami LSO &amp; Rebound Post-Op Brace (PPT)</td>
<td>Össur Americas</td>
</tr>
</tbody>
</table>
4:50 – 5:20 PM  **A Technical Overview of College Park/Liberating Technologies Expanding Lower and Upper Limb Product Line (PPT)**
Sponsor: College Park Industries

5:30 – 6:30 PM  **Centennial Celebration**
Shoreline Exhibit Hall
Join conference participants in the exhibit hall, as we celebrate AOPA’s Centennial and 100 Years of the formalized O&P Profession with a Champagne Toast.

6:30 – 9:30 PM  **Party With a Purpose**
1923 Bourbon Bar (Mandalay Bay)

---

**Let’s celebrate 100 years of success—Las Vegas style!**
Reserve your ticket for this elaborate 1920’s themed party at the 1923 Bourbon Bar—A Modern Speakeasy, immediately following the Centennial Celebration. Enjoy prohibition inspired cocktails, a delicious dinner, live entertainment, a silent auction, a private cigar lounge, and much more. Since this event is a fundraiser for the O&P PAC, rules apply. **Tickets must be purchased separately but can be reserved in advance at AOPA Booth #100.** Space is limited and the event will sell out.

Entertainment provided by the Moonshiners
Download the app by either scanning the QR code or by searching the keyword AOPA365 in the Apple or Google stores.

DOWNLOAD the “AOPA 365” App on your iPhone, Android or iPad to:

• Get up-to-date information regarding the World Congress
• Easily view the agenda and set up your own personal schedule
• Interact with colleagues
• Share photos and comments
• Search for speakers and specific topics
• Navigate the Exhibit Hall
• Review speaker bios
• And then use AOPA365 all year long to read the O&P Almanac, stay on top of hot issues, contact AOPA staff, and much more.

Simply go to the app store and search AOPA365 or utilize the QR code above. Visit www.AOPAnet.org.
Considered the blue ribbon of accreditation, BOC equips your business with nationally recognized, in-demand credentials that ensure compliance with CMS. Plus, BOC’s award-winning staff will support you with one-on-one guidance throughout our streamlined accreditation process.

Visit us at booth #1336 at the AOPA World Congress and switch to BOC today!

We’re with you every step of the way.
It’s our promise. Every patient. Every facility. Every day.™
### PROGRAM AT-A-GLANCE

Registration is open from 7:00 AM- 5:00 PM, Mandalay Bay Foyer.

<table>
<thead>
<tr>
<th>Time</th>
<th>Exhibit Hall</th>
<th>Oceanside C</th>
<th>Oceanside D</th>
<th>Mandalay Bay I</th>
<th>Mandalay Bay J</th>
<th>Mandalay Bay K</th>
<th>Mandalay Bay L</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 AM</td>
<td></td>
<td></td>
<td></td>
<td>Breakfast 7 AM</td>
<td>General Session</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>RAND Study 7:15-8:00 AM P42</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8 AM</td>
<td></td>
<td></td>
<td>C13</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Thranhardt Pres.</td>
<td>8:00-9:00 AM 1.0 CE Credit P62</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9 AM</td>
<td>Exhibit Hall Open</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>9:00-6:30 PM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Break</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>9:00-10:30 AM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10 AM</td>
<td>Tech Fab Contest</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>9:00-10:30 AM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11 AM</td>
<td>Product Preview Theaters (PPT)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>9:00-10:30 AM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Noon</td>
<td>Noon-1:30 PM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 PM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>C16</td>
<td>C14</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Polio Symposium 10:30 AM Noon 1.5 CE Credits P96</td>
<td>Prosthetic Symposium 10:30 AM Noon 1.5 CE Credits P83</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 PM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lunch</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Noon-1:30 PM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Break</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3:15-4:30 PM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 PM</td>
<td></td>
<td>C20</td>
<td>C18</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Symposium: Pediatric 1:30-3:00 PM 1.5 CE Credits P90</td>
<td>Osteointegration 1:30-3:00 PM 1.5 CE Credits P89</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 PM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lunch</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Noon-1:30 PM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 PM</td>
<td></td>
<td>T6</td>
<td>T7</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3D Printing in O&amp;P 10:30 AM-Noon 1.5 CE Credits P96</td>
<td>3D Printing in O&amp;P 10:30 AM-Noon 1.5 CE Credits P96</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6 PM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Exhibitor Sponsored Happy Hour in Exhibit Hall</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>5:30-6:30 PM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7 PM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Lunch in the Exhibit Hall*  
Noon-1:30 PM  
Lunch & Learn: The Diabetic Foot in Remission, Dr. David Armstrong*  
12:15-1:30 PM, P87, 1.0 CE Credit

*Ticket Required.
7:00 AM – 5:00 PM  Registration and Information Desk Open  
Mandalay Bay Foyer

7:00 AM  Breakfast  
Mandalay Bay Oceanside D Foyer

7:15 – 9:00 AM  General Session  
Oceanside D

7:15 – 7:40 AM  AOPA Election Results and Awards Ceremony  
Oceanside D

7:40 – 8:00 AM  RAND Study  
Oceanside D  
Soeren Mattke, PhD  
Learn about the new economic simulation study to both establish and project the value of O&P services over the long term. The RAND Corporation, one of the most highly regarded research firms in the world, was engaged to conduct this study.

8:00 – 9:00 AM  Award Winning Thranhardt Presentations (C13)  
Oceanside D  
Hear the four best abstracts submitted for presentation at the “Best of Show” awardwinning Thranhardt Lecture Series. Launched by a gift from J.E. Hanger in memory of Howard R. Thranhardt, CP, the series recognizes individuals committed to advancing O&P education and research. Winners of the Thranhardt Lecture receive an award of $500 each. (The following sessions run consecutively within this program.)

8:05 – 8:15 AM  Introducing the Prosthetic Homologue for Embodiment (C13A)  
Michael Wininger, PhD  
We will introduce the concept of the prosthetic homologue: Not just a prosthesis that looks “life-like,” but one that “looks like me.” We present the first formal scientific inquiry into whether the homologue is truly necessary in order to achieve embodiment.

8:20 – 8:30 AM  Reference Values for Temporal Gait and Loading Symmetry of Lower-Limb Amputees can Help in Refocusing Rehabilitation Targets (C13B)  
Andrea Giovanni Cutti, PhD  
Gennaro Verni, MEng  
Are there typical values for temporal gait symmetry and loading of lower-knee amputees? Is it always true that amputees tend to overload the sound side? This study on 63 patients will provide you with some quantitative data to support your decision making.
8:35 – 8:45 AM 📚 Do Foot Orthoses Work? Outcomes from a Multi-Clinic Study of 6,658 Pedorthic Patient Visits (C13C)
Michael Ryan, PhD, CPed
This study reports on the effectiveness and comfort outcomes in 6,658 patients seen in 9 pedorthic clinics in Vancouver, Canada. The outcomes from this analysis offer important insights into the clinical effectiveness of custom foot orthoses for lower extremity injuries on a large-scale sample. There is also good support from this study on the overall usage and perceived comfort of custom foot orthoses.

8:50 – 9:00 AM 📚 The Micro-Processor Controlled Orthosis: What is the Impact to the User Versus the Stance Control Orthosis and Conventional Locked KAFO? (C13D)
Shenan Hoppe-Ludwig, CPO
We will evaluate the potential of a microprocessor controlled orthosis (MPO) to improve the functional mobility and quality of life in individuals with lower extremity impairments as compared to the SCO and conventional KAFO.

9:00 AM – 6:30 PM Exhibit Hall Open
Shoreline Exhibit Hall

9:00 – 10:30 AM Break in Exhibit Hall
Shoreline Exhibit Hall

10:30 AM – Noon 🏛️ Symposium: Power in Prosthetics (C14)
Oceanside D
Hans Dietl, PhD
Alena Grabowski, PhD
Levi Hargrove, PhD
Kenton Kaufman, PhD, PE
David Moser, PhD
Jeff Ward, PhD
Jason Wilkin, PhD, MPT
Saeed Zahedi, PhD
Learn the status of science in the area of power in prosthetics. We will discuss the current industrial experiences, and user evidences of the benefit of this advance in technology.
• Welcome and introduction to our 3rd joint symposium
• Industry vision for 2020
• Two different pathways to apply power
• User experience and requirements
• Underlying science of biomechanical need
• Research findings to date
• Chicago Rehab Institute research
• Spring Active/Ossur experience
• Biom/Ottobock experience
10:30 – 12:10 AM  Improving Function for the Orthotic Patient—A Free Paper Session (C15)
Mandalay Bay K
(The following sessions run consecutively within this program.)

10:30 – 10:38 AM  Improvement in Functional Elbow Movement with a Myoelectric Orthotic Device: A Novel Application of a Post-CVA Assistive Rehabilitation Orthotic Device (C15A)
Vahe Fahрядyan, MD
Brachial plexus injuries are devastating and can lead to permanent loss of upper extremity function. This presentation will introduce new treatment modalities for the patients with poor functional outcome following brachial plexus reconstruction.

David Coleman, CPO
A case series following 3 brachial plexus injury patients after one year using the MyoPro externally powered EWHO will be examined. An evaluation of outcomes in active range of motion, manual muscle testing, functional task ability, and quality of life, will be explored.

10:50 – 10:58 AM  Functional Utility of Wearing a Myoelectric Upper Extremity Orthosis in Chronic Stroke Survivors with Moderate Hemiparesis (C15C)
Lauren Wengerd, MS, OTR/L
This work investigates the clinical utility of wearing an upper extremity myoelectric orthosis to maximize function in individuals with hemiparesis post-stroke. Results of this study, clinical implications, and future directions in the field of myoelectric orthoses will be discussed.

11:00 – 11:08 AM  Economic Impact of Brace Use to Treat Adolescent Idiopathic Scoliosis on Total Charges in the United States (C15D)
Sean Zeller, MBA, MSPO, CPO
This presentation outlines a model for discussion of the potential economic impact of bracing relative to surgical management. This discussion is critical to decision making and to future efforts to improve care.

11:10 – 11:18 AM  Asymmetric CAD/CAM Bracing for Idiopathic Scoliosis ≥ 40 Degrees (C15E)
Ken Mandler, CO, LO
Marc Moramarco, DC
We will discuss 3D asymmetric bracing for moderate and severe idiopathic scoliosis at the later stages of skeletal maturity. We will present the initial in-brace corrections (short-term result) of a cohort of 28 patients.
11:20 – 11:28 AM  
**Effect of Sacroiliac Belt on Activity Pattern of Lumbopelvic Muscles in Patient in with Unilateral Sacroiliac Joint Instability in Different Loading Conditions (C15F)**

Sarvenaz Karimi  
We assessed the effect of the sacroiliac belt on lumbopelvic muscles in a patient with sacroiliac joint instability in different loading conditions. The belt decreased muscle activity and muscle activity could have been replaced by the belt.

11:30 – 11:38 AM  
**Cranial Remolding Orthosis Quality Management in Patients with Brachycephaly and Plagiocephaly (C15G)**

Julie McCulley, MPO, MS, ATC/L  
To establish the best practices in the monitoring of patient outcomes, utilizing cranial remodeling orthoses, standardized recording and reporting of CVAI and CR within the patient EMR were adopted. This allowed Continuous Quality Improvement (CQI) efforts with CRO and benchmarking against published data.

11:40 – 11:48 AM  
**Functional Bracing for Treatment of Pediatric Diaphyseal Femoral Fractures: An Alternative to Spica Casting? (C15H)**

David Speers, CPO/L  
This study looks at femoral fracture bracing as a viable option for treating pediatric diaphyseal femur fractures which currently are being treated with a hip spica cast. This technique has been used successfully for the past 7 years at the pediatric orthopedic hospital that the author works with.

11:50 – 11:58 AM  
**Maintaining Upright Posture: Balancing Moments and Preventing Falls (C15I)**

J. Kim Ross, DC, PhD  
Understanding the mechanisms utilized in maintaining upright stance is essential in the prevention of falls. As the baby-boomer population is aging, clinicians need to be aware of interventions which may minimize the likelihood of a fall and the negative sequelae that can occur.

Noon – 12:08 PM  
**Relative Influence of Orthotic Support Features within an Open Frame AFO vs. a Total Contact AFO on Function, Endurance, and Activity Level in Patients with Spastic Equinovarus Secondary to Chronic Stroke (C15J)**

Beatrice Janka, MPO, CPO  
Traditionally, total contact orthoses are recommended to provide the highest level of support for the postural deficits associated with neuromuscular conditions. Alternatively, open frame orthotic designs are sometimes used, offering a variety of benefits. The focus of this pilot study was to determine the relative influence of the orthotic support of open frame versus total contact AFOs on function, endurance, and activity level in subjects with spastic equinovarus secondary to chronic stroke.
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
<th>Speakers</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:30 AM – Noon</td>
<td>Symposium: World Perspectives on Polio &amp; PPS Management (C16)</td>
<td>Oceanside C</td>
<td>Gorden Jackman, BSc. MA, 1st Dip Ed.</td>
<td>This course will educate orthotists on traditional and advanced methods of improving the lives of mild to severe cases of polio. Orthotic care is the most important treatment factor to improve the quality of life for a polio survivor.</td>
</tr>
<tr>
<td></td>
<td>Symposium: Current Strategies for Managing Charcot-Marie Tooth (CMT) Disease (C17/P9)</td>
<td>Mandalay Bay I</td>
<td>David Cooney, PT, CPO</td>
<td>CMT is the most commonly inherited disorder of the peripheral nervous system affecting 1 in 2,500 people, 2.8 million worldwide and 150,000 in the USA.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Kenneth Cornell, CO</td>
<td>Studies reveal most patients report a poor experience with orthotic/pedorthic management.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Marmaduke Loke, CPO</td>
<td>This symposium will describe the pathology of the disease, mechanism of deformity, physical deficits and associated gait impairments.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>David Misener, BSc (HK), CPO, MBA</td>
<td>The panel will present current orthotic and pedorthic strategies and advance triplanar management.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Glenn B. Pfeffer, MD</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cyber Security... IS IT SAFE? Be Prepared!! (B9)</td>
<td>Mandalay Bay L</td>
<td>Dan Nelson, Certified Ethical Hacker</td>
<td>When it comes to information privacy and data security, preparedness is paramount. Learn common, and even unexpected threats, how to prepare for and how to respond following a breach, and potential liability.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Partner and Co-Chair, Data Security and Privacy Practice Group - Armstrong Teasdale</td>
<td>Analyze the dangers posed specifically to healthcare providers, particularly as it relates to privacy laws enacted by HIPAA. The sensitive nature of healthcare information makes it particularly vulnerable to ransomware and email phishing attacks, extortion, finance, and healthcare-related identity theft.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Jeffrey Schultz, Partner and Co-Chair, Data Security and Privacy Practice Group - Armstrong Teasdale</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Becky Snell, Director IT, Dankmeyer O&amp;P</td>
<td></td>
</tr>
</tbody>
</table>
10:30 AM – Noon

**3D Printing in O&P: Foundations (T6)**
Mandalay Bay J

Rick E. Sevier, BOCO, CPED, CPOA

The objective of this session is to provide the learner an overview of 3D printing in the O&P workplace utilizing low cost tools. Topics will include an overview of the 3D printing process, components, materials, design software options and current protocols.

noon – 1:30 PM

**Lunch in Exhibit Hall**
Shoreline Exhibit Hall

12:15 – 1:30 PM

**Lunch and Learn: The Diabetic Foot in Remission: Strategies to Make Prevention Pay**
Oceanside E

David Armstrong, DPM, MD, PhD

Join fellow practitioners who share your passion for treating the diabetic foot at this lunch and learn program. Because neuroischemic complications are associated with a high rate of recurrence, we propose a slight shift in the mechanism by which we counsel and communicate risk daily with our patients. If the epidemiology of this problem is comparable with that of cancer, and recurrences are common, then perhaps language commensurate with such risks should follow. After initial healing of an index wound, our unit now refers patients not as being cured but rather as being “in remission.” This concept is easy for the patient and the rest of the team to understand. We believe that it powerfully connotes the necessity for frequent follow-up and rapid intervention for inevitable minor and sometimes major complications. This program will review tried and true as well as up-to-the minute advances in mechanics, medicine and surgery that are “pushing the envelope” in extending ulcer-free and hospital-free days in our efforts to make prevention pay. Tickets are available through registration; limited space available.

1:30 – 3:00 PM

**3D Printing in O&P: Fabrication Workshop (T7)**
Mandalay Bay J

Rick E. Sevier, BOCO, CPed, CPOA

The objective of this session is to provide the learner with real-time experience with scanning, design and 3D printing in the O&P workplace utilizing low cost tools. Topics will include a prosthetic socket scan, design and print project demonstrated by the instructor, while learners will be encouraged print a small orthotic project to keep, on provided printers.
1:30 – 3:00 PM | Advancements in Osseointegration Technology for Amputees (C18)

Munjed Al Muderis, MB, ChB, FRACS, FAOthA
Rickard Branemark, MD, PhD
Jonathan A. Forsberg, MD, PhD
Erik Kubiak, MD
Richard McGough, MD
Rosanna Wustrack, MD

Stay abreast of the latest news, research and advancements in osseointegration for prosthetic users of all types. Our panel will provide you the latest research from around the world including the research being conducted at Walter Reed National Military Medical Center.

1:30 – 3:10 PM | New Considerations in Lower Limb Orthotic Management—A Free Papers Session (C19)

Mandalay Bay K
(The following sessions run consecutively within this program.)

1:30 – 1:38 PM | The Variable Resistance Orthotic Knee (C19A)

Edward Lemaire, PhD

New components for a microprocessor-controlled, variable resistance orthotic knee joint were designed for novel 3D printing technology to achieve 14.7% lighter and 18.2% shorter components, with no increase in profile thickness. Mechanical testing proved that the new design can resist 4500N loads applied to the hydraulic system.

1:40 – 1:48 PM | Safety and Effectiveness Results from the C-Brace Retrospective Registry (C19B)

Russ Lundstrom, MS

A retrospective registry was developed to gather outcome data from patients fitted with a C-Brace®, a microprocessor-controlled stance and swing controlled orthosis. Safety results reveal a potential for a dramatic reduction in falls. Effectiveness results showed a clinically meaningful increase in walking speed and patient-perceived balance confidence and significant improvements in the ease of performing activities of daily living, particularly those related to mobility.

1:50 – 1:58 PM | Development of a Bench Testing Procedure in Quantifying the Mechanical Properties of Ankle-Foot Orthoses in Additive Manufacturing (C19C)

Tsurayuki Murakami, BSc (Hons)

With the absence of strong evidence in the mechanical properties of AFOs in additive manufacturing, this presentation advocates for a robust mechanical testing procedure to ensure the safe use of additive manufacturing devices among users. This presentation also provides insight on how the mechanical properties of a polycarbonate AFO fabricated from fused deposition modeling compares to a conventionally fabricated polypropylene AFO.
2:00 – 2:08 PM  **Additional Weight Added to Ankle Foot Orthoses Could Increase Coordination of Gait in Pediatric Patients (C19D)**
Marlies Cabell, CPO
Temrah Okonski, PT
This case series introduces the concept of incorporating additional weight to pediatric AFOs intentionally to increase proprioceptive feedback and enhance motor coordination for gait.

2:10 – 2:18 PM  **Case Study: Gait Analyses of Tuning AFOFC for an Adult with Ankle Plantarflexed Contracture (C19E)**
Paul Huhta, MSOP
Sun Hae Jang, MSc, CO, FAAOP
This case study focuses on a subject presenting with a plantar-flexed ankle contracture, and analyzing gait changes with a solid AFO aligned to different shank-to-vertical angles (SVA) and shoe modifications per Elaine Owen’s clinical algorithm for tuning AFOs with fixed contractures. The Edinburgh Visual Gait Score and Step Length were used to measure outcomes.

2:20 – 2:28 PM  **Choosing the Optimal Passive-Dynamic Ankle Foot Orthosis for your Patient (C19F)**
David Knapp, CPO
This is a guide to the selection criteria needed to choose a passive-dynamic AFO for your patient. The course spans patient evaluation, matching patient goals to the biomechanical goals, and designing a device to reach those goals.

2:30 – 2:38 PM  **Challenging Current Practices and Beliefs in Using AFOs for Pediatric Patients with Cerebral Palsy (C19G)**
Curt Bertram, CPO, FAAOP
For years pediatric patients diagnosed with cerebral palsy have been managed with standards of practice and beliefs that are now being challenged by new paradigms and research. This article will address these existing beliefs of current practice and the new paradigms that have begun to challenge them as myths.

2:40 – 2:48 PM  **Prevalence of Flat Foot/Pes Planus among School Children between 6 – 10 Years Old (C19H)**
Mansoor Ali, CPO
Muhammad Sajid, CPO
An analyses of 714 children concluded that the prevalence of flat foot in school children, ages 6-10, is 14.8% and is also more common in male children with a bilateral incidence of 76.4%.
2:50 – 2:58 PM  
**A Flexible AFO: Contradiction to Traditional Thought? (C19I)**

Suzanne Giuffre, PT, EdD

Traditionally, the use of rigid thermoplastics and thermoset materials is the standard when fabricating an AFO. The preliminary results of this study support the use of a more flexible thermoplastic AFO. Benefits include increased walking ability, improved balance and client satisfaction without negative changes in ROM, strength or spasticity.

3:00 – 3:08 PM  
**Case Study: Gait and Functional Analysis of Three Carbon Fiber Ankle Foot Orthoses (AFOs) and Their Effectiveness Addressing Drop Foot (C19J)**

Maria DeShaw, MSOP  
Sun Hae Jang, MSc, CO, FAAOP

In this study, three carbon fiber AFOs were analyzed and included a posterior leaf spring, a lateral or medial strut with posterior cuff, and an anterior toe off. The participant performed a modified Emory Functional Ambulation Profile (mEFAP) and video recording was used for the Edinburgh visual gait score.

1:30 – 3:00 PM  
**Symposium: Pediatric LE Orthotic Gait and Functional Design, Tuning and Alignment (C20)**

Oceanside C  
Bryan Malas, MHPE, CO  
Klaas Postema, MD, PhD

We will review the biomechanics of gait that are needed to understand the indications and function of an AFO. Learn the importance of a proper tibial inclination and assess different gait characteristics in children with various diagnoses and how to choose the proper AFO. Review the concept of tuning, alignment and design that have applications across multiple pathologies including CP.

1:30 – 4:30 PM  
**Focus on Technology (P10)**

Mandalay Bay I

Learn about the latest technology in pedorthic care, including scanning, CAD/CAM and 3-D printing.

1:30 – 1:50 PM  
**Comparison of 3 Casting Methods for Custom Foot Orthoses (P10A)**

Jinsup Song, DPM, PhD

Authors compared three casting methods used in fabrication of custom foot orthoses (CFOs) in 24 healthy asymptomatic subjects with flatfoot. Performance of each CFO was assessed by in-shoe plantar pressure and shoe comfort in a standardized shoe following one-month of wear. The presentation will discuss how newer techniques (3D laser scanner and new weight bearing corrected casting) compare to CFO’s made from the traditional plaster of Paris cast.

