Join us for the one show that has it ALL:

- Orthotic, Prosthetic & Pedorthic Education
- AOPA's 100 Year Celebration
- New Technologies
- Changes in Healthcare
- Business Management
- Global Perspectives
- 40+ CE Credits
- Exhibits

THE PREMIER MEETING FOR ORTHOTIC, PROSTHETIC, AND PEDORTHIC PROFESSIONALS.

CELEBRATING a century envisioning THE NEXT

AOPA WORLD CONGRESS

LAS VEGAS | SEPTEMBER 6-9, 2017

Preliminary PROGRAM

Looking towards the future while celebrating the past!

Join us for the 2nd World Congress and AOPA's 100th Anniversary Celebration in Las Vegas, Nevada on September 6-9, 2017.

www.opworldcongressusa.org

The 2017 O&P World Congress will take place in Las Vegas, Nevada. Do not miss out on the most anticipated meeting for orthotic, prosthetic and pedorthic professionals. AOPA's 2nd World Congress features the best that O&P has to offer on an international stage. What does this mean for you? Get access to the best in business education, advanced clinical programming from physicians,high-level researchers and top practitioners. Did we mention our huge Exhibit Hall that contains businesses from around the world to meet any and all your needs?

All this and more. ***So much more.***

#AOPA2017

For more information scan the QR code with a code reader on your smartphone or visit www.AOPAnet.org.

Preliminary
PROGRAM

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AOPA WORLD CONGRESS

LAS VEGAS | SEPTEMBER 6-9, 2017

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AOPA's 2nd World Congress

September 6-9, 2017

Las Vegas, Nevada • Mandalay Bay Resort

Who Should Attend?

The World Congress will bring together a wide variety of international professionals, such as prosthetists, orthotists, pedorthists, physicians, technicians, scientists, researchers, engineers, programmers, clinicians, fitters, physical therapists, manufacturers, suppliers, patient care facility owners, managers, executives, and other rehabilitation care givers. This diverse innovative community will not only serve to inform and educate, but will inspire you in your profession with #careergoals.

Earn more than
40 CE CREDITS

About the Congress

The 2017 World Congress presents an extensive collaboration with a magnitude of opportunities for practitioners in the Western Hemisphere and around the world to participate in a World Congress forum similar to opportunities available to practitioners in Europe. The American Orthotic & Prosthetic Association (AOPA) and its partners, the American Board for Certification in Orthotics, Prosthetics and Pedorthics (ABC); the U.S. National Member Society of the International Society for Prosthetics and Orthotics (USISPO); Con.fair.med, a subsidy of the German Association of Orthopaedic Technology; the Amputee Coalition; Orthotics Prosthetics Canada (OPC); Orthotics and Prosthetics Association of India (OPAI); Charcot-Marie Tooth Association; Uniting Fronteras and the Mexico Member Society of ISPO invite you to participate in the 2017 World Congress to be held September 6-9, 2017, at the Mandalay Bay Resort, Las Vegas, Nevada, USA.

11 COUNTRIES REPRESENTED

The esteemed planning committee represents the best of the best from all corners of the globe. Visit www.AOPAnet.org for more information.

2017 World Congress **Planning Committee**

Christopher J. Nolan *(Co-Chairman)*
Anthony Potter, MBA *(Co-Chairman)*
James H. Campbell, PhD, CO, FAAOP
Andrea Giovanni Cutti, MEng, PhD
Thomas V. DiBello, CO, LO, FAAOP *(Clinical Education Chair)*
Michael Dillon, PhD
Traci Dralle, CFm *(Exhibits Chair)*
Eric Ferris
Elizabeth Ginzel, CPO, LPO
Dennis Janisse, CPed *(Pedorthic Education Chair)*
Michel-Lynn Jakala
Rosie Jovane, CPO
Aaron Leung, PhD
Eileen Levis
Karen Lundquist, MBC
Pam Lupo, CO
Mike Magill
Brad Mattear, LO, CPA, CFo
Michael Oros, CPO, FAAOP
Marlo Ortiz Vazquez del Mercado, CPO(M)
Kristen Pierson
Klaas Postema, MD, PhD
Nerrolyn Ramstrand, PhD
Silvia Raschke, PhD
Rick Riley
Michael Schaefer, CPO, Dipl.
Urs Schneider, MD, PhD
Don Shurr, PT, CPO
Gulapar Srisawasdi, MD, CPed
Brian Stroup
James Weber, MBA

Speaker Highlights

Gain a world of experience from key international speakers representing the best in the orthotic, prosthetic and pedorthic profession.

Dr. Thomas E. Price *(invited)* currently serves as the Secretary of Health and Human Services (HHS). He brings to the Department a lifetime of service and a dedication to advancing the quality of health care in America—both as a physician and policymaker. Most recently, Dr. Price served as the U.S. Representative for Georgia's 6th Congressional District. He held this office from 2005-2017 and earned a reputation amongst his colleagues for being a tireless problem solver and the go-to expert on health care matters. During his congressional career, Dr. Price served in various leadership roles including, Chairman of the House Budget Committee, Chairman of the House Republican Policy Committee, and Chairman of the Republican Study Committee. During his time in Congress, Secretary Price was a champion for O&P, introducing H.R. 4185, the PACT Act of 2015 in the 114th Congress which among other things clarified the term "minimal self-adjustment" to include only those adjustments that can be made by the patient. Prior to serving as a member of Congress Secretary Price was a practicing orthopaedic surgeon for 20 years.

Munjed Al Muderis, MD is a leading hip and knee orthopaedic surgeon specializing in anterior approach, arthroscopy and major reconstruction surgery. He is also one of the top three surgeons world wide pioneering reconstructive osseointegration surgery. With this technology, he has helped over 300 amputees worldwide improve mobility, reduce pain and overall enhance their quality of life.

Jan Andrysek, PhD is a scientist at the Bloorview Research Institute of Holland Bloorview Kids Rehabilitation Hospital and an assistant professor within the Institute of Biomaterials and Biomedical Engineering, University of Toronto, Canada.

David G. Armstrong, DPM, MD, PhD is professor of surgery at the University of Arizona and deputy director of the Arizona Center for Accelerated Biomedical Innovation (ACABI). He co-founded the Southern Arizona Limb Salvage Alliance (SALSA).

Thor Besier, PhD is an associate professor at the Auckland Bioengineering Institute and has a joint appointment with the Department of Engineering Science. He completed his PhD in musculoskeletal biomechanics at the University of Western Australia in 2000 and was a postdoctoral fellow in the Bioengineering Department at Stanford University from 2003 to 2006.

Rickard Branemark, MD, PhD brings extensive expertise in orthopaedic osseointegration to both the Orthopaedic Oncology and the O&P Centers at UCSF. Dr. Branemark has pioneered the studies on titanium implants to anchor limb prostheses for more than 20 years. He has been acknowledged as the most experienced surgeon in this field.

Sheila Clemens, PT, MPT, PhD(c) has practiced as a clinical physical therapist for over 20 years, focusing on the rehabilitation of persons with lower limb loss for the past 10 years. She received her Masters of Physical Therapy from the University of Michigan and is a doctoral candidate at the University of Miami with a specialization in Amputee Rehabilitation and Musculoskeletal Prosthetics.

