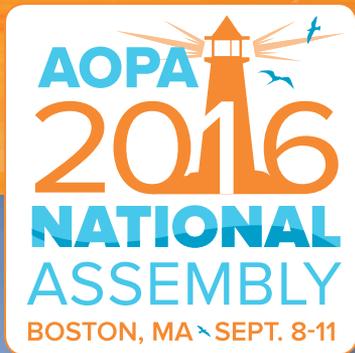




American Orthotic & Prosthetic Association

#AOPA2016

THE PREMIER MEETING for orthotic, prosthetic, and pedorthic professionals.



# LIGHTING the FUTURE

SEPTEMBER 8-11, 2016 | BOSTON



## Preliminary Program and Registration Materials

Exhibits. Education. Networking. 32+ CE Credits.

There is a reason why more orthotic, prosthetic, and pedorthic professionals choose the AOPA National Assembly. If you are going to attend a National Convention, choose the one that has it all. Get access to the best in business education, advanced clinical programming from physicians, high-level researchers and top practitioners, the largest exhibit hall in the United States and of course, fun networking events.

REGISTRATION IS OPEN



For information about the show, scan the QR code with a code reader on your smartphone or visit [www.AOPAnet.org](http://www.AOPAnet.org).

AOPAnet.org   

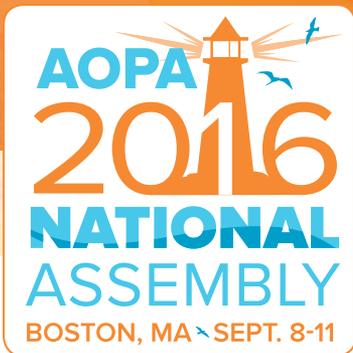
SAVE \$300

Membership Has its Benefits:

**Build a Better Business with AOPA**

Members save over \$300 on their Assembly registration.

Learn more at [www.AOPAnet.org/join](http://www.AOPAnet.org/join).



# LIGHTING the **FUTURE**

AOPA's National Assembly, **Boston Style**, September 8-11, 2016,  
Hynes Convention Center, Boston, MA, U.S.A.

## **YOUR SAFE HAVEN IN STORMY SEAS**

### Registration is **OPEN**

for the 2016 National  
Assembly, Sept. 8-11,  
2016, in Boston.  
Visit [www.AOPAnet.org](http://www.AOPAnet.org).

### **WHO** should attend?

Practitioners, physicians, technicians, fitters, students, educational instructors, facility owners, marketing professionals, residents, physical therapists, office managers, billing specialists, researchers, manufacturers, distributors and suppliers of orthotic, prosthetic and pedorthic products and services should come to Boston to stay on the cutting edge of their profession and to mix and mingle with other top professionals from across the country and around the world.

Over 32 CE Credits will be available  
at the 99th Annual AOPA  
National Assembly.

### **CONTENTS**

- 4** Speakers
- 6** Schedule of Events
- 7** Education Programs
- 8** Manufacturers' Workshops
- 10** Friday Programs
- 17** Saturday Programs
- 23** Sunday Programs
- 25** Product Preview Presentations
- 26** Exhibits and Sponsors
- 27** About Boston
- 28** Special Events
- 30** Getting There and Registration
- 31** Registration Form

Earn more than  
**32 CE  
CREDITS**



## WHY should you attend?

### To Sharpen Your Skills and Challenge Your Mind.....

The O&P community has endured strong tides of change for the past several years with legislative challenges, rising costs, reimbursement pressures, and technology advancements. If you are looking for a lighthouse in the storm—join us in Boston at the 99th AOPA National Assembly. Experience the calming reassurance of building a more resilient future through the illuminating clinical and business education lifeline, the lifeboat of innovation and technology from the world's leading supplier community, and energy building networking for knowledge and inspiration.

- **PLOT A COURSE FOR FUTURE SUCCESS** with 5 concurrent sessions for Orthotists, Prosthetists, Pedorthists, Technicians, Business Owners and Managers
- **Enjoy exciting and HISTORIC BOSTON BACK BAY** and take advantage of Assembly attendee discounts in the Prudential Center with the discount card included in your onsite registration package.
- **Cruise through the stormy seas of REGULATORY RULES** with answers you can only get from AOPA
- **Catch up with the friends through the ALUMNI CONNECTION.** Whether on the Mobile App (AOPA365) or during events scheduled throughout the Assembly be sure to include your school information on your registration form.
- **Navigate the country's LARGEST O&P EXHIBIT HALL**
- **Maneuver your way with CASE STUDIES AND SYMPOSIA** such as Treating "O" More Like "P" or The Prevalence and Impact of Pain in Upper Limb Amputees
- **Sail through spectacular general sessions with inspiring KEYNOTE PRESENTERS**
- **GET ONBOARD with MDs, PhDs, Wound Care Specialists, Research Scientists, Attorneys, Business Experts and Top-Notch Practitioners.** See pages 4-5 for speaker highlights.
- **Earn more than 32 CE CREDITS.** Credits have been approved for orthotists, prosthetists, pedorthists and physical therapists.
- **Partake in FUN NETWORKING EVENTS** such as the Expo Day, Happy Hour, Wine Auction or Welcome Reception.

### 2016 National Assembly Planning Committee Members

Christopher J. Nolan (*Chair*)  
Mike Arani  
Wendy Beattie, CPO, FAAOP  
Rudy Becker, Jr.  
David Boone, PhD, MPH  
Frank H. Bostock, CO, FAAOP  
James H. Campbell, PhD, CO, FAAOP  
Thomas V. DiBello, CO, LO, FAAOP  
Traci Dralle, CFM  
Elizabeth Ginzel, CPO, LPO  
Paul Harney, CO  
Dennis Janisse, CPed  
Geza Kogler, PhD, CO  
James Krupa, CO  
Dixon LeGrande  
Eileen Levis  
Anita Liberman-Lamphear, MA  
Karen Lundquist, MBC  
Pam Lupo, CO  
Mike Magill  
Brad Mattear, CPA, CFO  
Anthony Potter, MBA  
Rick Riley  
Anne Rowell, MS, OTR/L, CPO  
Don Shurr, PT, CPO  
Brian Stroup  
Jim Weber, MBA

### Clinical Sessions Workgroup

Thomas V. DiBello, CO, LO, FAAOP  
Wendy Beattie, CPO, FAAOP  
David Boone, PhD, MPH  
Paul Harney, CO  
James Krupa, CO  
Anne Rowell, MS, OTR/L, CPO  
Donald Shurr, PT, CPO

# SPEAKER HIGHLIGHTS



**Jan Andrysek, BSc, MAsc, PhD, PEng** leads a research team at the Bloorview Research Institute of Holland, a teaching hospital focused on pediatric rehabilitation. He also holds a faculty appointment within the Institute of Biomaterials and Biomedical Engineering at the University of Toronto where he directs the Clinical Engineering graduate program.



**Horst H. Aschoff, MD** is the Director of the Clinic for Plastic, Hand and Reconstructive Surgery, Sana Clinics, Lübeck, Germany. Additionally he focuses on problems with Osseointegration. He currently oversees 50 patients supplied with an endo-exo-femur prosthesis.



**James Peter Beck, MD** has been an orthopaedic surgeon for more than 40 years. He currently serves as adjunct professor and orthopaedist at the Department of Orthopaedics at the University of Utah as well as researcher at the Bone and Joint Research Laboratory.



**Zachary Bohart, MD** is a physiatrist specializing in spasticity and tone management including stroke, multiple sclerosis, spinal cord injury, and traumatic brain injury at multiple hospitals in the Boston area, including South Shore Hospital and Tufts Medical Center.



**David Crandell, MD** is an Instructor in the Department of PM&R at the Harvard Medical School and a rehabilitation specialist at Spaulding Rehab Hospital in Boston. He was involved in the care of 25 of the most severely injured survivors of the Boston Marathon Bombing in 2013.



**Teri Chou, PhD** currently serves as the director of clinical research at Modus Health. She received her doctorate in bioengineering at the University of Utah in 2007. She previously worked as a research scientist at Orthocare Innovations.



**Andrea Giovanni Cutti, MEng, PhD** earned his Master in Electronic Engineering and a PhD in Biomedical Engineering from the University of Bologna, Italy. He currently chairs the International Shoulder Group for the International Society of Biomechanics and is a member of the ISO 168 Committee.



**Michael Dillon, PhD, BPO (Hons)** is a Senior Lecturer in P&O at La Trobe University, and an Honorary Research Fellow at the Royal Melbourne Hospital where he supports clinicians to undertake research and translate research evidence into practice. Dr. Dillon's research has focused on the outcomes for people with lower limb amputation; in particular, people with partial foot amputation.



**Stefania Fatone, PhD, BPO (Hons)** is an Associate Professor in the Northwestern University Feinberg School of Medicine Department of PM&R. Dr. Fatone's research examines the effects of P&O on human locomotion.



**John Femino, MD** is an orthopedic surgeon. He currently serves as Clinical Associate Professor, Department of Orthopedics and Rehabilitation at the University of Iowa Hospitals and Clinics.



**Goeran Fiedler, PhD** currently serves as Assistant Professor in the Master of Science in P&O program at the University of Pittsburgh. His research interests include prosthesis-based mobile data collection devices and their utility beyond prosthetics research.



**Deanna Fish, MS, CPO** currently serves as VP of Orthotics for Hanger Clinic. She is a graduate of the University of Washington's O&P program and received a Master's degree in biomechanics from the University of Oregon. She specializes in triplanar lower limb deformities, pathomechanical gait conditions and cranial remolding orthoses for deformational plagiocephaly.



**Hossein Gholizadeh, PhD** is a Postdoctoral fellow at the Ottawa Hospital Research Institute (OHRI), University of Ottawa, with a focus on lower limb prosthetic suspension systems.



**Bradley Godfrey, DO** currently practices at the Salt Lake City VA Medical Center and is an Assistant Professor in the Division of Physical Medicine and Rehabilitation. She graduated from medical school from the Chicago College of Osteopathic Medicine.



**Jason Highsmith, PhD, PT, CP, FAAOP** currently serves as the Deputy Director of the Extremity Trauma Amputation Center of Excellence at the U.S. Department of Defense and the Department of Veterans Affairs. He is a dually licensed PT and Prosthetist and serves on the executive committee of AAOP as well as a captain in the US Army Reserves.

What participants said about the last meeting—

“The best way to keep up with new technologies and earn CE Credits is to attend the AOPA Assembly. The exhibit hall never disappoints.”



**Tammy Hoffmann, PhD** is Professor of Clinical Epidemiology at the Centre for Research in Evidence-Based Practice, Bond University. Her research spans many aspects of evidence reporting, evidence-based practice, and shared decision making.



**Rahul Kaliki, PhD** has long been fascinated with understanding how the brain controls our arms. He holds a PhD in Biomedical Engineering.



**Andreas Kannenberg, MD, PhD**, is the Executive Medical Director of Ottobock North America. He coordinates a global medical and research team and networks to consult R&D, product management, and sales on medical backgrounds relevant to Ottobock's products and R&D projects.



**Kenton Kaufman, PhD** is the W. Hall Wendel Jr. Musculoskeletal Research Professor, Director of the Biomechanics-Motion Analysis Laboratory, Professor of Bioengineering, and Consultant in the Department of Orthopedic Surgery, Physiology and Biomedical Engineering at the Mayo Clinic.



**Daniel Lee, PT, DPT, GCS** is a faculty member at the University of Hartford. As a member of the Rehabilitation Sciences department, he performs scholarship, teaching, and service in both the P&O program as well as the Physical Therapy program.



**Edward Lemaire, PhD** is a Clinical Researcher at the Ottawa Hospital Research Institute's Centre for Rehab Research and Development; Professor at the University of Ottawa Faculty of Medicine; and Adjunct Professor in Human Kinetics, Mechanical Engineering, and Systems Design Engineering.



**Danielle Melton, MD** is board certified in Physical Medicine and Rehabilitation and an Assistant Professor in the Department of Orthopedic Surgery at The University of Texas Medical School. She is the Director of the Amputee Program at Memorial Hermann—The Institute for Rehabilitation and Research (TIIR).



**Richard L. McGough, MD** serves as the Associate Professor of Orthopaedic Surgery, Chief Division of Musculoskeletal Oncology and Co-Director Sarcoma Specialty Center, University of Pittsburgh Medical Center. Dr. McGough specializes in orthopaedic surgery, with expertise in bone and soft tissue sarcomas, pelvic reconstruction, limb salvage and metastatic disease to bone.



**Munjed Muderis, MB, ChB, FRACS, FAOrthA** is an orthopaedic surgeon based in Sydney, Australia. He serves as an adjunct Clinical Associate Professor University of Notre Dame School of Medicine, as well as Chairman of the Osseointegration Group of Australia.



**Benjamin Mundell, PhD** holds a PhD in Policy Analysis from the Pardee RAND Graduate School. He has worked as a Policy Analyst for the RAND Corporation and as a Research Fellow at Mayo Clinic.



**Kiisa Nishikawa, PhD** is a Regents' Professor of biology at Northern Arizona University in Flagstaff, Arizona. Through her lab, she has overseen projects investigating the elastic properties of muscles and the neuromechanics of how frogs capture prey. Her work has been widely published and she holds a PhD from the University of North Carolina at Chapel Hill.



**Michael Orendurff, PhD** currently serves as the director of Motion & Sports Laboratory at Lucile Packard Childrens Hospital, Stanford University. He has over 20 years of experience directing laboratories and supervising employees conducting computerized kinematic and kinetic analysis of individuals with gait disorders.



**Luigi Pascarella, MD** is a practicing Vascular Surgeon in Iowa City, IA. He currently serves as Assistant Professor of Surgery, Division of Vascular Surgery at the University of Iowa Hospitals and Clinics.



**Omar Selod, DO** is a PM&R specialist in Fort Worth, TX. He currently serves as Assistant Clinical Professor at Texas College of Osteopathic Medicine (TCOM) and on faculty for Baylor University Medical Center.



**Megan Sions, PhD, DPT, PT** is a physical therapist and clinical research scientist at the University of Delaware (UD) in the Department of Physical Therapy and faculty in the UD Doctor of Physical Therapy and the Biomechanics and Movement Science Programs.



**Stephen Wegener, PhD** serves as director of Division of Rehab Psychology and Neuropsychology in the Department of PM&R at Johns Hopkins. He is an associate professor of PM&R at the Johns Hopkins University School of Medicine and associate professor of health policy and management at the Bloomberg School of Public Health.



**Lauren White, PT, DPT, PCS** is a physical therapist with the International Center for Spinal Cord Injury (ICSCI) at Kennedy Krieger Institute. Her clinical interests include functional electrical stimulation, orthotic prescription, pediatric rehabilitation, and locomotor training.