1:50 – 4:30 PM  
**Technology and Pedorthic Care (P10B)**

Jeremy Janisse, CPed

Receive an overview on the advancements in technology that every pedorthists needs to recognize to provide innovative care.
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
</table>
| 1:30 – 5:00 PM | **Triple Aim (B10)**<br>Mandalay Bay L<br>  
This series of programming is provided to create awareness and understanding of the Triple Aim of Healthcare and discuss the opportunities and challenges it poses to O&P. |
| 1:30 – 1:45 PM | **What is the Triple Aim? An Overview and Definition of the Triple Aim (B10A)**<br>Eileen Levis, President and CEO, Orthologix<br>Receive an overview and definition of the Triple Aim concept, how it originated and how it has evolved. Hear an introduction to integrated care as a way to deliver the Triple Aim. |
| 1:45 – 2:30 PM | **Complete Care—Succeeding with Alternative Payment Models that may Effect O&P (B10B)**<br>Mark Froimson, MD, MBA, Twenty-Seventh President, American Association of Hip and Knee Surgeons<br>A review of the different payment models that may be applied to O&P. The Health Care Payment Learning & Action Network (HCLAN) was created to drive alignment in payment approaches across the public and private sectors of the U.S. healthcare system. Learn how alternative payment models, including how episode of care payments may impact O&P. |
| 2:30 – 3:15 PM | **Quality at Kaiser (B10C)**<br>Andrew Amster, Director, Department of Care and Service Quality<br>Jonathan Van Etten, Executive Director, National Provider Contracting & Network Management at Kaiser Foundation Health Plan<br>Insights into the Total Quality Approach at Kaiser Permanente, how it is measured and how it is applied to O&P providers. |
| 3:15 – 4:00 PM | **How Measuring Satisfaction Can Change Behavior (B10D)**<br>Sandy Rogers, Customer Loyalty Practice Leader, Franklin Covey<br>Learn new methods for measuring patient satisfaction and how to use those measurements to drive the behavior you want in the delivery of care. |
| 4:00 – 4:30 PM | **How Could Triple Aim Impact the Scope of Practice of the O&P Clinician—Threat or Opportunity? (B10E)**<br>Frank Bostock, CO, FAAOP<br>With the rise of integrated care models, what are the potential impacts on the scope of practice? |
| 4:30 – 5:00 PM | **Panel Discussion (B10F)**<br>Improving patient-care experience<br>Improving population’s health<br>Reducing per capita health-care costs |
Symposium: Predicting Walking Ability Following Lower Limb Amputation (C21A)
Oceanside D
Jason Kahle, MSMS, CPO, FAAOP
Jason Highsmith, PhD, DPT, CP, FAAOP
Kenton Kaufman, PhD, PE
Hans Schaepper, PhD (c), MS Div, CPO, Department Chair, Loma Linda University

In today’s Healthcare climate, it is crucial to understand the evidence available to determine which characteristics prevent walking candidacy and prosthetic fitting criteria. There are many characteristics such as age, level, etiology, cognitive ability and pre-amputation characteristics which have been identified, and are backed by evidence to form population conclusions. This presentation will help provide the US and international prosthetic professional an understanding of evidence support regarding provision of prosthetic care, for all viable amputee candidates. The purpose of this symposium is to educate the clinician regarding existing high quality evidence to support prosthetic candidacy.

Technology Transfer Session (C22)
Oceanside E

Join inventors and researchers from educational, clinical and manufacturing sectors, both within and outside of our industry, to present their ideas to an audience of manufacturing and clinical representatives, along with investors and venture capitalists from outside our industry. Review state of the art ideas, processes, designs and products about to be commercialized. A one hour networking wine-and-cheese reception will be held for inventors and investors to network following the presentation.

3D Printing in O&P: Materials, Machines and Methods Discussion (T8)
Mandalay Bay J

Rick E. Sevier, BOCO, CPed, CPOA

The objective of this session is to provide a synergistic discussion regarding the efficacy of 3D printing technology in the O&P workplace. Topics will include materials, 3D printing hardware, software options and scanners. Discussion will focus on what works and what doesn’t. Audience participation is not only welcomed, but encouraged.
Stop by to see what’s new in Orthotics, Prosthetics, Tools, and Equipment. Live demos of the Trautman Tech Station available throughout the show.

Visit Booth 1115

www.fillauer.com
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>4:30 – 5:00 PM</td>
<td><strong>A Deeper Look into Full-Contact BK Sockets via a Comprehensive Fluid Control System (C21B)</strong>&lt;br&gt;Oceanside D&lt;br&gt;Van Phillips, Inventor&lt;br&gt;Learn about a comprehensive, full-contact fluid control system for below-knee sockets.</td>
</tr>
<tr>
<td>4:30 – 5:30 PM</td>
<td><strong>Poster Sessions</strong>&lt;br&gt;Oceanside Foyer&lt;br&gt;Research posters will be on display throughout the day Thursday and Friday. The Congress has this dedicated hour for you to meet with researchers and learn more about their presentation while enjoying a glass of wine. See page 73 for more details.</td>
</tr>
<tr>
<td>4:30 – 5:30 PM</td>
<td><strong>3D Printing Roundtable Discussion (T9)</strong>&lt;br&gt;Mandalay Bay J&lt;br&gt;Rick E. Sevier, BOCO, CPed, CPOA&lt;br&gt;Tyler Dunham, CPO&lt;br&gt;Jeff Huber&lt;br&gt;Dennis Janisse, CPed&lt;br&gt;Dom Parise&lt;br&gt;Garret Spiegel&lt;br&gt;The round table will address topics, such as, printing for technicians, 3D printing and pedorthic relationship, material science and printer costs, etc.</td>
</tr>
<tr>
<td>5:30 – 6:30 PM</td>
<td><strong>Exhibitor Sponsored Happy Hour in Exhibit Hall</strong>&lt;br&gt;Shoreline Exhibit Hall&lt;br&gt;What better way of wrapping up a full day of learning than spending an hour in the exhibit hall enjoying refreshments and networking with your colleagues and exhibitors. The Happy Hour is hosted by exhibitors. A list of sponsors will be provided onsite and included in the Mobile App.</td>
</tr>
</tbody>
</table>
Even as a trained practitioner, I found the examples very interesting and professionally done.

– Richard F., CPO

Practical education for exceptional care

We offer free ABC-approved online courses. Visit our website and check out the Cascade Dafo Institute, our education hub, to find out more.

Take all our free online courses and earn up to 11 credits!

On-demand Education  Cascade Glossary  Cascade Library  Inservice Support Materials  Video Consultations

Stop by and see what's new | AOPA Booth #644

cascadedafo.com

Helping Kids lead healthier, happier lives

1360 Sunset Avenue, Ferndale, WA 98248  |  ph: 800.848.7332  |  fax: 877.856.2160  |  intl: +00 1 360 543 9306
## Friday Exhibit Hall Happenings

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Sponsor</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 AM – 6:30 PM</td>
<td><strong>Exhibit Hall Open</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Shoreline Exhibit Hall</td>
<td></td>
</tr>
<tr>
<td>9:00 – 10:30 AM</td>
<td><strong>Break in Exhibit Hall</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Shoreline Exhibit Hall</td>
<td></td>
</tr>
<tr>
<td>9:10 – 9:40 AM</td>
<td><strong>Alpha Duo Liner (PPT)</strong></td>
<td>WillowWood</td>
</tr>
<tr>
<td>9:50 – 10:20 AM</td>
<td><strong>Vista CTO (PPT)</strong></td>
<td>Aspen Medical Products</td>
</tr>
<tr>
<td>11:30 AM – Noon</td>
<td><strong>Innovative MPC Solutions from Freedom Innovations (PPT)</strong></td>
<td>Freedom Innovations</td>
</tr>
<tr>
<td>Noon – 1:30 PM</td>
<td><strong>Lunch in Exhibit Hall</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Shoreline Exhibit Hall</td>
<td></td>
</tr>
<tr>
<td>12:10 – 12:40 PM</td>
<td><strong>What’s your Terrain? Transcending K2 Boundaries with the Purely Mechanical All-Terrain Knee (PPT)</strong></td>
<td>LegWorks</td>
</tr>
<tr>
<td>12:50 – 1:20 PM</td>
<td><strong>The Diversification of Clinical Applications for ProComp (PPT)</strong></td>
<td>Cascade Orthopedic Supply, Inc.</td>
</tr>
<tr>
<td>1:30 – 2:00 PM</td>
<td><strong>Introducing the New Members of the Ottobock Upper Limb Portfolio (PPT)</strong></td>
<td>Ottobock</td>
</tr>
<tr>
<td>2:10 – 2:40 PM</td>
<td><strong>Join the Revolution—New Orthotic and Prosthetic Solutions from Click Medical (PPT)</strong></td>
<td>Click Medical</td>
</tr>
<tr>
<td>2:50 – 3:20 PM</td>
<td><strong>Treating Pediatric Toe Walking-Is it Idiopathic? (PPT)</strong></td>
<td>Surestep</td>
</tr>
<tr>
<td>3:30 – 4:00 PM</td>
<td><strong>Innovative Approaches; Positive Outcomes. Treatment for Hypotonic Trunk, Neuromuscular Scoliosis and Head-drop (PPT)</strong></td>
<td>Surestep</td>
</tr>
<tr>
<td>4:10 – 4:40 PM</td>
<td><strong>Aspen’s New Bivalve LSO &amp; TLSO (PPT)</strong></td>
<td>Aspen Medical Products</td>
</tr>
<tr>
<td>4:50 – 5:20 PM</td>
<td><strong>Vista Therapy Collar (PPT)</strong></td>
<td>Aspen Medical Products</td>
</tr>
</tbody>
</table>
5:30 – 6:30 PM  
**Exhibitor Sponsored Happy Hour in Exhibit Hall**  
Shoreline Exhibit Hall  
What better way of wrapping up a full day of learning than spending an hour in the exhibit hall enjoying refreshments and networking with your colleagues and exhibitors. The Happy Hour is hosted by exhibitors. A list of sponsors will be provided onsite and included in the Mobile App.

4:30 – 5:30 PM  
**Poster Presentations**  
Oceanside Foyer

**A Biomechanical Comparison of an ESAR Foot, a Tradition Heel Height Foot and a New Heel Height Foot**  
Jeroen Nijman, MSc  
A biomechanical comparison of an ESAR foot, a tradition heel height foot and a new heel height foot. This poster will present initial results from a comparison of a new heel height foot with 2 other feet on the market. Biomechanical data shows what improvements are made to develop a dynamic heel height foot.

**A Pilot Investigation of the Socket Strength of 3D Printed Sockets**  
Brittany Pousett, CP(C), MSc  
Review the strength of 3D printed sockets compared to conventionally made thermoplastic and laminated sockets as evaluated by the ISO standard for the static structural testing of lower limb prostheses.

**Additive Manufacturing and Changing Body Images in the Prosthetics Industry**  
David Seibt, PhD  
Learn the current impact of additive manufacturing on the prosthetics industry. New fabrication technology challenges the culturally ingrained body images the field is organized around. Examples include mass customization, open source communities and enhancement.

**Are All Femurs Created Equal? The Basis for Femoral Component Design of the Osseointegration Implant**  
Munjed Al Muderis, MB, ChB, FRACS, FAOthA  
The shape of the femoral canal is much more variable, in fact, than most contemporary designs of the femoral components would suggest or can accommodate. The anatomy of the femur must be known precisely in order to accommodate all of these variations. More accommodating designs will be required that will enable proximal and distal fitting of the prosthesis in the femoral canal.
Back Pain and Spine Osteoarthritis in Adults with Above Knee Amputations
Marianne Luetmer, MD
This is a population-based study evaluating both the prevalence of back pain and time to development of spine osteoarthritis in adults with above knee amputation compared to matched individuals without amputation over an extended time period. We also evaluated effect of prosthesis use on development of osteoarthritis.

Brain Computer Interface Control of Prosthetic Knee in Transfemoral Amputees
William Lovegreen, CPO
This poster will present the feasibility of manipulating a prosthetic knee with a brain-computer interface (BCI) system in a transfemoral amputee.

Challenging Everyday Gait Situations Performed with Various Microprocessor-Controlled Prosthetic Knee Joints: Do their Safety-Potentials Differ?
Malte Bellmann, Dipl.-Ing
This poster details a microprocessor stance and swing phase controlled system in combination with a linear hydraulic and its major benefits in safety relevant situations like walking backwards, up and down ramps and down stairs and provide a significant higher prosthetic side load bearing capacity after stumbling.

Clinical Trials of Newly Designed AORI Foot Abduction Brace and its Comparison with Dennis Brown Splint
Zeshan Zahid
A newly designed foot abduction brace which is light and cost effective is presented.

Correlating Closure Tightness to Suspension with an Adjustable Socket
Jesse Williams, PhD
Research correlates the tightness of the closure system to gait metrics. The metrics are determined using a motion capture system and a forces in a gait laboratory.

Differential Function of Mechanical Prosthetic Knees: An Overview Based on Technical and Biomechanical Considerations
Andreas Kannenberg, MD, PhD
This poster will give an overview of a literature review was performed in an effort to guide the development of objective criteria for the selection of non-MP controlled prosthetic knees (NMPKs).

Dynamic Responce Energy Storing AFO
Noel Chladek, CO
Review what happens when replacing calf group function with an energy storing AFO.
Energy Storing Partial Foot Prosthesis
Noel Chladek, CO
This poster will review the indication and application of an energy storing partial foot prosthesis.

Gross Motor Skills Changes of Children with Developmental Delay, Benign Hypotonia and Significant Pronation Wearing Surestep SMOs
Megan Smith, CO
This poster will present results of a study evaluating the changes in gross motor skill acquisition of children with developmental delay, benign hypotonia and significant pronation wearing Surestep SMOs.

High Efficiency Pylon using CFRP Grid Stiffened Structure
Antonio Ancelotti, PhD
Review a study showing how grid stiffened pylon, using carbon fiber reinforced polymer (CFRP), has shown a greater structural efficiency and lightness.

Impact of Genium Microprocessor Controlled Knee on Ambulation, Mobility, Activities of Daily Living and Quality of Life of Active Transfemoral Amputees: A Systematic Review
Milana Mileusnic, PhD
This poster will detail the systematic review of the published clinical evidence on Genium microprocessor controlled knee that was conducted according to the Prisma Guidelines and recommendations of the State-of-Science Evidence Report Guidelines of the American Academy of Orthotists & Prosthetists. The results suggest increased efficacy of Genium in comparison to C-Leg in the areas of ambulation, mobility, activities of daily living and quality of life.

Implications of Prosthetic Hand Design and Contextual Social Interaction on Cognitive Embodiment
Gerald Stark, PhD, MSEM, CPO/L, FAAOP
A number of recent advances in upper limb prosthetics such as multiarticular prosthetic hand design, input/control, haptic feedback, proprioceptive awareness, therapeutic techniques, and socket design promise to provide patients with improved comfort and function. Together these improvements may be working as complements to increase the sense of prosthetic embodiment or “projected kinesthesia.”

Is 3D Printing O&P Devices Disruptive?
Jeff Erenstone, CPO
By definition, additive manufacturing (commonly known as 3D printing) is a classic example of a disruptive innovation. However, a disruptive innovation doesn’t need to disrupt the patient care provided by trained, professional Prosthetists and Orthotists; instead, it can augment it. This poster will outline the current benefits of 3D printing to the O&P field and give examples of how clinicians around the world are currently utilizing it. The lecture will provide background, terminology, explanation of processes and overviews of clinical cases that currently utilize this technology in the field.
Lower Limb Prosthetic Outcome Measures: A Two-Year Retrospective Chart Review
Russ Lundstrom, MS
Routine outcome measurements in a prosthetic clinic can provide valuable information useful for improving patient care and for justifying the use of technology to third party payers. Outcome measures routinely administered since the beginning of 2015 at two clinic sites were collected from a total of 1172 lower limb subjects. The results from analysis of this data are detailed.

Material Properties and Clinical Outcomes
Garrett Hurley, CPO
Regardless of differences in option, prosthetist should be prepared to justify their reimbursement for sockets and materials used with quantifiable data and results. This poster reviews properties of materials in prosthetic sockets and associate results with clinical outcomes.

McGann Client Feedback Form: Update and Development of Self-Advocacy
Debra Latour, MEd, OTR/L
Individuals who present with upper limb loss or congenital difference experience challenges that impact physical and psychosocial functions. Many of these individuals utilize prosthetic technology to provide or restore some of the upper limb function. Active participation and the ability to provide meaningful feedback can lead to improved prosthetic satisfaction, use, integration to one’s self-concept and development of self-advocacy skills.

Osseointegrated Implants for Lower Limb Amputees: Evaluation of Bone Mineral Density
Munjed Al Muderis, MB, ChB, FRACS, FAOthA
The major cause of osteoporosis in amputees is the absence adequate loading leading to bone resorption in accordance to Wolff’s law. Changes in BMD were reviewed among amputees who received osseointegrated implants to determine if the loading through the Osseointegrated implant can overcome the bone resorption issues.

Osseointegrated Implants for Trans Femoral Amputees: Radiographic Evaluation of Bone Remodeling
William Lu, PhD
Stress shielding results in the reduction of bone density due to the implant removing the stress that is usually exerted on the bone, which greatly reduces implant stability. This poster investigates the bone remodeling effect and quantifies it in two of the most common osseointegration implants.

Osseointegrated Implants in Patients with Peripheral Vascular Disease
Munjed Al Muderis, MB, ChB, FRACS, FAOthA
Osseointegration is an alternative treatment for amputees who have inability or difficulty in wearing socket prostheses. Although the majority of limb amputations are due to vascular disease, they represent perceived contraindications for osseointegration surgery. This poster presents the outcomes of osseointegrated reconstruction in patients with limb amputation due to peripheral vascular disease in Australia and the Netherlands.
Outcomes Associated with the Intrepid Dynamic Exoskeletal Orthosis (IDEO): A Systematic Review of Literature
Tyler Klenow, MSOP, CPO, LPO, CPT
A recent development in the area of “limb salvage” is the ultra-high performance AFO. One such AFO is the Intrepid Dynamic Exoskeletal Orthosis (IDEO). Results of a systematic review of outcomes of the IDEO and associated return-to-run program will be presented.

Perception on Functional Changes and Mobility in Unilateral Transfemoral Amputees Using MPKs
Knut Lechler, CPO-D
We found a correlation of mobility and perceived functional in 19 unilateral transfemoral amputees when transitioning from one MPK to a new MPK indicating that mobility features are important to the user’s satisfaction. The clinical outcomes measured are statistically significant, clinically validated, easy to administer and relevant for the daily clinical practice.

Proof Activities of Daily Living in the Lower Extremity Patient from Daily Clinic Practice
Wilson Steele, MSBme
This poster will present the Gait Lab System to record and document the Timed-Up-and-Go Test, and the 2x2 L-Test. The GaitKeeper system is currently in use in prosthetic clinics, using it daily to document patient outcomes for record keeping, billing justification, and audit protection.

Single-Stage Osseointegrated Reconstruction and Rehabilitation of Lower Limb Amputees
Munjed Al Muderis, MB, ChB, FRACS, FAOthA
To date, the vast majority of osseointegration procedures worldwide have been performed in two stages, requiring at least 4 months and up to 18 months for the completion of reconstruction and rehabilitation from the time of the initial surgery. Evaluate the safety and efficacy of a single-stage osseointegration procedure performed in our centers, which dramatically reduces the time of recovery to approximately 3-6 weeks.

Standing on Uneven Ground—How Lower Leg Amputees Benefit from Microprocessor Controlled Prosthetic Feet in an Everyday Task
Malte Bellmann, Dipl.-Ing
Review current microprocessor controlled prosthetic feet (MPF) and their benefit for amputees which leads to a natural posture while standing on inclines and declines.

Technical and Clinical Considerations for the Development of 3D Printed Upper-Limb Prostheses for Children
Jorge Zuniga, PhD
Technical considerations and clinical evidence of the possible benefits and obstacles in the use of upper-limb 3D printed prostheses in pediatric populations are presented. This information is crucial for clinicians interested in exploring the use of 3D printed prostheses for their patients.
The Future of Craniofacial Prosthetics
Gregory Gion, MMS, CCA, BOCP
Learn about craniofacial prosthetics.

The Impact of Medial Foot Wedge on Tibia Angle in Coronal Plane
Naveed Ahmed, BPO, MOT
Review the Impact of Medial Foot Wedge on Tibia Angle in Coronal Plane.

The Use of Osseointegrated Titanium Implants to Treat Trans-Tibial Amputees
Munjed Al Muderis, MB, ChB, FRACS, FAOthA
Learn about a reconstruction strategy and clinical management protocol used in the treatment of TTA patients with osseointegrated implants, as well as a preliminary assessment of the safety and efficacy of the protocol in this particular group of patients.

Video Gait Analysis used in Online Learning for Students of Orthotics and Prosthetics
Cara Negri, BSME, CP
This poster will show how video gait analysis in online education was used to provide students the experience of observational gait analysis.

Student Posters

A Mixed-Methods Examination of Limitations to Physical Activity as Reported by Individuals with Lower Extremity Amputations
Elizabeth Bell, University of Maryland-College Park

Edwin and Kathryn Arbogast Award
Lower-extremity amputations are associated with a reduction in mobility and physical activity levels which are reported to be detrimental to many aspects of health. We aim to gain a better understanding of how individuals with lower-extremity amputation describe their own limitations to specific aspects of physical activity. Common patterns across groups may suggest that prosthetic users are limited by discomfort due to the interface between the body and prosthesis.

Characteristics of Delphi Processes in Orthotics and Prosthetics Research
Kierra Falbo, Northwestern University

Otto and Lucille Becker Award
Recommendations exist for use of the Delphi process in healthcare research. Most Delphi studies in orthotics and prosthetics research occurred after these recommendations were published, and it is unclear how closely these recommendations have been followed when applying this method. The aim of this review is to summarize the characteristics of Delphi processes in orthotics and prosthetics. Understanding how this method has been applied in previous studies will inform the design and credibility of future research.
ONE BOX. ONE PRICE.

NEW K² KITS
COMPLETE KIT SHIPS FROM SPS INVENTORY

VISIT US AT BOOTH #415 TO LEARN MORE
MORE COMBINATIONS AVAILABLE. SAVE 5% WHEN YOU ORDER ONLINE.

SPS
MORE THAN DISTRIBUTION PARTNERSHIP
800.767.7776 | SPSCO.COM
Student Posters (Continued)

Analysis of interface force distribution & balance in subjects with adolescent idiopathic scoliosis (AIS) using Boston Brace
Hasan Arif Raihan

Effect of Orthotic treatment on curve correction & cardio respiratory functions in congenital scoliosis with single-level hemi vertebrae
Hasan Arif Raihan

Case Study: Thermoplastic Scapulothoracic Orthosis for Treatment of Winging Scapula
Steven Brown

Ability of Pygmalion effect to reduce non-compliance and improve orthotic outcomes in patients with adolescent idiopathic scoliosis
Cassandra Delgado

How Good Are We? A six-year analysis of orthotists’ efficacy in the treatment of adolescent idiopathic scoliosis
Cassandra Delgado

Integrating Prosthetic Wrist Flexion to Improve Functionality of Myoelectric Prosthesis Users
Alexis Gagliardotto

Articulated AFOs: Can We Do Better?
Alexis Gagliardotto

Mind Over Matter: Addressing Psychological Aspects of Patient Care
Alexis Gagliardotto

Design and Construction Of Electro-Mechanic Transtibial Prosthetics For Both Lower Limbs
Jhon Hernandez Martin

Localization of residual limb muscles of individuals with a transfemoral amputation
Sara Hutchinson

Providing mobile visual feedback to lower limb prosthesis users
Krista Kutina

The identification of practitioner time in the delivery of a transtibial prosthesis to the first time dysvascular user
Brandilyn Mataronas

Postoperative Trans-Tibial Rigid Dressings and Their Effects on Recovery Duration: Conventional Plaster of Paris Versus Össur Rigid Dressing
Andrew Nelson

Neuromuscular Electrical Stimulation Use in Transtibial Amputations
Sara Peterson

Objective compliance monitoring of scoliosis TLSO-wear increases patient compliance with potential improved treatment outcomes
Rachael Rosen

The effect of body mass index on in-brace correction obtained by a Boston-style scoliosis TLSO in patients diagnosed with Adolescent Idiopathic Scoliosis: a retrospective study
Rachael Rosen

Comparison of combination deformational plagio- brachycephaly following cranial remodeling orthosis treatment using a noninvasive laser data acquisition system
Emily Tierney

Developing an Adjustable Prosthetic Foot
Alexander Weinstein
Experience all the AOPA National Assembly has to offer while visiting Vancouver.

Vancouver is easy to explore during your time at the downtown Vancouver Convention Centre as there are many top attractions within walking distance.

- Capilano Suspension Bridge
- Vancouver Aquarium
- Forbidden Vancouver
- Stanley Park Horse-Drawn Tours
- Harbour Cruises & Events
- Flyover Canada
- Vancouver Lookout
- Dr. Sun Yat-Sen Classical Chinese Garden
- Vancouver Art Gallery
- Science World
- Grouse Mountain

Experience Beyond

Vancouver’s unbeatable location makes it the perfect gateway to the rest of British Columbia and beyond, providing you with outstanding opportunities for pre- and post-conference travel.