Andrea Giovanni Cutti, PhD received a Masters in Electronic Engineering and a PhD in Biomedical Engineering from the University of Bologna, Italy. He is currently chair of the International Shoulder Group (technical group of the International Society of Biomechanics) and a member of the ISO 168 Committee. He is the applied research manager of Centro Protesi INAIL, Italy.

Hans Dietl, PhD, Dipl.-Ing. currently serves as the chief technology officer of the Ottobock Company Group. His focus is on management of R&D and technologies. Dr. Dietl studied mechanical engineering at the Vienna University of Technology where he also earned his PhD.

Michael Dillon, PhD is a Sr. Lecturer in P&O at La Trobe University. Dr. Dillon's research has made important contributions to our understanding of partial foot amputations and P&O intervention. Dr. Dillon is an honorary research fellow at the Royal Melbourne Hospital.

Stefania Fatone, PhD, BPO (Hons) graduated from La Trobe University with a Bachelor of Prosthetics and Orthotics (Honors) and a PhD in Biomechanics. Dr. Fatone joined NUPOC as a post-doctoral fellow and has conducted multidisciplinary research on the effects of P&O on human locomotion to increase understanding, efficiency and effectiveness of P&O interventions for people with physical disability.

Jonathan A. Forsberg, MD, PhD is an orthopaedic oncologist and Commander, Medical Corps for the US Navy. Besides seeing patients and conducting research at Johns Hopkins, Dr. Forsberg is also affiliated with several other institutions. He is a consultant for the National Cancer Institute, Murtha Cancer Center on the Walter Reed Campus in Bethesda, director of the Department of Defense Osseointegration Program, and professor of Surgery at the F. Edward Helbert School of Medicine.

Mark Froimson, MD, MBA currently serves as the 27th president of the American Association of Hip and Knee Surgeons. He formerly served as EVP and Chief Clinical Officer for Trinity Health. He joined Trinity Health from the Cleveland Clinic, where he was president and CEO of Euclid Hospital. During his 16 years at the Cleveland Clinic he served as a staff surgeon, vice chair of the Orthopedic and Rheumatologic Institute, president of the Medical Staff and member of the Board of Governors.

Robert S. Gailey, PhD, PT has been at the University of Miami Miller School of Medicine, Dept. of Physical Therapy for 30 years. He also has a joint appointment as a Health Science Researcher with Miami VA Medical Center. He earned his doctorate in O&P from the University of Strathclyde where he developed the Amputee Mobility Predictor.

Fan Gao, PhD is currently an associate professor at the Prosthetics & Orthotics Program of UT Southwestern Medical Center. He earned a PhD in Biomechanics in 2005 from the Penn State University. His research interests include assessment and treatment of movement disorders and disability due to stroke, cerebral palsy and limb loss.

Ignacio Gaunaurd, PT, PhD, MSPT is a research health scientist at the Miami Veterans Affairs and assistant professor with the Dept of PT at the University of Miami. He earned his PhD from the University of Miami with a specialization in Amputee Rehabilitation and Musculoskeletal Prosthetics in 2012.

Michael Hanna, MPA, CDME is a provider relations senior analyst for CGS Administrators, the DME MAC for Jurisdiction C. Hanna is the community coach for suppliers in AL, FL, and MS, and is the lead for the DME CERT Outreach and Education Task Force. He holds two degrees from the University of Missouri.

Andrew Hansen, PhD is an associate professor for the Department of Physical Medicine and Rehabilitation (PM&R) at the University of Minnesota. He also serves as a research biomedical engineer for the Department of Extended Care & Rehabilitation, including the Minneapolis VA healthcare system. He earned his PhD from Northwestern University.

Levi J. Hargrove, PhD, PEng is currently the associate director of Center for Bionic Medicine at the Shirley Ryan AbilityLab, formerly the Rehabilitation Institute of Chicago. He is also an associate professor for the Departments of Physical Medicine & Rehabilitation and the McCormick School of Engineering at Northwestern University. He earned his MScE and PhD in Electrical Engineering from the University of New Brunswick.

M. Jason Highsmith, DPT, PhD, CP, FAAOP is a dual licensed prosthetist and physical therapist with a PhD in medical science. He is deputy chief of research for the VA/DOD Extremity Trauma & Amputation Center of Excellence, associate professor at the University of South Florida and a Captain in the US Army Reserves.

Han Houdijk, PhD is an assistant professor at the Faculty of Human Movement Sciences and the Research Institute MOVE, of the VU, and earned his PhD from the University of Amsterdam.

Hugh Herr, PhD currently serves as associate professor, Media Arts and Sciences, associate professor, Harvard-MIT Division of Health Sciences and Technology. Dr. Herr directs the Biomechatronics group at The MIT Media Lab. A double amputee himself, Herr is responsible for breakthrough advances in bionic limbs that provide greater mobility and new hope to those with physical disabilities.

Kenton Kaufman, PhD, PE 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.

Peter Lee, PhD, BEng (Hon) is a professor in the Department of Mechanical Engineering at The University of Melbourne. Dr. Lee earned his BEng in Mechanical Engineering and PhD in Bioengineering from the University of Strathclyde, UK, and continued his post-doc at the same university. He was a research fellow with the Biomaterials Group at the Institute of Materials Research and Engineering, Singapore.

Edward Lemaire, PhD is a senior investigator at the Ottawa Hospital Research Institute's Centre for Rehabilitation Research and Development; professor at the University of Ottawa faculty of medicine; and adjunct professor in Human Kinetics, Mechanical Engineering, and Systems Design Engineering. He has also been active with the ISPO as a board member, international congress chairman, and incoming president.

Marianne Luetmer, MD is a College of St. Benedict/St. John's University alumna and 2016 graduate of Mayo Medical School. She is currently in her second year of residency in Physical Medicine and Rehabilitation at the Mayo Clinic in Rochester, MN. Special interests include musculoskeletal medicine and sports.

Daniel McDonnall, PhD currently serves as president of Ripple and adjunct assistant professor of bioengineering at the University of Utah. McDonnall is working to create neural interface research tools and develop humanitarian medical devices. Dr. McDonnall earned his PhD in Bioengineering from the University of Utah.

Marc Moramarco, DC is a graduate of Boston University and the National University of Health Sciences. Dr. Moramarco is a long-time practitioner certified in the Schroth method, a scoliosis-specific exercise rehabilitation program from Germany. He is an international lecturer on conservative scoliosis treatment and a published author.

Eric Nickel, MS is a research biomedical engineer in the Minneapolis Adaptive Design and Engineering Program at the Minneapolis VA healthcare system. Eric served in the United States Army for seven years including a deployment for Operation Iraqi Freedom and has a Masters of Science degree in Biomedical Engineering from Northwestern University.

Richard O'Donnell, MD is chief of orthopedic oncology and professor of orthopedic surgery at UCSF Medical Center. His research addresses prosthetic fixation for massive skeletal reconstructions, multimodal neoadjuvant management of soft tissue sarcomas and bone graft substitutes to treat cystic bone defects.