**Michael Winger, PhD** is Assistant Professor in the Prosthetics & Orthotics Program at the University of Hartford, is Assistant Clinical Professor at Yale School of Public Health, and is a Statistician of Medicine with the Department of Veterans Affairs.

# Schedule of Events

## WEDNESDAY September 7, 2016

10:00 AM – 6:00 PM	Onsite Registration Open
10:00 AM – 6:00 PM	Exhibitor Set up
1:00 – 5:00 PM	Thranhardt Golf Classic* Buses depart at noon

## THURSDAY September 8, 2016

7:00 AM – 6:30 PM	Onsite Registration Open
8:00 AM – 3:00 PM	Exhibitor Set up
8:00 AM – Noon	Manufacturers' Workshops – Tier A
8:00 – 10:00 AM	Manufacturers' Workshops – Tier B
10:30 AM – 12:30 PM	Manufacturers' Workshops – Tier C
1:00 – 3:00 PM	Manufacturers' Workshops – Tier D
1:00 – 5:00 PM	Business Certificate Program
1:00 – 5:00 PM	Manufacturers' Workshops – Tier E
3:30 – 5:30 PM	Manufacturers' Workshops – Tier F
5:45 – 7:15 PM	Welcome to Boston Reception – Exhibit Hall

## FRIDAY September 9, 2016

7:30 – 10:00 AM	Opening General Session, Keynote Address and Thranhardt Lectures
10:00 – 11:00 AM	Break in Hall
10:00 AM – 6:30 PM	Exhibit Hall Open
11:00 AM – Noon	Concurrent Education Tracks
	Prosthetic Symposium
	Upper Limb Symposium
	Pedorthic Education
	Business Education
11:00 AM – 12:30 PM	Orthotic Symposium
11:00 AM – 12:30 PM	Technical Education
Noon – 1:00 PM	Lunch in Exhibit Hall
12:15 – 1:30 PM	New England Chapter Membership Meeting & Luncheon
12:15 – 1:30 PM	Student/Resident Lunch and Learn
1:00 – 2:00 PM	Orthotic Poster Presentations
2:00 – 5:00 PM	Concurrent Education Tracks
	Prosthetic Education
	Orthotic Education
	Limb Salvage Program
	Pedorthic/Technical Demonstrations
	Pysch and Public Health
	Business Education
5:00 – 6:30 PM	Exhibitor Sponsored Happy Hour
6:00 – 8:00 PM	Wine Tasting and Auction*

What participants said about the last meeting-

“The annual Assembly is a great way to recharge your clinical batteries, meet new people, and to network.”

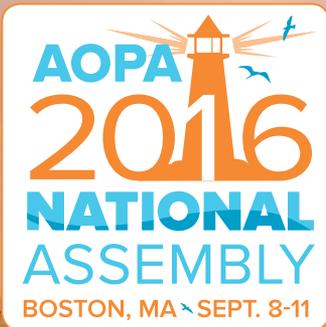
## SATURDAY September 10, 2016

7:30 – 8:45 AM	General Session & AOPA Membership Meeting
8:45 – 10:00 AM	Award Winning Hamontree Lectures
8:45 – 10:15 AM	Concurrent Education Tracks
	Scoliosis Symposium
	Outcomes of Partial Foot Amputation Symposium
10:00 AM – Noon	Technical Demonstrations
10:00 AM – 2:00 PM	Expo Day – Exhibit Hall
10:00 AM – 6:00 PM	Exhibit Hall Open
Noon – 1:00 PM	Lunch in Exhibit Hall
Noon – 1:30 PM	Scoliosis Lunch and Learn* Current Controversies in Idiopathic Scoliosis Treatment
Noon – 1:30 PM	Women's Leadership Luncheon*
1:00 – 2:00 PM	Prosthetic Poster Presentations
2:00 – 5:00 PM	Concurrent Education Tracks
	Grand Rounds and Boston Strong Symposium
	Outcomes Symposium
	Technical Demonstrations
	Pedorthic Education
	Business Education
5:00 – 6:00 PM	Exhibit Hall Closing Extravaganza

## SUNDAY September 11, 2016

7:30 – 9:45 AM	General Session
8:00 AM – Noon	Pedorthic/Technical Hands on Programming
8:00 AM - 5:00 PM	CAD/CAM Hands On Workshop
10:00 AM – Noon	Concurrent Education Tracks
	Prosthetic Education
	Orthotic Education
	Business Education
Noon – 1:00 PM	Lunch on Your Own
1:00 – 5:00 PM	Manufacturers' Workshops – Tier G
1:00 – 5:00 PM	3D Printing Hands on Workshop

\*Ticket Required



# EDUCATION PROGRAM

## Thursday September 8, 2016

### Business Certificate Programming (B1)

1:00 – 5:00 PM



Earn your business certificate in O&P Business Management from AOPA. With over 99 years of service to the O&P profession, AOPA is the natural partner to provide 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.AOPAnetonline.org/education](http://www.AOPAnetonline.org/education).

#### Human Resources: Understanding the Essential Elements of a Performance Appraisal (B 1A)

*Pamala Lupo, CO*

Clarifying the roles of both the employee and management during the performance appraisal will assist in meeting a successful outcome, which include, an employee walking away motivated while increasing revenue. Equally important is management's understanding its role and responsibility in that achievement. The performance appraisal is often seen as a monologue instead of a dialogue. It's time to change the perception of this important event and have both sides walking away understanding their mutual responsibilities in the performance appraisal process.

*(This program qualifies as an Elective course under the Management Module of the Business Certificate Program.)*

#### Marketing: Once Upon a Time: The Value of the Patient Story (B 1B)

*Rebecca Snell*

What is a patient story and its value and monetary impact to both the patient and the practice? How do we maximize the narrative to drive our treatment plan and achieve positive outcomes, build justifications that lead to reimbursements and what is the marketing potential of the story? How do we turn every patient's story into a fairy tale ending? Get answers to all of these questions and more during this session.

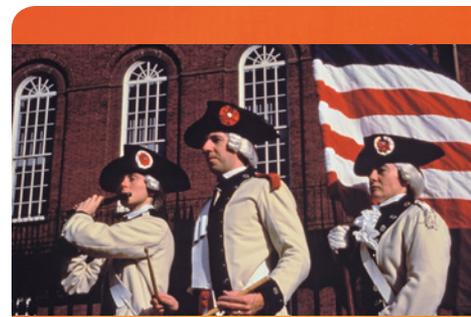
*(This program qualifies as an Elective course under the Sales and Marketing Module of the Business Certificate Program.)*

#### Operations: How to Work with Workers' Compensation Claims Managers (B 1C)

*Steve Anthony, Claims Director Great American Insurance Group*

Get the inside scoop from a claims director on how best to work with workers' compensation claims managers to serve your patients best. From educating the claims manager to filing the actual claim—you'll learn how to achieve the best results for all parties involved.

*(This program qualifies as an Elective course under the Operations Module of the Business Certificate Program.)*



### Welcome to Boston Reception

5:45 – 7:15 PM

Don't miss the fun opening reception as exhibitors welcome you to the National Assembly "Boston Style." Enjoy refreshments, peruse the massive exhibit hall and check out our very own "Trail of Freedom" featuring locations significant to the history of the United States. For more fun, participate in the related challenge game on the Mobile app to win great prizes. The Welcome Reception is included in your full conference registration. Guest tickets are available for purchase.

# Manufacturers' Workshops

The AOPA National Assembly provides a variety of clinical education including workshops. Choose from over 50 workshops featuring the newest products and latest technology, presented by leading manufacturers and suppliers from the O&P industry. Because manufacturers' workshops are intense and often hands-on learning experiences, participation is limited to a maximum of 50 participants per workshop.

**THURSDAY**

September 8, 2016

## Tier A THURS 9/8

8:00 AM – Noon

(4 hour- Workshops)  
The following workshops in Tier A run concurrently within this track.

**MWA-1. Pedorthic Materials and Their Role in Pedorthics**  
*Sponsor: nora systems, Inc.*

**MWA-2. How to Ride (and Avoid being Clobbered by) the CAD/CAM Technology Wave**  
*Sponsor: Vorum*

**MWA-3. Össur Advanced Technologies**  
*Sponsor: Össur Americas*

**MWA-4. OMEGA by WillowWood**  
*Sponsor: WillowWood*

**MWA-5. Treating the Adult Scoliosis Patient**  
*Sponsor: Aspen Medical Products*

**MWA-6. Comprehensive Clinical Assessments & Successful Outcomes**  
*Sponsor: Townsend Design*

**MWA-7. Orthomerica Introduces the Latest Advancements to OWLS and Fuzion Product Lines**  
*Sponsor: Orthomerica Products Inc.*

**MWA-8. Beyond DAFO Basics: Brace Optimizations**  
*Sponsor: Cascade DAFO*

**MWA-9. Socket Selection Criteria and Alignment Considerations**  
*Sponsor: ALPS*

**MWA-10. Driving Better Outcomes for Lower Mobility Amputees: A Comprehensive Approach to Addressing the Challenges of Lower Limb Amputees**  
*Sponsor: Ottobock*

**MWA-11. Full-Time Orthotic Intervention for Non-Operative Scoliosis Treatment**  
*Sponsor: Spinal Technology, Inc.*

**THURSDAY**

September 8, 2016

## Tier B THURS 9/8

8:00 – 10:00 AM

(2 hour- Workshops)  
The following workshops in Tier B run concurrently within this track.

**MWB-1. Chronic and Acute Stance Control Patient Application Management**  
*Sponsor: Becker Orthopedic*

**MWB-2. S.W.A.S.H. Certification Course**  
*Sponsor: Allard USA*

**MWB-3. Allux: The World's First Four Bar Linkage Microprocessor Controlled Knee**  
*Sponsor: Nabtesco & Proteor in USA*

**MWB-4. New Advancements in MPC Foot/Ankle Technology**  
*Sponsor: Freedom Innovations*

**MWB-5. Hold on! Overview of Socket Suspension Options**  
*Sponsor: Ottobock*

**MWB-6. Aligning your Documentation: Clearing Medical Necessity and Other Major Reimbursement Roadblocks**  
*Sponsor: Ottobock*

**MWB-7. Upper Limb Techniques: Advanced Axon System Training and Dynamic Arm**  
*Sponsor: Ottobock*

## Tier C THURS 9/8

10:30 AM – 12:30 PM

(2 hour- Workshops)  
The following workshops in Tier C run concurrently within this track.

**MWC-1. Introduction to the PDE™ Dynamic Bracing System and the all NEW BTK Hybrid Crossover Knee**  
*Sponsor: Fabtech Systems LLC*

**MWC-2. Stopping and Turning: It's for Everyone**  
*Sponsor: Fillauer*

**MWC-3. Hip Bracing Solutions by Össur; Featuring the NEW Unloader® Hip & the Rebound® Hip**  
*Sponsor: Össur Americas*

**MWC-4. Game Changing Innovations: A Look at Freedom Innovations New Product Lines**  
*Sponsor: Freedom Innovations*

**MWC-5. Less Pain, More Life: a Unique Approach to Osteoarthritis**  
*Sponsor: Ottobock*

**MWC-6. From Spinal Injury to Post-Stroke, Inspiring your Orthotic Patients to Live Life More Fully**  
*Sponsor: Ottobock*

**MWC-7. Fitting the Future: The Benefits of the Only Microprocessor Foot**  
*Sponsor: Ottobock*



THURSDAY

September 8, 2016

**Tier D** THURS 9/8

1:00 – 3:00 PM

(2 hour- Workshops)  
The following workshops in Tier D run concurrently within this track

**MWD-1. Grow your Business with Innovative Technology and Specialty Bracing from Tillges Technologies**

*Sponsor: Tillges Technologies/TCOP*

**MWD-2. Technology Advancements in Upper Limb Prosthetics**

*Sponsor: Fillauer*

**MWD-3. Gain Great Visibility Over Your Practice**

*Sponsor: OPIE Software*

**MWD-4. WillowWood One Socket System**

*Sponsor: WillowWood*

**MWD-5. OPIE Practice Management Solutions for a More Efficient Office**

*Sponsor: OPIE Software*

**MWD-6. Clinical Documentation**

*Sponsor: SPS*

**MWD-7. Orthomerica Introduces the Enhanced SmartSoc™ Video Scanning Capabilities for Both Cranial Remolding Orthoses and Prosthetics Using the Samsung S7 Mobile Phone and the New Measurement and Comparison Utility (MCU)**

*Sponsor: Orthomerica Products, Inc.*

**Tier E** THURS 9/8

1:00 – 5:00 PM

(4 hour- Workshops)  
The following workshops in Tier E run concurrently within this track.

**MWE-1. Advances in Upper Limb Prosthetics**

*Sponsor: Touch Bionics*

**MWE-2. A Breakthrough in Socket Design: The Infinite Socket™ from LIM Innovations**

*Sponsor: LIM Innovations*

**MWE-3. Socket-Less Socket: Fabric-Based Transfemoral Socket Technology**

*Sponsor: Martin Bionics Innovations*

**MWE-4. Upper Limb Prosthetic Advances**

*Sponsor: Steeper USA*

**MWE-5. Footwear—It's More than Diabetics**

*Sponsor: Apex Foot Health Industries/OHI*

**MWE-6. Navigating New Pathways: Orthotic Tools for Maximizing Therapeutic Outcomes**

*Sponsor: Surestep*

**MWE-7. Innovation—Knees, Materials and Newly Designed O&P Product**

*Sponsor: ST&G USA Corp.*

**MWE-8. Shedding Lite on Spinal**

*Sponsor: Allard USA*

**MWE-9. Orthotic Management of Lower Limb Biomechanical Deficits Using the Triple Action™ Ankle Joint**

*Sponsor: Becker Orthopedic*

**MWE-10. Are You Up for the Challenge? The Explosion of Adaptive Sports at Every Skill and Activity Level**

*Sponsor: Ottobock*

**MWE-11. The Providence Nocturnal Scoliosis System**

*Sponsor: Spinal Technology, Inc.*

THURSDAY

September 8, 2016

**Tier F** THURS 9/8

3:30 – 5:30 PM

(2 hour- Workshops)  
The following workshops in Tier F run concurrently within this track

**MWF-1. An Update From the Board for Orthotist/Prosthetist Certification**

*Sponsor: Board of Certification/ Accreditation, Inc. (BOC)*

**MWF-2. It's 2016! Let CAD-CAM Help You Reach the Full Potential of Your O&P Business**

*Sponsor: TechMed 3D*

**MWF-3. Vacuum Made Simple**

*Sponsor: Ottobock*

**MWF-4. Kenevo—Reclaiming a Sense of Security: MPK for Lower Mobility Amputees**

*Sponsor: Ottobock*

**MWF-5. Make Fit Happen - Suspension Solutions Utilizing RevoFit and RevoLanyard Solutions Utilizing Boa Technology**

*Sponsor: Click Medical*

What participants said about the last meeting—

“The show was one of our best ever! Activity at our booth was off the charts and we could hardly keep up! Thanks to the AOPA team for everything they do!”