- Whistler
- Okanagan Valley
- Banff
- Jasper
- Cruise to Alaska
### Top Reasons to Use AOPAversity

- **Convenience**
  CE credits automatically transferred to your ABC & BOC record

- **High Quality Education**
  On a variety of topics

- **Instant Quiz Results**
  Receive your grade and retake if necessary

- **24/7 Access**
  Study when the time is right for you

- **Discounts**
  For AOPA members

### How to Access AOPAversity

2. Choose your education and study
3. Take the quiz and print your certificate!
# SATURDAY 9 | 9 | 17 SCHEDULE

## PROGRAM AT-A-GLANCE 8.0 CE CREDITS

Registration is open from 8:00 AM-Noon, Mandalay Bay Foyer.

<table>
<thead>
<tr>
<th>Time</th>
<th>Exhibit Hall</th>
<th>Reef DE</th>
<th>Mandalay Bay H</th>
<th>Mandalay Bay I</th>
<th>Mandalay Bay J</th>
<th>Mandalay Bay K</th>
<th>Mandalay Bay L</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 AM</td>
<td></td>
<td></td>
<td></td>
<td>Breakfast</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>General Session</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Dobson-Davanzo</td>
<td>Research</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>7:40-8:00</td>
<td>AM</td>
<td>Kerala Healthcare Delivery 8:00-9:00 AM</td>
<td>.75 CE Credit, P106</td>
</tr>
<tr>
<td>8 AM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9 AM</td>
<td>Exhibit Hall Open</td>
<td></td>
<td>C24 Symposium Pediatric</td>
<td>10:30-11:30 AM</td>
<td>1.5 CE Credits</td>
<td>P108</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Break</td>
<td></td>
<td>C23 Partial Foot Symposium</td>
<td>10:30-11:30 AM</td>
<td>1.5 CE Credits</td>
<td>P101</td>
<td></td>
</tr>
<tr>
<td>10 AM</td>
<td>Exhibit Hall Open</td>
<td></td>
<td>P11 Pedorthic Education</td>
<td>10:30-11:30 AM</td>
<td>1.5 CE Credits</td>
<td>P110</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lunch on your own</td>
<td></td>
<td>T10 Adj. Socket Revolution</td>
<td>10:30-11:30 AM</td>
<td>1.5 CE Credits</td>
<td>P110</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Product Preview Theaters (PPT)</td>
<td></td>
<td>C25 Pros. Free Papers</td>
<td>10:30-11:30 AM</td>
<td>1.5 CE Credits</td>
<td>P108</td>
<td></td>
</tr>
<tr>
<td>11 AM</td>
<td></td>
<td></td>
<td>B11-12 Hamontree Presentation</td>
<td>10:30-11:30 AM</td>
<td>Capital Markets</td>
<td>11:30 AM</td>
<td>1.5 CE Credits</td>
</tr>
<tr>
<td>Noon</td>
<td></td>
<td></td>
<td>C24 Symposium Pediatric</td>
<td>10:30-11:30 AM</td>
<td>1.5 CE Credits</td>
<td>P108</td>
<td></td>
</tr>
<tr>
<td>1 PM</td>
<td></td>
<td></td>
<td>C23 Partial Foot Symposium</td>
<td>10:30-11:30 AM</td>
<td>1.5 CE Credits</td>
<td>P101</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Product Preview Theaters (PPT)</td>
<td></td>
<td>P11 Pedorthic Education</td>
<td>10:30-11:30 AM</td>
<td>1.5 CE Credits</td>
<td>P110</td>
<td></td>
</tr>
<tr>
<td>2 PM</td>
<td></td>
<td></td>
<td>T10 Adj. Socket Revolution</td>
<td>10:30-11:30 AM</td>
<td>1.5 CE Credits</td>
<td>P110</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Product Preview Theaters (PPT)</td>
<td></td>
<td>C25 Pros. Free Papers</td>
<td>10:30-11:30 AM</td>
<td>1.5 CE Credits</td>
<td>P108</td>
<td></td>
</tr>
<tr>
<td>3 PM</td>
<td></td>
<td></td>
<td>B11-12 Hamontree Presentation</td>
<td>10:30-11:30 AM</td>
<td>Capital Markets</td>
<td>11:30 AM</td>
<td>1.5 CE Credits</td>
</tr>
<tr>
<td>4 PM</td>
<td></td>
<td></td>
<td>C24 Symposium Pediatric</td>
<td>10:30-11:30 AM</td>
<td>1.5 CE Credits</td>
<td>P108</td>
<td></td>
</tr>
<tr>
<td>5 PM</td>
<td></td>
<td></td>
<td>C23 Partial Foot Symposium</td>
<td>10:30-11:30 AM</td>
<td>1.5 CE Credits</td>
<td>P101</td>
<td></td>
</tr>
<tr>
<td>6 PM</td>
<td></td>
<td></td>
<td>P11 Pedorthic Education</td>
<td>10:30-11:30 AM</td>
<td>1.5 CE Credits</td>
<td>P110</td>
<td></td>
</tr>
<tr>
<td>7 PM</td>
<td></td>
<td></td>
<td>T10 Adj. Socket Revolution</td>
<td>10:30-11:30 AM</td>
<td>1.5 CE Credits</td>
<td>P110</td>
<td></td>
</tr>
</tbody>
</table>
SATURDAY SEPTEMBER 9

8:00 AM – Noon  Registration and Information Desk Open
                Mandalay Bay Foyer

7:00 AM  Breakfast
         Mandalay Bay H Foyer

7:00 – 5:00 PM  Speaker Ready Room Open
                 Reef F

7:15 – 9:00 AM  General Session and Awards Presentation
                 Mandalay Bay H

7:15 – 7:40 AM  Awards Presentation
                 Mandalay Bay H

7:40 – 8:00 AM  Dobson-Davanzo Cost Effectiveness Research
                 Mandalay Bay H
                  Al Dobson, PhD
                  Jeff Lutz, CPO
                  Michael Oros, CPO, FAAOP

Learn the latest research findings as we discuss the newly updated and expanded cost effectiveness research study. The new report includes Medicare data from 2011 to 2014, but has been expanded to also include Part D medication costs incurred by those patients receiving and not receiving O&P care.

8:00 – 9:00 AM  General Session Symposium: Healthcare Delivery Systems from Around the World
                 Mandalay Bay H

Speakers from around the world:
Canada – Dana Cooper, MBA, CAE
Germany – Michael Schaefer, CPO, Dipl.
USA – Thomas F. Fise, JD
Africa – Gebreyesus Girmatsyion, CTPO
India – D.R. Sarin, CMD

The provision of orthotic, prosthetic, and pedorthic care varies from country to country due in part to differences in their Healthcare Delivery Systems. Government regulations, financing, patient access, and the integration of new technologies into O&P are just a few of the topics that an international panel of invited speakers will discuss in this symposium. Attendees will listen to a series of overview presentations on the subject followed by a moderated panel discussion that hopes to provoke a stimulating and informative discourse with relevance to orthotists and prosthetists worldwide.

The discussions will focus on the impact different healthcare systems have on the quality and delivery of orthotic and prosthetic care in each respective country represented.

9:00 AM – Noon  Exhibit Hall Open
                 Shoreline Exhibit Hall

9:00 – 10:30 AM  Break in Exhibit Hall
                  Shoreline Exhibit Hall
10:30 – 11:30 AM  
**Hamontree Presentations (B11)**
Mandalay Bay L

The Sam E. Hamontree, CP (E) Business Education Award was created to recognize the best business paper submitted for presentation at the AOPA World Congress. This award is envisioned as a counterpart to the Thranhardt Award given each year to the best clinical abstract(s). The audience will be invited to cast their vote for the award winner.

10:40 – 11:00 AM  
**An Easy Way to Show Health Economical Benefit in Standard O&P Practice: A First Experience! (B11A)**
Andreas Hahn, PhD, MSc

The appropriate proof of added value becomes increasingly important for healthcare providers. We introduce a surprisingly simple but scientifically valid method that may be applied in O&P practice.

11:05 – 11:25 AM  
**Competitive Differentiator: Executing a Data-Driven Growth Strategy in O&P (B11B)**
Ryan Ball

Across the globe, businesses are utilizing data to create greater efficiencies and identify new growth opportunities. “Big data” now impacts all facets of healthcare payment and delivery, including the orthotics and prosthetics segment. This presentation will showcase data available to O&P providers and discuss proven strategies to utilize data to drive business growth decisions.

10:30 AM – Noon  
**Symposium: The Experience of Sequential Partial Foot and Transtibial Amputation: Implications for Shared Decision Making about Amputation Surgery (C23)**
Mandalay Bay H

Michael Dillon, PhD
Stefania Fatone, PhD, BPO (Hons)

About 50% of people that undergo a partial foot amputation will experience significant complications in the first few weeks or months after amputation surgery such as infection, dehiscence or complete failure of the wound. Only about half of all partial foot amputations will have healed at 3 months and many people spend weeks or months in-and-out of wound clinics and hospital in an effort to salvage the remnant foot. The process can be very painful. The frequency of healthcare visits and common interventions such as Vacuum Assisted Closure are often considered to be burdensome by many people. Given insights from the user experience, we suggest that shared decision making may be a better way to help inform difficult discussions about partial foot or transtibial amputation. Evidence in other areas of healthcare show that when people are better informed about the procedures, they can accurately perceive the benefits and risks, and have less regret with their treatment decision when a shared decision making approach was used.
**Symposium: Pediatric UE Functional Orthotics for Children with Neuromuscular Diseases (C24)**

**Reef DE**

Tim Lewandowski, CO  
Jonathan Naft, CPO  
Vivian Rose, CPO  
Michael Schaefer, CPO, Dipl.

The instructors in this course give an overview of current orthotic treatment options for the upper extremities of children with neuromuscular movement disorders. They also illustrate the importance of minimalist construction principles with maximum benefits and demonstrate state-of-the-art principles of construction. Besides providing a high level of functionality, these principles also take into consideration the outward appearance and child-friendly design of modern orthosis care. Innovative function and manufacturing method's such as the use of external-power operated function-improving arm-orthotics, and also the harnessing of 3-D print technologies, are pointing the way to possible orthotic treatment concepts in the future.

**Prosthetic Free Papers—Advancing Care for Today (C25)**

(Mandalay Bay K)

(The following sessions run consecutively within this program.)

**Differences in Stepping, Functional Level and Cost-Efficacy of the Genium and C-Leg Microprocessor Knees (C25A)**

M. Jason Highsmith, DPT, PhD, CP, FAAOP

This randomized clinical trial compared the Genium MPK with the C-Leg in multi-directional stepping, functional level and cost-efficacy.

**Osseointegrated Implants in Patients with Diabetes Mellitus: A Case Series of Eight Patients (C25B)**

Munjed Al Muderis, MB, ChB, FRACS, FAOthA

Traditionally, diabetic patients with amputations have been excluded from osseointegrated reconstruction due to higher risks of complications. This is the first study reporting on the clinical outcomes of diabetic patients receiving an osseointegrated reconstruction.

**Advanced Prosthetic Components Improve Standing Balance and Limb Load Symmetry for Transfemoral Amputees using Microprocessor Knees (C25C)**

David Moser, PhD

The efficacy of microprocessor knees (MPKs) with enhanced standing support was tested for different prosthetic ankle types. The combination of an MPK, with standing support active, and a hydraulic ankle, produced balance and limb loading measurements closest to those of able-bodied controls.
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speakers</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:00 – 11:08 AM</td>
<td><strong>The First 500 of the POQOL-100 (C25D)</strong></td>
<td>Michael Wininger, PhD</td>
</tr>
<tr>
<td></td>
<td>What quality of life questions are we asking our patients and in what settings? The POQOL project is run by clinicians in attempt to better understand patient care and evidence-based practice.</td>
<td></td>
</tr>
<tr>
<td>11:10 – 11:18 AM</td>
<td><strong>Clinical Trials are the Future of O&amp;P (C25E)</strong></td>
<td>Kristine Houck, MA, ELS, Michael Wininger, PhD</td>
</tr>
<tr>
<td></td>
<td>Clinical trials are the pinnacle of medical evidence, however, there are surprisingly few clinical trials in P&amp;O. The case will be made that now is the time for our profession to adopt a clinical trials mindset.</td>
<td></td>
</tr>
<tr>
<td>11:20 – 11:28 AM</td>
<td><strong>The Role of Exercise Testing in Prosthetic Rehabilitation: A Systematic Literature Review (C25F)</strong></td>
<td>M. Jason Highsmith, PhD, DPT, CP, FAAOP, Tyler D. Klenow, MSOP, CPO, LPO, CPT</td>
</tr>
<tr>
<td></td>
<td>Exercise testing provides for an alternative or adjunct method of functional classification of individuals with a history of amputation to the current K-level system. Results of a systematic literature review of exercise testing in the amputee population are discussed. A proposed clinical treatment pathway will also be presented.</td>
<td></td>
</tr>
<tr>
<td>11:30 – 11:38 AM</td>
<td><strong>Adjustable Liners and Sockets for Prosthetic Devices (C25G)</strong></td>
<td>Lenore Rasmussen, PhD</td>
</tr>
<tr>
<td></td>
<td>Ras Labs’ Synthetic Muscle™ will allow amputees to continue their active lives without needing to adjust the fitting of their prosthetic device(s) throughout the day. This technology will resolve major issues facing amputees, most notably the pain of prosthetic slippage and the inconvenience of adding or removing prosthetic socks.</td>
<td></td>
</tr>
<tr>
<td>11:40 – 11:48 AM</td>
<td><strong>Clinical Results on the Use of a Microprocessor Controlled Prosthetic Knee Component for Above-Knee Amputees of Low Mobility (C25H)</strong></td>
<td>Andreas Hahn, PhD, MSc</td>
</tr>
<tr>
<td></td>
<td>Hear a multicentric, international, randomized controlled cross-over trial to investigate the impact of an innovative advanced hydraulic microprocessor controlled exo-prosthetic knee on amputees with low mobility grade ratings. The study provides an evidence level amongst the highest yet available in P&amp;O.</td>
<td></td>
</tr>
<tr>
<td>11:50 – 11:58 AM</td>
<td><strong>On the Use of Health Economic Instruments to Evaluate Prosthetic Services (C25I)</strong></td>
<td>Andreas Hahn, PhD, MSc</td>
</tr>
<tr>
<td></td>
<td>Using data from 81 amputees, this research study investigates the suitability of utilizing health economic instruments to evaluate prosthetic services.</td>
<td></td>
</tr>
</tbody>
</table>
10:30 AM – Noon  

**Pedorthic Education (P11)**  
Mandalay Bay I  

(The following sessions run consecutively within this program.)

10:30 – 10:50 AM  

**Rocker Shoes for Reduction of Ankle Motion—Implications for Pain and Stability (P11A)**  
Andrew Hansen, PhD  
Hear a case study surrounding a new development on rocker shoes that dramatically reduces ankle motion and results in reduced ankle pain as well as reduced standing stability. We will also share a rocker shoe development kit approach where we improved the stability with only minor effects on the motion reduction.

10:50 – 11:20 AM  

**Advances In Shoe Closures Could Change the World (P11B)**  
Bret Bostock, CO  
Novel footwear technologies attempt to improve human foot protection and the performance of O&P devices. Optimizing the closure of footwear is particularly important for lower extremity patients, regardless of diagnosis or device. In diabetes alone, the cumulative risk for a patient with developing complications is estimated to be 25% and costs Americans about $23 billion in direct medical expenses each year. We have overlooked shoe closure for too long.

11:20 AM – Noon  

**Distinguishing Categories of Medial Column Ligamentous Failure (P11C)**  
Ian Engelman, MS, CPO  
The limitations of using X-rays for clinical evaluation becomes very evident when analysis of the Medial Column using 3D rendering is introduced. Our understanding of pathologies of the foot and ankle is taking a significant step forward, and this presentation will demonstrate the opportunities for an overhaul of our definitions. We will review the problems with the current lexicon, and through real time 3D analysis, suggest new ways of Distinguishing Categories of Medial Column Ligamentous Failure.

10:30 AM – Noon  

**Adjustable Socket Revolution (T10)**  
Mandalay Bay J  
Pamela Hale, CPO  
Joe Mahon, CP  
Be ready to fabricate your first adjustable socket or get some advanced tips and tricks. Learn how to create adjustable sockets using RevoFit products from Click Medical. Fabrication techniques for installing the RevoFit products into laminated sockets and attached to diagnostic test sockets will be reviewed highlighting the key steps for enhanced socket function.
11:30 AM – Noon

**The Sun is Shining: How to Use Capital Markets to Fund Your Business’ Growth (B12)**
Mandalay Bay L

Brian Childs, Esq.

Now is a remarkable time in prosthetics and orthotics. Practitioners are more and more able to help their patients live ever fuller lives, as assistive technologies grow in sophistication, seemingly by the day. At the same time, most practitioners confront this increasing sophistication—which brings with it increasingly complex reimbursement challenges—in the context of smaller, independent O&P practices. This market fragmentation—the fact that most O&P practice is conducted in smaller, independent contexts—has caught the attention of the capital markets. Increasingly, private equity is looking to “roll up”—or combine—smaller, independent practices into slightly larger, more efficient operations. When this strategy is pursued carefully, it can create upside for all involved—fostering a dynamic where practitioners can focus on patients while leaving reimbursement and other frictions to non-practicing administrative staff. But when the strategy is pursued poorly, practitioners can lose control of the businesses they have worked so hard to nurture. This presentation will discuss how private equity has become increasingly interested in the O&P space and how practitioners can use this dynamic to their advantage.

Noon – 1:00 PM

**Lunch on Your Own**

1:00 – 2:30 PM

**Symposium: Multi-Scale Integration in Upper Limb Prosthetics (C26)**
Mandalay Bay H

Matthew Mikosz, CP, LP
Sam Phillips, PhD, CP
Patrick Pilarski, PhD
Gerald Stark, PhD, MSEM, CPO/L, FAAOP
Michael Wininger, PhD

Upper-limb prostheses (ULPs) are essential to one’s own sense of self and the ability to complete activities of daily living. Yet abandonment rates are as high as 50% in some patient populations. In this course, subject-matter experts will address several key domains where ULPs are most critically lacking, and where there are accessible opportunities for improvement. Our panelists come from varied backgrounds, with expertise in ULP design, development, and delivery.

1:00 – 2:30 PM

**Orthotic Symposium: Stance Control (C27)**
Reef DE

Gary Bedard, CO, FAAOP
Sam Hale, MSPO, CPO, LPO
Andreas Kannenberg, MD, PhD

The commercial technology of stance control orthoses has been a clinical solution option for practitioners facing patients with lower limb gait instabilities for over twenty years. In this presentation, representatives of the three main manufacturers involved with the production of component options will present an industry review. The symposium will help practitioners refine their clinical decision making and reimbursement justification.
1:30 – 2:50 PM  Prosthetic Free Papers (C28)
Mandalay Bay I
(The following sessions run consecutively within this program.)

1:40 – 1:48 PM  Changes in Pressure Distribution and Outcomes with Alignment Changes (C28A)
Garrett Hurley, CPO
This study aims to quantify and understand stresses experienced at the residual limb with prosthetic alignment differences. Results suggest that alignment does affect forces within the socket and that force sensors within the prosthetic socket may be helpful in determining appropriate alignment.

1:50 – 1:58 PM  Change in Pressure Distribution and Outcomes with Loose and Tight Tension (C28B)
Garrett Hurley, CPO
Data quantifying the relationship between pressure distribution on a residual limb and patient outcomes are critical for rational prosthetic socket design and may help justify costs when payers challenge the need for socket replacements. This study uses an adjustable socket design as a research tool to change the fit of the socket in real time while keeping other variables consistent.

2:00 – 2:08 PM  Comparison of Timed Submerged Swimming Trials with and without Lower Extremity Prostheses (C28C)
Duffy Felmlee, MSPO, CPO
Michael McCauley, MSPO, CPO
Land based activities require additional energy expenditure depending on amputation level. It is hypothesized that a submerged aquatic activity will reduce energy requirements independent of amputation level as compared to land-based activities. Hear the results of two trials with six amputees of various levels of amputation.

2:10 – 2:18 PM  Impact Test for Prosthetic Feet (C28D)
Eric Nickel, MS
An impact loading test has been developed for prosthetic feet to simulate high impact activities that may be encountered in construction, fire and rescue, and military service. This presentation will present validation data and results of testing commercially available feet intended for high-impact activities.

2:20 – 2:28 PM  Assessment of Prosthetic Mobility and its Relationship to Fall History in People with Lower Limb Amputation (C28E)
Sheila Clemens, PT, MPT, PhD(c)
Ignacio Gaunaurd, PT, PhD, MSPT
The Timed-Up-and-Go (TUG) test is frequently used to assess mobility in people with lower limb amputation (LLA). The purpose of this study was to identify limitations in prosthetic mobility using the TUG, and investigate the potential relationship to falls in the amputee population.
2:30 – 2:38 PM An 18-Month Review of Implementing Outcome Measures in Clinical Practice (C28F)
Brittany Pousett, CP(C), MSc
This presentation will share insights with regards to the feasibility of implementing standardized OMs, the impact they have on individual patients, and how their use can contribute to the development of interpretability parameters.

1:00 – 2:30 PM Symposium: Everyday Risk & New Regulations of Isocyanate in the O&P Work Environment (C29)
Mandalay Bay J
Carlo Luetto, BS
Marie Rise, OT
Fletcher Session, OTC
Orthotists and Prosthetists are exposed on a routine basis to isocyanates found in synthetic casting materials. The National Institute of Health studies have shown that isocyanates can result in health risks for both the technician applying the cast and the patient. This presentation will examine the function of isocyanate in casting materials, as a catalyst to potential allergic reactions, other risks and guidelines, and how to minimize those risks.

1:00 – 2:30 PM 2017 Compliance Update: Compliance Excellence, Best Business Practices and the Successful Accreditation Survey (B13)
Mandalay Bay L
The American Board for Certification in Orthotics, Prosthetics & Pedorthics (ABC)
In this day and age compliance with O&P standards are immeasurable, they can make or break your business. Join this education opportunity and discussion on best business practices and ways to help your facility be compliant with the ABC accreditation standards. We’ll discuss ABC’s extensive set of accreditation tools and resources to help you become and remain the best business you can be. We’ll review:
• Best business practices that will save you time and money
• Complying with the standards that apply directly to your practice
• Chart documentation that supports treatment, billing and medical necessity. Make sure you get paid for the services you provide and help defend yourself from audits.
• Opportunities for marketing your practice
• The Top Ten issues ABC surveyors discover during their surveys and even more importantly, how to avoid them!
Saturday Exhibit Hall Happenings

7:00 AM – Noon  Exhibit Hall Open
Shoreline Exhibit Hall

9:00 – 10:30 AM  Break in Exhibit Hall
Shoreline Exhibit Hall

9:10 – 9:40 AM  Fabrication Solutions: Clinical Applications for ProComp (PPT)
Sponsor: Cascade Orthopedic Supply, Inc.

9:50 – 10:20 AM  3D Printing: Transforming the Process of Prosthetic Fabrication (PPT)
Sponsor: Friddle’s Orthopedic Appliances, Inc.

10:20 AM  Giant Slot Machine Grand Prize Giveaway
Shoreline Exhibit Hall

Play the Giant Slot Machine
Exhibit Hall

Back by popular demand. As you attend educational sessions, be sure to get your tokens for the giant slot machine located in the exhibit hall. Test your luck and play your tokens to win fabulous prizes from exhibitors and AOPA.
Sponsored by: Townsend Design \ Thuasne USA
Dyneva

Improvement through movement

Low profile, dynamic frame design is lightweight and adaptable to every patient.

Unique spring mechanism extends the spine during movement.

Stabilization increases patient sense of security while reducing pain and increasing mobility.

Visit us at booth #615
Endolite
Inspired by Nature.
Designed for Life.