Glenn B. Pfeffer, MD is director of the Foot and Ankle Program at Cedars-Sinai's Orthopaedic Center. His current research focuses on the three-dimensional imaging of complex deformity in patients with Charcot-Marie-Tooth Disease. Dr. Pfeffer is a board-certified orthopedic surgeon, a diplomat of the American Board of Orthopaedic Surgery and a fellow of the American College of Surgeons.

Sam Phillips, PhD, CP is currently participating in the VA home study of the DEKA arm, a multi-degree of freedom prosthetic arm. His areas of interest include outcome measures for prosthetic and orthopedic impairments, assistive device development and balance, including clinical, and neurological measures of device performance and outcomes.

Patrick Pilarski, PhD is a Canada research chair in Machine Intelligence for the Rehabilitation, and Faculty of Medicine at the University of Alberta. He is the principal investigator with the Alberta Machine Intelligence Institute; his research interests include reinforcement learning and assistive robotics.

Klaas Postema, MD, PhD is the professor in Rehabilitation Medicine at the University Medical Center Groningen in the Netherlands. He is an expert in clinical and instrumented gait analysis. For many years, he has been involved in foot problems, gait analysis and conservative treatment of foot problems with orthoses and orthopaedic footwear. He is the main editor of a textbook (to be published in 2018) *Orthopaedic/Pedorthic footwear; Shoe adaptations, assessment, indications and treatment plans.*

Ellankavi Ramasamy, MSc is a research assistant within the Attract-Group "Virtual Orthopaedic Lab" (Department for Orthopaedics and Motion Systems) at the Fraunhofer Institute for Manufacturing Engineering and Automation IPA in Stuttgart, Germany.

Silvia Raschke, PhD is the principle investigator for the Centre for Rehabilitation Engineering and Technology that Enables (CREATE). CREATE is a collaborative venture between BCIT and the Neil Squire Foundation. Dr. Raschke's main areas of expertise include biomechanics, product development and device evaluation.

Michael Ryan, PhD, CPed has been involved in research in sports medicine for the past 15 years, with an interest in sports injury epidemiology, running biomechanics and tendinopathy. After graduating with a PhD in Experimental Medicine from the University of British Columbia, he worked his first post-doctorial position at the University of Wisconsin-Madison in the Department of Orthopedics and Rehabilitation.

Tiffany Ryan, MOT, OTR/L is the national director of therapeutic services, at Advanced Arm Dynamics' (AAD) Centers of Excellence. Under her direction, therapeutic services are integrated into each patient's prosthetic rehabilitation process. She received a Masters of Occupational Therapy from Texas Woman's University in Denton.

Beatriz Samitier, MD, PhD works in the Physical Medicine and Rehabilitation Department at the Hospital de Mataró, Consorci Sanitari del Maresme, Mataró, Barcelona. Spain. She is a professor in EcoSERMEF (Ultrasonography School of the National Society of Rehabilitation and Physical Medicine).

Michael Schaefer, CPO, Dipl. is CEO of POHLIG GmbH. He serves as a board member of ISPO Germany, VQSA e. V. and BUFA e. V. as well as numerous committees and works for setting quality standards in upper and lower extremity prosthetics in Germany.

Urs Schneider, MD, PhD oversees the Department of Orthopaedics and Systems in Motion at the Fraunhofer Institute Manufacturing Engineering and Automation in Stuttgart, Germany. Dr. Schneider is a medical doctor and leads the interdisciplinary engineering team with research focused on improved mobility solutions in rehabilitation and orthopedic surgery.

Jill Seale, PT, PhD, NCS is a neurologic certified specialist and has practiced almost exclusively in the field of brain injury and stroke rehabilitation. She is an assistant professor at UTMB and earned her PhD from Texas Woman's University. She has a variety of teaching experiences in physical therapy academia and the health care community.

Jinsup Song, DPM, PhD is currently director and clinical assistant professor at the Gait Study Center for the Department of Biomechanics at Temple University School of Podiatric Medicine.

Joshua Steer, BEng is a PhD candidate in the Bioengineering Science Research Group at the University of Southampton, UK. His research aims involve using computational and experimental analysis techniques to better understand the residuum-socket interaction in prosthetic lower limb users.

Lauren Wengerd, MS, OTR/L is an occupational therapist who specializes in neuro rehabilitation. She is currently a PhD student at The Ohio State University with a particular interest in post-stroke rehabilitation and the role of rehabilitation in spasticity management.

Matthew Wernke, PhD is an applied research engineer for Ohio WillowWood Co. He earned a PhD in Biomedical Engineering from the University of South Florida in 2013 working within the Center for Assistive, Rehabilitation, and Robotic Technologies. His research interests aim to improve the comfort, fit, and functional utility of prosthetic limbs.

Jason Wilken, PhD, MPT is the director of the Military Performance Lab at the Center for the Intrepid at Brooke Army Medical Center. He is an adjunct faculty member for the Army-Baylor University Doctorate Program in Physical Therapy, Fort Sam Houston. Dr. Wilken earned his MPT and PhD from the University of Iowa.

Michael Wininger, PhD is an assistant professor at the University of Hartford Prosthetics & Orthotics Program, and maintains co-appointments at the Department of Veterans Affairs and Yale University.

Shane, Wurdeman, PhD, MSPO, CP, FAAOP obtained his PhD in biomechanics from the University of Nebraska at Omaha. His research focuses on innovative analyses of walking with prostheses, with an emphasis on improving outcomes.

Saeed Zahedi, OBE, FREng, RDI, FIMechE, PhD is the technical director of Blatchford and leads the research and development team. He serves as visiting professor, royal designer for industry, and vice chair of ISPO UK. He is also a prize winning author with 35 patents and received a special commendation for the Prince Philip Designer prize in 2011 along with being awarded the BHTA Life Time Achievement award in 2013.

2017 Schedule at a Glance

TUESDAY September 5, 2017

10:00 AM – 6:00 PM	**Registration Open**
10:00 AM – 6:00 PM	**Exhibitor Set up**
1:00 PM – 5:00 PM	**Pre-Conference Education: Flexible Sub-Ischial Vacuum Socket Course** **Tickets required, available through registration, limited space available*

WEDNESDAY September 6, 2017

7:00 AM – 6:30 PM	**Registration Open**
8:00 AM – 3:00 PM	**Exhibitor Set up**
8:00 AM – Noon	**Manufacturers' Workshop – Tier A**
8:00 – 10:00 AM	**Manufacturers' Workshop – Tier B**
10:30 AM – 12:30 PM	**Manufacturers' Workshop – Tier C**
1:00 – 3:00 PM	**Manufacturers' Workshop – Tier D**
1:00 – 5:00 PM	**Thranhardt Golf Classic**
1:00 – 5:00 PM	**Business Certificate Program** • Materials Management: The Hidden Product Cost Factor (B1) • Financial Health—Cash is King (B2) • Effective Staff Meetings that Translate into Business Results (B3) • Back to Basics: Using the Classics to Make Online Marketing Easy and Affordable (B4) • Balanced Scorecards—Essential Tools for Success (B5)
1:00 – 5:00 PM	**Manufacturers' Workshop – Tier E**
3:30 – 5:30 PM	**Manufacturers' Workshop – Tier F**
5:30 – 7:30 PM	**Welcome to Las Vegas Reception**
5:30 – 7:30 PM	**Exhibit Hall Open**