**MWF-6. Fitting and Gait Training on the AT-Knee— Everything you Need to Know!**

*Sponsor: LegWorks*

SUNDAY

September 11, 2016

**Tier G** SUN 9/11

1:00 – 5:00 PM

(4 hour- Workshops)  
The following workshops in Tier G run concurrently within this track

**MWG-1. 2016 Compliance Update: Best Business Practices and the Successful Accreditation Survey**

*Sponsor: The American Board for Certification in Orthotics, Prosthetics & Pedorthics (ABC)*

**MWG-2. A Breakthrough in Socket Design: The Infinite Socket™ from LIM Innovations**

*Sponsor: LIM Innovations*

**MWG-3. Pedorthics—To Fab or Not To Fab**

*Sponsor: Janisse Orthotic Effects*



# Friday

September 9, 2016

## Opening General Session

7:30 - 10:00AM

### Thranhardt Awards and Keynote Address

#### Award Winning Thranhardt Lectures (C 1)

**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. This year’s winning presentations are outlined below. *(The following sessions run consecutively within this program.)*



#### Increasing Functional Independence through Prosthetic Rehabilitation (C 1A)

*Omar Selod, DO*

*Gordon Stevens, CPO, LPO*

This presentation examines the functional independence of amputees through implementation of a prosthetic rehabilitation program which incorporated a healthcare team and validated testing measures. Once the prosthesis was fit, patients began physical therapy and were typically discharged after six to eight weeks. The project utilized the AMP and the TUG administered at evaluation, delivery, six-week, and six-month follow-up appointments. On average, participants increased from a K2 to a K3 ambulation level as measured by the AMP and were below the fall threshold of a 19 seconds TUG test at completion of the program.

#### Functional Assessment and Satisfaction in K2 Transfemoral Amputees Receiving MPK Knees—Initial Findings (C 1B)

*Kenton Kaufman, PhD, PE*

Learn about a clinical trial demonstrating that K2 amputees using a MPK (K3 technology) improved their safety and activity, which resulted in increased satisfaction. The reduction in stumbles and falls occurred while the patients engaged in more physical activity. The increase in activity resulted in a greater exposure to fall risk, but that risk was diminished by the advanced technology.

#### The Effects of AFO Stiffness and Alignment on Lower Extremity Kinematics in Stroke and Multiple Sclerosis (C 1C)

*Beatrice Janka, MPO, CPO*

During this lecture, the effect of AFO mechanical characteristics on biomechanical variables will be measured and evaluated in the context of biomechanical deficits. Kinematic data shows systematic changes in biomechanical variables when AFO mechanical characteristics are varied. In some cases, the orthotic influence is predictable and appears to be significantly effected by the pattern of biomechanical deficits.

#### Development and Implementation of a Clinical Decision Making Algorithm for Aiding Orthotic Prescription for Patients with Neurological Impairments (C 1D)

*Lauren White, PT, DPT, PCS*

Clinical decision-making regarding orthotic recommendations for complex neurological patients can prove to be quite challenging. Our interdisciplinary team has developed an algorithm as a guide to aid in the clinical decision making process for lower extremity orthotic prescription for patients with neurological impairments. This presentation will discuss the process of developing the tool, goals and current outcomes, as well as plans for future use.

### Keynote Address



Our Opening Keynote promises to be multi-faceted and right on the mark for today’s challenges, and next year’s opportunities for The O&P profession.

This being a Presidential Election year, you’ll get an insider’s assessment of the political “lay of the land” from a recognized expert commentator—what will things look like come January, and what will it mean for O&P? Our Keynote will reflect a collective look into your future that you are not going to want to, and not going to be able to afford to miss!

Meet and hear from AOPA’s Prosthetics 2020 Medical Advisory Board—three physicians (an orthopedic surgeon, a physiatrist, and a vascular surgeon), together with a PhD bioengineering expert who advising AOPA, and speaking for both O&P patients and health professionals on the critical issues of the day—LCD, prior authorization, patient access to quality of care. You’ll hear from the folks who are carrying your message to Congress, Medicare, and other payers.

As part of Prosthetics 2020 AOPA has entered an agreement with the eminent health policy think tank, the Rand Corp., to study and develop a comprehensive model to identify the value of prosthetic care—and you’ll be among the first to hear a preliminary read from Rand’s analyst’s on their work.

Definite Times to be provided

**FRIDAY**

**September 9, 2016**

**Exhibit Hall Open** 10:00 AM - 6:30 PM

**Break in Exhibit Hall** 10:00 - 11:00 AM

**Concurrent Education** 11:00 AM – Noon

Choose from the following concurrent education tracks.

 **Symposium: Role of Patient Self-Management in Improving Quality of Care and Outcomes (C 2)**

*Scott Cummings, PT, CPO*  
*George Gondo, MA*  
*Danielle Melton, MD*  
*Stephen Wegener, PhD*

This symposium brings together a group of national experts on limb loss and self-management to present ways prosthetists can meet the challenge of providing patient and family centered care that promotes peer support and self-management to empower patients to take charge of their own recovery. The symposium will have six components:

- Hear an overview of self-management principles and skills and the data supporting their efficacy.
- Learn how self-management approaches are integrated into the rehabilitation process.
- Receive a description and demonstration of an online self-management program for persons with limb loss.
- See how prosthetists can utilize the Amputee Coalition peer visitor and patient education resources in their care plan.
- Explore how these self-management approaches can be integrated into comprehensive prosthetic care.
- Participate in a discussion with the panelists on implementation of these self-management approaches.

11:00 AM - 12:30 PM

 **Symposium: Treating “O” More Like “P” (C 3)**

*Wendy Beattie, CPO, FAAOP*  
*Curt Bertram, CPO, FAAOP*  
*Michael Dailey, CO, MBA*  
*Eric Weber, LCPO, FAAOP*

This symposium will present attendees with a new way of looking at orthotics. We will focus on patient assessment, formulation of the patient specific treatment plan, and patient training to transform the practice of orthotics with the goal of improved patient outcomes.

 **Symposium: The Prevalence and Impact of Pain in Upper Limb Amputees (C 4)**

*Carrie Davis, AMPOWER National Coordinator*  
*Phillip Stevens, MEd, CPO*  
*Joyce Tyler, OT, CHT*

Pain is experienced in many forms by individuals with upper limb amputations and limb deficiencies. These include phantom pains, residual limb pain, and pain associated with overuse syndromes on the sound side. This course will present available literature on the types of pain experienced by those with upper limb deficiencies along with their relative prevalence and their impact on the function and well-being of affected patients. In addition, an occupational therapist will address therapy treatment modalities used to manage these different types of pain. This information will be supplemented by the user’s perspective, taken from both personal experience and feedback collected from an online community of individuals with upper limb deficiency.

Definite Times to be provided

 **The Future of Pedorthics (P 1)**

*Dennis Janisse, CPed*

Learn from the past, live in the present and plan for the future. The Pedorthic profession and practices are being affected in so many ways at this time, from so many different influences. In this session we will explore using the Pedorthic Scope of Practice to its maximum potential as well as ever-changing diminishing reimbursement models, different practice settings, and educational requirements.

 **Today’s World of O&P (B 2)**

*Peter Thomas, JD*

Receive an update from O&P Alliance general counsel, Peter Thomas, JD, on Prior Authorization, Medicare Competitive Bidding, BIPA Section 427 Proposed Rule, OIG Work Plan, LCD and O&P Care Definition in Private Insurance.

10:00 - 11:00 AM

 **Make Fit Happen with OrthoFit Lacer Solutions Utilizing Boa Technology (T 1)**

*Pamela Hale, CPO*

Learn how to fabricate Ankle Gauntlet Lacers utilizing the OrthoFit Lacer Kit from Click Medical powered by Boa Technology. Enhance ankle gauntlet fit and function with user adjustable systems to improve volume management, suspension and ease of donning and doffing. This hands-on step by step demonstration will teach you how to plan, fabricate and assemble leather/plastic ankle gauntlets.

11:00 AM - 12:30 PM

 **Make Fit Happen with RevoFit Adjustable Socket Solutions (T 2)**

*Joe Mahon, CP*  
*Simon Scoville*

Learn how to create adjustable laminated sockets for enhanced fit and function. This hands-on step by step demonstration will teach you how to plan, fabricate and assemble adjustable laminated sockets utilizing RevoVersa and RevoDirect kits from Click Medical. Empower your patients with user adjustable systems to improve volume management, suspension and ease of donning and doffing.

**Lunch in the Exhibit Hall** Noon - 1:00 PM

**NEAAOP Membership Business Meeting** 12:15 PM - 1:30 PM



Join the New England Chapter for their annual membership meeting. Lunch will be provided for all chapter members.

**Student/Resident Lunch and Learn** 12:15 PM - 1:30 PM

**Orthotic Poster Presentations** 1:00 - 2:00 PM

**FRIDAY**

September 9, 2016

**Concurrent Education**

2:00 – 5:00 PM

Choose from the following concurrent education tracks.

2:00 - 4:00 PM

 **About Osseointegrated, Percutaneous Implants for Rehabilitation Following Limb Amputation (C 5)**

*Horst-H. Aschoff, MD*

*James P. Beck, MD*

*Jason T. Kahle, MSMS, CPO, FAAOP*

*Richard L. McGough, MD*

*Munjed Muderis, MB, ChB, FRACS, FAOrthA*

*Andreas Timmermann, CPO-G*

Learn the history, indications and technique of osseointegrated, percutaneous implants for rehabilitation following limb amputation from experts from around the world. Experience the “Endo-Exo-Prosthesis” from Lübeck, Germany, for above and below knee amputees will be presented as well as the first results from the University of Utah. Additionally, Dr. Muderis will report about the first case of a transhumeral amputee supplied with an osseointegrated device in Australia.

Safety of osseointegration implants (OI) for TFAs will be reported where mild infection and irritation of the soft tissue are the most common manageable side effects, and severe side effects are rare. The OGAAP-1 accelerated protocol reported in several multisite studies will be discussed. Significant improvements are achieved while allowing full ambulation at one-third the time of other OI protocols.

2:00 - 3:15 PM

   **Symposium: Lower Limb Treatment Options—Views from an Orthopedic and a Vascular Surgeon’s Perspective (C 6)**

*Michael Dillon, PhD, BPO (Hons)*

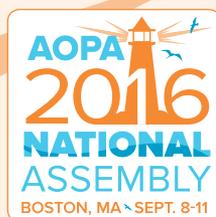
*John Femino, MD*

*Luigi Pascarella, MD*

*Donald Shurr, PT, CPO*

Many orthotists and prosthetists in general practice are referred patients with vascular disease and/or Diabetes, for evaluation and treatment of the lower limb. Knowledge of currently available prosthetic and orthotic components, socket and orthotic designs and technologies, are essential to provide satisfactory outcomes. Additionally, a working knowledge and complete understanding as to how each patient arrived in their present condition could improve our contribution to more successful function. Although referral sources vary, two common groups making referrals are the vascular surgeon, and the orthopedic surgeon.

The goals for today’s session include a review of respective clinical practices, drawing from available evidence and empirical clinical experience leading to healed wounds and maximum function. The O&P practitioner will leave with a better understanding of working criteria for making surgical decisions. Growing interest in shared decision making will involve the O&P practitioner. Resources provided by orthotists and prosthetists can help assist the patient with tools to make their individual lower limb decisions.



2:00 - 3:15 PM

  **Psychology and Public Health (C 7)**

Total patient care is addressed in this free paper session. (The following sessions run consecutively within this program.)

  **Survey on Infectious Disease in Orthotics and Prosthetics: Common Beliefs and Attitudes Among Practitioners (C 7A)**

*Goeran Fiedler, PhD*

*Ashley Muller, MSPO*

Standard infection control procedures for all professionals to follow are missing from the O&P profession, especially in places like fabrication laboratories and storage rooms, but have potential to better protect both patients and practitioners from unnecessary infection. Preliminary results of a survey study investigating current O&P infection control methods outside of patient examination rooms, assessing respective general knowledge among O&P professionals, and evaluating perception of infection risk in the O&P profession are presented during this session. Future analysis may provide the basis for the development of standard protocols to protect O&P patients and professionals from infectious disease.

 **Considerations for Amputation Surgery (C 7D)**

*Zach Weber, CP*

Surgery videos will reintroduce techniques of amputation surgery. Surgeries including a modified through knee procedure and modified Ertl procedure will be reviewed in this session.

  **System Group Dynamics and Their Effect on Innovation in O&P (C 7E)**

*Gerald Stark, MSEM, CPO/L, FAAOP*

Review a recent survey that was part of a doctoral dissertation that showed significant predictive relationships and correlations between system group dynamics and innovative behavior. You will be presented with suggested methods that can create a more innovative environment to respond to future change in technology and reimbursement.

 **Treating Pediatric Toe Walking—Is it Idiopathic? (C 7F)**

*Megan Smith, CO*

Learn the primary deficits that can lead to a diagnosis of idiopathic toe walking and current treatment options. The presentation will include video and gait data from multiple children diagnosed with ITW who were treated with orthoses.

 **Obesity in Amputees: A Systematic Review Demonstrating an Informational Deficiency (C 7B)**

*Greta Brecheisen, MSPO*

Review current research regarding elevated BMI in amputees and discuss how this information can be utilized to improve day-to-day practice.

 **Patient Satisfaction and Client-Centered Feedback Form (C 7C)**

*Debra Latour, MEd, OTR/L*

This presentation specifically describes the feedback form and its implementation during the prosthetic fabrication and rehabilitation process. Case studies offer insights to its correlation to scores derived from measures such as the Quick DASH and the SF-36, changes to the prostheses and impact on functional performance of the client.

 **Direct Medical Costs of Accidental Falls for Adults with Above Knee Amputations (C 7G)**

*Kenton Kaufman, PhD, PE*

*Benjamin Mundell, PhD*

This presentation details the medical costs of falls in adults with an above knee amputation.

FRIDAY

September 9, 2016

2:00 - 3:15 PM

**🦿 Treating the Lower Limb Amputee (C 8)**

Hear the latest research for advancing amputee care during this free paper session. *(The following sessions run consecutively within this program.)*

**🦿 Comparative Performance of a Fiberglass Dynamic Elastic Response Foot (C 8A)**

*Kenton Kaufman, PhD, PE*

The comparative functional performance of two types of prosthetic foot designs, carbon fiber vs. fiberglass composite, in individuals with transtibial amputation will be reviewed during this session.

**🦿 Measuring the Distal Load in Below-Knee Amputees with a Sensorised Socket and a Mobile App: A Case Study (C 8B)**

*Andrea Giovanni Cutti, MEng, PhD  
Gennero Verni, MEng, CPO*

Wearable technologies embedded in the prosthesis combined on mobile apps can ease the fitting of sockets for below knee amputees. This session introduces the first applications of one of these systems called IFORCE by ALPS.