Visit us at booth 815

Featuring:
New Orion3 Microprocessor Controlled Knee
New EchelonVAC Volume Management System
The Award Winning Linx System

Join us for Happy Hour - Mingle with our research and clinical experts

Follow Endolite:
@EndoliteUS /EndoliteUS
endolite.com
info@endolite.com
Endolite is part of the Blatchford Group.
Make sure to stop by the International O&P Showcase, featuring industry research institutions, universities, and nonprofits who dedicate their work to the O&P field. These organizations are featured in an Exhibit Hall display at the World Congress informing international practitioners about their imperative O&P programs, outreach, and research. The following organizations are participating:

- American Association of Breast Care Professionals (AABCP) (USA)
- American Friends of Exceed (Southeast Asia)
- Bolivians Without disAbilities (Bolivia)
- Cooperative Orthotic Prosthetic Enterprise (COPE) (Laos)
- Pedorthic Association of Canada (Canada)
- The Center for Design and Metrology – SENA (Columbia)
- The Heather Abbott Foundation (USA)
- Universidad Don Bosco (El Salvador)
- University of Pittsburgh (USA)
**Bold listings** indicate the exhibitor is a member with the American Orthotic & Prosthetic Association (AOPA).

+ indicates the exhibitor is a Supplier Plus Partner with AOPA.

● indicates new exhibitor for 2017.

---

**5280 Prosthetics/Adaptec** ----- 655
1501 W Campus Dr, Ste J
Littleton, CO 80120
Phone: 720/344-1212
Fax: 720/344-1219
Email: clint@5280prosthetics.com
Web: www.5280prosthetics.com

**Products:**
- Central Fabrication
- Prosthetics: Lower Limb
- Lab Equipment
- CAD/CAM
- Prosthetic
- Electronic Components: Lower Limb
- Elevated Vacuum Socket Volume Management
- Prosthetic—Multiple Categories
- Suspension Products & Systems

● **AC Mould Engineering Limited** ..... 760
No. 5 Miya Road, Yuquan
Huangdong Village, Fenggang
Dongguan, Guangdong 523696
CHINA
Phone: +86 769/825-22823
Fax: +86 769/826-99566
Email: cat@acmould.com
Web: www.acmould.com

**Products:**
- Central Fabrication
- Orthotics: Lower Limb
- Lab & Clinical Supply Items
- Lamination Supplies
- Plastics
- Orthotic
- Knee Orthoses
- Orthotic—Multiple Categories
- Soft Goods/Ready-to-Fit Orthoses
- Upper Limb Orthoses

---

**ACOR Orthopaedic Inc.** ........ 557
18530 S Miles Pkwy
Cleveland, OH 44128
Phone: 800/237-2267
Fax: 800/830-8445
Email: requestinfo@acor.com
Web: www.acor.com

**Products:**
- Central Fabrication
- Orthotics: Lower Limb
- Lab & Clinical Supply Items
- Lamination Supplies
- Sheet Goods: Foams, Crepes, etc.
- Orthotic
- Orthotic—Multiple Categories
- Pedorthic
- Foot Care: Insoles
- Pedorthic—Multiple Categories

● **Adaptech** ....................... 1154
Rua da Constituição 352
Porto, 4200-195
Portugal
Phone: +011 352/20980080
Email: info@adapttech.eu
Web: www.adapttech.eu
Twitter: @adapttechco

**Products:**
- Lab Equipment
- CAD/CAM
- Hand & Bench Tools
- Patient Measuring Devices
- Miscellaneous
- 3D Printing
- O&P Service Providers
- Computer & Software Systems
- Prosthetic
- Electronic Components: Lower Limb
Advanced O&P Solutions LLC .......................... 837
8647 W 95th St
Hickory Hills, IL 60457
Phone: 708/878-2241
Fax: 708/598-2857
Email: mangelico@aopsolutions.com
Web: www.aopsolutions.com
Products:
Central Fabrication
Orthotics: Lower Limb
Orthotics: Spinal
Prosthetics: Lower Limb
Prosthetics: Upper Limb
Lab Equipment
CAD/CAM

Allard USA Inc. ..................... 937
300 Forge Way, Ste. 3
Rockaway, NJ 07866
Phone: 888/678-6548
Fax: 800/289-0809
Email: info@allardusa.com
Web: www.allardusa.com
Twitter: @allardusa
Products:
Lab & Clinical Supply Items
Lab & Clinic Supply Items—Multiple Categories
Orthotic
Hip Orthoses
Knee Orthoses
Pediatric Orthoses
Soft Goods/Ready-to-Fit Orthoses

ALPS ..................................... 315
2895 42nd Ave N
Saint Petersburg, FL 33714
Phone: 727/528-8566
Fax: 727/522-6982
Email: info@easyliner.com
Web: www.easyliner.com
Products:
Orthotic
Orthotic—Multiple Categories
Prosthetic
Liners
Mastectomy
Prosthetic—Multiple Categories
Protective Skin Covering
Socks

Alternative Prosthetic Services Inc. ..................... 754
191 Bennett St
Bridgeport, CT 06605
Phone: 203/367-1212
Fax: 203/367-1213
Email: info@alternativeprosthetics.com
Web: www.alternativeprosthetics.com
Products:
Central Fabrication
Prosthetics: Lower Limb
Prosthetics: Upper Limb
Prosthetic
Feet
Pediatric Prostheses
Prosthetic—Multiple Categories
Protective Skin Covering
American Academy of Orthotists & Prosthetists.......342
1331 H St NW, Ste 501
Washington, DC 20005
Phone: 202/380-3663
Fax: 202/380-3447
Email: info@oandp.org
Web: www.oandp.org
Twitter: @Academyofoandp

American Board for Certification in Orthotics, Prosthetics & Pedorthics.......338
330 John Carlyle St, Ste 210
Alexandria, VA 22314
Phone: 703/836-7114
Fax: 571/431-0899
Email: info@aopanet.org
Web: www.abcop.org
Twitter: @ABCOPtweet

American Central Fabrication ..................647
3240 Mabel St
Shreveport, LA 71103
Phone: 318/636-3751
Fax: 318/636-3746
Email: americancenfab@aol.com

Products:
Central Fabrication
Orthotics: Lower Limb
Prosthetics: Lower Limb
Prosthetics: Upper Limb

American Orthotic & Prosthetic Association ..........100
330 John Carlyle St, Ste 200
Alexandria, VA 22314
Phone: 571/431-0876
Fax: 571/431-0899
Email: info@aopanet.org
Web: www.aopanet.org
Twitter: @AmericanOandP

American Prosthetic Components LLC .................534
900 Ontario Rd
Green Bay, WI 54311
Phone: 800/772-7508
Fax: 920/468-1609
Email: bcurtis@apcomponents.com
Web: www.apcomponents.com

Products:
Lab & Clinical Supply Items
Misc. Fabrication Materials & Supplies
Prosthetic
Lower Limb Endoskeletal Components
Pediatric Prostheses
Prosthetic—Multiple Categories
Suspension Products & Systems

Amfit Inc. ...........................................1041
3611 NE 68th St
Vancouver, WA 98661
Phone: 360/573-9100
Fax: 360/566-1381
Email: sales@amfit.com
Web: www.amfit.com

Products:
Central Fabrication
Orthotics: Lower Limb
Lab & Clinical Supply Items
Casting & Impression Supplies
Lab Equipment
Patient Measuring Devices
Orthotic
Orthotic—Multiple Categories
Pedorthic
Foot Care: Insoles
<table>
<thead>
<tr>
<th>Company</th>
<th>Booth Number</th>
<th>Address</th>
<th>Phone</th>
<th>Fax</th>
<th>Email</th>
<th>Web</th>
<th><strong>Products</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Amputee Coalition</strong></td>
<td>1338</td>
<td>900 East Hill Ave, Ste 390</td>
<td>865/525-4512</td>
<td>865/525-7917</td>
<td><a href="mailto:info@amputee-coalition.org">info@amputee-coalition.org</a></td>
<td><a href="http://www.amputee-coalition.org">www.amputee-coalition.org</a></td>
<td>O&amp;P Service Providers</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Knoxville, TN 37915</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>O&amp;P Publications</td>
</tr>
<tr>
<td><strong>Anatomi Metrix Inc.</strong></td>
<td>938</td>
<td>365 McCaffrey</td>
<td>514/882-9676</td>
<td>514/448-5614</td>
<td><a href="mailto:info@manu3lab.com">info@manu3lab.com</a></td>
<td><a href="http://www.manu3lab.com">www.manu3lab.com</a></td>
<td>Central Fabrication</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Montreal, QC H4T 127</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Lab Equipment</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Canada</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Lab Equipment—Multiple Categories</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Patient Measuring Devices</td>
</tr>
<tr>
<td><strong>Anatomical Concepts Inc.</strong></td>
<td>1247</td>
<td>1399 E Western Reserve Rd</td>
<td>800/837-3888</td>
<td>800/657-7236</td>
<td><a href="mailto:info@anatomicalconceptssinc.com">info@anatomicalconceptssinc.com</a></td>
<td><a href="http://www.anatomicalconceptssinc.com">www.anatomicalconceptssinc.com</a></td>
<td>Central Fabrication</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Poland, OH 44514</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Orthotics: Lower Limb</td>
</tr>
<tr>
<td><strong>Anodyne</strong></td>
<td>940</td>
<td>5050 S 2nd St</td>
<td>844/637-4637</td>
<td></td>
<td><a href="mailto:info@anodyneshoes.com">info@anodyneshoes.com</a></td>
<td><a href="http://www.anodyneshoes.com">www.anodyneshoes.com</a></td>
<td>O&amp;P Service Providers</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Milwaukee, WI 53207</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Foot Care: Custom Footwear</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Foot Care: Extra-Depth Footwear</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Foot Care: Insoles</td>
</tr>
<tr>
<td><strong>AON Affinity</strong></td>
<td>1110</td>
<td>159 E County Line Rd</td>
<td></td>
<td></td>
<td><a href="mailto:Karen.Jordan@aon.com">Karen.Jordan@aon.com</a></td>
<td><a href="http://www.insurance4op.com">www.insurance4op.com</a></td>
<td>O&amp;P Service Providers</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Hatboro, PA 19040</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Insurance</td>
</tr>
<tr>
<td><strong>Apis Footwear Co.</strong></td>
<td>444</td>
<td>2239 Tyler Ave, Ste B</td>
<td>800/937-2747</td>
<td>626/448-8783</td>
<td><a href="mailto:sales@apisfootwear.com">sales@apisfootwear.com</a></td>
<td><a href="http://www.apisfootwear.com">www.apisfootwear.com</a></td>
<td>Orthotic</td>
</tr>
<tr>
<td></td>
<td></td>
<td>El Monte, CA 91733</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Orthotic—Multiple Categories</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Pedorthic</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Foot Care: Custom Footwear</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Foot Care: Extra-Depth Footwear</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Foot Care: Insoles</td>
</tr>
<tr>
<td><strong>Aspen Medical Products</strong></td>
<td>1239</td>
<td>6481 Oak Cyn</td>
<td>800/295-2776</td>
<td>800/848-7455</td>
<td><a href="mailto:service@aspenmp.com">service@aspenmp.com</a></td>
<td><a href="http://www.aspenmp.com">www.aspenmp.com</a></td>
<td>Orthotic</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Irvine, CA 92618</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Cervical Orthoses</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Knee Orthoses</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Orthotic—Multiple Categories</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Soft Goods/Ready-to-Fit Orthoses: Lower Limb</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Soft Goods/Ready-to-Fit Orthoses: Spinal</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Spinal Orthoses</td>
</tr>
</tbody>
</table>
**Becker Orthopedic Appliance Co.** ..................1025
635 Executive Dr
Troy, MI 48083
Phone: 248/588-7480
Fax: 800/923-2537
Email: mail@beckerorthopedic.net
Web: www.beckerorthopedic.com

**Products:**
Central Fabrication
Orthotics: Lower Limb
Lab Equipment
Lab Equipment—Multiple Categories
Orthotic
Orthotic—Multiple Categories
Orthotic Components
Orthotic Components: Joints
Pediatric Orthoses

- Beijing Jingbo Prosthetics & Orthotics Technical Co., Ltd. ..........665
  1-3 Floor, Bldg. 2, Yard 1, Tongzhou District Beijing, 101111
  China
  Phone: +86 106/595-0677
  Fax: +86 106/501-6857
  Email: jbgs@vip.163.com
  Web: www.jingbo-po.com

**Products:**
Central Fabrication
Prosthetics: Lower Limb
Prosthetics: Upper Limb
Orthotic
Orthotic—Multiple Categories
Prosthetic
Prosthetic—Multiple Categories

- Beijing P&O Technique Center ....567
  No. 6 Baijiazhuang Road, Chaoyang District Beijing, 100020
  China
  Phone: +86 106/585-4609
  Fax: +86 106/506-5895
  Email: info@bjpotc.com

**Products:**
Central Fabrication
Prosthetics: Lower Limb
Prosthetic
Feet
Lower Limb Endoskeletal Components
Prosthetic—Multiple Categories

**Bioness** ......................... 423
25103 Rye Canyon Loop
Valencia, CA 91355
Phone: 800/211-9136
Email: info@bioness.com
Web: www.bioness.com
Twitter: @Bionessliveon

**Products:**
Orthotic
Specialty Products
Prosthetic
Electronic Components: Lower Limb
Electronic Components: Upper Limb

**BioSculptor Corp.** ...............1055
2480 W 82nd St, Ste 1
Hialeah, FL 33016-2726
Phone: 305/823-8300
Fax: 305/823-8304
Email: bio_info@biosculptor.com
Web: www.biosculptor.com

**Products:**
Central Fabrication
Orthotics: Cranial
Orthotics: Spinal
Prosthetics: Lower Limb
Lab & Clinical Supply Items
Misc. Fabrication Materials & Supplies
Lab Equipment
CAD/CAM
Orthotic
Soft Goods/Ready-to-Fit Orthoses

**Board of Certification/Accreditation, Int'l. (BOC).... 1336**
10461 Mill Run Cir, Ste 1250
Owings Mills, MD 21117
Phone: 410/539-3910
Fax: 410/706-0869
Email: info@bocusa.org
Web: www.bocusa.org
**Bort-Swiss Orthopedic Supply** ........................................... 955
4533 N Hwy 81
Anderson, SC 29621
Phone: 864/231-9144
Fax: 864/231-9143
Email: beth.swiss@bort-swissortho.com
Web: www.bort-swissortho.com

*Products:*
**Orthotic**
Pediatric Orthoses
Soft Goods/Ready-to-Fit Orthoses
Soft Goods/Ready-to-Fit Orthoses: Cervical
Soft Goods/Ready-to-Fit Orthoses: Lower Limb
Soft Goods/Ready-to-Fit Orthoses: Upper Limb

**Pedorthic**
Pedorthic—Multiple Categories

**Boston Orthotics & Prosthetics** ....................................... 339
20 Ledin Dr
Avon, MA 02322
Phone: 508/588-6060
Fax: 508/587-8119
Email: info@bostonbrace.com
Web: www.bostonoandp.com

*Products:*
**Central Fabrication**
Orthotics: Cranial
Orthotics: Spinal

**O&P Service Providers**
Broad Line O&P Distributors

**Orthotic**
Pediatric Orthoses
Specialty Products
Spinal Orthoses

**BREG Inc.** ................................................................. 842
2885 Loker Ave E
Carlsbad, CA 92010
Phone: 800/321-0607
Fax: 800/329-2734
Email: kvansloun@breg.com
Web: www.breg.com

*Products:*
**Orthotics**
Knee Orthoses
Hip Orthoses
Spinal Orthoses
Soft Goods/Ready-to-Fit Orthoses

**O&P Distributors & Service Providers**
Computer & Software Systems

**Bremer Group Company, The** ................................. 949
11243-6 St Johns Ind Pkwy S
Jacksonville, FL 32246
Phone: 904/645-0004
Fax: 904/645-0990
Email: bremergroup@bremer.net
Web: www.bremergroup.com

*Products:*
**Central Fabrication**
Orthotics: Spinal
**Orthotic**
Orthotic—Multiple Categories
Spinal Orthoses

**Brightree LLC** ................................................... 734
1735 N Brown Rd, Ste 500
Lawrenceville, GA 30043
Phone: 888/598-7797
Fax: 678/775-7294
Email: info@brightree.com
Web: www.brightree.com
Twitter: @Brightree

*Products:*
**O&P Service Providers**
Computer & Software Systems

**BSN Medical** .................................................. 957
5825 Carnegie Blvd
Charlotte, NC 28203
Phone: 704/554-9933
Fax: 704/551-7189
Email: tom.darcey@bsnmedical.com
Web: www.bsnmedical.com

*Products:*
**Lab & Clinical Supply Items**
Casting & Impression Supplies

**Orthotic**
Soft Goods/Ready-to-Fit Orthoses
Soft Goods/Ready-to-Fit Orthoses: Compression
Soft Goods/Ready-to-Fit Orthoses: Lower Limb
Soft Goods/Ready-to-Fit Orthoses: Orthotic Socks

**Prosthetic**
Socks
Bulldog Tools Inc. ............... 332
4140 US Rt 40 E
Lewisburg, OH 45338-9506
Phone: 877/962-0205
Fax: 937/962-4160
Email: rmeyer@bulldogtools.com
Web: www.bulldogtools.com

Products:
Lab & Clinical Supply Items
Misc. Fabrication Materials & Supplies
Plastics
Prosthetic—Multiple Categories
Prosthetic
Prosthetic—Multiple Categories
Specialty Products: Ferrier Coupling, etc.
Suspension Products & Systems

Cailor Fleming Insurance .... 1232
4610 Market St
PO Box 3989
Youngstown, OH 44513
Phone: 330/782-8068
Fax: 330/782-0874
Email: dfoley@cailorfleming.com
Web: www.cailorfleming.com

Products:
O&P Service Providers
Insurance
O&P Consulting

+ Cascade Orthopedic Supply Inc. ............... 1137
2638 Aztec Dr
800/888-0865
Chico, CA 95928
Phone: 800/888-0865
Fax: 800/847-9180
Email: sales@cascade-usa.com
Web: www.cascade-usa.com
Twitter: @cascadeortho

Products:
Lab & Clinical Supply Items
Lab & Clinic Supply Items—Multiple Categories
Lab Equipment
Lab Equipment—Multiple Categories
O&P Service Providers
O&P Service Providers—Multiple Categories
Orthotic
Orthotic—Multiple Categories
Pedorthic
Pedorthic—Multiple Categories
Prosthetic
Prosthetic—Multiple Categories

CBS Medical Billing & Consulting LLC ............... 850
19 Hampton Road
Building B Unit 14
Exeter, NH 03833
Phone: 603/601-2936
Email: erin@cbsmedicalbilling.com
Web: www.cbsmedicalbilling.com

Products:
O&P Service Providers
O&P Consulting

• CENTRO PROTESI INAIL ........... 761
Via Rabuina 14
Budrio, BO 40054
Italy
Phone: +39 054/6936111
Email: centroprotesi-budrio@inail.it
Web: www.inail.it/centroprotesi

Products:
Central Fabrication
Orthotics: Lower Limb
Orthotic
Orthotic—Multiple Categories
Pediatric Orthoses
Pedorthic
Foot Care: Insoles
Pedorthic—Multiple Categories

+ Cascade Dafo Inc. ............... 644
1360 Sunset Ave
Ferndale, WA 98248
Phone: 800/848-7332
Fax: 360/384-4668
Email: bized@dafo.com
Web: www.cascadedafo.com

Products:
Central Fabrication
Orthotics: Lower Limb
Orthotic
Orthotic—Multiple Categories
Pediatric Orthoses
Pedorthic
Foot Care: Insoles
Pedorthic—Multiple Categories
<table>
<thead>
<tr>
<th>Company Name</th>
<th>Booth Number</th>
<th>Address Details</th>
<th>Phone Numbers</th>
<th>Email Addresses</th>
<th>Website Addresses</th>
<th>Products</th>
</tr>
</thead>
<tbody>
<tr>
<td>Charcot Marie Tooth Association</td>
<td>344</td>
<td>PO Box 105, Glenolden, PA 19036</td>
<td>610/499-9264</td>
<td><a href="mailto:info@cmtausa.org">info@cmtausa.org</a></td>
<td><a href="http://www.cmtausa.org">www.cmtausa.org</a></td>
<td>Central Fabrication: Prosthetics: Lower Limb Prosthetics: Upper Limb Orthotic: Orthotic—Multiple Categories Prosthetic Components: Upper Limb Components</td>
</tr>
<tr>
<td>Click Medical</td>
<td>1147</td>
<td>404 Oak St, Ste 101, Steamboat Springs, CO 80487</td>
<td>706/714-6500</td>
<td><a href="mailto:info@clickmedical.co">info@clickmedical.co</a></td>
<td>clickmedical.co</td>
<td>Central Fabrication: Prosthetics: Lower Limb Prosthetics: Upper Limb Orthotic</td>
</tr>
<tr>
<td>Clinical Education Concepts</td>
<td>349</td>
<td>221 Fox Hill Drive, Baiting Hollow, NY 11933</td>
<td>631/780-4232 631/910-2027</td>
<td><a href="mailto:tmcgovern@cecpo.com">tmcgovern@cecpo.com</a></td>
<td><a href="http://www.cecpo.com">www.cecpo.com</a></td>
<td>Orthotic: Orthotic—Multiple Categories Orthotic Components Prosthetic: Prosthetic—Multiple Categories Suspension Products &amp; Systems</td>
</tr>
<tr>
<td>Coapt LLC</td>
<td>449</td>
<td>222 W Ontario St, Ste 300, Chicago, IL 60654</td>
<td>844/262-7800 844/262-7800</td>
<td><a href="mailto:info@coaptengineering.com">info@coaptengineering.com</a></td>
<td><a href="http://www.coaptengineering.com">www.coaptengineering.com</a></td>
<td>Prosthetic: Electronic Components: Upper Limb Prosthetic: Multiple Categories Prosthetic Components: Upper Limb Components</td>
</tr>
<tr>
<td>Confairmed-Gesellschaft für Congressmanagement mbH</td>
<td>960</td>
<td>Reinoldistraße 7-9, Dortmund, 44135, Germany</td>
<td>+49 231/55705080</td>
<td><a href="mailto:feldmann@confairmed.de">feldmann@confairmed.de</a></td>
<td><a href="http://www.confairmed.de">www.confairmed.de</a></td>
<td>O&amp;P Service Providers: O&amp;P Service Providers—Multiple Categories</td>
</tr>
</tbody>
</table>
**Coyote Design & Mfg Inc.** ........ 732
419 N Curtis Rd
Boise, ID 83706
Phone: 208/429-0026
Fax: 208/429-0028
Email: coyote@coyotedesign.com
Web: www.coyotedesign.com

**Products:**
- **Prosthetics**
  - Prosthetics—Multiple Categories
  - Lower Limb Endoskeletal Components
  - Pediatric Prostheses
  - Suspension Products & Systems
  - Lab & Clinic Supply Items
  - Lamination Suppliers
- **Central Fabrications**
  - Orthotics: Lower Limb

**Create O&P** .................. 1145
7 Old Military Rd
Lake Placid, NY 12946
Phone: 518/302-9198
Fax: 518/523-7192
Email: info@CreateOandP.com
Web: www.CreateOandP.com
Twitter: @CreateOandP

**Products:**
- **Central Fabrication**
  - Orthotics: Lower Limb
  - Prosthetics: Lower Limb
- **Lab Equipment**
  - CAD/CAM
- **Lab Equipment—Multiple Categories**
- **Miscellaneous**
  - 3D Printing
- **Prosthetic**
  - Aesthetic Prostheses Equipment & Materials

**Curbell Plastics, Inc.** ............... 554
1070 S Northpoint Blvd, Unit C
Waukegan, IL 60085
Phone: 800/666-0356
Fax: 847/662-9931
Email: marketing@curbellplastics.com
Web: www.curbellplastics.com/oandp

**Products:**
- **Lab & Clinical Supply Items**
  - Lamination Supplies
  - Misc. Fabrication Materials & Supplies
  - Plastics
  - Sheet Goods: Foams, Crepes, etc.
- **O&P Service Providers**
  - Broad Line O&P Distributors
- **Prosthetic**
  - Aesthetic Prostheses Equipment & Materials

**Cypress Adaptive, LLC** ............. 333
804 West Bartlett Rd
Bartlett, IL 60103
Phone: 888/715-8003
Fax: 888/715-4535
Email: info@cypressadaptive.com
Web: www.cypressadaptive.com

**Products:**
- **Lab Equipment**
  - Lab Equipment—Multiple Categories
- **Prosthetic**
  - Elevated Vacuum Socket Volume Management
  - Prosthetic—Multiple Categories
  - Suspension Products & Systems