THURSDAY September 7, 2017

7:00 AM – 6:00 PM	**Registration Open**
7:00 AM	**Breakfast**
7:30 – 9:00 AM	**Opening General Session and Keynote Address**
9:00 – 10:30 AM	**Break in Exhibit Hall**
9:00 AM – 5:00 PM	**NCOPE Approved Clinical Mentor Course**
9:00 AM – 6:30 PM	**Exhibit Hall Open**
10:30 – Noon	**Concurrent Education** • Future of Prosthetics: Analyzing the Tissue Socket Interface (C1) • Free Papers—Improving Outcomes for the Lower Limb Amputee (C2) • Symposium: Orthotic Management of Post Stroke Gait Dysfunction (C3) • Pedorthic Education Managing the Diabetic Foot (P1-2) • Business Education Compliance and Ethics in Orthotics and Prosthetics (B6) • Emerging Technologies (T1)
Noon – 1:00 PM	**Lunch and Learn: Exoskeletons and NeuroRehab – Where are we Headed?*** **Tickets required, available through registration, limited space available*
Noon – 1:30 PM	**Lunch in Exhibit Hall**
1:30 – 2:30 PM	**DME CERT Outreach and Education Task Force: Prevalent O&P Errors (B7)**
1:30 – 3:00 PM	**Concurrent Education** • Symposium: New Technologies for Prosthetics and Orthotics (C4) • Specializing in Upper Limb Prosthetics (C5) • Symposium: Driving Improved Patient Care: Examples from Clinicians on Outcomes Use (C6) • Pedorthic Education: Management of the Diabetic Foot (P3-5) • Fabrication Methods (T2-3)
2:30 – 5:15 PM	**Best Business Practices and Documentation (B8)** • A New Twist on Documentation (B8A) • The Power of Social Media—Creating an Army of Online Healthcare Advocates to Grow Your Business (B8B) • AMPLIFY: Using Traditional and Digital Methods to Enhance Advocacy (B8C) • AOPA's Take on Documentation and Best Business Practices (B8D) • The AOPA Co-OP: Right at Your Fingertips (B8E) • Implementation of EMR—Catching up with the Rest of Healthcare to Communicate with Referral Sources (B8F)
3:15 – 4:30 PM	**Concurrent Education** • Instructional Course: Innovative Transfemoral Socket Design (C7) • Prosthetic Management of the Lower Limb Amputee (C8) • Symposium: The Diabetic Foot in Remission: Strategies to Make Prevention Pay (C9) • Pedorthic Education: Management of the Diabetic Foot (P6-7) • Utilization of Carbon Infused Polypropylene (T4) • Technician Update (T5)
4:30 – 5:30 PM	**Concurrent Education** • German Quality Standards of Prosthetic Fittings in Upper and Lower Limb Prosthetics (C10) • Unique Considerations in Prosthetic Clinical Care (C11) • Symposium: Implementing an Integrated Care Model into Your Practice (C12) • Pedorthics: Usability, Adherence, and Communication with Patients (P8)
5:30 – 6:30 PM	**Centennial Celebration in Exhibit Hall**
6:30 – 9:30 PM	**Party with a Purpose**

FRIDAY September 8, 2017

7:00 AM – 5:00 PM	**Registration Open**
7:00 AM	**Breakfast**
7:30 – 8:00 AM	**AOPA Membership Meeting**
8:00 – 9:00 AM	**Award Winning Thranhardt Lectures**

- Introducing the Prosthetic Homologue for Embodiment (C13A)
- Reference Values for Temporal Gait and Loading Symmetry of Lower-Limb Amputees can Help in Refocusing Rehabilitation Targets (C13B)
- Do Foot Orthoses Work? Outcomes from a Multi-Clinic Study of 6,658 Pedorthic Patient Visits (C13C)
- The Micro-Processor Controlled Orthosis: What is the Impact to the User Versus the Stance Control Orthosis and Conventional Locked KAFO? (C13D)

9:00 – 10:30 AM	**Break in Exhibit Hall**
9:00 AM – 6:30 PM	**Exhibit Hall Open**
10:30 AM – Noon	**Concurrent Education**

- Symposium: Power in Prosthetics (C14)
- Improving Function for the Orthotic Patient (C15)—12:10 PM
- World Perspectives on Polio & PPS Management (C16)
- Symposium: Current Strategies for Managing Charcot-Marie Tooth (CMT) Disease (C17 and P9)
- Cyber Security… IS IT SAFE? Be Prepared! (B9)
- Technical Education (T6)

Noon – 1:30 PM	**Lunch in Exhibit Hall**
12:15 – 1:30 PM	**Lunch & Learn: The Diabetic Foot in Remission– Strategies to Make Prevention Pay** **Tickets required, available through registration, limited space available*
1:30 – 3:00 PM	**Concurrent Education**

- Osseointegration (C18)
- New Considerations in Lower Limb Orthotic Management (C19)—3:10 PM
- Symposium: Pediatric LE Orthotic Gait and Functional Design, Tuning and Alignment (C20)

1:30 – 4:30 PM	**Concurrent Education**

- Focus on Technology (P10)
- Technical Education (T7-8)

1:30 – 5:00 PM	**Triple Aim (B10)**

- What is the Triple Aim? An Overview and Definition of the Triple Aim (B10A)
- Complete Care—Succeeding with Alternative Payment Models (B10B)
- Quality at Kaiser (B10C)
- How Measuring Satisfaction Can Change Behavior (B10D)
- How Can Triple Aim Impact the Scope of Practice of the O&P Clinician—Threat or Opportunity (B10E)
- Panel Discussion (B10F)

3:15 – 4:30 PM	**Concurrent Education**

- Symposium: Predicting Walking Ability Following Lower Limb Amputation (C21)
- Technology Transfer Session (C22)

4:30 – 5:00 PM	**Concurrent Education**

- A Deeper Look into Full-Contact BK Sockets via a Comprehensive Fluid Control System (C21B)

4:30 – 5:30 PM	**3D Printing Roundtable Discussion (T9)**
4:30 – 5:30 PM	**Poster Session**
5:30 – 6:30 PM	**Exhibitor Sponsored Happy Hour in the Exhibit Hall**

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AOPA WORLD CONGRESS
LAS VEGAS | SEPTEMBER 6-9, 2017

SATURDAY September 9, 2017

7:00 AM – Noon	**Exhibit Hall Open**
8:00 AM – Noon	**Registration Open**
7:00 AM	**Breakfast**
8:00 – 9:00 AM	**General Session: Healthcare Delivery Systems from Around the World**
9:00 – 10:30 AM	**Break in Exhibit Hall**
9:00 AM – Noon	**Exhibit Hall Open**
10:30 – 11:30 AM	**Award Winning Hamontree Lectures**

- An Easy Way to Show Health Economical Benefits in a Standard O&P Practice: A First Experience (B11A)
- Competitive Differentiator: Executing a Data-Driven Growth Strategy in O&P (B11B)