**🦿 A Bio-Inspired Algorithm for a Robotic Foot-Ankle Prosthesis Provides Robust Control of Level Walking and Stair Ascent (C 8C)**

*Kiisa Nishikawa, PhD  
Zhixiu Han, PhD*

Intrinsic muscle properties (preflexes) enable muscles to adapt instantaneously to changes in load without requiring sensory feedback. We developed a “winding filament” hypothesis (WFH) for muscle contraction that accounts for intrinsic muscle properties by incorporating a role for the giant titin protein in active muscle. This lecture will detail the results that demonstrate successful implementation of a robust control algorithm for a robotic foot-ankle prosthesis based on the winding filament hypothesis. By implementing a control algorithm that, like muscle, adapts instantaneously to changes in load, robust control of level walking at variable speed and strain ascent has been achieved with minimal sensing and no change in parameters.

**🦿 Evidence-based Recommendations for Trial Fittings of Microprocessor Controlled Hydraulic Prosthetic Knee Joints in Limited Community Ambulators (C 8D)**

*Andreas Kannenberg, MD, PhD*

Hear the results of a systematic review of studies on MPK use in above-knee amputees with MFCL-2 mobility. Based on the evidence analyzed, recommendations for patient selection for trials with MP stance and MP stance and swing control knees in this population will be presented.

**🦿 Biomechanical Analysis to Show Specific Features of the Different Pro-Flex Feet (C 8E)**

*Gudfinna Halldorsdottir, MSc*

Learn the results from testing three new prosthetic feet Pro-Flex, Pro-Flex XC and Pro-Flex LP. This is a prosthetic foot family new to the market. Pro-Flex is an everyday foot, Pro-Flex XC is a high active foot and Pro-Flex LP is a low profile foot. The results show the differences in functionality between these three ESAR feet. For comparison two conventional ESAR feet and one hydraulic foot was tested.

**🦿 Biomechanical Analysis to Show the Difference between Two Low Profile Prosthetic Feet (C 8F)**

*Jeroen Nijman, MSc*

Amputees with long residual limbs have the advantages of improved socket fit, less torque on the muscles and improved stability compared to shorter residual limbs. Currently low profile feet are the main selection for this user group. The disadvantage of low profile feet is limited space for a flexible lever arm and therefore often considered to be stiff. This presentation highlights the results of comparative testing between a stiffer low profile foot and a more flexible low profile foot.

**🦿 Characterizing the Stiffness of Running-Specific Prostheses (C 8G)**

*Owen Beck*

Despite the potential importance of running-specific prosthetic stiffness on athletic performance, manufacturers report stiffness using arbitrary categories rather than actual stiffness values. Therefore, we will discuss a way to characterize the mechanical stiffness values of running-specific prostheses. Measuring running-specific prosthetic stiffness at 0° overestimates stiffness compared to using angles that occur during running and when athletes with leg amputations change prosthetic models, sagittal plane alignment, and/or height, the stiffness profiles also change; therefore variations in comfort, performance, etc. may be indirectly due to altered stiffness.

**🦿 The Biomechanical Need of the Proximal Brim in Transfemoral Sockets for Optimized Force Transmission in Prosthetic Gait (C 8H)**

*Malte Bellmann, Dipl.-Ing*

Review a novel study design that has been developed to objectify force transmission principles in three types of transfemoral sockets (CAT-CAM, MAS, subischial socket). First results suggest that the general force transmission does not differ significantly between ischium/ramus containment sockets (MAS and CAT-CAM) during walking in different gait situations. However, with the subischial socket that does not contact the pelvis, significant differences can be identified compared to ischium/ramus containment sockets.

2:00 - 5:00 PM

**🦿🔧🦿 Subtalar Control Foot Orthoses (SCFO) Fabrication Workgroup—Part I (T 3/P 2)**

*Dennis Janisse, CPed*

*Jeremy Janisse CPed, COA*

Learn what a Subtalar Control Foot Orthoses (SCFO) really is, as well as indications and applications for use in your practice. Many different types of SCFO's will be reviewed, both custom and pre-made/off the shelf. Learn how to fabricate one common style of SCFO used often in pedorthic and orthotic practices, for care of many ankle, hindfoot and midfoot problems. Live demonstrations of casting, modifications, drape molding of plastic, identifying trim lines, pattern design, assembly of leather shell, pulling/molding of leather and final trimming and finishing will be presented.



**FRIDAY**

**September 9, 2016**

**Concurrent Education (Cont'd.)**

**2:00 -5:00 PM**

**Business Solutions for Today's O&P Executive (B 3)**

*(The following sessions run consecutively within this program.)*

**This Isn't Your Father's O&P (B 3A)**

*Russell Hornfisher, MBA, MSOD*  
 Providing O&P services in today's medical economy requires a different array of practitioner skills than were needed just 10 years ago. RAC Audits, improved treatment of diabetic patients, more surgical options to reduce amputations, as well as a variety of other changes in healthcare have changed the use of O&P products and services. To be an O&P health care provider in today market place different skills are needed than we used in the past. This program will look at some of the options to consider in today's environment.

**5 Steps to Audit Success (B 3B)**

*Dale Berry, CP, LP, FAAOP*  
 An appeal can be a confusing, daunting and challenging procedure for anyone not prepared, familiar or engaged in the array of pathways and practices involved with the audit process. This presentation will provide detailed insights on the 5 key steps to optimize efficiency and success in navigating the audit and appeal process.

**Cyber Liability—#1 Coverage Not on O&P Facility Owner's Radar (B 3C)**

*Don Foley, Cailor Fleming Insurance Company*  
 Health care companies are the #1 industry in America being attacked by hackers. We will discuss cyber risks which include: Identity theft as a result of security breaches where sensitive information is stolen by a hacker or inadvertently disclosed,

including such data elements as Social Security numbers, credit card numbers, employee identification numbers, drivers' license numbers, birth dates and PIN numbers. Perils include business interruption from a hacker shutting down a network, damage to the firm's reputation and the costs associated with damage to data records caused by a hacker. Theft of valuable digital assets, including customer lists, business trade secrets and other similar electronic business assets will be addressed, as well as introduction of malware, worms and other malicious computer code. Coverage will include human error leading to inadvertent disclosure of sensitive information, such as an email from an employee to unintended recipients containing sensitive business information or personal identifying information, as well as the cost of credit monitoring services for people impacted by a security breach, and lawsuits alleging trademark or copyright infringement.

**The Top 5 Things to Know About Your Business to Survive and Succeed (B 3D)**

*Mark Ford*  
*Elizabeth Ginzal, MHA, CPO*  
*Michael Oros, CPO, FAAOP*  
*Jim Weber, MBA*  
 Hear from a seasoned panel of financial experts that will discuss the top five things you must know about your O&P business to survive and succeed. Current and historical operating performance data will also be used to illuminate trends taking place in our industry.



**3:30 - 5:00 PM**

**Pediatric Lower Extremity Orthotic Symposium (C 9)**

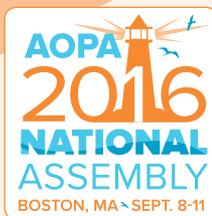
*Thomas V. DiBello, CO, LO, FAAOP*  
*Additional Speakers To Be Announced*

Learn current treatment concepts for lower extremity management in pediatric patients.

**Modeling Good Behavior. How You Can Help Create a Model System of Interdisciplinary Amputee Care (C 10)**

*David Crandell, MD*  
*George Gondo, MA*  
*Jon Holmes, PT, CP*  
*Danielle Melton, MD*  
*Kristen Vito, DPT*

A team approach to amputee rehabilitation has long been viewed as the best way to optimize patient outcomes. In today's difficult reimbursement environment, working effectively with other healthcare providers has become an essential part of providing prosthetic care. This symposium will feature panelists from two different rehabilitation hospitals - Spaulding Rehabilitation (Charlestown, MA) and TIRR Memorial Hermann (Houston, TX) - and prosthetist clinicians who regularly work with the rehabilitation team. This panel will discuss how prosthetists can play a role in developing comprehensive rehabilitation programs for their patients with limb loss, how prosthetists can work effectively with physiatrists and other members of the rehabilitation team and will help attendees identify solutions to documentation issues for insurance reimbursement.



FRIDAY

September 9, 2016

### **Prosthetic Socket Technology—The Foundation of Amputee Care (C 11)**

Learn the latest in prosthetic socket technology during this free paper session. *(The following sessions run consecutively within this program.)*

#### **Influence of Soft Tissue Stiffness on Socket Interface Movement (C 11A)**

*Matthew Wernke, PhD*

Previous work has shown a microprocessor elevated vacuum system can detect movement of the residual limb inside a socket. Further this data corresponds to the quality of the socket fit and suspension. This session explores the influence of soft tissue stiffness on this movement data.

#### **A Pneumatic Prosthetic Suspension System: Design and Clinical Evaluation (C 11B)**

*Seyedeh Zahra Anousheh, MSc*

Various types of prosthetic suspension systems have been used for trans-tibial prostheses. Daily volume loss of the stump may cause pistoning (vertical movement) of the residual limb inside the prosthetic socket. A suitable suspension system lessens the amount of pistoning, improves socket fitting and function and leads to a safe and independent gait for the amputee. This study represents a pneumatic suspension system and evaluates pistoning movement within total surface bearing sockets before and after using this system in five trans-tibial amputees.

#### **Socket Displacement Under Load with the Unity Elevated Vacuum System (C 11C)**

*Hossein Gholizadeh, PhD*

Currently, research is lacking on how the Unity elevated vacuum system controls pistoning within the socket, with different socket materials. This information is important to guide prosthetic prescription and to characterize this technology within the current scope of prosthetic suspension systems. Therefore, mechanical testing was conducted to provide quantitative evidence to guide clinical practice.

#### **Change in Pressure Distribution Within an Adjustable Socket System (C 11D)**

*Garrett Hurley, CPO*

In prosthetic sockets, the appropriate pressure distribution is paramount, and is integral for biomechanical control, containment, comfort, and maintaining skin integrity. Pressure distribution is dependent on how the socket is configured or shaped and the materials that comprise the socket. In this presentation, we will investigate how the pressure distribution within a dynamic socket is affected by shape change.

#### **Case Study: Comparative Effectiveness of an Adjustable Transfemoral Prosthetic Interface Accommodating Volume Fluctuation (C 11E)**

*Andrew Pedtke, MD*

The socket-limb interface is vital for functionality and provides stability and mobility for the amputee. Minimum volume fluctuations that have been reported to occur commonly among amputees during the acute and intermediate stage of rehabilitation were simulated. In this session we will discuss the results which demonstrate a need for a well-designed clinical trial using outcome measures comparing the efficacy of an adjustable prosthetic socket interface to the standard of care.

#### **An Alternative Method for Fabricating Transtibial Sockets Through the Use of Socket Cones (C 11F)**

*Girma Bireda Assena*

Learn about a new technology, direct socket cone method, which allows trans-tibia prosthetic socket to be manufactured directly onto the stump. Direct socket cone does not require high skills for fabrication.

What participants said about the last meeting—

“Great conference!”



#### **Development and Application of a 3D Thermographic Imaging System to Improve Socket Fitting in Below-Knee Amputees (C 11G)**

*Angelo Cappello, MEng, PhD*

*Andrea Giovanni Cutti, MEng, PhD*

Socket design is essential and challenging. This presentation introduces a simple and accurate 3D thermographic image system that can be a breakthrough in socket optimization.

#### **Volume Management with a Twist (C 11H)**

*Pamela Hale, CPO*

*Joe Mahon, CP*

This session will demonstrate how to enhance fit and function of prosthetic sockets by utilizing a user adjustable mechanical closure system to accommodate volume fluctuations. A patient adjustable socket is of value to patients and prosthetists in order to provide immediate accurate socket fit and maximal functional control of the prosthesis.

#### **Functional and Biomechanical Differences Between Weight-Activated Brake (WAB) and Automatic Stance-Phase Lock (ASPL) Prosthetic Knee Joint Mechanisms (C 11I)**

*Jan Andrysek, BSc, MASC, PhD, PEng*

This session will review a clinical study involving ten individuals that

examined the biomechanical and functional differences between weight-activated braking (WAB) and automatic stance-phase lock (ASPL) prosthetic knee joints. With the ASPL knees, the participants walked with lower energy expenditure and exhibited fewer gait deviations particularly at the pelvis, compared to WAB knees.

#### **Biomechanical Investigation of Currently Available Microprocessor Controlled Prosthetic Feet (C 11J)**

*Bjoern Altenburg, CPO*

We will discuss a study that determined the functional gain of microprocessor controlled feet. Clear benefits from MPF over conventional feet will be identified. Comparing the MPF to each other, clear benefits from real-time control/adaptation over incremental adaptation will be presented.

#### **Development of the Northwestern University Flexible Sub-Ischial Vacuum (NU-FlexSIV) Socket for Persons with Transfemoral Amputation (C 11K)**

*Stefania Fatone, PhD, BPO (Hons)*

This presentation describes the development of the Northwestern University Flexible Sub-Ischial Vacuum (NU-FlexSIV) Socket for persons with transfemoral amputation.

**FRIDAY**

**September 9, 2016**

4:00 - 5:00 PM

**Upper-Limb Prosthetics—A Treatment Specialty (C 12)**

If you specialize in upper-limb prosthetics, you won't want to miss this free paper session highlighting pattern recognition systems, overuse research results, creative solutions, measurement tools and bilateral fitting techniques. *(The following sessions run consecutively within this program.)*

**Simultaneous 2-Degree-of-Freedom Pattern Recognition Control for Upper Limb Prostheses (C 12A)**

*Nathan Brantly  
Blair Lock*

Recent clinical evaluations of pattern recognition systems have been positive, with greater than 80% of patients showing positive outcomes. In this preliminary work, we will show that it is feasible to extend the benefit of pattern recognition to include simultaneous movements.

**Overuse Injuries and Priority Goals: Focus on Partial Hand (C 12B)**

*Lynsay Whelan, MS, OTR/L*  
Hear the results of a research study investigating overuse injury in individuals with upper limb loss

including the most sensitive tools for evaluating overuse. Participants were also asked to identify tasks that were difficult to perform and important to them, the results of this data will be discussed.

**Cutaneous Anchor Technology and Creative Solutions to Complex Problems (C 12C)**

*Debra Latour, MEd, OTR/L*  
Many of the individuals with whom we work have unique, complex problems that require critical and creative thought. During this presentation, we will offer simple solutions which will overcome these more complex challenges.

**Novel Tool for Measuring Compensatory Shoulder Movements in Upper Limb Amputees with Myoelectric Prosthetics (C 12D)**

*Rahul Kaliki, PhD*

Patients with upper extremity prosthetics often rely on compensatory movements to complete complex tasks involving movement at multiple joints. We quantified these compensatory movements and present a novel tool for the evaluation of prosthetic functionality, with implications for individualized training protocols during this lecture.