**DARCO International** ............ 1254
810 Memorial Blvd
Huntington, WV 25701
Phone: 800/999-8866
Fax: 304/522-00347
Web: www.darcointernational.com

**Products:**
- **Orthotic**
  - Orthotic—Multiple Categories
- **Pedorthic**
  - Pedorthic—Multiple Categories
DAW Industries Inc. ............... 227
6610 Nancy Ridge Dr, Ste 100
San Diego, CA 92121
Phone: 800/252-2828
Fax: 858/457-5088
Email: info@daw-usa.com
Web: www.daw-usa.com
Products:
- Lab & Clinical Supply Items
- Prosthetic
  - Liners
  - Lower Limb Endoskeletal Components
  - Prosthetic—Multiple Categories
  - Protective Skin Covering
  - Socks

DJO Global ....................... 440
1430 Decision St
Vista, CA 92081
Phone: 800/321-9549
Fax: 800/419-9477
Email: chris.behm@djoglobal.com
Web: www.djoglobal.com
Products:
- Orthotic
  - Soft Goods/Ready-to-Fit Orthoses: Compression
  - Soft Goods/Ready-to-Fit Orthoses: Orthotic Socks
- Pedorthic
  - Foot Care: Extra-Depth Footwear
  - Foot Care: Insoles
  - Foot Care: Other Foot Care
  - Pedorthic—Multiple Categories

DME MAC Medicare Contractors .................... 637
Two Vantage Way
Nashville, TN 37228
Phone: 615/509-8533
Web: www.cgsmedicare.com
Product:
- O&P Distributors & Service Providers
  - Insurance

Drew Shoe Corp .................. 1334
252 Quarry Rd
Lancaster, OH
Phone: 740/653-4271
Fax: 740/654-4979
Email: customerservice@drewshoe.com
Web: www.drewshoe.com
Products:
- Pedorthic
  - Foot Care: Extra-Depth Footwear
  - Pedorthic—Multiple Categories

Endolite ............................ 815
1031 Byers Rd
Miamisburg, OH 45342
Phone: 800/548-3534
Fax: 800/929-3636
Email: info@endolite.com
Web: www.endolite.com
Twitter: @endoliteus
Products:
- Prosthetic
  - Electronic Components: Lower Limb
  - Elevated Vacuum Socket Volume Management
  - Feet
  - Liners
  - Pediatric Prostheses
  - Prosthetic—Multiple Categories

Engineered Silicone Products LLC .................. 549
75 Mill St, Ste 2
Newton, NJ 07860
Phone: 973/300-5120
Fax: 973/300-5125
Email: michael@wearesp.com
Web: www.wearesp.com
Products:
- Lab & Clinical Supply Items
  - Adhesives
- Prosthetic
  - Liners
  - Prosthetic—Multiple Categories
  - Suspension Products & Systems
  - Upper Limb Components
Epica Applied Technologies .................. 1249
2753 Camino Capistrano, Ste A101
San Clemente, CA 92672
Phone: 949/238-6323
Fax: 949/238-6322
Email: j.sherlock@epicamed.com
Web: www.epicatech.com
Products:
Central Fabrication
Orthotics: Cranial
Orthotics: Lower Limb
Orthotics: Spinal
Prosthetics: Upper Limb
Lab Equipment
Lab Equipment—Multiple Categories
Miscellaneous
Seating Systems

• Expo Enterprise Inc. ................... 657, 1111, 1342
3560 Polaris Ave, #27
Las Vegas, NV 89103
Phone: 702/272-2666
Fax: 702/272-2610
Email: expo89102@yahoo.com
Web: www.nano-ions.com
Products:
O&P Distributors & Service Providers
Computer & Software Systems
Pedorthic
Foot Care: Other Foot Care
Miscellaneous
Patient Aids

Fabtech Systems LLC .............. 855
PO Box 2248
Everett, WA 98213
Phone: 425/349-9557
Fax: 425/349-9559
Email: staff@fabtechsystems.com
Web: www.fabtechsystems.com
Products:
Central Fabrication
Orthotics: Lower Limb
Prosthetics: Lower Limb
Lab & Clinical Supply Items
Adhesives
Lamination Supplies
Misc. Fabrication Materials & Supplies
Orthotic
Specialty Products

Fillauer ................................. 1115
2710 Amnicola Hwy
Chattanooga, TN 37406
Phone: 423/624-0946
Fax: 423/629-7936
Email: customerservice@fillauer.com
Web: www.fillauer.com
Twitter: @FillauerCo
Products:
Lab Equipment
Lab Equipment—Multiple Categories
Ovens
Orthotic
Orthotic Components: Joints
Prosthetic
Electronic Components: Upper Limb
Feet
Upper Limb Components

FLO-TECH® Orthotic & Prosthetic Systems Inc. ........ 413
7325 Halseyville Rd
PO Box 462
Trumansburg, NY 14886-0462
Phone: 800/356-8324
Fax: 607/387-3176
Email: kathy@1800flo-tech.com
Web: www.1800flo-tech.com
Products:
Prosthetic
Post-Operative Prostheses
Prosthetic—Multiple Categories
Socks
Suspension Products & Systems

Freedom Innovations LLC ...... 825
3 Morgan
Irvine, CA 92618
Phone: 888/818-6777
Fax: 949/672-0084
Email: marketing@freedom-innovations.com
Web: www.freedom-innovations.com
Twitter: @freedominnovate
Products:
Central Fabrication
Prosthetics: Lower Limb
Prosthetic
Electronic Components: Lower Limb
Feet
Pediatric Prostheses
Post-Operative Prostheses
Prosthetic—Multiple Categories
Friddle’s Orthopedic Appliances Inc. .................. 435
12306 Belton Honea Path Hwy
PO Box 207
Honea Path, SC 29654-9528
Phone: 864/369-2328
Fax: 864/369-1149
Email: info@friddles.com
Web: www.friddles.com

Products:
Lab & Clinical Supply Items
O&P Service Providers
O&P Service Providers—Multiple Categories

Friends Surgicals .................. 561
RZ-21,Guru Harkishan Nagar
Uttam Nagar
New Delhi, Delhi 110059
India
Phone: +91 9810772223
Email: friendssurgicals@gmail.com
Web: www.friendssurgicals.org

Products:
Central Fabrication
Orthotic: Lower Limb
Miscellaneous
Patient Aids
O&P Service Providers
O&P Service Providers
Orthotic
Orthotic—Multiple Categories
Pedorthic
Foot Care: Insoles
Prosthetic
Prosthetic—Multiple Categories

G&I Innovation .................. 1157
4260 Cameron St
Las Vegas, NV 89103
Phone: 702/987-1351
Fax: 702/898-0131
Email: danielle@brlvllc.com
Web: www.zerogravity.com

Products:
Miscellaneous
Patient Supply Items

Globo-SA Inc. .................. 341
6019 W Dewey Dr
Las Vegas, NV 89118
Phone: 702/429-9108
Web: www.globosainc.com

Products:
Lab Equipment
Lab Equipment—Multiple Categories

Grace Prosthetic Fabrication Inc. .................. 233
7928 Rutilio Ct
New Port Richey, FL 34653-1103
Phone: 800/940-5347
Fax: 727/842-2264
Email: grace@gpfinc.com
Web: www.gpfinc.com

Products:
Central Fabrication
Orthotic: Lower Limb
Prosthetic: Lower Limb
Lab Equipment
CAD/CAM
Prosthetic
Lower Limb Endoskeletal Components
Prosthetic—Multiple Categories
Protective Skin Covering

Guangzhou Kang Mei Te Prostheses Co., Ltd. .................. 762
No. 38, F1, Bldg 8, Gongyedadao, Zhong Quan Tang Road
Guangzhou, 510280
CHINA
Phone: +86 20/8900-9867
Email: lichw56@163.com
Web: www.kmtjz.com

Products:
Orthotic
Orthotic—Multiple Categories
Orthotic Components
Soft Goods/Ready-to-Fit Orthoses: Spinal
Pedorthic
Pedorthic—Multiple Categories
Hangzhou Kebo Orthopaedic Rehabilitation Equipment Ltd. .......... 663
No.8 Houshan Road, Wuchang
Hangzhou, 310000
China
Phone: +86 57/1852-42297
Fax: +86 57/1852-42297
Email: admin@hzkebo.net
Web: www.hzkebo.com.cn

**Products:**
**Orthotic**
Knee Orthoses
Orthotic—Multiple Categories
Orthotic Components
Pediatric Orthoses
Spinal Orthoses
Upper Limb Orthoses

iFit Prosthetics LLC ............... 736
N27 W23655 Paul Rd
Pewaukee, WI 53072
Phone: 414/333-1658
Email: info@ifitprosthetics.com
Web: www.ifitprosthetics.com

**Products:**
**Central Fabrication**
Prosthetics: Lower Limb
**Prosthetic**
Lower Limb Endoskeletal Components
Post-Operative Prostheses
Prosthetic—Multiple Categories
Protective Skin Covering
Shrinkers

Infinite Biomedical Technologies ............... 856
1101 E 33rd St, Ste E305
Baltimore, MD 21218
Phone: 443/451-7175
Fax: 443/451-7179
Email: dan@i-biomed.com
Web: www.i-biomed.com
Twitter: @infiniteBiomed

**Products:**
**Central Fabrication**
Prosthetics: Upper Limb
**Prosthetic**
Aesthetic Prostheses Equipment & Materials
Electronic Components: Upper Limb
Pediatric Prostheses
Post-Operative Prostheses
Upper Limb Components

Integrum Inc. .................. 913
100 Montgomery St, Ste 1780
San Francisco, CA 94104
Phone: 650/867-4487
Email: info@integrum.se
Web: www.integrum.se

**Products:**
**Miscellaneous**
Patient Aids
**Prosthetic**
Lower Limb Endoskeletal Components
Prosthetic—Multiple Categories
Specialty Products: Ferrier Coupling, etc.

Jiangsu Reak Healthy Articles Co. Ltd. .............. 951
No. 1 Jiangzhou Square
Yangzhong, Jiaagnsu 212200
China
Phone: +86 511/8515-5898
Fax: +86 511/8515-5998
Email: info@cnreak.com
Web: www.recohealth.com

**Products:**
**Orthotic**
Soft Goods/Ready-to-Fit Orthoses: Spinal
Upper Limb Orthoses
Soft Goods/Ready-to-Fit Orthoses: Lower Limb
Soft Goods/Ready-to-Fit Orthoses: Compression Products
Soft Goods/Ready-to-Fit Orthoses: Cervical
Soft Goods/Ready-to-Fit Orthoses

Kevin Orthopedic ............... 313
2022 Broadway, Ste A
Santa Monica, CA 90404
Phone: 877/767-3338
Fax: 866/919-9268
Email: kevinrx@footinmotion.com
Web: www.kevinorthopedic.com
Twitter: @footrx

**Products:**
**Orthotic**
Orthotic- Multiple Categories
Kinetic Research Inc. .......... 849
5513 West Sligh Ave
Tampa, FL 33634
Phone: 800/919-3668
Fax: 888/484-5927
Email: email@kineticr.com
Web: www.KineticResearch.com
Products:
Orthotic
Orthotics—Multiple Categories
Prosthetic
Prosthetic—Multiple Categories

Kingsley Mfg. Co. .......... 1057
1984 Placentia Ave
PO Box 5010
Costa Mesa, CA 92628-5010
Phone: 949/645-4401
Fax: 949/646-0805
Email: info@kingsleymfg.com
Web: www.kingsleymfg.com
Products:
Lab & Clinical Supply Items
Misc. Fabrication Materials & Supplies
Prosthetic
Feet
Protective Skin Covering

KISS Technologies LLC .......... 542
11447 Cronhill Dr, Ste G
Owings Mills, MD 21117
Phone: 410/663-5477
Fax: 410/946-6212
Email: ann@kiss-suspension.com
Web: www.kiss-suspension.com
Products:
Prosthetic
Feet
Suspension Products & Systems

Kiwi Orthotic Services .......... 562
13465 King George Blvd
Surrey, BC V3T 2T8
Canada
Phone: 604/771-1906
Email: dlacroix@kiwiorthoticservices.com
Web: www.kiwiorthoticservices.com
Products:
Orthotic
Orthotic—Multiple Categories
Pedorthic
Pedorthic—Multiple Categories

Kleiber Bionics LLC .......... 455
Malevicha 1, Ter. Skolkovo
Moscow, 143026
Russia
Phone: +007 926/374-1174
Email: ik@kleiberbionics.org
Web: www.kleiberbionics.org
Products:
Central Fabrication
Prosthetics: Upper Limb
Prosthetic
Electronic Components: Upper Limb
Protective Skin Covering
Upper Limb Components

KLM Laboratories .......... 412
28280 Alta Vista Ave
Valencia, CA 91355
Phone: 800/556-3668
Fax: 800/556-3338
Email: cservice@klmlabs.com
Web: www.klmlabs.com
Products:
Orthotic
Orthotic—Multiple Categories

Knit-Rite Inc. ................. 727
120 Osage Ave
Kansas City, MO 66105
Phone: 913/281-4600
Fax: 913/281-5455
Email: info@knitrite.com
Web: www.knitrite.com
Products:
Lab & Clinical Supply Items
Misc. Fabrication Materials & Supplies
Orthotic
Soft Goods/Ready-to-Fit Orthoses: Compression
Soft Goods/Ready-to-Fit Orthoses: Orthotic Socks
Prosthetic
Shrinkers
Socks
Suspension Products & Systems
Landis International ..........755
800 Rossiter St
St-Jean-sur-Richelieu, QC J3B 8J1
Canada
Phone: 800/634-0806
Fax: 450/359-9619
Email: info@landisinternational.ca
Web: www.landisusa.com
Products:
Lab Equipment
Hand & Bench Tools
Lab Equipment
Ovens
Sanding & Finishing
Sewing Equipment
Vacuum Equipment

LegWorks .......................546
307 South Van Ness Ave
408/692-5633
San Francisco, CA 94103
Phone: 408/692-5633
Email: brandon@legworks.com
Web: www.LegWorks.com
Products:
Prosthetic
Lower Limb Endoskeletal Components
Pediatric Prostheses
Prosthetic—Multiple Categories

LIM Innovations .................648
324 Divisadero St
San Francisco, CA 94117
Phone: 415/568-7730
Email: info@LIMInnovations.com
Web: www.liminnovations.com
Products:
Prosthetic
Post-Operative Prostheses
Prosthetic—Multiple Categories

LimbTex Ltd .......................763
Units 1-3 Elizabeth Business Park
Leicester, LE18 4AE
UK
Phone: +44 0116/278-5440
Fax: +44 0116/278-0227
Email: info@limbtex.com
Web: www.limbtex.com
Products:
Lab & Clinical Supply Items
Finishing
Lab & Clinic Supply Items
Lamination Supplies
Misc. Fabrication Materials & Supplies
Plastics
Sheet Goods: Foams, Crepes, etc.

Mac Dowell Silicones SRL ..........860
Via Ugo Braschi, 21/A
47822 Santarcangelo di Romagna RN
Italy
Phone: +39 0541/62 36 40
Fax: +39 0541/32 97 65
Email: direzione@macdowell.it
Web: www.macdowell.it
Products:
Central Fabrication
Prosthetics: Upper Limb
Prosthetic
Aesthetic Prostheses Equipment & Materials
Prosthetic—Multiple Categories
Upper Limb Components

Makstrides Prosthetics ...........946
3221 Tower Rd
Prescott, AZ 86305
Phone: 661/325-3338
Fax: 661/864-7512
Email: service@makstride.com
Web: www.makstridesprosthetics.com
Products:
Prosthetic
Aesthetic Prostheses Equipment & Materials
Feet
Prosthetic—Multiple Categories
Martin Bionics Innovations .......................... 355
814 W Sheridan Ave, Ste D
Oklahoma City, OK 73101
Phone: 844/624-6642
Email: info@martinbionics.com
Web: www.martinbionics.com
Products:
Prosthetic
Electronic Components: Lower Limb
Lower Limb Endoskeletal Components
Prosthetic—Multiple Categories
Suspension Products & Systems
Upper Limb Components

Mary Free Bed Orthotics & Prosthetics ............................. 633
235 Wealthy St SE, Ste 1100
Grand Rapids, MI 49503
Phone: 616/840-8000
Fax: 616/840-9641
Email: kevin.duffy@maryfreebed.com
Web: www.maryfreebed.com
Twitter: @mfbr rehab
Products:
Orthotic
Orthotic—Multiple Categories
Pedorthic
Pedorthic—Multiple Categories
Prosthetic
Prosthetic—Multiple Categories

MD Orthopaedics Inc. ........... 1235
604 N Pkwy St
Wayland, IA 52654
Phone: 319/256-5656
Fax: 319/256-2501
Email: info@mdorthopaedics.com
Web: www.mdorthopaedics.com
Products:
Orthotic
Pediatric Orthoses

Med Spec ASO (EVO) ....................... 847
4600-K Lebanon Rd
Charlotte, NC 28227
Phone: 704/573-4040
Fax: 704/573-4047
Email: request@medspec.com
Web: www.medspec.com
Products:
Orthotic
Knee Orthoses
Soft Goods/Ready-to-Fit Orthoses
Soft Goods/Ready-to-Fit Orthoses: Lower Limb
Soft Goods/Ready-to-Fit Orthoses: Spinal
Soft Goods/Ready-to-Fit Orthoses: Upper Limb
Upper Limb Orthoses

Medex International Inc. ...... 1051
2720 Duval Rd
Burtonsville, MD 20866
Phone: 301/657-2681
Fax: 301/657-2796
Email: info@medexinternational.com
Web: medexinternational.com
Products:
Prosthetic
Lower Limb Endoskeletal Components
Pediatric Prostheses
Specialty Products: Ferrier Coupling, etc.
Suspension Products & Systems

Medi USA............................... 545
6481 Franz Warner Pkwy
Whitsett, NC 27377
Phone: 336/449-4440
Fax: 336/446-1617
Email: info@mediusa.com
Web: www.mediusa.com
Products:
Orthotic
Orthotic—Multiple Categories
Soft Goods/Ready-to-Fit Orthoses
Soft Goods/Ready-to-Fit Orthoses: Compression
Spinal Orthoses
Pedorthic
Foot Care: Insoles
Prosthetic
Shrinkers
Metiz Group .......................... 862
Kolontsova, 5
Mytishchi, 141009
Russia
Phone: +7 495/648-1243
Fax: +7 495/648-1243
Email: info@metiz-ltd.ru
Web: www.metiz-ltd.ru

Products:
Prosthetic
Aesthetic Prostheses Equipment & Materials
Feet
Lower Limb Endoskeletal Components
Prosthetic—Multiple Categories

Mile High Orthotics Lab Inc. .......................... 312
4970 Monaco St
Commerce City, CO 80022
Phone: 303/289-1534
Fax: 303/288-1534
Email: info@mholabs.com
Web: www.mholabs.com

Products:
Central Fabrication
Orthotics: Lower Limb
Orthotic
Orthotic—Multiple Categories
Pedorthic
Foot Care: Custom Footwear
Foot Care: Insoles
Foot Care: Other Foot Care
Pedorthic—Multiple Categories

Mobius Bionics LLC ................. 346
470 Commercial St.
Manchester, NH 03101
Phone: 603/239-3834
Email: info@mobiusbionics.com
Web: www.mobiusbionics.com
Twitter: @MobiusBionics

Products:
Prosthetic
Prosthetic—Multiple Categories
Electronic Components: Upper Limb

Monetek LLC ............................. 446
1145 West Long Lake Rd, Ste 200
Bloomfield Hills, MI 48302
Phone: 248/647-2299
Fax: 248/647-4433
Email: jrn@monetek.com
Web: www.monetek.com

Products:
O&P Service Providers
O&P Consulting

Myomo ........................................ 1012
One Broadway, 14th Floor
Cambridge, MA 02142
Phone: 617/861-4191
Fax: 617/886-0333
Email: info@myomo.com
Web: www.myomo.com

Products:
Orthotic
Orthotic—Multiple Categories

Nabtesco & Proteor in USA ......................... 1045
S81 W18475 Gemini Dr
Muskego, WI 53150
Phone: 855/517-4414
Email: info@nabtesco-proteor-usa.com
Web: www.proteor.com

Products:
Lab & Clinical Supply Items
Misc. Fabrication Materials & Supplies
Orthotic
Orthotic—Multiple Categories
Prosthetic
Electronic Components: Lower Limb
Feet
Lower Limb Endoskeletal Components
Prosthetic—Multiple Categories
Naked Prosthetics .................. 447
614 4th Ave E
Olympia, WA 98501
Phone: 888/977-6693
Fax: 888/977-6693
Email: dulcey@npdevices.com
Web: www.npdevices.com
Twitter: @npdevices.com
Products:
Prosthetic
Prosthetic—Multiple Categories

National Commission on O&P Education ............... 340
330 John Carlyle St, Ste 200
Alexandria, VA 22314
Phone: 703/836-7114
Fax: 703/836-0838
Email: info@ncope.org
Web: www.ncope.org
Twitter: @ncopeop

New Options Sports .......... 1250
1850 Diplomat Dr, Ste 100
Farmer’s Branch, TX 75234
Phone: 800/872-5488
Fax: 800/455-5488
Email: orders@newoptionssports.com
Web: www.newoptionssports.com
Products:
Orthotic
Knee Orthoses
Orthotic—Multiple Categories
Pediatric Orthoses
Soft Goods/Ready-to-Fit Orthoses
Prosthetic
Specialty Products: Ferrier Coupling, etc.