10:30 AM – Noon	**Concurrent Education**

- Symposium: The Experience of Sequential Partial Foot and Transtibial Amputation: Implication for Shared Decision-Making about Amputation Surgery (C23)
- Symposium: Pediatric UE Functional Orthotics for Children with Neuromuscular Diseases (C24)
- Prosthetic Free Papers—Advancing Care for Today (C25)
- Pedorthic Education (P11)
- Adjustable Socket Revolution (T10)

11:30 AM – Noon	**Pack Behavior (B12)**
Noon – 1:30 PM	**Lunch on Your Own**
1:00 – 2:30 PM	**Concurrent Education**

- Multi-Scale Integration in Upper Limb Prosthetics (C26)
- Orthotic Symposia: Stance Control (C27)
- Prosthetic Free Papers (C28)—2:50 PM
- Daily Risks & New Regulations of Isocyanate in the O&P Work Environment (C29)

1:00 – 3:00 PM	**2017 Compliance Update: Compliance Excellence, Best Business Practices and the Successful Accreditation Survey (B13)**

Business Education Program

Join your O&P colleagues for the Best in Business Education for business managers and owners. Practitioners who want to keep their business skills sharp should attend these programs as well. Register or learn more about the 2017 AOPA World Congress at ***www.opworldcongressusa.org.***

Wednesday September 6, 2017

8:00 AM – 5:00 PM **Concurrent Manufacturers' Workshops**

1:00 – 5:00 PM **Business Certificate Program Learning Opportunities**

Don't miss these pre-show workshops, created exclusively for those working towards their O&P Business Certificate.

Earn your business certificate in O&P Business Management from AOPA. With 100 years of service to the O&P profession, AOPA is a reliable partner in providing high-quality and relevant business education to the O&P community. By completing four core and four elective courses (and passing the accompanying quizzes) you will earn your certificate in O&P Business Management from AOPA. For more information about the program, please visit *www.aopanet.org/education.*

1:00 – 1:45 PM **Materials Management: The Hidden Product Cost Factor (B1)**

Darren Donnelly, MBA, CO

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

1:45 – 2:00 PM **Break**

2:00 – 2:30 PM **Financial Health—Cash is King (B2)**

Sandy Howell, Director, OPIE Software

Are you taking a preventative healthcare approach or a reactive one to your finances? Understanding the financial health of your practice is not just about having a healthy balance sheet. This presentation will focus on key elements related to cash flow; how to calculate these metrics and guide you on implementing change within your practice.

2:30 – 3:00 PM **Effective Staff Meetings that Translate into Business Results (B3)**

Valerie Vastola, Business Advisor, OPIE Software

Are you missing out on data, numbers and the overall health of your office? This session will talk about the importance of weekly meetings with your staff and how to provide the best experience for your patients. Preparation, proper agenda, time and assignments are key.

3:00 – 3:45 PM **Back to Basics: Using the Classics to Make Online Marketing Easy and Affordable (B4)**

Jane Gordon, Account Executive, VGM
Christina Throndson, Director, VGM

During this presentation, we will discuss the 4 P's of marketing—product, price, place and promotion, and their effective role in today's digital world. We will also discuss the promotion mix of direct marketing, personal selling, sales promotion, advertising and publicity. The tools have changed, but the process remains the same.

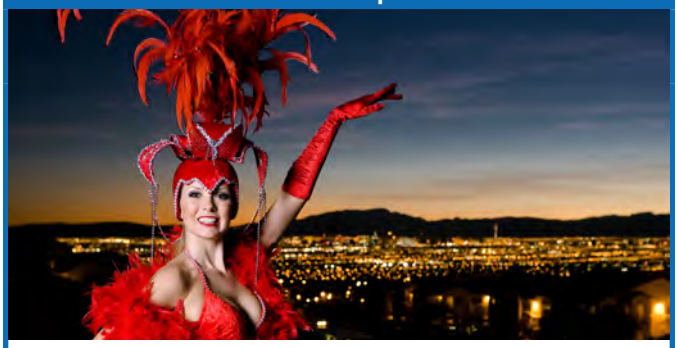
3:45 – 4:00 PM **Break**

4:00 – 5:00 PM **Balanced Scorecards—Essential Tools for Success (B5)**

Elizabeth Ginzel, CPO, LPO
Sandy Howell, Director, OPIE Software
Pam Lupo, CO

This panel presentation will illustrate the need for businesses to develop, implement and execute balanced scorecards to assist in meeting their strategic goals. We will also share balanced score cards in varying arenas of orthotics and prosthetics: clinical, customer service representative, accounts receivable, fabrication and marketing. The use of tools to measure metrics in objectives, measurements, initiatives, and goals brings clarity to management and allows for quick and concise reporting to leadership.

5:30 – 7:30 PM **Welcome Reception**



DON'T MISS THE SHOWSTOPPING

WELCOME RECEPTION

as exhibitors greet you—*Vegas Style.*

During the reception exhibitors will compete to show you the best Vegas has to offer through costume, props and entertainment. Be sure to vote using the mobile app **AOPA 365** under the contest section. Refreshments will be served. The Welcome Reception is included in your full conference registration. You can purchase a guest ticket for $45 through registration.

On your iPhone, Android or iPad:

DOWNLOAD the **AOPA 365** App Today!

Thursday September 7, 2017

7:00 AM **Breakfast**

7:30 – 9:00 AM **General Session (GS1)**

Join us for a very special opening ceremony, awards presentation and our keynote address.

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

- Take advantage of this time to compete in the Technical Fabrication Contest
- Meet with exhibitors
- View and learn about new products and service offerings from around the world
- Participate in Product Preview Theater Presentations
- Network with attendees
- Enjoy the Walk Through Time—Historical Display
- Play the Giant Slot Machine

10:30 – Noon **Compliance and Ethics (B6)**

10:30 – 11:30 AM **Compliance and Ethics in Orthotics and Prosthetics (B6A)**

Teri Kuffel, JD

This course explores ethical considerations and their relevance for orthotics and prosthetics in a healthcare setting. Attendees will critically analyze ethical concepts, which influence the development of healthcare policies and regulations in the orthotic and prosthetic field.

11:30 AM – Noon **Health Care Compliance and Ethics Week—Join us! (B6B)**

Mitch Dobson, CPO, FAAOP
Joseph McTernan, Director of Reimbursement Services and Education, AOPA

As part of our centennial celebration, AOPA is launching Healthcare Compliance and Ethics Week in partnership with the Health Care Compliance and Ethics Association. If you want your patient care facility or O&P service to stand out then join this interesting conversation to learn the benefits of participating. You'll leave with real life examples, tips, tools and resources to make it easy to participate. Visit *bit.ly/aopaethics* for more information.

Noon – 1:30 PM **Lunch in Exhibit Hall**
Product Preview Theaters

1:30 – 2:30 PM **DME CERT Outreach and Education Task Force: Prevalent O&P Errors (B7)**

Michael Hanna, Jurisdiction C
Colleen Harryman, Jurisdiction D
Stacie McMichel, Jurisdiction B
Michelle Wullstein, Jurisdiction A

The DME CERT Outreach and Education Task Force will provide an overview of the CERT process followed by an outline of the most prevalent errors within O&P criteria. The panel will then parallel those errors with Medicare's requirements. There will be time for questions from the session attendees at the conclusion of the presentation.