**Impact of Bilateral Upper Limb Prosthesis Simulators in Pre-Prosthetic Training: A Case Study (C 12E)**

*Debra Latour, MEd, OTR/L*

The VC/VO prosthesis simulator was used during the pre-prosthetic delivery phase of intervention to address skills drills of grasp and release in diverse planes, functional splinter skills and bi-manual functional tasks; accompanied by work with the mirror box to occlude vision and address

position in space, surface/ object feature identification and object identification. This presentation will conclude whether such emphasis may help to improve functional outcomes and consumer satisfaction with the definitive prosthesis, impact user acceptance and minimize rejection of the prosthesis.

**First Bilateral Prosthetic Fitting After Bilateral Glenohumeral Amputation and TMR Surgery Worldwide (C 12F)**

*Erik Andres, CPO  
Birgit Bischof, PT*

This session will review a bilateral TMR surgery after shoulder disarticulation with subsequent fitting and holistic rehabilitation that was performed successfully in Europe. After a few months of intense rehabilitation, training and orthopedic support by an interdisciplinary team from Ottobock in Germany, the TMR user was satisfied and able to control his prosthetic arms via five independent electrode sites each, bilaterally and simultaneously in everyday life, and went back to his home country Libya.

**FRIDAY NIGHT LIGHTS Happy Hour**

5:00 - 6:30 PM

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. This year's Happy Hour is based on the theme, Friday Night Lights—so be sure to wear your favorite jersey no matter what the sport. The Happy Hour is hosted by exhibitors. A list of sponsors will be included in the final program and on the website to make it easier for you to partake in the fun. The Happy Hour reception is included in your full conference registration.



**Wine Tasting and Auction**

6:00 - 8:00 PM



Everyone knows that the Wine Tasting and Auction is an important component in supporting AOPA's government relations programs and the legislative activities of the profession. What everyone may not know is:

- The Wine Tasting and Auction is a fun event for everyone! Even though the registration is \$150 you receive a \$100 credit towards your first winning bid.
- There is much, much more to bid on than just wine—last year's event included jewelry, Tiffany Crystal, cigars, a vacation, bourbon and more.
- You will have a chance to sample wines from various wineries as well as partake from an open bar.
- Enjoy the camaraderie as members from all aspects of the profession unite for an important cause.

**NINTH ANNUAL AOPA 2016 WINE TASTING & Auction**



**Receive \$100 Credit** towards your first winning bid!

# Saturday

September 10, 2016

## Membership Meeting and Awards Ceremony

7:30 - 8:45 AM



The Annual AOPA Membership meeting and Awards Program is the perfect time to receive an update on what's happening with your organization and profession. Receive an update from the AOPA Treasurer and learn what accomplishments your membership organization has made over the past year. An awards program will follow –join us to honor the following:

- Lifetime Achievement Award Winner
- Legislative Advocacy Award Winner
- The Otto and Lucille Becker Orthotic Award
- Edwin and Kathryn Arbogast Prosthetic Award
- Introduction of AOPA Leadership



## Award Winning Hamontree Lectures (B 4)

8:45 - 10:00 AM

**BEST  
BUSINESS  
ABSTRACT**

The Sam E. Hamontree, CP(E) Business Education Award was created to recognize the best business paper submitted for presentation at the AOPA National Assembly. 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. The winner will be announced at the Sunday morning General Session.

*(The following presentations run consecutively within this program.)*



## Find a Friend: Bringing New Technology to O&P (B 4A)

Eric Burns, CO

Our industry is currently experiencing a technological revolution—from 3D printing, Micro-processor control devices, Exoskeletal systems, wearable devices, to monitoring devices that will change our field in just a few years. These technologies will have a huge impact on our patients lives. Many of these advances are happening outside of orthotics and prosthetics. In this session, we will discuss the need to develop new relationships outside of O&P to ensure these technologies become a part of our patients lives and these emerging technologies are a part of orthotic and prosthetic practices.

## Developing a Business Model (B 4B)

Chris Field, MBA

Many companies operate under a “silo” model of organization and management. Organizational charts list people/positions at the top of the chart and their responsibilities follow a downward listing. Hopefully, what actually transpires during

the day-to-day of the real world will fall neatly under one of the designated silos. But what if it doesn't and more importantly, would you know if something critical to the health of your business was being neglected? This lecture will discuss creating a Process Model specifically for your business, allowing an owner or stakeholder to verify that all aspects of their business are examined. Nothing will fall through the cracks or be neglected as a result of everyone thinking it was someone else's responsibility. Rather than looking at the business from a “Management and their responsibilities view” we are shifting the landscape in this case to the process, the work flow of your company. How can this be accomplished? By evaluating and analyzing each aspect of your business from start to finish, charting the “Process” and then adding color and details associated with each step along the way. By looking at your business in this manner, you will identify areas you simply took for granted, areas that you will realize need far more attention and areas that if not soon addressed and cared for may lead to the untimely demise of your entire business.

## Documentation Changes That Work! Proof that Better Documentation Leads to Overturn of Denials (B 4C)

Molly McCoy, L/CPO

Practitioners will learn techniques for improving clinical data collection and note writing based on 71 case reviews from 25 independent O&P practices across the U.S. in 2015. Real case examples will be used to highlight proven documentation changes that resulted in an 80% overturn of denials at appeal levels below ALJ.

**AUDIENCE  
VOTES  
THE WINNER**

**SATURDAY**

September 10, 2016

**Concurrent Education**

8:45 - 10:15 AM

Choose from the following concurrent education tracks.

**👤📄 Outcomes of Partial Foot Amputation Can Inform Difficult Decisions About Amputation Surgery Using a Shared Decision-Making Approach (C 13)**

*Michael Dillon, PhD, BPO (Hons)*

*Stefania Fatone, PhD, BPO (Hons)*

*Tammy Hoffmann, PhD, BOccThy (Hons)*

With support from the American Orthotic and Prosthetic Association (AOPA), we have undertaken a comprehensive review of the outcomes of dysvascular partial foot amputation including: rates of common complications, wound failure, dehiscence, reamputation, mobility, quality of life, functional ability, participation, psychosocial outcomes (e.g., depression, anxiety, body image) and mortality. What we have learned from this review has informed the content of shared decision-making resources designed to help patients and doctors engage in the sort of meaningful conversations necessary to make truly well-informed decisions about amputation surgery knowing what the likely outcomes will be. In this symposium, we will describe what shared decision-making is and why it is an effective way to make decisions about treatment. We'll review some of the key outcomes of dysvascular partial foot amputation and showcase how this evidence has been used in the design of decision aids and conversation guides that help patients and doctors share in the process of informed decision-making.

**📄 Scoliosis Symposium: Current Practices and Controversies (C 14)**

*Thomas Colburn, CO, CPed, FAAOP*

*Miguel Gomez, MD, LO*

*Carol Hentges, CO*

*Ralph Hooper Jr., CPO*

*Thomas Gavin, LO, CO*

*Keith Smith, CO, FAAOP*

Presentations will include state of the art practices from different perspectives and controversies surrounding them. Each speaker will show positives, what we may do better and how we can continue to move forward in the 21st century.

What participants said about the last meeting-

“ The poster session and the quality of the speakers is what really sets AOPA apart...I was impressed with the quality of science of the posters and the content presented by some of the speakers. ”

**Concurrent Education**

10:00 - 11:00 AM

**👤🔧 Unique Properties and Techniques for Flexible Sockets (T 5)**

*Nicolas Vogel, CP*

Learn the unique properties of an EVA material that is the result of a special additive. Differences from standard EVA materials used for flexible inner sockets will be covered during the program, as well as proper usage and fabrication tips for optimal outcomes.

**Concurrent Education**

11:00 AM - Noon

**👤🔧 Designing a Vacuum Thermoforming System for the O&P Lab (T 6)**

*Gary Bedard, CO, FAAOP*

Review considerations for designing a vacuum thermoforming system for the O&P lab.

**Expo Day—Exhibit Hall**

10:00 AM - 2:00 PM

The AOPA Assembly planning committee is pleased to present the 2016 Expo Day—A first for AOPA. We hope you will join us for a fun, informative and interactive day in the exhibit hall.

- Interesting events every hour
- Special deals from exhibitors throughout the day
- Scheduled entertainment and special guests
- Door prizes and giveaways every 30-minutes.



**Exhibit Hall Open**

10:00 AM - 6:30 PM

**Lunch in the Exhibit Hall**

Noon - 1:00 PM

**📄 Scoliosis Lunch and Learn: Current Practices and Controversies\* (C 15)**

Noon - 1:30 PM

*Thomas Colburn, CO, FAAOP*

*Thomas Gavin, LO, CO*

*Miguel Gomez, MD*

*Carol Hentges, CO*

*Ralph Hooper Jr., CPO*

*Keith Smith, CO, FAAOP*

Join your colleagues for lunch and a spontaneous panel discussion to address questions from the audience and each other. Reserve your seat today as this session has limited seating. Extensive time will be dedicated to participant discussions.

\*Tickets are \$50

**Prosthetic Poster Presentations**

1:00 - 2:00 PM

**SATURDAY**

September 10, 2016

**Concurrent Education**

2:00 – 5:00 PM

Choose from the following concurrent education tracks.

**👤 Boston Strong Grand Rounds (C 16 A-B)**

On possibly no day since the tragic events of September 11, 2001, has the nation been galvanized by an event as tragic as the Boston Marathon bombing on April 15, 2013. This event touched Orthotics and Prosthetics in a very unique way, possibly in a way never before seen in our profession as many of the injuries that day resulted in limb loss and our practitioners became an integral part of assisting the brave survivors as they faced a life changing event. Our colleagues in the Boston area were on the forefront of the management of these survivors. It is important, as we return to Boston, the birthplace of the American Revolution, that we look back, and mourn those that perished and learn from those that survived.

Part A of this two part afternoon program will highlight the events of that day and the following months as we learn from the survivors and their care gives the lessons learned in the management of their trauma from a personal side.

This will be followed by a Grand Rounds session that will include the prosthetists, physical therapists, and surgeons who managed three of the survivors. The lessons learned from that day and the days and months following will be presented in a classic grand rounds case study format.



2:00 - 3:15 PM

**👤 🏠 Clinical Practice Guidelines for Orthotics and Prosthetics (C 17)**

*Phillip Stevens, MEd, CPO*

*Deanna Fish, MS, CPO*

Clinical Practice Guidelines have become increasingly important in today's healthcare environment. Derived from systematic review and meta-analysis of scientific evidence and further informed, when needed, by clinical expertise and consensus, these statements can help define and guide evidence-based healthcare. They are intended to help avoid inefficiencies and optimize the utilization of healthcare dollars. In recent years, Clinical Practice Guidelines have been developed for cranial remolding orthoses, the prescription of microprocessor knees, post-operative management of individuals with transtibial amputation and the selection of prosthetic foot and ankle mechanisms. The development process, competing guideline models and outcomes to date will be described in this session.

2:00 - 3:25 PM

**👤 🏠 Strategies for Effective Implementation of Outcomes in the O&P Clinic (C 18)**

*Jared Howell, MS, CPO/L, FAAOP*

*Brian Kaluf, CP*

*Joshua Lyman, MS*

*Lorin Merkley, CP*

*Cara Negri, BSME, CPO*

*Shane Wurdeman, PhD, CP, FAAOP*

Outcomes, outcomes, outcomes. We get it, everyone is discussing how important it is to do outcomes. Yet, is your practice effectively collecting outcomes? Could your practice be collecting outcomes in a more efficient manner with less disturbance to the flow of your office? What are the various instruments available? By the end of 2016, CMS has stated that 85% of all Medicare payments will have a value based measure tied to them. This symposium will present findings and results from the use of various methods currently being developed and utilized within clinics to allow Prosthetists and Orthotists to collect these outcome measures without breaking up the flow of the office. By the end of the symposium the audience will have various ideas and methods to take back to their own practice to begin to effectively implement outcome measures without impacting productivity.

**👤 🏠 Relasting a Shoe for Severe Foot Deformities (T 7/P 4)**

*Dennis Janisse, CPed*

*Jeremy Janisse, CPed, COA*

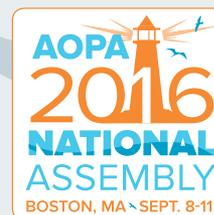
Shoe Modifications are a very important part of Pedorthic management of the foot. Learn and recognize the many foot problems and deformities that relasting can be used for, including a possible alternative to custom shoes. Relasting can be accomplished easily, cosmetically acceptably, and in a short period of time. This program will include 1) Identifying what part of the shoe needs to be enlarged/changed; 2) How to cut the shoe sole and insole; 3) Provide the filler/spacer effectively to maintain the new shape; and 4) Finish with a new sole providing a much needed fitted shoe.

**👤 🏠 DME CERT Outreach and Education Task Force: Process and Errors (B 5)**

*Michael Hanna, MPA, CDME*

*Additional Speakers to be Announced*

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 with O&P categories. The panel will then parallel those errors with Medicare's requirements. There will be time for questions from the audience at the conclusion of the presentation.



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**SATURDAY**

**September 10, 2016**

**Concurrent Education**

**3:30 - 5:00 PM**

Choose from the following concurrent education tracks.

**Treatment Options in Lower Limb Orthotics (C 19)**

Join us for an interesting free paper session featuring treatment options in lower limb orthotics. *(The following sessions run consecutively within this program.)*

**Bracing for Hip Osteoarthritis (C 19A)**

*Marjorie Albohm, MS, ATC*

Review results of biomechanical and clinical trials on a new garment for patients with hip osteoarthritis. The garment was shown to alter the position and forces through the hip during stance. Furthermore, a placebo controlled RCT demonstrated improvements in daily activities.

**Clinical Effects of an Innovative Spinal Orthosis on Low Back Pain and Pain-free Walking Distance (C 19B)**

*Michael Lang*

A clinical survey of 31 patients was conducted with an innovative spinal orthosis before and after 4 weeks of use. Pain and pain-free walking distance (PFWD) were assessed and first results will be detailed in this session.

**Comparison of the C-Brace Orthosis to Conventional KAFOs: Metabolic Energy Consumption and Safety as Significant Parameters that Define Patient Benefits (C 19C)**

*Thomas Schmalz, PhD*

Learn how the use of a microprocessor-controlled orthotic system (C-Brace) may reduce the metabolic energy consumption and increase the safety significantly compared to conventional KAFO principles.

**Intelligent Orthotic Knee with Variable Resistance (C 19D)**

*Edward Lemaire, PhD*

An intelligent, hydraulic, orthotic knee joint was developed that controls knee flexion during walking and stair descent. With one lateral control joint and a single axis joint medially, on a KAFO, this modular low profile design fits beneath clothing and the microprocessor-controlled variable resistance will allow people to safely negotiate different terrain types.