New Step Orthotic Lab Inc..... 751
PO Box 669
Maryville, IL 62062
Phone: 866/798-7463
Fax: 618/205-3461
Email: winston@nsolinc.com
Web: www.newsteporthotics.com
Products:
Lab & Clinical Supply Items
Casting & Impression Supplies
Orthotic
Orthotic—Multiple Categories
Pedorthic
Foot Care: Insoles
Pedorthic—Multiple Categories

Ningbo Yinzhou Yide Medical Devices Co., Ltd. ............... 1013
Gao Yang Road
Ningbo, 315195
China
Phone: +86 574/880-73689
Fax: +86 574/880-73689
Email: zjkhmj@163.com
Products:
Orthotic
Cervical Orthoses
Orthotic—Multiple Categories
Orthotic Components
Soft Goods/Ready-to-Fit Orthoses: Spinal
Spinal Orthoses

nora systems Inc. .......... 654
9 Northeastern Blvd
Salem, NH 03079
Phone: 496/201-8077
Fax: 603/894-6615
Email: info-shoe@nora.com
Web: www.nora-shoe.com
Products:
Lab & Clinical Supply Items
Misc. Fabrication Materials & Supplies

Nymbl Systems .......... 854
201 E Jefferson St, Ste 315E
Louisville, KY 40202
Phone: 859/333-7590
Email: Josh@Nymbl.systems
Web: www.Nymbl.systems
Products:
O&P Service Providers
Computer & Software Systems
O&P Service Providers

O&P Almanac ................. 1256
330 John Carlyle St, Ste 200
Alexandria, VA 22314
Phone: 571/431-0876
Fax: 571/431-0899
Email: info@aopanet.org
Web: www.aopanet.org
Twitter: @AmericanOandP
**O&P EDGE** .......................... 641
11154 Huron St, Ste 104
Northglenn, CO 80234
Phone: 303/255-0843
Fax: 303/255-0844
Email: info@opedge.com
Web: www.opedge.com

*Products:*
O&P Service Providers
O&P Publications

**O&P News/SLACK Inc.** ............ 1346
6900 Grove Rd
Thorofare, NJ 08086-9447
Phone: 856/848-1000
Fax: 856/848-6091
Email: kschuitema@slackinc.com
Web: www.oandpnews.com

*Products:*
O&P Service Providers
O&P Publications

1393 Veterans Memorial Hwy
Happauge, NY 11788
Phone: 480/222-1580
Fax: 480/227-1599
Web: www.ohi.net

*Products:*
Orthotic
Orthotic—Multiple Categories
Pedorthic
Foot Care: Extra-Depth Footwear
Foot Care: Insoles
Pedorthic—Multiple Categories

**OP Solutions Inc.** .................. 550
12206 Bruce B. Downs Blvd, Ste 100
Tampa, FL 33612
Phone: 866/990-0888
Fax: 813/971-9300
Email: info@opsolutions.us
Web: www.OPSolutions.us

*Products:*
O&P Service Providers
Computer & Software Systems
O&P Consulting
O&P Service Providers
Orthotic
Orthotic—Multiple Categories
Prosthetic
Prosthetic—Multiple Categories

**OPAF & The First Clinics** ..... 1312
13303 Hunting Birds Lane
Charlotte, NC 28278
Phone: 980/819-9404
Fax: 704/973-9456
Email: robin@opafonline.org
Web: www.opfund.com

**OPIE Software** ...................... 1315
3870 NW 83rd St
Gainesville, FL 32606
Phone: 800/876-7740
Fax: 866/811-0480
Email: info@oandp.com
Web: www.opiesoftware.com
Twitter: @opiesoftware

*Products:*
O&P Service Providers
Buying Groups
Computer & Software Systems
O&P Consulting
OPTEC USA Inc. ................. 523
975 Progress Cir
Lawrenceville, GA 30043-4644
Phone: 888/982-8181
Fax: 770/513-4365
Email: sales@optecusa.com
Web: www.optecusa.com
Twitter: @OptecUSA
Products:
Central Fabrication
Orthotics: Spinal
Orthotic
Cervical Orthoses
Hip Orthoses
Knee Orthoses
Orthotic—Multiple Categories
Spinal Orthoses

Orfit Industries America........... 639
350 Jericho Tpk, Ste 302
Jericho, NY 11753
Phone: 516/935-8500
Fax: 516/935-8505
Email: sales-us@orfit.com
Web: www.orfit.com
Twitter: @orfit
Products:
Lab & Clinical Supply Items
Casting & Impression Supplies
Misc. Fabrication Materials & Supplies
Plastics
Orthotic
Orthotic—Multiple Categories
Prosthetic
Aesthetic Prostheses Equipment & Materials
Liners
Prosthetic—Multiple Categories

Original Bending Brace ............. 1011
3801 West Montague Ave
North Charleston, SC 29418
Phone: 843/884-2202
Fax: 843/884-1554
Email: nhardina@cbb.org
Web: www.originalbendingbrace.com
Products:
Orthotic
Orthotic—Multiple Categories
Pediatric Orthoses
Specialty Products
Spinal Orthoses

ORTEC............................... 662
68 Deoksang-ro, Sasang-gu
Busan, 46939
Korea
Phone: +82 70/5030-5888
Fax: +82 51/305-0897
Email: ortecbrace@hanmail.net
Web: www.ortec.co.kr
Products:
Orthotic
Cervical Orthoses
Knee Orthoses
Orthotic—Multiple Categories
Soft Goods/Ready-to-Fit Orthoses
Spinal Orthoses
Upper Limb Orthoses

ORTHO BALTIC...................... 861
Taikos Ave, 131 A
Kaunas, LT-51124
Lithuania
Phone: +370 37/473970
Fax: +370 37/473863
Email: info@orthobaltic.lt
Web: www.orthobaltic.eu
Products:
Central Fabrication
Orthotics: Lower Limb
Miscellaneous
3D Printing
Orthotic
Orthotic—Multiple Categories
Soft Goods/Ready-to-Fit Orthoses: Lower Limb
Pedorthic
Foot Care: Custom Footwear
Prosthetic
Aesthetic Prostheses Equipment & Materials
Orthomerica Products Inc. ..... 327
6333 N Orange Blossom Tri
Orlando, FL 32810
Phone: 800/446-6770
Fax: 407/290-2419
Email: custserv@orthomerica.com
Web: www.orthomerica.com
Products:
Orthotic
Hip Orthoses
Orthotic—Multiple Categories
Pediatric Orthoses
Spinal Orthoses
Upper Limb Orthoses
Prosthetic
Post-Operative Prostheses

Orthotic & Prosthetic Group of America (OPGA) ...... 733
1111 W San Marnan Dr
PO Box 1467
Waterloo, IA 50704-1467
Phone: 800/214-6742
Fax: 888/449-0610
Email: info@opga.com
Web: www.opga.com
Products:
O&P Service Providers
Buying Groups
Insurance
O&P Consulting
O&P Service Providers

Orthotics & Prosthetics One (O&P 1) .................. 741
527 Park Ln, Ste 200
Waterloo, IA 50702
Phone: 800/408-3598
Fax: 800/408-3595
Email: sclark@oandp1.com
Web: www.oandp1.com
Products:
Lab & Clinical Supply Items
Casting & Impression Supplies
Pedorthic
Foot Care: Insoles

Orthotics & Prosthetics Association of India ...................... 563
Vimhans Hospital, Nehru Negas
New Delhi, 110065
India
Phone: 011/298-30490
Email: presidentopai@gmail.com
Web: www.opai.org.in

Orthotics Prosthetics Canada (OPC) ....................... 461
202-300 March Rd
Ottawa, ON K2K 2E2
Canada
Phone: 613/595-1919
Fax: 613/595-1155
Email: info@opcanada.ca
Web: www.opcanada.ca
Twitter: @CanandaOPC

OrtoPed ULC ..................... 560
373 McCaffrey St
Montreal, QC H4T 1Z7
Canada
Phone: 800/363-8726
Fax: 514/342-7565
Email: info@ortoped.ca
Web: www.ortoped.ca
Twitter: @OrtoPedULC
Products:
Lab & Clinical Supply Items
Lab & Clinic Supply Items—Multiple Categories
Lab Equipment
Lab Equipment—Multiple Categories
O&P Service Providers
O&P Service Providers—Multiple Categories
Orthotic
Orthotic—Multiple Categories
Pedorthic
Pedorthic—Multiple Categories
Prosthetic
Prosthetic—Multiple Categories
Osseointegration Group of Australia ......................... 635
King George St, Ste 23A
McMahons Point, N Sydney 2060
Australia
Phone: 612/992-21108
Email: nick@osseointernational.com
Web: www.osseointegrationaustralia.com.au
Products:
Prosthetic
Lower Limb Endoskeletal Components
Prosthetic—Multiple Categories

OssKin Inc. .................. 645
2520 Blvd. St. Joseph Est
Montreal, QC H1Y 2A2
Canada
Phone: 514/245-3609
Web: www.osskin.com
Products:
Orthotic
Knee Orthoses
Orthotic—Multiple Categories

Össur Americas Inc. .......... 533
27051 Towne Centre Dr
Foothill Ranch, CA 92610
Phone: 949/382-3883
Fax: 800/831-3160
Web: www.ossurcorp
Products:
Orthotic
Hip Orthoses
Knee Orthoses
Orthotic—Multiple Categories
Prosthetic
Electronic Components: Lower Limb
Electronic Components: Upper Limb
Prosthetic—Multiple Categories

Otto Trading Inc. .................. 347
1921 Carnegie Ave, Suite C
Santa Ana, CA 92705
Phone: 714/540-5595
Email: ademkutlug@gmail.com
Web: www.unimedmassager.com

Ottobock ...................... 615
11501 Alterra Pkwy, Ste 600
Austin, TX 78758
Phone: 800/328-4058
Fax: 512/806-2153
Email: eorder@ottobockus.com
Web: www.ottobockus.com
Twitter: @ottobockus
Products:
Orthotic
Orthotic—Multiple Categories
Soft Goods/Ready-to-Fit Orthoses
Prosthetic
Lower Limb Endoskeletal Components
Prosthetic—Multiple Categories
Suspension Products & Systems
Upper Limb Components

Ottobock Reimbursement & Clinical Research ............ 410
11501 Alterra Parkway, Ste 600
Austin, TX 78758
Phone: 800/328-4058
Fax: 512/806-2153
Email: reimbursement911@ottobock.com
Web: www.ottobockus.com
Twitter: @ottobockus
Products:
O&P Distributors & Service Providers
O&P Consulting

P.W. Minor LLC ................. 740
3 Treadeasy Ave
Batavia, NY 14021-0071
Phone: 800/769-4667
Email: Brianb@pwminor.com
Web: www.pwminor.com
Twitter: @p.w.minor
Products:
Pedorthic
Pedorthic—Multiple Categories

www.opworldcongressusa.org  AOPA WORLD CONGRESS 2017
Paceline ..........................649
10737 Independence Pointe Parkway
Matthews, NC 28105
Phone: 800/443-1827
Fax: 704/282-9375
Email: info@paceline.com
Web: www.paceline.com

Products:
Lab & Clinical Supply Items
Lamination Supplies
Misc. Fabrication Materials & Supplies
Roll Goods: Webbing, Tubing, etc.
Orthotic
Soft Goods/Ready-to-FitOrthoses: Orthotic Socks
Prosthetic
Shrinkers
Socks

Pedorthic Foundation ..............343
N7540 Edgewater Dr
Beaver Dam, WI 53916
Phone: 920/356-1200
Email: jpm@me.com
Web: www.pedorthicfoundation.org

Products:
Pedorthic
Pedorthic—Multiple Categories

PEL .................................627
4666 Manufacturing Ave
Cleveland, OH 44135
Phone: 800/321-1264
Fax: 800/222-6176
Email: management@pelsupply.com
Web: www.pelservice.com

Products:
Lab & Clinical Supply Items
Lab & Clinic Supply Items—Multiple Categories
Lab Equipment
Lab Equipment—Multiple Categories
O&P Service Providers
Broad Line O&P Distributors
O&P Service Providers
Orthotic
Orthotic—Multiple Categories
Prosthetic
Prosthetic—Multiple Categories

Phoenix Molded Shoes Inserts and Braces ..........................1113
3743 Kenilworth Blvd
Sebring, FL 33870
Phone: 863/658-2616
Fax: 863/314-6573
Email: keithb@phoenixsib.com
Web: www.phoenixmolded.com

Products:
Central Fabrication
Orthotics: Lower Limb
Pedorthic
Foot Care: Custom Footwear
Foot Care: Insoles

Pine Tree Orthopedic Lab Inc. ..........738
175 Park St
Livermore Falls, ME 04254
Phone: 207/897-5558
Fax: 207/897-1117
Email: bmacdonald@pinetreeorthopedic.com
Web: www.pinetreeorthopedic.com

Products:
Central Fabrication
Orthotics: Lower Limb
Orthotic
Orthotic—Multiple Categories
Pedorthic
Foot Care: Custom Footwear

PLS - Pedorthic Lab Specialties ..........................351
21500 Osborne St
Canoga Park, CA 91304
Phone: 818/734-7080
Fax: 818/734-9040
Email: admin@pedorthiclabor.com
Web: pedorthiclabor.com

Products:
Lab & Clinical Supply Items
Misc. Fabrication Materials & Supplies
Orthotic
Orthotic—Multiple Categories
Private Funding for Prosthetic Devices ................................................. 954
583 Skippack Pike, Ste 500
Blue Ball, PA 19422
Phone: 800/331-4134
Fax: 215/628-2110
Email: info@josephromanolaw.com
Web: www.privatefundingforprosthetics.com

Products:
O&P Service Providers
Insurance
O&P Consulting
Orthotic
Orthotic—Multiple Categories
Spinal Orthoses
Prosthetic
Pediatric Prostheses
Prosthetic—Multiple Categories

Pro-Tech Orthopedics .......... 1244
95 Ryan Dr, Unit 8
Raynham, MA 02767
Phone: 866/819-1157
Fax: 508/821-9600
Email: mandersson@protech-intl.com
Web: www.protech-intl.com

Products:
Lab & Clinical Supply Items
Plastics
Orthotic
Orthotic—Multiple Categories
Soft Goods/Ready-to-Fit Orthoses: Compression
Spinal Orthoses
Upper Limb Orthoses

ProtoKinetics Gait Analysis Walkways .......... 1048
60 Garlor Dr
Havertown, PA 19083
Phone: 610/449-4879
Fax: 610/853-2925
Email: sales@protokinetics.com
Web: www.protokinetics.com

Products:
Lab Equipment
Patient Measuring Devices

ProtoOsthetics ...................... 555
617 4th St N, Ste 1
Fargo, ND 58102
Phone: 701/478-2001
Email: contact@protosthetics.com
Web: protosthetics.com
Twitter: @protostheticsLLC

Products:
Central Fabrication
Prosthetics: Lower Limb
Miscellaneous
3D Printing
Orthotic
Orthotic—Multiple Categories
Specialty Products
Prosthetic
Aesthetic Prostheses Equipment & Materials
Prosthetic—Multiple Categories

Renia GmbH .................. 656
Ostmerheimer Strasse 516
Cologne, D-51109
Germany
Phone: 011 +49 221/630799-0
Fax: 011 +49 221/630799-50
Email: info@renia.com
Web: www.renia.com

Products:
Lab & Clinical Supply Items
Adhesives
Casting & Impression Supplies

Restorative Care of America, Inc. (RCAI) .......... 1054
12221 33rd St N
St. Petersburg, FL 33716
Phone: 800/627-1595
Fax: 800/545-7938
Email: PURCH@RCAI.COM
Web: www.rcai.com

Products:
Orthotic
Hip Orthoses
Knee Orthoses
Orthotic—Multiple Categories
Pediatric Orthoses
Soft Goods/Ready-to-Fit Orthoses: Spinal
Specialty Products
EXHIBIT DIRECTORY

Rodin 4D ................................ 750
27 Allee Charles Darwin
Pessac, 33600
France
Phone: 003/305-5647
Email: info@rodin4d.com
Web: www.rodin4d.com

Products:
Lab Equipment
CAD/CAM
Miscellaneous
3D Printing
O&P Service Providers
Computer & Software Systems
O&P Service Providers

Royal Knit Inc. ..................... 744
26011 NE Colbern Rd
Lees Summit, MO 64086
Phone: 800/664-5648
Fax: 800/934-5648
Email: royalknitinc@yahoo.com
Web: www.royalknit.com

Products:
Orthotic
Orthotic—Multiple Categories
Soft Goods/Ready-to-Fit Orthoses
Soft Goods/Ready-to-Fit Orthoses: Spinal
Soft Goods/Ready-to-Fit Orthoses: Orthotic
Socks
Prosthetic
Prosthetic—Multiple Categories
Socks

RS Print .............................. 538
44650 Helm Ct
Plymouth, MI 48170
Phone: 405/406-1441
Email: blake.norquist@rsprint.com
Web: rsprint.com

Products:
Central Fabrication
Orthotics: Lower Limb
Miscellaneous
3D Printing
Orthotic
Orthotic—Multiple Categories
Pedorthic
Foot Care: Custom Footwear
Foot Care: Insoles

RUSH Foot ......................... 934
1236 West Southern Ave, Ste 101
Tempe, AZ 85282
Phone: 480/361-1714
Fax: 480/361-4526
Email: info@rushfoot.com
Web: www.rushfoot.com

Products:
Prosthetic
Feet
Prosthetic—Multiple Categories

Soletech Inc .................. 335
425 Washington St, Ste 4
Claremont, NH 03743
Phone: 877/625-9494
Fax: 603/542-8909
Email: tom@soletech.com
Web: www.soletech.com

Products:
Lab & Clinical Supply Items
Misc. Fabrication Materials & Supplies
Sheet Goods: Foams, Crepes, etc.
Pedorthic
Foot Care: Insoles

Spinal Technology, Inc. ... 1227
191 Mid Tech Dr
West Yarmouth, MA 02673
Phone: 800/253-7868
Fax: 888/775-0588
Email: info@spinaltech.com
Web: www.spinaltech.com

Products:
Orthotic
Orthotic—Multiple Categories
Pediatric Orthoses
Soft Goods/Ready-to-Fit Orthoses: Spinal
Spinal Orthoses
Prosthetic
Pediatric Prostheses
Prosthetic—Multiple Categories
**SPS** ........................................... 415
6025 Shiloh Rd, Ste A
Alpharetta, GA 30005-1706
Phone: 800/767-7776
Fax: 800/869-7776
Web: www.spsco.com
**Products:**
- Lab & Clinical Supply Items
- Misc. Fabrication Materials & Supplies
- **Miscellaneous**
  - Patient Aids
  - **Orthotic**
  - Orthotic—Multiple Categories
  - **Pedorthic**
  - Foot Care: Other Foot Care
  - **Prosthetic**
  - Prosthetic—Multiple Categories

**ST&G USA Corp.** ...................... 434
2691 Saturn St
Brea, CA 92821
Phone: 714/524-0663
Fax: 714/364-8113
Email: info@stngco.com
Web: www.stngco.com
**Products:**
- Lab & Clinical Supply Items
- Casting & Impression Supplies
- Misc. Fabrication Materials & Supplies
- **Orthotic**
  - Orthotic—Multiple Categories
- **Prosthetic**
  - Prosthetic—Multiple Categories

**STeeperUSA** ......................... 948
3619 Paesanos Pkwy
Shavano Center III, Ste 200
San Antonio, TX 78231
Phone: 210/481-4126
Fax: 210/481-4117
Email: inquiries@steeperusa.com
Web: www.steeperusa.com
**Products:**
- **Prosthetic**
  - Electronic Components: Upper Limb
  - Upper Limb Components

**Surestep** ..................... 1033
17530 Dugdale Dr
South Bend, IN 46635
Phone: 877/462-0711
Email: info@surestep.net
Web: www.surestep.net
Twitter: @surestep
**Products:**
- Central Fabrication
  - Orthotics: Lower Limb
- **Orthotic**
  - Knee Orthoses
  - Orthotic Components: Joints
  - Pediatric Orthoses
  - Spinal Orthoses
- **Pedorthic**
  - Foot Care: Extra-Depth Footwear

**Tamarack Habilitation Technologies Inc.** .......... 1133
1670 94th Ln NE
Blaine, MN 55449
Phone: 763/795-0057
Fax: 763/795-0058
Email: info@tamarackhti.com
Web: www.tamarackhti.com
Twitter: @tamarackhti
**Products:**
- Lab Equipment
  - Hand & Bench Tools
- **Miscellaneous**
  - Patient Aids
- **Orthotic**
  - Orthotic Components: Joints
  - Specialty Products
- **Pedorthic**
  - Foot Care: Other Foot Care
- **Prosthetic**
  - Socks
**TechMed 3D Inc.** 746
750 Chemin Olivier, Ste 101
Levis, QC G7A 2P7
Canada
Phone: 418/836-8100
Fax: 418/836-1589
Email: info@techmed3d.com
Web: www.techmed3d.com
Twitter: @techmed-3d

*Products:*
Lab Equipment
CAD/CAM

---

**Thermo-Ply Inc.** 448
11811 31st Court North
St. Petersburg, FL 33716
Phone: 813/606-4220
Fax: 813/606-4221
Email: sales@thermoplygel.com
Web: www.thermoplygel.com

*Products:*
Prosthetic
Liners
Suspension Products & Systems

---

**thyssenKrupp Engineered Plastics** 337
10 Corporate Dr
Auburn Hills, MI 48326
Phone: 877/246-7700
Web: www.onlineplastics.com
Twitter: @tkEngPlastics

*Products:*
Lab & Clinical Supply Items
Adhesives
Casting & Impression Supplies
Misc. Fabrication Materials & Supplies
Plastics
Sheet Goods: Foams, Crepes, etc.

**O&P Service Providers**
Broad Line O&P Distributors

---

**Tianjian Tairuibosi Medical Appliance Co., Ltd.** 764
No. 29 Wangqinzhuan, Jingbao
Beichen District
Tianjin, 300400
China
Phone: +86 20/266-62779
Email: a8jiaojian@163.com
Web: www.trbsorthosis.com

*Products:*
Orthotic
Orthotic—Multiple Categories
Orthotic Components
Soft Goods/Ready-to-Fit Orthoses: Spinal
Pedorthic
Pedorthic—Multiple Categories

---

**Tillges Technologies/TCOP** 933
1570 Beam Ave, Ste 100
Maplewood, MN 55109
Phone: 855/484-5832
Fax: 651/748-4574
Email: info@tillgestechnologies.com
Web: www.tillgestechnologies.com

*Products:*
Central Fabrication
Orthotics: Lower Limb
Prosthetics: Lower Limb
Orthotic
Orthotic—Multiple Categories
Specialty Products
Prosthetic
Prosthetic—Multiple Categories
Specialty Products: Ferrier Coupling, etc.

---

**Top Shelf Orthopedics** 1151
PO Box 149
Tracy, CA 95378-0149
Phone: 209/834-0149
Fax: 209/834-1158
Email: csindel@pacmedical.com
Web: www.pacmedical.com

*Products:*
Central Fabrication
Prosthetics: Lower Limb
Prosthetics: Upper Limb
Orthotic
Knee Orthoses
Orthotic—Multiple Categories
Soft Goods/Ready-to-Fit Orthoses
Prosthetic
Prosthetic—Multiple Categories
Townsend Design \
Thuasne
USA........................................1215
4615 Shepard St
Bakersfield, CA 93313
Phone: 661/837-1795
Fax: 661/837-0613
Email: townsend@townsenddesign.com
Web: www.townsenddesign.com

Products:
Orthotic
Cervical Orthoses
Knee Orthoses
Pediatric Orthoses
Soft Goods/Ready-to-Fit Orthoses
Specialty Products
Spinal Orthoses

TRS Inc. (Therapeutic Recreation Systems Inc.).....1350
3090 Sterling Cir, Studio A
Boulder, CO 80301-2338
Phone: 303/444-4720
Fax: 303/444-5372
Email: bob@trsprosthetics.com
Web: www.trsprosthetics.com

Products:
O&P Service Providers
O&P Consulting
Prosthetic
Pediatric Prostheses
Prosthetic—Multiple Categories
Socks
Upper Limb Components

Uniendo Fronteras/Uniting Frontiers ......................961
4892 Royal Cove Dr
Shelby Township, MI 48316
Phone: 248/266-6858
Web: www.uniendofronteras.org

University of Hartford MSPO Program ....................345
200 Bloomfield Ave, Ste 312
West Hartford, CT 06117
Phone: 860/768-4599
Email: felmlee@hartford.edu
Web: www.hartford.edu/tmspo

US Member Society—ISPO ............756
5613 Stockton Way
Dublin, OH 43016
Phone: 614/659-0197
Fax: 614/336-8596
Email: dfrabi@columbuss.rr.com
Web: www.usispo.org
Vorum ........................................... 943
8765 Ash St, Ste 6
Vancouver, BC V6P 6T3
Canada
Phone: 800/461-4353
Fax: 604/321-5345
Email: info@vorum.com
Web: www.vorum.com
Twitter: @VorumResearch
Products:
Lab Equipment
CAD/CAM
Miscellaneous
3D Printing
O&P Service Providers
Computer & Software Systems
O&P Consulting

VQ Orthocare ....................... 1411
18011 Mitchell St, Ste A
Irvine, CA 92614
Phone: 949/261-3814
Fax: 800/652-1128
Web: www.vqorthocare.com
Products:
Orthotic
Knee Orthoses
Orthotic—Multiple Categories
Soft Goods/Ready-to-Fit Orthoses
Soft Goods/Ready-to-Fit Orthoses: Cervical
Soft Goods/Ready-to-Fit Orthoses: Lower Limb
Soft Goods/Ready-to-Fit Orthoses: Spinal

WillowWood ......................... 1129
15441 Scioto Darby Rd
Mount Sterling, OH 43143
Phone: 740/869-3377
Fax: 740/869-4374
Email: info@owwwco.com
Web: www.willowwoodco.com
Products:
Central Fabrication
Prosthetics: Lower Limb
Lab Equipment
CAD/CAM
Prosthetic
Elevated Vacuum Socket Volume Management
Feet
Lower Limb Endoskeletal Components

Win Walker Prosthetics & Orthotics Co. Ltd. .............. 660
No. 149 Tongji North Road
Xiamen Fujian, 361100
China
Phone: +86 592/736-8585
Fax: +86 592/522-9285
Email: export@win-walker.com
Web: www.win-walker.com
Products:
Prosthetic
Feet
Prosthetic—Multiple Categories
Socks

Xiamen Kon Technology .......... 661
No. 1 Industrial Estate Hankou Chedai Town
Jinjiang City, Fujian 362200
China
Phone: +86 595/82995629
Fax: +86 595/85631611
Email: kon_9_kon@hotmail.com
Web: www.fjyi.com
Products:
Orthotics
Orthotic—Multiple Categories
why Allard USA continues to be the World Leader in the Carbon Fiber AFO market after 20 years visit: allardafo.com
Central Fabrication