2:30 – 5:15 PM **Best Business Practices and Documentation (B8)**

A full afternoon devoted to Best Business Practices will provide you with tools for better documentation, marketing, enhanced advocacy and managing electronic medical records. Also, learn about the newest member benefit available to AOPA members.

2:30 – 3:00 PM **A New Twist on Documentation (B8A)**

Michael Hanna, Provider Relations Senior Analyst for CGS, DME MAC Jurisdiction C
Pam Lupo, CO
Keith Wilson, CPO

The achievement of proper documentation to support reimbursement is no easy task. The responsibility of telling a patient's story and clinical history, while meeting medical necessity documentation is demanding. It is often the wording or nuance of language that dictates success or failure. This interactive session will use real time audience polling through the AOPA 365 app as we review actual O&P documentation. This presentation will also tie in CERT error rate data and identify relevant and necessary specifications and details.

3:00 – 3:30 PM **The Power of Social Media—Creating an Army of Online Healthcare Advocates to Grow Your Business (B8B)**

Stacey Kozel, Orthotic Patient
Annie Sarabia, Strategy Communications Manager, Ottobock

Social media communities are a powerful tool for advocacy, yet the healthcare industry is behind the curve in recognizing their potential value for marketing. Learn how social media communities play an important role for individuals seeking healthcare solutions that seem out of reach. Discover the power of social media and the importance of creating an army of online advocates to help grow your business where success can be measured by increased engagement and patient actions.

3:30 – 4:00 PM **AMPLIFY: Using Traditional and Digital Methods to Enhance Advocacy (B8C)**

Dan Ignaszewski, Director of Government Relations, Amputee Coalition
Karen Lundquist, MBC
Ashlie White, Project Manager, AOPA

The Amputee Coalition created the "AMPLIFY Your Voice" initiative with support of key industry partners to help address three issues:

- A lack of awareness
- Needed advocacy tools and educational support
- Policy creation

This presentation will discuss the strategic approaches to reaching new and current audiences and motivating them to take action individually and as a group.

Thursday, September 7, 2017

4:00 – 4:30 PM **AOPA's Take on Documentation and Best Business Practices (B8D)**

Joseph McTernan, Director of Reimbursement Services and Education, AOPA

Obtaining and maintaining proper documentation is a vital element in the provision of medically appropriate prosthetic and orthotic care. Documentation creates a chronological timeline of the continuum of care that is necessary for members of the rehabilitation team to provide the best care possible for the patient. In addition, proper documentation is crucial to support claims for reimbursement as it establishes and defines the medical need for the services provided. This session will focus on the role of documentation in developing best practices for your O&P business. Highlights of the session will include how to get proper documentation before you provide a service, how to obtain additional documentation once the service is provided, and the importance of educating referral sources on the need for documentation and its content.

4:30 – 4:45 PM **The AOPA Co-OP: Right at Your Fingertips (B8E)**

Ashlie White, Project Manager, AOPA

Learn about a new coding, reimbursement and policy resource tool available to AOPA members.

4:45 – 5:15 PM **Implementation of EMR—Catching up with the Rest of Healthcare to Communicate with Referral Sources (B8F)**

Darren Donnelly, MBA, CO

The steps necessary in implementing a new EMR system include, planning, budgeting, setting a timeline, managing risk, stakeholder management, implementation and follow up. Other areas to focus on are dealing with logistics of changing and managing expectations. We will define some change management terms like, assigning a change agent, driving results and creating a team for success.

5:30 – 6:30 PM **Centennial Celebration**

Join conference participants as we celebrate AOPA's Centennial and 100 years of the formalized O&P Profession with a Champagne Toast.

6:30 – 9:30 PM **Party with a Purpose**

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

Friday September 8, 2017

7:00 AM **Breakfast**

7:30 – 9:00 AM **General Session (GS2)**
AOPA Membership Meeting and Award Winning Thranhardt Presentations (C13)

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

10:30 AM – Noon **Cyber Security... IS IT SAFE? Be Prepared! (B9)**

Daniel Nelson, Certified Ethical Hacker, Partner and Co-Chair, Data Security and Privacy Practice Group—Armstrong Teasdale
Jeffrey Schultz, Partner and Co-Chair, Data Security and Privacy Practice Group—Armstrong Teasdale
Rebecca Snell, Director IT, Dankmeyer O&P

When it comes to information privacy and data security, preparedness is paramount. Learn common, and even unexpected threats, how to prepare for and how to respond following a breach, and potential liability. Analyze the dangers posed specifically to health care providers, particularly as it relates to privacy laws enacted by HIPAA. The sensitive nature of health care information makes it particularly vulnerable to ransomware and email phishing attacks, extortion, finance, and healthcare-related identity theft.

Noon – 1:30 PM **Lunch Break**

1:30 – 5:00 PM **Triple Aim (B10)**

This series of programming is provided to create awareness and understanding of the Triple Aim of Healthcare and discuss the opportunities and challenges it poses to O&P.

1:30 – 1:45 PM **What is the Triple Aim? An Overview and Definition of the Triple Aim (B10A)**

Eileen Levis

Receive an overview and definition of the Triple Aim concept, how it originated and how it has evolved. Hear an introduction to integrated care as a way to deliver the Triple Aim.

1:45 – 2:30 PM **Complete Care—Succeeding with Alternative Payment Models that Effect O&P (B10B)**

Mark Froimson, MD, MBA, Twenty-Seventh President, American Association of Hip and Knee Surgeons

A review of the different payment models that may be applied to O&P, one to many. The Health Care Payment Learning & Action Network (HCLAN) was created to drive alignment in payment approaches across the public and private sectors of the U.S. health care system. Learn how alternative payment models, including how episode of care payments may impact O&P.

2:30 – 3:15 PM **Quality at Kaiser (B10C)**

Andrew Amster, Director, Department of Care and Service Quality
Jonathon Van Etten, Director, National Provider Contracting & Network Management at Kaiser Foundation Health Plan

Insights into the Total Quality Approach at Kaiser Permanente, how it is measured and how it is applied to O&P providers.

3:15 – 4:00 PM **How Measuring Satisfaction Can Change Behavior (B10D)**

Sandy Rogers, MBA, Customer Loyalty Practice Leader, Franklin Covey

Learn new methods for measuring patient satisfaction and how to use those measurements to drive the behavior you want in the delivery of care.

4:00 – 4:30 PM **How Could Triple Aim Impact the Scope of Practice of the O&P Clinician—Threat or Opportunity? (B10E)**

Frank Bostock, CO, FAAOP

With the rise of integrated care models, what are the potential impacts on the scope of practice?

4:30 – 5:00 PM **Panel Discussion (B10F)**

3:15 – 4:30 PM **Technology Transfer Session (C22)**

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

4:30 – 5:30 PM **Poster Session**

Research posters will be on display throughout the day on Thursday and Friday. The congress has dedicated an hour for you to meet with researchers and learn more about their posters while enjoying a glass of wine.

5:30 – 6:30 PM **Exhibitor Sponsored Happy Hour in Exhibit Hall**

What better way of wrapping up a full day of learning than spending an hour in the exhibit hall enjoying refreshments and networking with your colleagues and exhibitors. The Happy Hour is hosted by exhibitors. A list of sponsors will be included in the final program and on the website to make it easier for you to partake in the fun.