**A New Approach to Orthotic Treatment of Knee Osteoarthritis Using an Ankle-Foot Orthosis (C 19E)**

*Andreas Kannenberg, MD, PhD*

Review a novel AFO to treat uni-compartmental knee osteoarthritis as an alternative to knee offloaders. Biomechanical and first clinical studies have shown that the compartmental offloading and pain reduction is comparable to that of knee offloaders, but the AFO may have a potential to improve long-term patient adherence.



**Using the AFO-FC as Therapeutic Treatment for Patients Diagnosed with Equinus Deformity (EQD) (C 19F)**

*Curt Bertram, CPO, FAAOP*

For years, pediatric patients diagnosed with equinus deformity have been managed with standards of practice and beliefs that are now being challenged by new paradigms and research.

**A Functional Evaluation of a Custom Modular KAFO in a Veteran Subject with TBI (C 19G)**

*Michael Kartel, CO, BACP*

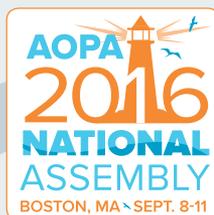
*Tyler Klenow, MSOP, CO, CPT*

A modular KAFO is one with independently functioning AFO and KO portions. Limited research is available on this orthotic intervention and some question its clinical applicability. This session will discuss results of a comparison of the different conditions of this orthosis to a carbon fiber AFO in a veteran subject with TBI.

**Case Report on the Use of Bilateral Myoelectric Elbow-Wrist-Hand Orthoses for the Remediation of Upper Extremity Paresis following a Spinal Cord Injury (C 19H)**

*Marlies Cabell, CPO*

This case report presents a user's experiences with bilateral myoelectric upper extremity orthoses for the remediation of upper limb paresis following a spinal cord injury. Through regular practice and therapy, the user is able to use the devices to achieve self-feeding and self-grooming tasks that were previously impossible before he received the myoelectric devices.



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**SATURDAY**

**September 10, 2016**

**Concurrent Education (Cont'd.)**

**3:30 - 5:00 PM**

**Outcomes Research and Evidence Based Practice in O&P— Validity, Functionality, Performance and More (C 20)**

Hear the latest outcomes research and see how evidence based practice in O&P is being put to the test during this free paper session. *(The following sessions run consecutively within this program.)*

**Concurrent Validity of Lower Limb Domains of the Continuous Scale Physical Functional Performance-10 (CS-PFP10) Assessment in Transfemoral Amputees (C 20A)**

*M. Jason Highsmith, PhD, PT, CP, FAAOP*

*Jason T. Kahle, MSMS, CPO, FAAOP*

This session compares the agreement between a novel test of ADL function with common clinical outcome measures to establish concurrent validity.

**Mobility and Perceived Functional Changes with Unilateral Transfemoral Amputees Using a New Microprocessor-Controlled Knee (C 20B)**

*Knut Lechler, CPO*

Review clinical outcome measures showing the changes in mobility and psychometric measures when using a new MPK.

**Differences in Physical Performance Measures Among Patients with Unilateral Limb Amputations Classified as Functional Level K3 vs. K4 (C 20C)**

*Megan Sions, PhD, DPT, PT*

Prosthetic prescription is based on functional level classification, yet there has been little research regarding what clinical measures help to differentiate among various functional K-levels. The results presented during this session provide evidence that patients with a unilateral transfemoral or transtibial amputation classified at the K3 functional level have slower self-selected and fast gait-speeds, as well as worse performance on the Timed Up and Go, when compared to their peers classified at the K4 level.

**Decision Trees for Educating Older Adult Prosthesis Users (C 20D)**

*Daniel Lee, PT, DPT, GCS*

Older adults are at high risk of developing secondary complications associated with prosthesis use. Novel approaches to educating older adults, such as the decision trees, may be useful in preventing such incidents. Methodology and results of decision trees made to aid older adults in managing their prosthetic socket fit will be presented.

**Mediating the Introduction and Use of Standardized Functional Outcome Measure Tests for Lower Limb Prosthetic Performance in Clinical Settings (C 20E)**

*Jon Smith, CPO*

Functional Outcome Measure (FOM) tests administered in a clinical setting provide essential information regarding the locomotor performance of individuals with lower-limb amputation as enabled by their prosthetic device. However, few clinicians routinely collect this data, in part due to their unfamiliarity with FOM set-up and execution. Creating an easy to use method of collecting and leveraging these metrics has the potential to encourage clinicians to capture this data.

**The POQOL-100's First 100 (C 20F)**

*Rachael Lavigne, CPO*

*Michael Wininger, PhD*

The POQOL-100 is an emerging quality of life tool designed from 17 different quality of life instruments. During this session we will present the results from the first 100 patient interactions with POQOL.

**Modus Trex Activity Monitoring to Track Recovery Following Amputation: A Case Report (C 20G)**

*Teri Chou, PhD*

*Bradeigh Godfrey, DO*

Learn how the Modus Trex was used clinically to monitor a new amputee's recovery following transfemoral amputation. The system provided insights unique to functional measures performed in the clinic and improved the patient's clinical care.

What participants said about the last meeting—

“The Assembly gives me the opportunity to meet with and socialize with industry representatives and colleagues.”

3:30 - 4:00 PM

**Biomechanical H&P of the Pediatric Patient (P 5)**

*Louis DeCaro, DPM*

You, the pedorthic practitioner, can finally feel comfortable treating pediatric patients. Learn the ins and outs of how the doctor assesses pediatric patients biomechanically and helps create a common language throughout professions. Brace making, evaluation, and understanding overall is improved.

4:00 - 4:20 PM

**Understanding Everything about Biomechanics & Gait in 5 Minutes or Less! (P 6)**

*Louis DeCaro, DPM*

Pedorthists will learn how to biomechanically recognize every foot that walks through your door in less than 5 minutes. Learn to adapt biomechanical protocols for every patient with ease and precision! Attendees will be able to look at every patient and know what kind of care is best and why they have their condition in the first place.

4:20 - 4:40 PM

**Reassessing the Value of Gait Restoration Specialists (P 7)**

*Anthony Lazzarino, DPM*

In understanding the role and value of the Gait Restoration Specialists to health care management systems a substantial measure of worth in the relationship is demonstrated. A reevaluation of the value Gait Restoration specialists will illustrate a profound development in the field of pedorthic health care.

4:40 - 5:00 PM

**Distinguishing Categories Of Medial Column Ligamentous Failure (P 8)**

*Ian Engelman, CPO, MS*

It is clinically useful to distinguish the broad realm of medial column breakdown into more discrete and meaningful categories. The new technology of 3D rendering has enabled the evaluation of the pathomechanics of the foot in new and compelling ways.

**SATURDAY**

September 10, 2016

**Concurrent Education (Cont'd,)**

3:30 - 5:00 PM

 **Fabricating the Conventional Short Leg Orthosis (T 8)**

*Anthony Wickman, CTPO*

A comprehensive overview of the fabrication of the metal structure of a conventional short leg orthosis. We will demonstrate tracing delineation, metal bending, and the tools required to complete this task during this program.

3:00 - 4:00 PM

 **DME MAC Medicare Update Session (B 6)**

*Michael Hanna, MPA, CDME*

*Additional speakers to be announced*

Join DME MAC Provider Outreach and Education representatives as they discuss recent changes and updates in DMEPOS Medicare. There will be time for questions from the audience at the conclusion of the presentation.

4:00 - 5:00 PM

 **How to Obtain Proper Documentation (B 7)**

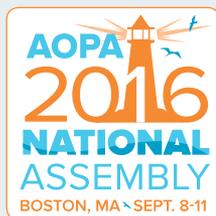
*Joe McTernan, Director of Reimbursement Services, AOPA*

Learn strategies for properly documenting the services you provide as well as strategies to obtain proper and relevant documentation from referral sources and other healthcare providers. The session will be interactive, allowing attendees to share what works and does not work in their practice, and will encourage discussion among the audience regarding what is considered crucial documentation for improving chances of claim payment.

**Closing Extravaganza—Exhibit Hall**

5:00 - 6:00 PM

Join your colleagues in the Exhibit Hall for the hall closing finale. While there is still a full day of education and learning ahead, this will be the last opportunity to visit exhibitors and take advantage of those last minute show specials.



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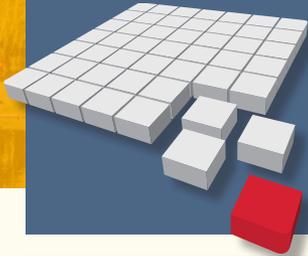
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# Sunday

September 11, 2016



**General Session**

7:30 - 9:45 AM



Prosthetics 2020 is the American Orthotic and Prosthetic Association's (AOPA) ground-breaking project to shape the future of the prosthetic profession through evidence, outcomes and research. Join us for an informative session to learn how top physicians and researchers in the U.S. have been brought together to form a Medical Advisory Board and their plans for influencing the future.

**Concurrent Education**

10:00 - Noon

Choose from the following concurrent education tracks.

**The Role of the Prosthetist in Promoting Evidence, Documentation, and Patient Self-Advocacy to Ensure Access to Prosthetic Devices (C 21)**

- George Gondo, MA
- Jason Highsmith, PhD, PT, CP, FAAOP
- Dan Ignaszewski
- Jason Kahle, MSMS, CPO, FAAOP
- Kenton Kaufman, PhD, PE
- Michael S Orendurff, PhD

Access to medically necessary prosthetic devices remains a challenge for prosthetists and patients alike. Payers demand evidence to define medical necessity. In the absence of guidance, prosthetists have defaulted to under prescribing, negatively impacting individuals with limb loss. Solutions require a multi-faceted approach which includes evidence and value-base for prosthetic care, enhancing documentation to emphasize medical necessity required for reimbursement, and promoting the voice of independent patient for self advocacy. Understanding the current state of reimbursement requirements and an action plan to address the pending issues will guide the prosthetist to ensure the patients under their care will improve access to medically necessary prosthetic devices. Special thanks to the AOPA Systematic Review Authors: Jason T. Kahle, Tyler D. Klenow, Michael Orendurff, Anton Johannesson, Hans Schaepper, CPO, Anthony V. Florschutz, Jason Wening, Kevin McLoone, Kenton Kaufmann, and Jason Highsmith.

10:00 - 11:00 AM

**Functional Tone Management (C 22)**

Zachary Bohart, MD

Spasticity or hypertonicity is muscle tightness that can occur after stroke. It can manifest in different muscle groups. Spasticity is especially hindering to stroke recovery because it can interfere with the ability to produce normal movement as well as perform activities of daily living such as grooming, dressing and bathing. It can also cause problems with balance. If muscles stay tight for a prolonged period, contractures may form. Orthoses are often prescribed to prevent contractures, decrease excessive tone, prevent skin breakdown, lengthen shortened tissues, increase or maintain range of motion, decrease pain, and properly position joints.

**Evaluation of Gait Patterns in O&P (C 23)**

(The following sessions run consecutively within this program.)

**Energy Expenditure in People with Transtibial Limb Loss Walking with Crossover and Energy-Storing Feet (C 23A)**

Cody McDonald, CPO

This discussion will determine if a novel crossover foot can reduce energy expenditure across a range of speeds in unilateral transtibial prosthesis users, when compared with a conventional energy-storing foot.

widely among clinicians and researchers. In this session you will investigate gait symmetry as a possible variable to describe the process of accommodation to a prosthesis modification.

**How Step Symmetry Changes When Patients Become Accustomed to Lower Limb Prosthetic Devices (C 23B)**

Goeran Fiedler, PhD, CPO(D)

It is important to provide users of P&O devices the appropriate time to become accustomed to a new device. Yet there is no consensus on how much time is appropriate, and respective assumptions vary

**Evaluation of a Simple, Low-Cost, Turn-Key Motion Capture System for Demonstrating Variable Cadence, and Activities of Daily Living in Daily Practice (C 23C)**

Wilson Steele, MS-BME

Mukul Talaty, PhD-BME

Review testing of a turn-key system that allows the required assessment without placing any markers on the subject and can be operated by a single prosthetist in a 15'x15' room. This allows a prosthetist engaged in daily practice to have an outcome measures system integrated into their clinical workflow, automatically generating reports for patient history and outcomes.

**Modification Design Essentials (T 9/P 9)**

8:00 AM - 5:00 PM  
(Full Day Workshop)

A full day program for all O&P practioners, technicians and pedorthists.

- 8:00 - 10:00 AM CAD/CAM Modification Design Essentials: Trans-tibial (TT)
- 10:00 AM - Noon CAD/CAM Modification Design Essentials: Ankle-Foot Orthosis (AFO)
- 1:00 - 3:00 PM CAD/CAM Modification Design Essentials: Trans-tibial (TT)
- 3:00 - 5:00 PM CAD/CAM Modification Design Essentials: Trans-femoral (TF)

This highly informational hands-on workshop examines how CAD technology enables Orthotic and Prosthetic (O&P) Technicians, Assistants, and Practitioners to easily modify scanned images in preparation for fabrication. Featured in the workshop is the WillowWood® OMEGA® 2013 CAD software system. Emphasis is placed on its user interface, work space, and workflow tools. Computers, associated software, and materials will be provided.

**SUNDAY**

**September 11, 2016**

**Concurrent Education (Cont'd.)**

10:00 - Noon

**🧑‍🦯 The Effect of Transfemoral Prosthetic Interface Design on Gait Biomechanics Using a CAREN System: IRC Compared to Sub-Ischial (C 23D)**

*Jason Kahle, MSMS, CPO, FAAOP*

Prosthetic socket design is evolving and the introduction of new materials and techniques allow for alternative designs. This presentation will examine the biomechanical gait effects of a transfemoral amputee using a Computer Assisted Rehabilitation Environment (CAREN). This project compared the effect of IRC to Sub-Ischial vacuum assisted suspension (VAS) transfemoral interface design on gait biomechanics using a CAREN system.

**🧑‍🦯 The “Dead Spot” Phenomenon: Quantified Through an Analysis of Center of Pressure and it’s Rate of Change (C 23E)**

*Tyler Klenow, MSOP, CO, CPT*

The development and implementation of a metric to measure the “dead spot” phenomenon in prosthetic feet will be presented. Results of a initial double-blind study using five prosthetic feet will be discussed.

**🧑‍🦯 Metabolic & Muscle Activity During Sloped Walking Using a Powered Leg Prosthesis (C 23F)**

*Jana Jeffers, MS*

Activities of daily living include negotiating up- and down-hill slopes, but it is unclear how the use of a passive or powered

leg prosthesis affects metabolic demand and muscle activity during up- and down-hill walking. We will discuss measured changes in metabolic cost and muscle activity for both legs of three people with a transtibial amputation using passive and powered prostheses during level and hill walking. Metabolic cost was different across slopes but not between prostheses and muscle activity of the unaffected leg soleus, gluteus maximus, and biceps femoris were greater on uphill and lower on downhill slopes.