Orthotics: Cranial
BioSculptor Corp. .................. 1055
Boston Orthotics & Prosthetics .... 339
Epica Applied Technologies ....... 1249

Orthotics: Lower Limb
AC Mould Engineering Limited .... 760
ACOR Orthopaedic Inc. ............ 557
Advanced O&P Solutions LLC .... 837
American Central Fabrication ...... 647
AMFIT Inc. ............................ 1041
Anatomical Concepts Inc. ....... 1247
Becker Orthopedic Appliance Co. 1025
Cascade Dafo Inc. .................... 644
Coyote Design & Mfg Inc. ....... 732
Create O&P ............................ 1145
Epica Applied Technologies ....... 1249
Fabtech Systems LLC ............. 855
Friends Surgicals .................... 561
Grace Prosthetic Fabrication Inc .... 233
Mile High Orthotics Lab Inc. .... 312
ORTHO BALTIC .................... 861
Phoenix Molded Shoes Inserts and Braces .................. 1113
Pine Tree Orthopedic Lab Inc. .... 738
RS Print ................................. 538
Surestep .................................. 1033
Tillges Technologies/TCOP ....... 933

Orthotics: Spinal
Advanced O&P Solutions LLC .... 837
BioSculptor Corp. .................. 1055
Boston Orthotics & Prosthetics .... 339
Bremer Group Company, The .... 949
Epica Applied Technologies ....... 1249
OPTEC USA, Inc. .................... 523

Prosthetics: Lower Limb
5280 Prosthetics/Adaptec ............ 655
Advanced O&P Solutions LLC .... 837
Alternative Prosthetic Services Inc. .... 754
American Central Fabrication ...... 647
Beijing Jingbo Prosthetics&Orthotics Technical Co., Ltd. .... 665
Beijing P&O Technique Center ...... 567
BioSculptor Corp. .................... 1055
CENTRO PROTESI INAIL .......... 761
Click Medical .......................... 1147
Create O&P ............................ 1145
Fabtech Systems LLC ............. 855
Freedom Innovations LLC .......... 825
Grace Prosthetic Fabrication Inc .... 233
iFit Prosthetics LLC ................. 736
Protosthetics .......................... 555
Tillges Technologies/TCOP ....... 933
Top Shelf Orthopedics ............. 1151
WillowWood ......................... 1129

Prosthetics: Upper Limb
Advanced O&P Solutions LLC .... 837
Alternative Prosthetic Services Inc. .... 754
American Central Fabrication ...... 647
Anatomi Metrix Inc. ................. 938
Beijing Jingbo Prosthetics &Orthotics Technical Co., Ltd. .... 665
Centro Protesi Inail ................. 761
Click Medical .......................... 1147
Epica Applied Technologies ....... 1249
Infinite Biomedical Technologies .... 856
Kleiber Bionics LLC ................. 455
Mac Dowell Silicones SRL .......... 860
Top Shelf Orthopedics ............. 1151
## Lab & Clinical Supply Items

### Adhesives
- Engineered Silicone Products LLC: 549
- Fabtech Systems LLC: 855
- Renia GmbH: 656
- thyssenKrupp Engineered Plastics: 337

### Casting & Impression Supplies
- AMFIT Inc.: 1041
- BSN Medical: 957
- New Step Orthotic Lab Inc.: 751
- Orfit Industries America: 639
- Orthotics & Prosthetics One (O&P 1): 741
- Renia GmbH: 656
- ST&G USA Corp.: 434
- thyssenKrupp Engineered Plastics: 337

### Finishing
- LimbTex Ltd: 763

### Lab & Clinic Supply Items – Multiple Categories
- Allard USA Inc.: 937
- Cascade Orthopedic Supply Inc.: 1137
- LimbTex Ltd.: 763
- OrtoPed ULC: 560
- PEL: 627

### Lamination Supplies
- ACOR Orthopaedic Inc.: 557
- Coyote Design & Mfg Inc.: 732
- Curbell Plastics Inc.: 554
- Fabtech Systems LLC: 855
- LimbTex Ltd.: 763
- Paceline: 649

### Misc. Fabrication Materials & Supplies
- American Prosthetic Components LLC: 534
- BioSculptor Corp.: 1055
- Bulldog Tools Inc.: 332
- Comfort Products Inc.: 839
- Curbell Plastics, Inc.: 554
- DAW Industries Inc.: 227
- Fabtech Systems LLC: 855
- Kingsley Mfg. Co.: 1057
- Knit-Rite Inc.: 727
- LimbTex Ltd.: 763
- Nabtesco & Proteor in USA: 1045
- nora systems Inc.: 654
- Orfit Industries America: 639
- Paceline: 649
- PLS - Pedorthic Lab Specialties: 351
- Soletech Inc: 335
- SPS: 415
- ST&G USA Corp.: 434
- thyssenKrupp Engineered Plastics: 337

### Plastics
- AC Mould Engineering Limited: 760
- Bulldog Tools Inc.: 332
- Curbell Plastics, Inc.: 554
- Friddle’s Orthopedic Appliances Inc.: 435
- LimbTex Ltd.: 763
- Orfit Industries America: 639
- Pro-Tech Orthopedics: 1244
- thyssenKrupp Engineered Plastics: 337

### Roll Goods: Webbing, Tubing, etc.
- Paceline: 649

### Sheet Goods: Foams, Crepes, etc.
- ACOR Orthopaedic Inc.: 557
- Curbell Plastics, Inc.: 554
- LimbTex Ltd.: 763
- Soletech Inc: 335
- thyssenKrupp Engineered Plastics: 337
## Lab Equipment

### CAD/CAM
- 5280 Prosthetics/Adaptec .................................. 655
- Adaptech ...................................................... 1154
- Advanced O&P Solutions LLC ......................... 837
- BioSculptor Corp. ........................................... 1055
- Create O&P ................................................... 1145
- Grace Prosthetic Fabrication Inc. ..................... 233
- Rodin 4D ....................................................... 750
- Standard Cyborg .......................................... 755
- TechMed 3D Inc. ............................................. 746
- Vorum ............................................................ 943
- WillowWood .................................................. 1129

### Hand & Bench Tools
- Adapttech ...................................................... 1154
- Landis International ........................................ 755
- Tamarack Habilitation Technologies Inc. ........... 1133

### Lab Equipment
- Anatomi Metrix Inc. ........................................ 938
- Becker Orthopedic Appliance Co. ..................... 1025
- Cascade Orthopedic Supply Inc. ....................... 1137
- Create O&P ................................................... 1145
- Cypress Adaptive, LLC .................................... 333
- Epica Applied Technologies ...................... 1249
- Fillauer ............................................................ 1115
- Globo-SA, Inc. ................................................. 341
- Landis International ........................................ 755
- OrtoPed ULC .................................................. 560
- PEL ................................................................. 627

### Ovens
- Fillauer ............................................................ 1115
- Landis International ........................................ 755

### Patient Measuring Devices
- Adapttech ...................................................... 1154
- AMFIT INC. .................................................... 1041
- Anatomi Metrix Inc. ......................................... 938
- ProtoKinetics Gait Analysis
  - Walkways .................................................... 1048
- Standard Cyborg ........................................... 755

## Sanding & Finishing
- Landis International ........................................ 755

## Sewing Equipment
- Landis International ........................................ 755

## Vacuum Equipment
- Landis International ........................................ 755

## Miscellaneous

### 3D Printing
- Adapttech ...................................................... 1154
- Create O&P ................................................... 1145
- ORTHO BALTIC ............................................... 861
- Protothetics ................................................... 555
- Rodin 4D ....................................................... 750
- RS Print .......................................................... 538
- Standard Cyborg .......................................... 755
- Vorum ............................................................ 943

### Patient Aids
- Expo Enterprise Inc. ............................... 657, 1111, 1342
- Friends Surgical .............................................. 561
- Integrum Inc. ................................................... 913
- SPS ................................................................. 415
- Tamarack Habilitation Technologies Inc. ........... 1133

### Patient Supply Items
- G&I Innovation ................................................. 1157
- TS Medical USA ............................................. 547

### Seating Systems
- Epica Applied Technologies ...................... 1249
O&P Service Providers

Broad Line O&P Distributors
Boston Orthotics & Prosthetics ..........339
Curbell Plastics Inc. ..................554
PEL .............................................627
thyssenKrupp Engineered Plastics ....337

Buying Groups
OPIE Software ................................1315
Orthotic & Prosthetic Group of
America (OPGA) ......................733

Computer & Software Systems
Adapttech ..................................1154
Anatomi Metrix Inc. .................938
Brightree LLC .........................734
Expo Enterprise Inc. .........657, 1111, 1342
Nymbl Systems .........................854
OP Solutions Inc. .......................550
OPIE Software .........................1315
Rodin 4D .................................750
Standard Cyborg .......................755
Vorum ........................................943

Insurance
AON Affinity ..........................1110
Cailor Fleming Insurance ........1232
DME MAC Medicare Contractors ....637
Orthotic & Prosthetic Group of
America (OPGA) ......................733
Private Funding for
Prosthetic Devices ...................954

O&P Consulting
Cailor Fleming Insurance ..........1232
CBS Medical Billing &
Consulting LLC ......................850
Clinical Education Concepts ........349
Monetek LLC ..........................446
OP Solutions Inc .......................550
OPIE Software .........................1315

Orthotic & Prosthetic Group of
America (OPGA) ......................733
Ottobock Reimbursement &
Clinical Research ..................410
Private Funding for Prosthetic
Devices ................................954
TRS Inc. (Therapeutic Recreation
Systems Inc.) .........................1350
Vorum ........................................943

O&P Publications
Amputee Coalition ....................1338
Confairmed-Gesellschaft für
Congressmanagement mbH ..........960
O&P Almanac ............................1256
O&P EDGE .................................641
O&P News/SLACK Inc .............1346

O&P Service Providers – Multiple
Categories
Cascade Orthopedic Supply Inc. ....1137
Clinical Education Concepts ........349
Confairmed-Gesellschaft für
Congressmanagement mbH ..........960
Friddle’s Orthopedic Appliances Inc. 435
Friends Surgical ......................561
Nymbl Systems .........................854
OP Solutions Inc .......................550
Orthotic & Prosthetic Group of
America (OPGA) ......................733
OrtoPed ULC ............................560
PEL .............................................627
Rodin 4D ...................................750
Orthotic

Cervical Orthoses
Aspen Medical Products..............1239
Ningbo Yinzhou Yide Medical
   Devices Co., Ltd......................1013
OPTEC USA, INC.......................523
ORTEC....................................662
Townsend Design \ Thuasne USA.....1215

Hip Orthoses
Allard USA Inc........................937
Breg.........................................842
OPTEC USA, INC.......................523
Orthomerica Products Inc...........327
Össur Americas Inc....................533
Restorative Care of America, Inc.
   (RCAI),...............................1054

Knee Orthoses
AC Mould Engineering Limited ......760
Allard USA Inc........................937
Anatomical Concepts Inc............1247
Aspen Medical Products..............1239
Breg.........................................842
Hangzhou Kebo Orthopaedic
   Rehabilitation Equipment Ltd.....663
Med Spec (ASO EVO)..................847
New Options Sports..................1250
OPTEC USA, INC.......................523
ORTEC....................................662
OssKin Inc................................645
Össur Americas Inc....................533
Restorative Care of America, Inc.
   (RCAI),...............................1054
Surestep..................................1033
Top Shelf Orthopedics...............1151
Townsend Design \ Thuasne USA.....1215
VQ Orthocare..........................1411

Orthotic – Multiple Categories

AC Mould Engineering Limited ......760
ACOR Orthopaedic Inc.................557
ALPS........................................315
AMFIT INC................................1041
Apis Footwear Co......................444
Aspen Medical Products..............1239
Becker Orthopedic Appliance Co....1025
Beijing Jingbo Prosthetics&Orthotics
   Technical Co., Ltd...............665
Bremer Group Company, The........949
Cascade Dafo Inc......................644
Cascade Orthopedic Supply Inc......1137
Click Medical..........................1147
DARCO International...............1254
Friends Surgical.......................561
Guangzhou Kang Mei Te
   Prostheses Co., Ltd...............762
Hangzhou Kebo Orthopaedic
   Rehabilitation Equipment Ltd.....663
Kevin Orthopedic......................313
Kinetic Research Inc................849
Kiwi Orthotic Services..............562
KLM Laboratories.......................412
Mary Free Bed Orthotics &
   Prosthetics..........................633
Medi USA................................545
Mile High Orthotics Lab Inc.........312
Myomo.....................................1012
Nabtesco & Proteor in USA...........1045
New Options Sports..................1250
New Step Orthotic Lab Inc..........751
Ningbo Yinzhou Yide Medical
   Devices Co., Ltd...............1013
OHI, The Family of Brands Including:
   Apex, Arizona AFO, Langer, PedAlign,
   Safestep and the Orthotic Group...813
OP Solutions Inc.......................550
OPTEC USA, INC.......................523
Orfit Industries America............639
Original Bending Brace...............1011
ORTEC....................................662
ORTHO BALTIC.........................861
Orthomerica Products Inc...........327
OrtoPed ULC............................560
<table>
<thead>
<tr>
<th>Company Name</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>OssKin Inc.</td>
<td>645</td>
</tr>
<tr>
<td>Össur Americas Inc.</td>
<td>533</td>
</tr>
<tr>
<td>Ottobock</td>
<td>615</td>
</tr>
<tr>
<td>PEL</td>
<td>627</td>
</tr>
<tr>
<td>Pine Tree Orthopedic Lab Inc.</td>
<td>738</td>
</tr>
<tr>
<td>PLS - Pedorthic Lab Specialties</td>
<td>351</td>
</tr>
<tr>
<td>Private Funding for Prosthetic Devices</td>
<td>954</td>
</tr>
<tr>
<td>Pro-Tech Orthopedics</td>
<td>1244</td>
</tr>
<tr>
<td>Prosthetics</td>
<td>555</td>
</tr>
<tr>
<td>Restorative Care of America, Inc.</td>
<td>1054</td>
</tr>
<tr>
<td>Royal Knit Inc.</td>
<td>744</td>
</tr>
<tr>
<td>RS Print</td>
<td>538</td>
</tr>
<tr>
<td>Spinal Technology Inc.</td>
<td>745</td>
</tr>
<tr>
<td>SPS</td>
<td>415</td>
</tr>
<tr>
<td>ST&amp;G USA Corp.</td>
<td>434</td>
</tr>
<tr>
<td>Standard Cyborg</td>
<td>755</td>
</tr>
<tr>
<td>Tianjian Tairuibosi Medical</td>
<td>764</td>
</tr>
<tr>
<td>Becker Orthopedic Appliance Co.</td>
<td>1025</td>
</tr>
<tr>
<td>Fillauer</td>
<td>1115</td>
</tr>
<tr>
<td>Surestep</td>
<td>1033</td>
</tr>
<tr>
<td>Tamarack Habilitation Technologies Inc.</td>
<td>1133</td>
</tr>
</tbody>
</table>

### Orthotic Components: Joints
- Becker Orthopedic Appliance Co. ...1025
- Fillauer ..................................................1115
- Surestep..................................................1033
- Tamarack Habilitation Technologies Inc. ........................................1133

### Pediatric Orthoses
- Allard USA Inc..................................................937
- Anatomical Concepts Inc.............................1247
- Becker Orthopedic Appliance Co. ....1025
- Bort-Swiss Orthopedic Supply .................955
- Boston Orthotics & Prosthetics ...............339
- Cascade Dafo Inc. ........................................644
- Hangzhou Kebo Orthopaedic Rehabilitation Equipment Ltd. 663
- MD Orthopaedics Inc........................................1235
- New Options Sports..............................1250
- Original Bending Brace.........................1011
- Orthomerica Products Inc......................327
- Restorative Care of America, Inc. (RCAI) ........................................1054
- Spinal Technology Inc.............................745
- Surestep..................................................1033
- Townsend Design \ Thuasne USA ..............1215

### Soft Goods/Ready-to-Fit Orthoses
- AC Mould Engineering Limited ..........760
- Allard USA Inc .................................................937
- Aspen Medical Products .......................1239
- BioSculptor Corp..................................1055
- Bort-Swiss Orthopedic Supply ...............955
- Breg.......................................................842
- BSN Medical..................................................957
- Jiangsu Reak Healthy Articles Co., Ltd...........................................951
- Med Spec (ASO EVO) .................................847
- Medi USA......................................................545
- New Options Sports .....................1250
- ORTEC ....................................................662
- Ottobock ..................................................615
- Royal Knit Inc.............................................744
- Top Shelf Orthopedics.......................1151
- Townsend Design \ Thuasne USA ..............1215
- VQ Orthocare ...........................................1411
### Soft Goods/Ready-to-Fit Orthoses: Cervical

Bort-Swiss Orthopedic Supply ........... 955  
Jiangsu Reak Healthy  
    Articles Co., Ltd......................... 951  
VQ Orthocare ................................ 1411

### Soft Goods/Ready-to-Fit Orthoses: Compression Products

BSN Medical........................................ 957  
Comfort Products Inc....................... 839  
DJO Global........................................ 440  
Jiangsu Reak Healthy  
    Articles Co., Ltd......................... 951  
Knit-Rite Inc.................................. 727  
Medi USA........................................... 545  
Pro-Tech Orthopedics....................... 1244

### Soft Goods/Ready-to-Fit Orthoses: Lower Limb

Anatomical Concepts Inc.................. 1247  
Bort-Swiss Orthopedic Supply ........... 955  
BSN Medical........................................ 957  
Jiangsu Reak Healthy  
    Articles Co., Ltd......................... 951  
Med Spec (ASO EVO).......................... 847  
ORTHOCALIC........................................ 861  
VQ Orthocare .................................. 1411

### Soft Goods/Ready-to-Fit Orthoses: Spinal Socks

BSN Medical........................................ 957  
Comfort Products Inc....................... 839  
DJO Global........................................ 440  
Knit-Rite Inc.................................. 727  
Paceline.......................................... 649  
Royal Knit Inc.................................. 744

### Specialty Products

Bioness............................................. 423  
Boston Orthotics & Prosthetics............ 339  
Fabtech Systems LLC......................... 855  
Original Bending Brace..................... 1011  
Prosthetics....................................... 555  
Restorative Care of America, Inc. (RCAI)........................................ 1054  
Tamarack Habilitation  
    Technologies Inc........................... 1133  
Tillges Technologies/TCOP................ 933  
Townsend Design \ Thuasne USA........... 1215

### Spinal Orthoses

Aspen Medical Products.................... 1239  
Boston Orthotics & Prosthetics............ 339  
Breg................................................. 842  
Bremer Group Company, The............... 949  
Hangzhou Kebo Orthopaedic  
    Rehabilitation Equipment Ltd......... 663  
Medi USA.......................................... 545  
Ningbo Yinzhou Yide Medical  
    Devices Co., Ltd............................ 1013  
OPTEC USA, INC................................. 523  
Original Bending Brace..................... 1011  
ORTEC............................................. 662  
Orthomerica Products Inc................ 327  
Private Funding for Prosthetic  
    Devices....................................... 954  
Pro-Tech Orthopedics....................... 1244  
Spinal Technology Inc...................... 745
Surestep...................................................1033
Townsend Design \ Thuasne USA......1215

Upper Limb Orthoses
AC Mould Engineering Limited ..........760
Anatomi Metrix Inc.................................938
Anatomical Concepts Inc............... 1247
Hangzhou Kebo Orthopaedic
Rehabilitation Equipment Ltd. .........663
Jiangsu Reak Healthy Articles Co., Ltd 951
Med Spec (ASO EVO).........................847
ORTEC ......................................................662
Orthomerica Products Inc...............327
Pro-Tech Orthopedics.......................1244

Pedorthic

Foot Care: Custom Footwear
Anodyne..................................................940
Apis Footwear Co.................................444
Mile High Orthotics Lab Inc.............312
ORTHO BALTIC ..................................... 861
Phoenix Molded Shoes Inserts
and Braces............................................1113
Pine Tree Orthopedic Lab Inc..........738
RS Print..................................................538

Foot Care: Extra-Depth Footwear
Anodyne..................................................940
Apis Footwear Co.................................444
DJO Global............................................440
Drew Shoe Corp.................................1334
OHI, The Family of Brands Including:
Apex, Arizona AFO, Langer, PedAlign,
Safestep and the Orthotic Group....813
Surestep...................................................1033

Foot Care: Insoles
ACOR Orthopaedic Inc......................557
AMFIT INC. .........................................1041
Anodyne..................................................940
Apis Footwear Co.................................444
Cascade Dafo Inc.................................644
DJO Global............................................440
Friends Surgicals.................................561
Medi USA.............................................545
Mile High Orthotics Lab Inc.............312
New Step Orthotic Lab Inc...............751
OHI, The Family of Brands Including:
Apex, Arizona AFO, Langer, PedAlign,
Safestep and the Orthotic Group....813
Orthotics & Prosthetics One (O&P 1)....741
Phoenix Molded Shoes Inserts
and Braces.............................................1113
RS Print..................................................538
Soletech Inc...........................................335

Foot Care: Other Foot Care
Comfort Products Inc.......................839
DJO Global............................................440
Expo Enterprise Inc.........................657, 1111, 1342
Mile High Orthotics Lab Inc.............312
SPS .......................................................415
Tamarack Habilitation
Technologies Inc ..................1133

Pedorthic – Multiple Categories
ACOR Orthopaedic Inc......................557
Bort-Swiss Orthopedic Supply..........955
Cascade Dafo Inc.................................644
Cascade Orthopedic Supply Inc ........1137
DARCO International.........................1254
DJO Global............................................440
Drew Shoe Corp.................................1334
Guangzhou Kang Mei Te
Prostheses Co., Ltd.........................762
Kiwi Orthotic Services.......................562
Mary Free Bed Orthotics & Prosthetics633
Mile High Orthotics Lab Inc.............312
New Step Orthotic Lab Inc...............751
OHI, The Family of Brands Including:
Apex, Arizona AFO, Langer, PedAlign,
Safestep and the Orthotic Group....813
OrtoPed UL............................................560
P.W. Minor LLC.................................740
Pedorthic Foundation.......................343
Tianjian Tairuibosi Medical
Appliance Co., Ltd.......................764
# Product Directory

## Prosthetic

### Aesthetic Prostheses Equipment & Materials

- **Anatomi Metrix Inc.** ........................................... 938
- **Create O&P** ............................................. 1145
- **Curbell Plastics, Inc.** ........................................ 554
- **Infinite Biomedical Technologies** ...................... 856
- **Mac Dowell Silicones SRL** .................................. 860
- **Makstride Prosthetics** ..................................... 946
- **Metiz Group** ...................................................... 862
- **Orfit Industries America** .................................. 639
- **ORTHOMEDIC** ................................................ 861
- **Protosthetics** ..................................................... 555

### Electronic Components: Lower Limb

- **5280 Prosthetics/ Adaptec** ................................. 655
- **Adaptech** ......................................................... 1154
- **Bioness** .......................................................... 423
- **BionX Medical Technologies** ................................
- **Endolite** ......................................................... 815
- **Freedom Innovations LLC** ................................ 825
- **Martin Bionics Innovations** ................................ 355
- **Nabtesco & Proteor in USA** ..................... 1045
- **Össur Americas Inc.** ............................................ 533

### Electronic Components: Upper Limb

- **Bioness** .......................................................... 423
- **Coapt LLC** ......................................................... 449
- **College Park Industries** ..................................... 1015
- **Fillauer** .......................................................... 1115
- **Infinite Biomedical Technologies** ...................... 856
- **Kleiber Bionics LLC** .......................................... 455
- **Mobius Bionics** ............................................... 346
- **Össur Americas Inc.** ............................................ 533
- **SteeperUSA** ...................................................... 948

### Elevated Vacuum Socket Volume Management

- **5280 Prosthetics/ Adaptec** ................................. 655
- **Cypress Adaptive, LLC** ..................................... 333
- **Endolite** .......................................................... 815
- **WillowWood** ...................................................... 1129

## Feet

- **Alternative Prosthetic Services Inc.** ........ 754
- **Beijing P&O Technique Center** ...................... 567
- **College Park Industries** ..................................... 1015
- **Endolite** .......................................................... 815
- **Fillauer** .......................................................... 1115
- **Freedom Innovations LLC** ................................ 825
- **Kingsley Mfg. Co.** ........................................... 1057
- **KISS Technologies LLC** .................................. 542
- **Makstride Prosthetics** ..................................... 946
- **Metiz Group** ...................................................... 862
- **Nabtesco & Proteor in USA** ..................... 1045
- **RUSH Foot** ....................................................... 934
- **WillowWood** ...................................................... 1129
- **Win Walker Prosthetics & Orthotics Co. Ltd.** .... 660