Saturday September 9, 2017

7:00 AM **Breakfast**

8:00 – 9:00 AM **General Session (GS3)**

Symposium: Healthcare Delivery Systems from Around the World

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

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

10:30 – 11:30 AM **Hamontree Presentations—Opening Remarks and Instructions on How to Vote (B11)**

BEST of SHOW

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

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

Andreas Hahn, PhD, MSc

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

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

Ryan Ball

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

11:30 AM – Noon **Pack Behavior (B12)**

Russ Hornfisher

Human beings, like wolves, are pack animals. We both live in social organizations that improve our opportunities for survival. This program provides an interesting look at the power of social networks and how they thrive whilst individuals struggle.

1:00 – 3:00 PM **2017 Compliance Update: Compliance Excellence, Best Business Practices and the Successful Accreditation Survey (B13)**

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

In this day and age compliance with O&P standards are immeasurable, they can make or break your business. Join this education opportunity and discussion on best business practices and ways to help your facility be compliant with the ABC accreditation standards. We’ll discuss ABC’s extensive set of accreditation tools and resources to help you become and remain the best business you can be. We’ll review:

- Best business practices that will save you time and money
- Complying with the standards that apply directly to your practice
- Chart documentation that supports treatment, billing and medical necessity. Make sure you get paid for the services you provide and help defend yourself from audits.
- Opportunities for marketing your practice
- The Top Ten issues ABC surveyors discover during their surveys and even more importantly, how to avoid them!

Clinical Education Program

Register or learn more about the 2017 AOPA World Congress at ***www.opworldcongressusa.org.***

Tuesday September 5, 2017

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

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

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

Wednesday September 6, 2017

8:00 AM – 5:00 PM — **Concurrent Manufacturers' Workshops**

1:00 – 5:00 PM — **Thranhardt Golf Classic**

5:30 – 7:30 PM — **Welcome Reception**

Thursday September 7, 2017

7:00 AM — **Breakfast**

7:30 – 9:00 AM — **General Session (GS1)**
Opening Ceremony and Keynote address

9:00 – 10:30 AM — **Break in Exhibit Hall**

- Take advantage of this time to compete in the Technical Fabrication Contest
- Meet with exhibitors
- View and learn about new products and service offerings from around the world
- Participate in Product Preview Theater Presentations
- Network with attendees
- Enjoy the Walk Through Time—Historical Display
- Play the Giant Slot Machine

10:30 AM – Noon — **Symposium: Future of Prosthetics: Analyzing the Tissue Socket Interface (C1)**

Alexander Dickinson, MEng, PhD, CEng MIMechE
Hugh Herr, PhD
Peter Lee, PhD, BEng (Hon)
Ellankavi Ramasamy, MSc
Urs Schneider, MD, PhD

Join us for an informative symposium as we discuss:

- Quantitative Methodology For The Design and Fabrication of Transtibial Sockets
- Simulating Lower Extremity Amputee Dynamics Using 3D Finite Element Simulations
- Limb Loading In BK Sockets: Simulated Soft Tissue Socket Interaction
- Pressure Casting and Residual Limb/Socket Interaction

10:30 AM – 12:10 PM — **Free Papers—Improving Outcomes for the Lower Limb Amputee (C2)**

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

10:30 – 10:38 AM — **Comorbidities, Physical Function, and Daily Step Counts Among Adults with a Unilateral Transtibial Amputation who are Using a Prosthetic (C2A)**

J. Megan Sions, PhD, DPT, PT

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

10:40 – 10:48 AM — **A Novel Auditory Biofeedback System for Improving Amputee Mobility in the Home and Community (C2B)**

Vibhor Agrawal, PhD
Robert Gailey, PhD

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

10:50 – 10:58 AM — **Selection and Assessment of a Set of Outcome Measures for Electronically Controlled Knee Users (C2C)**

Andrea Giovanni Cutti, PhD

Outcome measures are essential to evaluate the tailored rehabilitation program needed when fitting electronically-controlled prosthetic knees. We have selected a group of instruments and tested their validity on a group of patients.

11:00 – 11:08 AM — **Survey on the Validity of the K-Level System and Utility of Clinical Outcome Measures in K-Level Assignment (C2D)**

Dylan Borrenpohl, CPO

This presentation highlights relevant challenges faced by clinicians who care for patients with lower-limb loss when operating within the K-Level system of classification and reimbursement.

11:10 – 11:18 AM

The Risk of Major Cardiovascular Events for Adults with Above Knee Amputations (C2E)

Benjamin Mundell, PhD

Rates and risk factors for major cardiac events for those with and without an above-knee amputation (AKA) were compared using longitudinal population-based data. Those with an AKA of dysvascular etiology were four times more likely to experience a cardiac event.

11:20 – 11:28 AM

On the (Im-)Possibility to Predict Who May Benefit from a Microprocessor Controlled Prosthetic Knee Component (C2F)

Andreas Hahn, PhD, MSc

We analyzed the extent of 60 clinically important factors to justify allocation or non-allocation of an advanced hydraulic microprocessor controlled exo-prosthetic knee component to prosthetic walkers.

11:30 – 11:38 AM

Comparative Effectiveness of Microprocessor Controlled, Carbon Fiber Energy Storing, and Returning Prosthetic Feet in Persons with Unilateral Transtibial Amputation (C2G)

Brian Kaluf, BSE, CP

This effort represents the largest study of microprocessor-controlled prosthetic ankles and the results include clinically relevant outcome measures that matter most to patients, prosthetists, physicians and payers.

11:40 – 11:48 AM

Does a Vacuum Assisted Suspension System Improve Elderly Transtibial Amputees Gait and Balance Close to Non-Amputee Scores? (C2H)

Beatriz Samitier, MD, PhD

This presentation will examine the improvement in gait capability and functional mobility of elderly trans-tibial dysvascular amputees using vacuum assisted suspension systems and analyze the differences compared to a non-amputee control group.

11:50 – 11:58 AM

Why do Amputees Prefer Energy Storage and Return Feet? Clues from the Analysis of Step Length Asymmetry and Margin of Stability (C2I)

Andrea Giovanni Cutti, PhD
Han Houdijk, PhD

Increasing evidence exists that energy cost is only marginally effected by energy storage and return feet (ESAR). The question why amputees largely prefer ESAR, remains unexplained from the biomechanical standpoint. We hypothesize that an ESAR foot might enhance push off power and enhance the backward margin of stability allowing a more stable and symmetrical gait pattern.

Noon – 12:08 PM

Affects of Prosthetic Socket Suspension on Gait in Unilateral Transtibial Amputees (C2J)

Fan Gao, PhD

Hear an overview of an investigation on the affects of prosthetic socket suspension including VASS, suction and locking-pin on gait characteristics in unilateral transtibial amputees.

10:30 AM – Noon

Symposium: Orthotic Management of Post Stroke Gait Dysfunction (C3)

Stefania Fatone, PhD, BPO (Hons)
Jill Seale, PT, PhD, NCS

This symposium will outline the most common gait deviations and causative impairments for the common gait patterns following stroke. The current state of orthotic utilization in stroke recovery will be described, along with challenges and barriers to orthotic use for stroke survivors. The symposium will focus on interventions to manage the swing phase clearance dysfunction (traditional and FES) and stance phase issues. Finally, the symposium will review the evidence on best device type, orthotic outcomes, and timing for orthotic intervention.