**🧑‍🦯 Comparison of a Simple, Low-Cost Turn-Key System to Traditional Gait Lab Methods (C 23G)**

*Wilson Steele, MS-BME*

*Mukul Talaty, PhD-BME*

This session presents a validity study of a novel automated gait lab technology that allows a prosthetist to have outcome measures integrated into their clinical practice. Joint angle and movement measures are compared between a traditional marker motion capture system (CODA), and a new markerless system (GaitKeeper®), with subsequent measures of clinical interest compared from automated reporting.

10:00 - 10:45 AM

**🧑‍🦯 Preparing for Prior Authorization (B 8)**

*Joe McTernan, Director of Reimbursement Services, AOPA*

Hear an overview of the Medicare prior authorization process, what O&P products are eligible for inclusion, when it is most likely to be implemented for O&P, and how to prepare to operate your business in a Medicare prior authorization environment. Highlights of the session will include: Getting prior authorization approval the first time; encouraging patient involvement in the prior authorization process; and how to avoid delays in patient care when dealing with prior authorization.

10:45 – 11:30 AM

**🧑‍🦯 Growing Your Orthotic Practice (B 9)**

*Eric Burns, CO*

*Eric Weber, LCPO, FAAOP*

We will discuss three ways to grow and expand your practice through three simple concepts, that include processes, new products, and new technology.

11:30 AM - Noon

**🧑‍🦯 Who is Buying? (B 10)**

*Barry Smith, Esq.*

Selling a business isn't simple, but most entrepreneurs have more options than they realize. Learn what's happening in the O&P Market today from an attorney who has facilitated many O&P patient care facility sales. Learn, who is buying? What's happening to pricing? What terms do we now see? And what are the hot issues du jour?

**🧑‍🦯 How to Use 3D Printing in the Orthotics, Prosthetics and Pedorthics Field (C 25)**

1:00 - 5:00 PM

*Roger W. Chin, CPO*

*Jeff Erenstone, CPO*

*Joe Fairley, MS*

*Daniel Kelleher, MS*

Orthotists, prosthetists, pedorthists, technicians, and business managers all need to be aware of the latest technology that affects patients care of today and tomorrow. It has become clear that Additive Manufacturing (3D printing) has a place in our profession. This hands-on workshop will provide an overview of the pros and cons of 3D printing through demonstration and explanations of 3D technologies. In this workshop you will show how to start with a concept and end with a tangible printed product.



**Manufacturers Workshops—Tier G**

1:00 - 5:00 PM

See page 9 for Tier G workshops.

Earn CE CREDITS

# Product Preview Theater Presentations

Earn CE Credits in a lively theater atmosphere right on the exhibit hall show floor. Product Preview Theater (PPT) gives manufacturers the opportunity to showcase their products in a high-energy setting. PPT's scheduled at present time include:



**Allard USA**

- Customization Tips & Tricks



**Aspen Medical Products**

- Treating the Adult Scoliosis Patient



**Cascade Orthopedic Supply, Inc.**

- Product Advancements in Cascade Orthopedic Exclusives
- Upper Extremity Solutions Available through Cascade



**Freedom Innovations**

- Freedom's New Innovative Solutions
- Freedom Innovations Kinnex MPC Solutions



**Fusiform Medical Devices**

- FusiformCAST: The Fully Digital Solution to O&P



**Martin Bionics Innovations**

- Socket-less Socket: Fabric-based Transfemoral Socket Technology



**MD Orthopaedics/C-Pro Direct**

- Abduction Dorsiflexion Mechanism



**medi USA**

- Medi USA: New Approaches to Carbon Foot Design



**OPIE Software**

- OPIE and Data



**Össur Americas**

- Pro-Flex Feet from Össur
- Custom Manufacturing from Össur



**Ottobock**

- New DVS – Dynamic Vacuum , Simple Solutions, Advanced Fittings
- Accept the Challenge – Ottobock's New Fitness Line of Prosthetic Products
- Delivering the Security of an MPK to those Who Need It Most
- Knee Osteoarthritis: Innovative Approaches to Solve Patient Compliance
- Advanced UL Fittings with Dynamic Arm



**Turbomed Orthotics**

- Turbomed FS3000: Why You Have to Know About Us!



**UNYQ**

- UNYQ: Digital Tools for 3D Printed Prosthetics
- UNYQ: Treating Scoliosis with 3D Printing & Style



**WillowWood**

- WillowWood One Socket System



# Exhibits

Learn about the newest products and the latest technology at the 2016 National Assembly. The AOPA exhibit hall offers more exhibitors, components, devices, tools, supplies and services than any other show of its kind in the United States. Don't miss your chance to be part of it. For the most up-to-date list of exhibitors and links to their websites, visit [www.AOPAnet.org](http://www.AOPAnet.org).

**Bold listings** indicate the exhibitor is a member of the American Orthotic & Prosthetic Association (AOPA)

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

**•** new exhibitors for 2016. Exhibitors as of June 2016.

Ability Dynamics LLC  
ACOR Orthopaedic Inc.  
Adapttec/5280 Prosthetics  
Advanced O&P Solutions LLC  
**+** Allard USA  
ALPS  
Alternative Prosthetic Services Inc.  
American Academy of Orthotists & Prosthetists (AAOP)  
American Board for Certification in Orthotics, Prosthetics & Pedorthics (ABC)  
American Orthotic & Prosthetic Association (AOPA)  
American Prosthetic Components LLC  
**+** Amfit Inc.  
Amputee Coalition  
Anatomical Concepts Inc.  
Anodyne  
**•** APDM Wearable Technologies  
ARTech Laboratory Inc.  
Aspen Medical Products  
Becker Orthopedic  
biodesigns  
**+** BionX Medical Technologies  
BioSculptor Corp.  
Board of Certification/  
Accreditation, Int'l (BOC)  
Bort-Swiss Orthopedic Supply  
Boston Brace International Inc./  
dba NOPCO  
Breg  
Brightree LLC  
Bulldog Tools Inc.  
Cailor Fleming Insurance  
**•** Capron Prodologie  
**+** Cascade Dafo Inc.  
**+** Cascade Orthopedic Supply Inc.  
CBS Medical Billing & Consulting,  
LLC  
CJ Socket Technology  
Click Medical  
**•** Coapt LLC  
College Park Industries  
Comfort Products Inc.  
**•** Corflex  
Coyote Design & Mfg Inc.  
Create Prosthetics  
Curbell Plastics, Inc.  
DAW Industries Inc.

DJO  
CGS Administrators (DME MAC  
Medical Contractors)  
**•** Dralla Foundation  
Drew Shoe Corp.  
**+** Endolite  
Epica Applied Technologies  
Fabtech Systems LLC  
**+** Fillauer  
FLO-TECH® Orthotic & Prosthetic  
Systems Inc.  
Freedom Innovations LLC  
Friddle's Orthopedic Appliances Inc.  
**•** Fusiform Medical Devices  
Grace Prosthetic Fabrication Inc.  
Janco Inc.  
Kinetic Research Inc.  
KISS Technologies LLC  
KLM Laboratories  
Knit-Rite Inc.  
LegWorks  
Levy & Rappel  
LIM Innovations  
**•** Mac Dowell Silicones  
MakStride Prosthetics  
Martin Bionics  
**•** MaxMotion  
M-Brace/MIH International  
MD Orthopaedics Inc.  
Med Spec (ASO EVO)  
Medex International Inc.  
Medi USA  
Mile High Orthotics Lab  
Myomo  
Nabtesco & Proteor in USA  
Naked Prosthetics  
National Commission on O&P  
Education (NCOPE)  
New Options Sports  
New Step Orthotic Lab Inc.  
nora systems, Inc.  
O&P EDGE/Amplitude  
O&P News  
OHI  
OP Solutions Inc  
OPAF & The First Clinics  
OPIE Software  
OPTEC USA, INC  
Orfit Industries America  
**•** Original Bending Brace  
Orthomerica Products Inc.  
Orthotic & Prosthetic Group of  
America (OPGA)

Orthotics and Prosthetics One  
Össur Americas  
Ottobock  
Ottobock/Jos America  
Paceline  
**•** Pedorthic Foundation  
**+** PEL  
Pinnacle Prosthetic Labs  
**•** Private Funding for Prosthetic  
Devices  
Pro-Tech Orthopedics  
ProtoKinetics Gait Analysis  
Walkways  
P.W. Minor  
**•** Qdesign  
Renia GmbH  
Restorative Care of America  
Royal Knit Inc.  
RS Print  
Sensor Medica  
**•** Sigvaris Inc.  
Silipos Inc.  
Soletech Inc.  
**+** Spinal Technology Inc.  
**+** SPS  
SPS National Labs  
ST&G USA Corp.  
Standard Cyborg  
SteeperUSA  
**•** Steps of Faith Foundation  
Streifeneder USA  
Surestep  
Tamarack Habilitation  
Technologies Inc.  
TechMed 3D Inc.  
The Bremer Group Co.  
ThermoActive  
ThyssenKrupp AIN Plastics  
Tiliges Technologies/TCOP  
Top Shelf Orthopedics  
Touch Bionics  
**+** Townsend Design  
TRS Inc.  
Trulife  
Turbomed Orthotics  
Ultraflex Systems  
UNYQ  
Vorum  
VQ Orthocare  
WillowWood

## Sponsors

AOPA extends special thanks to our title sponsors:



ottobock.



endolite

allard<sup>USA</sup>



LIFE WITHOUT LIMITATIONS



Spinal  
Technology, Inc.

BOC



Fillauer

WillowWood





# About Boston

Boston, the location of the 2016 AOPA National Assembly, has something to offer all attendees.

Boston's Back Bay is one small section of Boston that is home to many of the city's most sought-after sights and an epicenter for shopping, sleeping, dining, and just a 12-minute walk to Fenway Park. Located in the heart of the Back Bay is the Hynes Convention Center, the home of the 2016 National Assembly.

What could make the Hynes Convention Center a better location for the National Assembly? What if we connected it to three hotels (Sheraton, Marriott, and Hilton) and then

surrounded them with the high-end stores of the Prudential Center, Copley Place and Newbury Street, then added a multitude of restaurants that offered menus ranging from fancy to fast food to provide the perfect place for every Assembly attendee.

Look for your PRUferred shopper card in your registration materials to receive attendee only discounts to a number of the stores at the Prudential Center. Visit [bit.ly/pruferredcard](http://bit.ly/pruferredcard) for discount details.



## Hotel Accommodations

The 2016 AOPA National Assembly will be held at the Hynes Convention Center, 900 Boylston St, Boston, Massachusetts 02115, and adjoining Sheraton Hotel. Attendees are responsible for making their own hotel reservations. AOPA has reserved a block of rooms at the Sheraton Boston Hotel (Connecting to the Convention Center), the Boston Marriott Copley Place (Connecting to the Convention Center), and at the Hilton Boston Back Bay (Adjacent to the Convention Center). The room rate is \$249.

- To book your room at the **Sheraton Boston** Hotel proceed to <http://bit.ly/sheratonboston> or call (800)-325-3535/ (617)-236-2000.
- To book your room at the **Boston Marriott Copley Place** proceed to <http://bit.ly/marriottbostoncopleyplace> or call (888)-236-2427/ (617)-236-5800.
- To book your room at the **Hilton Boston Back Bay** call (800)-774-1500/ (617)-236-1100.

These room blocks are being held exclusively for Assembly attendees. Those booking rooms are required to register for the Assembly by August 1, 2016 or they will not be eligible for the group rate and subject to cancellation. The hotels will likely sell out over the dates of the Assembly. Please be sure your reservation request reaches the hotel prior to August 1 when any remaining rooms (if any) will be released. There is no guarantee rooms will be available at the Assembly rate. Rates quoted here are on a space-available basis only. Once the Assembly block of rooms is sold out, which may be earlier than August 1, there is no guarantee that rooms will be available nor that they will be available at the Assembly rate.

Beware: AOPA does not utilize a housing bureau or any type of third party hotel reservation agency. If you are contacted, please do not provide your credit card info to any caller—unfortunately, this is a fairly common scan.

LIMITED  
AVAILABILITY  
RESERVE  
YOURS TODAY

# Special Events

WEDNESDAY  
SEPTEMBER 7  
1:00 – 5:00 PM



## Thranhardt Golf Tournament

Network with top leaders in O&P at the Thranhardt Golf Tournament. We've scheduled the tournament for the afternoon of Wed., Sept. 7 so you can fly

in on Wednesday morning, catch the luxury motor coach to the tournament at noon and enjoy a relaxing afternoon of golf with your O&P friends. This great event supports two great causes—OPAF and the O&P PAC. Green fees, cart fees, pre-round range balls, transportation and an awards ceremony are all included.



THURSDAY  
SEPTEMBER 8  
5:45 – 7:15 PM

## Welcome Reception

Don't miss the fun opening reception as exhibitors welcome you to the National Assembly "Boston Style." Enjoy refreshments, peruse the massive exhibit hall and check out our very own "Trail of Freedom" featuring locations significant to the history of the United States. For more fun, participate in the related challenge game on the Mobile app to win great prizes. The Welcome Reception is included in your full conference registration. Guest tickets are available for purchase.



FRIDAY  
SEPTEMBER 9  
5:00 – 6:30 PM

## FRIDAY NIGHT LIGHTS

### Happy Hour Reception

Root, root, root for your home team! After a full day of learning, wrap up your day in the exhibit hall enjoying refreshments and networking with your colleagues and exhibitors in your favorite sports team attire. The Happy Hour is hosted by exhibitors. A list of sponsors will be included in the final program and on the website to make it easier for you to partake in the fun. The Happy Hour reception is included in your full conference registration.



FRIDAY  
SEPTEMBER 9  
6:00 – 8:00 PM



Receive  
**\$100  
Credit**  
towards your  
first winning bid!

## Wine Auction

Everyone knows that the **Wine Tasting and Auction** is an important component in supporting AOPA's government relations programs and the legislative activities of the profession. What everyone may not know is: the Wine Tasting and Auction is a fun event for everyone! Even though the registration fee is \$150 you receive a \$100 credit towards your first winning bid. There is much more to bid on than just wine—last year's event featured jewelry, Tiffany Crystal, cigars, a vacation, bourbon and more. Sample wines from various wineries and partake from an open bar while enjoying the camaraderie of your peers.



SATURDAY  
SEPTEMBER 10  
5:00 – 6:00 PM

## Exhibit Hall Closing Extravaganza

Join your colleagues in the Exhibit Hall for the hall closing finale. While there is still a full day of education and learning ahead, this will be the last opportunity to visit exhibitors and take advantage of those last minutes show specials.