## Liners

- **ALPS** ............................................................. 315
- **College Park Industries** ..................................... 1015
- **DAW Industries Inc.** ....................................... 227
- **Endolite** .......................................................... 815
- **Engineered Silicone Products LLC** ............ 549
- **Orfit Industries America** .................................. 639
- **Thermo-Ply, Inc.** ............................................... 448

## Lower Limb Endoskeletal Components

- **American Prosthetic Components LLC** .... 534
- **Beijing P&O Technique Center** ...................... 567
- **College Park Industries** ..................................... 1015
- **Coyote Design & Mfg Inc.** ............................... 732
- **DAW Industries Inc.** ....................................... 227
- **Grace Prosthetic Fabrication Inc.** ............... 233
- **iFit Prosthetics LLC** ....................................... 736
- **Integrum Inc.** ................................................... 913
- **LegWorks** .......................................................... 546
- **Martin Bionics Innovations** .................... 355
- **Medex International Inc.** ................................. 1051
- **Metiz Group** ...................................................... 862
- **Nabtesco & Proteor in USA** ..................... 1045
- **Osseointegration Group of Australia** ........ 635
- **Ottobock** .......................................................... 615
- **WillowWood** ...................................................... 1129
### Mastectomy
- ALPS .................................................. 315

### Pediatric Prostheses
- Alternative Prosthetic Services Inc. ... 754
- American Prosthetic Components LLC. 534
- Coyote Design & Mfg Inc .................... 732
- Endolite ........................................... 815
- Freedom Innovations LLC ................. 825
- Infinite Biomedical Technologies ...... 856
- LegWorks ........................................ 546
- Medex International Inc. .................... 1051
- Private Funding for Prosthetic Devices ................................................................. 954
- Spinal Technology Inc ......................... 745
- TRS Inc. (Therapeutic Recreation Systems Inc.) .................................................. 1350

### Post-Operative Prostheses
- FLO-TECH® Orthotic & Prosthetic Systems Inc .................................................. 413
- Freedom Innovations LLC ................. 825
- iFit Prosthetics LLC ............................... 736
- Infinite Biomedical Technologies ...... 856
- LIM Innovations ................................. 648
- LegWorks ........................................ 546
- Makstride Prosthetics ......................... 946
- Martin Bionics Innovations ............... 355
- Mary Free Bed Orthotics & Prosthetics ................................................................. 633
- Mobius Bionics .................................. 346
- Nabtesco & Proteor in USA ................. 1045
- Naked Prosthetics ................................. 447
- OP Solutions Inc .................................. 550
- Orfit Industries America ....................... 639
- OrtoPed ULC ....................................... 560
- Osseointegration Group of Australia .... 635
- Össur Americas Inc ............................... 533
- Ottobock ........................................... 615
- PEL .................................................... 627
- Private Funding for Prosthetic Devices ................................................................. 954
- Prosthetics ........................................... 555
- Royal Knit Inc ..................................... 744
- RUSH Foot .......................................... 934
- Spinal Technology Inc ......................... 745
- SPS .................................................... 415
- ST&G USA Corp ................................... 434
- Standard Cyborg ................................. 755
- Tillges Technologies/TCOP .................... 933
- Top Shelf Orthopedics ......................... 1151
- TRS Inc. (Therapeutic Recreation Systems Inc.) .................................................. 1350
- Win Walker Prosthetics & Orthotics Co. Ltd .......................................................... 660
- Engineered Silicone Products LLC ...... 549
- FLO-TECH® Orthotic & Prosthetic Systems Inc .................................................. 413
- Freedom Innovations LLC ................. 825
- Friends Surgical .................................. 561
- Grace Prosthetic Fabrication Inc ......... 233
- iFit Prosthetics LLC ............................... 736
- Integrum Inc ....................................... 913
- Kinetic Research Inc .............................. 849
- LegWorks ........................................ 546
- LIM Innovations ................................. 648
- Mac Dowell Silicones SRL .................... 860
- Makstride Prosthetics ......................... 946
- Martin Bionics Innovations ............... 355
- Mary Free Bed Orthotics & Prosthetics ................................................................. 633
- Metiz Group ....................................... 862
- Mobius Bionics .................................. 346
- Nabtesco & Proteor in USA ................. 1045
- Naked Prosthetics ................................. 447
- OP Solutions Inc .................................. 550
- Orfit Industries America ....................... 639
- OrtoPed ULC ....................................... 560
- Osseointegration Group of Australia .... 635
- Össur Americas Inc ............................... 533
- Ottobock ........................................... 615
- PEL .................................................... 627
- Private Funding for Prosthetic Devices ................................................................. 954
- Prosthetics ........................................... 555
- Royal Knit Inc ..................................... 744
- RUSH Foot .......................................... 934
- Spinal Technology Inc ......................... 745
- SPS .................................................... 415
- ST&G USA Corp ................................... 434
- Standard Cyborg ................................. 755
- Tillges Technologies/TCOP .................... 933
- Top Shelf Orthopedics ......................... 1151
- TRS Inc. (Therapeutic Recreation Systems Inc.) .................................................. 1350
- Win Walker Prosthetics & Orthotics Co. Ltd .......................................................... 660

Visit our website at www.opworldcongressusa.org
**PRODUCT DIRECTORY**

**Protective Skin Covering**

ALPS ........................................................ 315
Alternative Prosthetic Services Inc. .... 754
DAW Industries Inc. ................................. 227
Grace Prosthetic Fabrication Inc. ...... 233
iFit Prosthetics LLC ............................... 736
Kingsley Mfg. Co. .................................. 1057
Kleiber Bionics LLC .............................. 455

**Shrinkers**

Comfort Products Inc. ......................... 839
iFit Prosthetics LLC ............................... 736
Knit-Rite Inc. ....................................... 727
Medi USA ......................................... 545
Paceline ............................................. 649

**Socks**

ALPS .......................................................... 315
BSN Medical ....................................... 957
Comfort Products Inc. ......................... 839
DAW Industries Inc. ......................... 227
FLO-TECH® Orthotic & Prosthetic Systems Inc. ...... 413
Knit-Rite Inc. ....................................... 727
Paceline ............................................. 649
Royal Knit Inc. ................................... 744
Tamarack Habilitation Technologies Inc. .... 1133
TRS Inc. (Therapeutic Recreation Systems Inc.) .......... 1350
Win Walker Prosthetics & Orthotics Co. Ltd. ............. 660

**Specialty Products: Ferrier Coupling, etc.**

Bulldog Tools Inc. ............................... 332
Integrum Inc. ..................................... 913
Medex International Inc. ................... 1051
New Options Sports ......................... 1250
Tillges Technologies/TCOP ................. 933

**Suspension Products & Systems**

5280 Prosthetics/Adaptec ............. 655
American Prosthetic Components LLC .... 534
Bulldog Tools Inc. ......................... 332
Click Medical .................................. 1147
Coyote Design & Mfg Inc. ............... 732
Cypress Adaptive, LLC ................... 333
Engineered Silicone Products LLC .... 549
FLO-TECH® Orthotic & Prosthetic Systems Inc. ...... 413
KISS Technologies LLC ................... 542
Knit-Rite Inc. ..................................... 727
Martin Bionics Innovations ............. 355
Medex International Inc. ................. 1051
Ottobock ........................................ 615
Thermo-Ply, Inc. ......................... 448

**Upper Limb Components**

Coapt LLC .................................. 449
College Park Industries .................. 1015
Engineered Silicone Products LLC .... 549
Fillauer ........................................ 1115
Infinite Biomedical Technologies .... 856
Kleiber Bionics LLC ....................... 455
Mac Dowell Silicones SRL ............. 860
Martin Bionics Innovations ............. 355
Ottobock ........................................ 615
SteeperUSA ..................................... 948
TRS Inc. (Therapeutic Recreation Systems Inc.) .... 1350
$50.00 off a Custom Spinal Orthosis (Non Scoliosis) order.

Restrictions:
Coupon must be attached with invoice payment. One coupon per order. One coupon per office.

Offer Expires 12/31/17

Visit us at booth #745

Spinal Technology, Inc.

AOPA 2017 WORLD CONGRESS SPECIALS

Fill in this coupon and bring to booth #1336 for a chance to win an Amazon Echo!

Name: ____________________  Facility: ____________________
Email: ____________________  Phone: ____________________

www.bocusa.org    |    877.776.2200    |    info@bocusa.org

AOPA BOOKSTORE

20% OFF

Bring this coupon to the AOPA Bookstore located at Booth #100 and RECEIVE 20% OFF in stock products.

Valid only at 2017 AOPA World Congress VISIT BOOTH #100 TODAY!
Get a FREE insurance quote at booth #1232 and receive a complimentary registration to a AOPA Webinar of your choice—no strings attached.

Contact us directly at www.cailorfleming.com or dfoley@cailorfleming.com for more information on discounts!

Best Sock for Over The Liner
Unique Acrylic and Lycra Fiber Blend with the latest knitting technology combine for better stretch and conformance than any other fiber combination.

Show Special!
10% OFF
Visit Booth 839
www.comforto&p.com

ABC Inspections & Accreditation
September 13, 1:00 PM EST

AFO/KAFO Policy
October 11, 1:00 PM EST

Regularly priced $99 member/$199 nonmembers
Use the code “worldcongress” when you register for AOPA’s September or October Webinar!

Register at bit.ly/2017webinars
Use “worldcongress”
**2017 Exhibit Hall**

**Floor Plan**

Mandalay Bay Convention Center | Shoreline Exhibit Hall | Las Vegas, NV

---

**Wednesday, Sept. 6**
5:30 – 7:30 p.m.
(Welcome Reception in Exhibit Hall)

**Thursday, Sept. 7**
9:00 a.m. – 6:30 p.m.
(Centennial Celebration, 5:30 – 6:30 p.m.)

**Friday, Sept. 8**
9:00 a.m. – 6:30 p.m.
(Exhibit Happy Hour, 5:30 – 6:30 p.m.)

**Saturday, Sept. 9**
9:00 a.m. – Noon

---

**Membership Has its Benefits:** Build a Better Business with AOPA. Visit www.AOPAnet.org/join.
<table>
<thead>
<tr>
<th>COMPANY NAME</th>
<th>BOOTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBS Medical Billing &amp; Consulting LLC</td>
<td>850</td>
</tr>
<tr>
<td>- Centro Protesi Italia</td>
<td>761</td>
</tr>
<tr>
<td>- Charcot Marie Tooth Association</td>
<td>344</td>
</tr>
<tr>
<td>- Click Medical</td>
<td>1147</td>
</tr>
<tr>
<td>- Clinical Education Concepts</td>
<td>349</td>
</tr>
<tr>
<td>- Coapt LLC</td>
<td>749</td>
</tr>
<tr>
<td>- College Park Industries</td>
<td>1015</td>
</tr>
<tr>
<td>- Comfort Products Inc</td>
<td>839</td>
</tr>
<tr>
<td>- Conformmed-Gesellschaft fur</td>
<td>960</td>
</tr>
<tr>
<td>- Congressmanagement mbH</td>
<td>960</td>
</tr>
<tr>
<td>- Coyote Design &amp; Mfg. Inc</td>
<td>732</td>
</tr>
<tr>
<td>- Cooper O&amp;P</td>
<td>1145</td>
</tr>
<tr>
<td>- Corbel Plastics Inc</td>
<td>554</td>
</tr>
<tr>
<td>- Cypress Adaptive LLC</td>
<td>333</td>
</tr>
<tr>
<td>- DARCO International</td>
<td>1254</td>
</tr>
<tr>
<td>- DAW Industries Inc</td>
<td>227</td>
</tr>
<tr>
<td>- DJO Global</td>
<td>440</td>
</tr>
<tr>
<td>- DME MAC Medicare Contractors</td>
<td>637</td>
</tr>
<tr>
<td>- Draw Shoe Corp</td>
<td>1334</td>
</tr>
<tr>
<td>- Endolite</td>
<td>815</td>
</tr>
<tr>
<td>- Engineered Silicone Products LLC</td>
<td>549</td>
</tr>
<tr>
<td>- Epica Applied Technologies</td>
<td>1249</td>
</tr>
<tr>
<td>- Explo Enterprises</td>
<td>657, 1111, and 1342</td>
</tr>
<tr>
<td>- Fabletech Systems LLC</td>
<td>855</td>
</tr>
<tr>
<td>- Fillauer</td>
<td>1115</td>
</tr>
<tr>
<td>- FICO &quot;Orthotic &amp; Prosthetic Systems Inc.&quot;</td>
<td>413</td>
</tr>
<tr>
<td>- Freedom Innovations LLC</td>
<td>825</td>
</tr>
<tr>
<td>- Friddle’s Orthopedic Appliances Inc</td>
<td>435</td>
</tr>
<tr>
<td>- Friends Surgicals</td>
<td>561</td>
</tr>
<tr>
<td>- G&amp;G Innovation</td>
<td>1157</td>
</tr>
<tr>
<td>- Globo-SA Inc</td>
<td>341</td>
</tr>
<tr>
<td>- Guangzhou Kang Mei Te Prosthetics Co. Ltd</td>
<td>762</td>
</tr>
<tr>
<td>- Hangzhou Kebo Orthopaedic Rehabilitation Equipment Limited</td>
<td>663</td>
</tr>
<tr>
<td>- IFIT Prosthetics LLC</td>
<td>736</td>
</tr>
<tr>
<td>- Infinite Biomedical Technologies</td>
<td>850</td>
</tr>
<tr>
<td>- Integrum Inc</td>
<td>913</td>
</tr>
<tr>
<td>- Jiangsu Reak Healthy Articles Co. Ltd</td>
<td>951</td>
</tr>
<tr>
<td>- Kevin Orthopedic</td>
<td>313</td>
</tr>
<tr>
<td>- Kinetic Research Inc</td>
<td>849</td>
</tr>
<tr>
<td>- Kingsley Mfg. Co</td>
<td>1057</td>
</tr>
<tr>
<td>- KISS Technologies LLC</td>
<td>542</td>
</tr>
<tr>
<td>- K Lee Orthotic Services</td>
<td>562</td>
</tr>
<tr>
<td>- Kleiber Bionics LLC</td>
<td>455</td>
</tr>
<tr>
<td>- KLM Laboratories</td>
<td>412</td>
</tr>
<tr>
<td>- Knit-Rite Inc</td>
<td>727</td>
</tr>
<tr>
<td>- Landis International</td>
<td>755</td>
</tr>
<tr>
<td>- LegWorks</td>
<td>546</td>
</tr>
<tr>
<td>- LI Innovations</td>
<td>648</td>
</tr>
<tr>
<td>- Limflex Ltd</td>
<td>763</td>
</tr>
<tr>
<td>- Mac Dowell Silicons</td>
<td>860</td>
</tr>
<tr>
<td>- Makstrside Prosthetics</td>
<td>946</td>
</tr>
<tr>
<td>- Martin Bionics Innovations</td>
<td>355</td>
</tr>
<tr>
<td>- Many Free Bed Orthotics &amp; Prosthetics</td>
<td>633</td>
</tr>
<tr>
<td>- MD Orthopaedics Inc</td>
<td>1235</td>
</tr>
<tr>
<td>- Med Spec (AFO) Inc</td>
<td>847</td>
</tr>
<tr>
<td>- Medex International Inc</td>
<td>1051</td>
</tr>
<tr>
<td>- Medi USA</td>
<td>545</td>
</tr>
<tr>
<td>- Medi Group</td>
<td>862</td>
</tr>
<tr>
<td>- Mile High Orthotic Lab Inc</td>
<td>312</td>
</tr>
<tr>
<td>- Mobility Saves</td>
<td>100</td>
</tr>
<tr>
<td>- Mobius Bionics LLC</td>
<td>346</td>
</tr>
<tr>
<td>- Monetek LLC</td>
<td>446</td>
</tr>
<tr>
<td>- Myomo</td>
<td>1012</td>
</tr>
<tr>
<td>- Nabtesco &amp; Proteor in USA</td>
<td>1045</td>
</tr>
<tr>
<td>- Naked Prosthetics</td>
<td>447</td>
</tr>
<tr>
<td>- National Commission on O&amp;P Education</td>
<td>340</td>
</tr>
<tr>
<td>- New Options Sports</td>
<td>1250</td>
</tr>
<tr>
<td>- New Step Orthotic Lab Inc</td>
<td>751</td>
</tr>
<tr>
<td>- Ningbo Youhao Yide Medical Devices Co Ltd</td>
<td>1013</td>
</tr>
<tr>
<td>- noras systems Inc.</td>
<td>654</td>
</tr>
<tr>
<td>- Nymbi Systems</td>
<td>854</td>
</tr>
<tr>
<td>- O&amp;P Almanac</td>
<td>1256</td>
</tr>
<tr>
<td>- O&amp;P EDGE</td>
<td>641</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>COMPANY NAME</th>
<th>BOOTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>O&amp;P News/SLACK Inc</td>
<td>1246</td>
</tr>
<tr>
<td>OP Solutions Inc</td>
<td>550</td>
</tr>
<tr>
<td>OP&amp;F &amp; The First Clinics</td>
<td>1312</td>
</tr>
<tr>
<td>OPIE Software</td>
<td>1315</td>
</tr>
<tr>
<td>OPTEC USA Inc</td>
<td>523</td>
</tr>
<tr>
<td>Orfit Industries America</td>
<td>639</td>
</tr>
<tr>
<td>Original Bending Brace</td>
<td>1011</td>
</tr>
<tr>
<td>ORTEC</td>
<td>662</td>
</tr>
<tr>
<td>ORTHO-BALTIC</td>
<td>861</td>
</tr>
<tr>
<td>Orthomerica Products Inc</td>
<td>327</td>
</tr>
<tr>
<td>Orthotic &amp; Prosthetic Group of America (OPGA)</td>
<td>733</td>
</tr>
<tr>
<td>Orthotics &amp; Prosthetics Association of India</td>
<td>563</td>
</tr>
<tr>
<td>Orthotics and Prosthetics One (O&amp;P1)</td>
<td>740</td>
</tr>
<tr>
<td>Orthotics Prosthetics Canada (OPC)</td>
<td>461</td>
</tr>
<tr>
<td>OrtoPed ULC</td>
<td>560</td>
</tr>
<tr>
<td>Osseointegration Group of Australia</td>
<td>635</td>
</tr>
<tr>
<td>OsKIn Inc</td>
<td>645</td>
</tr>
<tr>
<td>Òssur Americas Inc</td>
<td>533</td>
</tr>
<tr>
<td>Ota Trading Inc</td>
<td>347</td>
</tr>
<tr>
<td>Ottobock</td>
<td>615</td>
</tr>
<tr>
<td>Ottobock Reimbursement &amp; Clinical Research</td>
<td>410</td>
</tr>
<tr>
<td>Pacelinc</td>
<td>649</td>
</tr>
<tr>
<td>Pedorthic Foundation</td>
<td>343</td>
</tr>
<tr>
<td>PEL</td>
<td>627</td>
</tr>
<tr>
<td>Pereg Milan</td>
<td>361</td>
</tr>
<tr>
<td>Phoenix Molded Shoes Inserts and Braces</td>
<td>1113</td>
</tr>
<tr>
<td>Pine Tree Orthotic Lab Inc</td>
<td>738</td>
</tr>
<tr>
<td>PL S - Pedorthic Lab Specialties</td>
<td>351</td>
</tr>
<tr>
<td>Private Funding For Prosthetic Devices</td>
<td>954</td>
</tr>
<tr>
<td>Pro-Tech Orthopedics</td>
<td>1244</td>
</tr>
<tr>
<td>ProtoKinetics Gait Analysis Walkways</td>
<td>1048</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>COMPANY NAME</th>
<th>BOOTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protolifestyles</td>
<td>555</td>
</tr>
<tr>
<td>Renia GmbH</td>
<td>656</td>
</tr>
<tr>
<td>Restorative Care of America, Inc (RCAs)</td>
<td>1054</td>
</tr>
<tr>
<td>Rodin 4D</td>
<td>750</td>
</tr>
<tr>
<td>Royal Knit Inc</td>
<td>744</td>
</tr>
<tr>
<td>RS Print</td>
<td>538</td>
</tr>
<tr>
<td>RUSH Foot</td>
<td>934</td>
</tr>
<tr>
<td>Sotelec Inc</td>
<td>335</td>
</tr>
<tr>
<td>+ Spinal Technology Inc</td>
<td>745</td>
</tr>
<tr>
<td>ST&amp;G USA Corp.</td>
<td>434</td>
</tr>
<tr>
<td>Standard Cytobang</td>
<td>1227</td>
</tr>
<tr>
<td>Steeper USA</td>
<td>948</td>
</tr>
<tr>
<td>SureStep</td>
<td>1033</td>
</tr>
<tr>
<td>Tamerack Habilitation Technologies Inc</td>
<td>1133</td>
</tr>
<tr>
<td>TechMed 3D Inc</td>
<td>746</td>
</tr>
<tr>
<td>Thysen-Krupp Engineered Plastics</td>
<td>237</td>
</tr>
<tr>
<td>Tianjin Taisi Medical Equipment Co. Ltd.</td>
<td>764</td>
</tr>
<tr>
<td>Tilges Technologies/TCP</td>
<td>933</td>
</tr>
<tr>
<td>Top Shelf Orthopedics</td>
<td>1151</td>
</tr>
<tr>
<td>Townsend Design Thausen USA</td>
<td>1215</td>
</tr>
<tr>
<td>TRS Inc. (Therapeutic Recreation Systems Inc.)</td>
<td>1350</td>
</tr>
<tr>
<td>Truforce Las Vegas</td>
<td>1155</td>
</tr>
<tr>
<td>TS Medical</td>
<td>547</td>
</tr>
<tr>
<td>Turbomed Orthotics</td>
<td>441</td>
</tr>
<tr>
<td>Unioo Prosthetics/Uniting Frontiers</td>
<td>961</td>
</tr>
<tr>
<td>University of Hartford MSPO Program</td>
<td>345</td>
</tr>
<tr>
<td>- Member Society - ISPO</td>
<td>756</td>
</tr>
<tr>
<td>Verum</td>
<td>943</td>
</tr>
<tr>
<td>VG Orthocare</td>
<td>141</td>
</tr>
<tr>
<td>WillowWood</td>
<td>1129</td>
</tr>
<tr>
<td>Win Walker Prosthetics &amp; Orthotics Co Ltd</td>
<td>1302</td>
</tr>
<tr>
<td>Xiamen Kon Technology</td>
<td>661</td>
</tr>
<tr>
<td>Time</td>
<td>Event</td>
</tr>
<tr>
<td>-----------------</td>
<td>------------------------------------------------------------------------</td>
</tr>
<tr>
<td>8:00 A.M. – 10:00 A.M.</td>
<td>CAD Modification Design Essentials using OMEGA® by WillowWood</td>
</tr>
<tr>
<td>10:30 A.M. – 12:30 P.M.</td>
<td>WillowWood One® System Certification Course</td>
</tr>
<tr>
<td>2:50 P.M. – 2:58 P.M.</td>
<td>Liners with Embedded Electrodes for Direct Control Protheses</td>
</tr>
<tr>
<td>3:40 P.M. – 3:48 P.M.</td>
<td>Limb Volume Stability in Response to Socket Suspension</td>
</tr>
<tr>
<td>9:10 – 9:40 A.M.</td>
<td>PRODUCT PREVIEW THEATER</td>
</tr>
<tr>
<td>3:15 – 4:30 P.M.</td>
<td>Technology Transfer Program</td>
</tr>
</tbody>
</table>
NEW! Pro-Flex XC Torsion

PRO-FLEX®

Less load, more dynamics™

The Pro-Flex family keeps growing. Introducing Pro-Flex XC Torsion and Pro-Flex LP Torsion, featuring an all-new, durable torsion shock module to absorb rotor torque and impact forces. Help your patients restore lost rotational capability and lessen the risk of joint damage by reducing shear forces while improving socket comfort.

BOOTH 533

www.ossur.com