### Make the Alumni Connection

When completing your Assembly registration, be sure to include your graduating school and year so you can connect with alumni from your school. Events are in the works for alumni from Northwestern and Newington. Don't miss out on being invited. In addition to planned events, connect with past classmates and new alumni through AOPA's Mobile App, AOPA365. Your school will be set up as a networking group. Be sure to wear your school button (provided at registration or at the NCOPE booth) with pride.



### Trail of Freedom

Can't fit sightseeing into your schedule? We are bringing the best Boston has to offer right into the Exhibit Hall. Take part in this fun and informative trail we have created honoring the most historic destinations of Boston which all have played an instrumental role in shaping American History. We hope you will enjoy the "Trail of Freedom" and accompanying challenge game. We hope to see some of your selfies in the app and in social media with the hashtag #AOPA2016.



**SATURDAY**  
SEPTEMBER 10  
Noon – 1:30 PM

### Learning Lunch

New for 2016 Those who want to take learning to a whole new level should consider signing up for a learning lunch. For only \$50 participate in programs such as Current Controversies in Idiopathic Scoliosis Treatment. In addition to lunch and high level education one of the best benefits of this program is extended discussion in a relaxed atmosphere.

# Expo Day

The AOPA Assembly planning committee is pleased to present the 2016 Expo Day—a first for AOPA. We hope you will join us for a fun, informative and interactive day in the exhibit hall.

- Interesting events every hour
- Special deals from exhibitors throughout the day
- Scheduled entertainment and special guests
- Door prizes and giveaways every 30-minutes.



## Contests and Awards Student Poster Award

**Calling all Students and Residents— Gain National Recognition and Advance Your Career**

Enter to win one of two prestigious awards— The **Student-Resident Poster** award honors two meritorious scientific papers submitted for presentation as a poster at the AOPA National Assembly. The purpose of these awards is to encourage students and residents to display outstanding posters at the AOPA National Assembly.



The **Otto and Lucille Becker Award** will be presented for the best orthotic abstract submitted and the **Edwin and Kathryn Arbogast Award** for the best prosthetic abstract

submitted by a qualifying student or resident. The associated school will also be honored as well. For complete rules and to submit your abstract, please visit [bit.ly/studentposter2016](http://bit.ly/studentposter2016) Questions? Contact Tina Moran at [tmoran@aopanet.org](mailto:tmoran@aopanet.org) or (571) 431-0808.

**SATURDAY**  
SEPTEMBER 10  
Noon – 1:30 PM

### Women's Leadership Forum and Luncheon

Be on the lookout for your personal invitation to participate in the Women's Leadership Luncheon scheduled for Saturday, September 10 from Noon - 1:30 PM. Take time to mix and mingle with successful women in the O&P profession during this informal luncheon followed by a short presentation.

## Back by popular demand! Technical Fabrication Contest

Start practicing! This year's technical fabrication contest will feature two separate timed competitions. Get your time recorded up to three times for each competition.

1. Participants will properly assemble an articulating AFO joint.
2. Participants will properly assemble a simple BK socket and foot.



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.**

Sponsors:



# Travel and Registration

## Travel

The Preferred Airline Provider for the 2016 AOPA National Assembly is United Airlines.

You may book online to save 5-10% by visiting  <http://bit.ly/unitedairlines2016> and enter ZWN4423531 in the Offer Code box when searching for your flights.

 **Amtrak** Amtrak is offering Assembly attendees a 10% discount off the best available rail fare to Boston, MA, between September 5 – 14, 2016. To book your reservation, call Amtrak at 1 (800) 872-7245 or contact your local travel agent.

This discounted rate is not available via Internet. Please be sure to refer to Convention Fare Code X74A-946 when making your reservation. This offer is not valid on the Auto Train and Acela Service. Fare is valid on Amtrak Regional for all departures seven days

a week, except for holiday blackouts. Offer valid with Sleepers, Business Class or First Class seats with payment of the full applicable accommodation charges.

## Ground Transportation Back Bay Express

This easy and convenient to use round trip shuttle runs from Logan Airport to the Hynes Convention Center for only \$5.00 each way.



Shuttle service runs every 20 minutes and picks up passengers from Logan International Airport and the Hynes Convention Center. Hours:

- From Logan Airport—first departure: 6:00 AM, last departure: 10:00 PM
- From Hynes Convention Center—first departure: 5:00 AM, last departure: 9:00 PM
- No advance reservations needed.
- Just look for the blue shuttle with orange accents labeled the Back Bay Logan Express

## 3 Easy Ways to Register for Early Bird Rates before Aug. 1, 2016!

## How to Register

Review the registration category descriptions and complete one registration form for each attendee. For your convenience, there are three easy ways to register.

1. REGISTER ONLINE at [www.AOPAnet.org](http://www.AOPAnet.org). Payments must be made by credit card when registering online.
2. REGISTER BY FAX by completing the registration form and faxing it to (401) 765-6677. Please do not mail your form after faxing it.
3. REGISTER BY MAIL by completing the registration form and mail it with payment to 2016 AOPA National Assembly, c/o ExpoTrac Registration Services, P.O. Box 1280, Woonsocket, RI 02895.

## Registration Category Descriptions

### Full Conference Registration

Fees include admission to the exhibit hall, education sessions, Welcome Reception, three breakfasts, two lunches and all meeting materials. Attendees registering under this category will automatically receive a certificate of attendance.

### Associate Full Conference Guest Registration

Qualified discounted registrants include students, emeritus practitioners, residents, spouses and other family members over the age of 18. Those employed by an orthotic, prosthetic or pedorthic business are not eligible to register under this category. Attendees registering under this category do not qualify to earn CE credits.

### Exhibitor

If your company has purchased exhibit space, you will be provided a special registration link. You must utilize the online exhibitor registration link to ensure your staff has proper access to the exhibit hall during set-up and non-show hours.

### Exhibits Only (3-Day Show Pass) Registration

This registration category provides access to the exhibit hall only Thursday, September 8 through Saturday, September 10. This registration category includes the Welcome Reception on Thursday night as well as the Happy Hour reception on Friday evening. Attendees registering under this category will not receive a lunch ticket or the opportunity to earn CE credits.

### Exhibits Only One-Day Registration

This category includes access to the exhibit hall for the day selected only. Attendees registering under this category will not receive a lunch ticket or the opportunity to earn CE credits.

### One Day Conference Registration

Includes all conference events for the day selected. If attending more than one day, select the full conference registration category. Attendees registering under this category will automatically receive a certificate of attendance.

### Group Discounts (3+)

Group discounts are available for companies that submit four or more registrations at the same time. Discounts are available for the full conference registration category only. The first three (3) attendees from the same company will be charged the regular registration rate. Additional attendees over three (3) will receive a \$100 discount on each registration. Call AOPA headquarters for discounts for groups of 10 or more.

### Children Ages 11-17

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



**While in Boston,  
Experience Boston's  
Most Popular Tour!**



## Yummy Walks Food Tours

Boston's Food and History Tour

Foods of the Freedom Trail | Seafood and Chowder Tour | North End Tour

**Take 10% Off with Promo Code 91016**

[www.foodtours.com](http://www.foodtours.com)



# ATTENDEE Registration Form

BOSTON, MA • HYNES CONVENTION CENTER

Visit [www.AOPAnet.org](http://www.AOPAnet.org) for complete registration details and instructions.

**EARLY BIRD**  
REGISTER BY  
**AUG. 1, 2016**  
AND SAVE!

**BADGE INFORMATION** Please type or print legibly and use one registration form per registrant. Provide information as you would like it to appear on your badge.

Nickname: \_\_\_\_\_ First Name: \_\_\_\_\_ Last Name: \_\_\_\_\_ Credential(s): \_\_\_\_\_

Company: \_\_\_\_\_ Job Title: \_\_\_\_\_

Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ ZIP Code: \_\_\_\_\_

Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_ E-mail: \_\_\_\_\_

**VERY IMPORTANT**

For Continuing Education Credit tracking:

EXAMPLE:  C  P  E  G —  G  E  2  G

—   
ABC CERT TYPE      ABC ID NUMBER

BOC CERT NUMBER

PT LICENSE NUMBER

**REGISTRATION CATEGORIES AND FEES**

See registration instructions for category descriptions.

REGISTRATION CATEGORIES	Early Bird Registration on or before Aug. 1		Registration after Aug. 1	
	MEMBER	NON-MEMBER	MEMBER	NON-MEMBER
<b>Full Conference Registration</b>	<input type="checkbox"/> \$595 FMP	<input type="checkbox"/> \$945 FNP	<input type="checkbox"/> \$695 FM	<input type="checkbox"/> \$995 FN
<b>Associate Full Conference Registration</b>	<input type="checkbox"/> \$395 FAP	<input type="checkbox"/> \$395 FAP	<input type="checkbox"/> \$495 FA	<input type="checkbox"/> \$495 FA
<b>Exhibitor Full Conference Registration</b>	<input type="checkbox"/> \$375 FEMP	<input type="checkbox"/> \$495 FENP	<input type="checkbox"/> \$475 FEM	<input type="checkbox"/> \$595 FEN
<b>One-Day Conference Registration</b> <input type="checkbox"/> Thurs 9/8 <input type="checkbox"/> Fri 9/9 <input type="checkbox"/> Sat 9/10 <input type="checkbox"/> Sun 9/11	<input type="checkbox"/> \$295 per day OM_P	<input type="checkbox"/> \$500 per day ON_P	<input type="checkbox"/> \$395 per day OM_	<input type="checkbox"/> \$600 per day ON_
<b>Exhibits Only (3-Day Show Pass) Registration</b> <i>(Valid for Access to Exhibit Hall only for all show dates.)</i>	<input type="checkbox"/> \$225 EM_P	<input type="checkbox"/> \$325 EN_P	<input type="checkbox"/> \$325 EM_	<input type="checkbox"/> \$395 EN
<b>Exhibits Only One-Day Registration</b> <i>(Valid for Access to Exhibit Hall only for individual show dates.)</i> <input type="checkbox"/> Thurs 9/8 <input type="checkbox"/> Fri 9/9 <input type="checkbox"/> Sat 9/10	<input type="checkbox"/> \$100 per day EM_P	<input type="checkbox"/> \$150 per day EN_P	<input type="checkbox"/> \$150 per day EM_	<input type="checkbox"/> \$195 per day EN_
<b>Full Conference Children Ages 11-17</b>	<input type="checkbox"/> \$100 FC	<input type="checkbox"/> \$100 FC	<input type="checkbox"/> \$100 FC	<input type="checkbox"/> \$100 FC

Group discounts are available for four or more Full Conference registrants. Call 571/431-0876 for more information.

**PARTICIPANT INFORMATION**

Is your facility a current member of AOPA?

Yes  No

How often do you attend an O&P meeting?

Every year <sup>11</sup>  When close by <sup>13</sup>  
 Every other year <sup>12</sup>  First time <sup>14</sup>

What are the primary reasons for attending the National Assembly? Please check all that apply:

- CE Credits <sup>21</sup>
- Exhibit Hall <sup>26</sup>
- Networking <sup>22</sup>
- Education <sup>27</sup>
- Location <sup>23</sup>
- Speakers <sup>28</sup>
- Industry Trends <sup>24</sup>
- New Products <sup>29</sup>
- Professional Development <sup>25</sup>

Which O&P school did you graduate from?

What year did you graduate? \_\_\_\_\_

**HOTEL RESERVATIONS**

The 2016 AOPA National Assembly will be held at the Hynes Convention Center, 900 Boylston St., Boston, Massachusetts 02115. Attendees are responsible for making their own hotel reservations. AOPA has reserved a block of rooms at the Sheraton Boston Hotel (Connecting to the Convention Center), the Boston Marriott Copley Place (Connecting to the Convention Center), and at the Hilton Boston Back Bay (Adjacent to the Convention Center). The room rate is \$249 per night.

To book your room at the **Sheraton Boston Hotel** proceed to [bit.ly/sheratonboston](http://bit.ly/sheratonboston) or call (800) 325-3535/(617) 236-2000.

To book your room at the **Boston Marriott Copley Place** proceed to [bit.ly/marriottbostoncopleyplace](http://bit.ly/marriottbostoncopleyplace) or call (888) 236-2427/(617) 236-5800.

Check here to allow AOPA to share your email with Exhibitors

How many years have you been in your profession?

0-5 <sup>31</sup>  6-10 <sup>32</sup>  11-20 <sup>33</sup>  21+ <sup>34</sup>

What is your purchasing authority?

- Full-decision making authority <sup>35</sup>
- Joint decision making authority <sup>36</sup>
- Advisory role <sup>37</sup>
- Not involved in purchasing <sup>38</sup>
- Other (Student, Unemployed, etc.) <sup>39</sup>

Job Function—Please check all that apply:

- Orthotist <sup>41</sup>
- Prosthetist <sup>42</sup>
- Pedorthist <sup>43</sup>
- Technician <sup>44</sup>
- Fitter <sup>45</sup>
- Owner <sup>46</sup>
- Office/General Manager <sup>47</sup>
- Physical Therapist/Occ. Therapist <sup>48</sup>
- Student <sup>49</sup>
- Resident <sup>50</sup>
- Research & Development <sup>51</sup>
- Sales/Marketing <sup>52</sup>
- Billing <sup>53</sup>
- Accounting <sup>54</sup>

To book your room at the **Hilton Boston Back Bay** call (800) 774-1500/(617) 236-1100.

These room blocks are being held exclusively for Assembly attendees. Those booking rooms are required to register for the Assembly by August 1, 2016, or they will not be eligible for the group rate and subject to cancellation. The hotels will likely sell out over the dates of the Assembly. Please be sure your reservation request reaches the hotel prior to August 1 when any remaining rooms (if any) will be released. There is no guarantee rooms will be available at the Assembly rate. Rates quoted here are on a space-available basis only. Once the Assembly block of rooms is sold out, which may be earlier than August 1, there is no guarantee that rooms will be available at the Assembly rate.

**SPECIAL EVENTS**

	PRICE	QTY.	TOTAL
Welcome to Boston Reception* Guest Ticket	\$ 45	X _____	= _____
O&P PAC Wine Tasting & Auction**	\$150	X _____	= _____
Thranhardt Golf Classic-Individual	\$195	X _____	= _____
Thranhardt Golf Classic-Foursome	\$750	X _____	= _____
Tactical Fabrication Contest	N/C	X _____	= _____
Scoliosis Lunch and Learn	\$ 50	X _____	= _____

\* Full Conference Registrations include admittance to the reception—bring a guest for \$45.  
\*\* Includes a \$100 credit towards your first winning bid.

**PAYMENT**

Registration Total \$ \_\_\_\_\_  
Special Events Total \$ \_\_\_\_\_  
**TOTAL AMOUNT DUE \$ \_\_\_\_\_**

Fax only if paying by credit card. Checks should be made payable to AOPA 2016.

Check  Visa  MasterCard  Amex

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Customer Service: [AOPA@expotracc.com](mailto:AOPA@expotracc.com), 401/766-4142.

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