Noon – 1:00 PM

Lunch and Learn: Exoskeletons and NeuroRehab—Where are we Headed?

Kern Bhugra, MSEE
Hugh Herr, PhD
Larry Jasinski, MBA

Join us for a lunch buffet and advanced level discussion on the indications for use (i.e. Stroke, MS, Parkinsons, etc.); technology direction; price points and affordability; reimbursement potential; clinical trials; and home vs clinic. This session is designed for seasoned prosthetists. *Tickets are required and available through registration; limited space available.*

Noon – 1:30 PM

Lunch in Exhibit Hall
Product Preview Theaters

1:30 – 3:00 PM

Symposium: New Technologies for Prosthetics and Orthotics (C4)

Thor Besier, PhD
Jannis Breuniger, MSc
Andrew Hansen, PhD
Michael Schaefer, CPO, Dipl.
Urs Schneider, MD, PhD

Technology options for improved treatment in orthotics and prosthetics will be presented. Panelists will share innovations on a new approach to smart sensing joint modules in orthotics; a new method to improve socket climate; digital manufacturing in the O&P clinic and 3D printed prosthetic feet—new approaches to functional components.

1:30 – 3:10 PM

Specializing in Upper Limb Prosthetics—A Free Paper Session (C5)

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

1:30 – 1:38 PM

A Wireless Implantable Multichannel Myoelectric System for Prostheses Control (C5A)

Daniel McDonnall, PhD

The goal of this study is to validate an implantable myoelectric system to improve control of prostheses. Our objective is to provide simultaneous multi-degree of freedom prosthesis control, ultimately providing an intuitive control experience. In this study we demonstrate system performance in a chronic animal study.

1:40 – 1:48 PM

Differences in Southampton Hand Assessment Procedure Scores with and without the Use of Powered Partial-Hand Prostheses (C5B)

Lynsay Whelan, MS, OTR/L

This presentation will evaluate differences between Southampton Hand Assessment Procedure (SHAP) outcome measure scores and kinematic movements during functional tasks for individuals with partial hand limb loss with and without a myoelectric prosthesis.

Thursday, September 7, 2017

1:50 – 1:58 PM

Control within a Virtual Environment is Correlated to Functional Outcomes when using a Physical Prosthesis (C5C)

Levi Hargrove, PhD

This session will show the outcome measures from a virtual environment and how they correlate strongly with physical performance when controlling a prosthesis.

2:00 – 2:08 PM

Performance and Satisfaction with Intuitive Multifunctional Hand Prosthesis Control (C5D)

Ivana Sreckovic, PhD

This study gathers feedback from certified prosthetists and users who had the possibility of testing a system with pattern recognition at home for four weeks. The improvements in unilateral gross manual dexterity and ability to control two degrees of freedom were observed during initial fitting and follow-up measurements.

2:10 – 2:18 PM

Adaptive Calibration for Enhanced Pattern Recognition Control For Upper-Limb Prostheses (C5E)

Nathan Brantly, Research Engineer, Coapt
Blair Lock, MSc, PEng

An adaptive calibration scheme is presented as an alternative approach with the potential to improve prosthesis control and reduce the need for re-calibration.

2:20 – 2:28 PM

Factors that Influence Acceptance and Rejection of an Upper Limb Prosthesis (C5F)

Andreas Kannenberg, MD, PhD

Leveraging factors that influence rejection of UL prostheses could help improve acceptance, function and quality of life in persons with UL amputations. Based on the findings of our literature search, specific guidelines are proposed to improve prosthesis acceptance that focus on fitting as early as medically possible.

2:30 – 2:38 PM

Sixty Years of Active Prosthesis Use: A Self-Report Case Study with Recommendations (C5G)

Debra Latour, MEd, OTR/L

This presentation offers insight to the experiences of an individual over six decades of active and diverse prosthetic use and incorporates the compelling perspective of the individual as a consumer of prosthetic technology, clinician, and contributor to the population and the industry.

2:40 – 2:48 PM

The Clinical Application of Pattern Recognition Control in Upper Limb Prosthetics: A Two-Year Retrospective (C5H)

Chris Baschuk, MPO, CPO, LP, FAAOP

Pattern recognition control of externally powered prostheses has been commercially available for several years. Presented here is a series of case studies over the course of the past two years demonstrating the clinical success and challenges associated with utilizing this technology.

2:50 – 2:58 PM

Liners with Embedded Electrodes for Direct Control Prostheses (C5I)

Matthew Wernke, PhD

The RIC developed a liner with embedded electrodes. The evaluation of this device was with participants using pattern recognition control of their myoelectric devices. This work investigates the potential for the liner to work with direct control myoelectric prostheses.

3:00 – 3:08 PM

Development of a Novel Modular Hand Prosthesis System for Children and Adolescents (C5J)

Wilfried J. Elspass, PhD
Fabian Schollenberger, MSc

We will review a modular hand prosthesis system with light weight and low cost modules created for children and adolescents.

1:30 – 3:00 PM

Symposium: Driving Improved Patient Care: Examples from Clinicians on Outcomes Use (C6)

Andrea Kinsinger, PT
Matt Luetke, CPO
Shane Wurdeman, PhD
James Wynne, CPO

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

3:15 – 4:30 PM

Instructional Course: Innovative Transfemoral Socket Design (C7)

Malte Bellmann, Dipl.-Ing
Olaf Gawron, CPO
Jason Kahle, MSMS, CPO, FAAOP
Marlo Ortiz, CP(M)
Michael Schaefer, CPO, Dipl.

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

3:15 – 4:30 PM

Prosthetic Management of the Lower Limb Amputee—A Free Paper Session (C8)

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

3:20 – 3:28 PM

Gait Training Interventions for Lower Extremity Amputees (C8A)

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

Gait training interventions for lower extremity amputees are not well studied. This systematic review evaluated over 10 years of literature revealing 18 articles covering two topical areas, including, overground and treadmill-based gait training interventions.

3:30 – 3:38 PM

Empowering Prosthesis Wearer's Self-Management Abilities Through Mobile Technology: A Usability and Acceptability Study (C8B)

Daniel Lee, PT, DPT, GCS

The most common reason individuals with limb loss consult their prosthetist is socket comfort. This study compares the usability and acceptability of an interactive self-management mobile app against that of the previously studied paper-based decision trees in adult lower limb prosthesis wearers.

3:40 – 3:48 PM

Limb Volume Stability in Response to Socket Suspension (C8C)

Matthew Wernke, PhD

Elevated vacuum suspension has previously been reported to better manage limb volume compared to other forms of suspension. This study investigates differences in limb volume changes due to suspension and activity.

3:50 – 3:58 PM

A Case Study of a Hip Disarticulation Amputee Converting to a Transfemoral Amputee (C8D)

Burhan Dhar, CPO

Advanced amputation and prosthetic innovation leads to a good quality of life.

4:00 – 4:08 PM

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

Todd Farrell, PhD
Thane Hunt, BS Robotic Engineering

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

4:10 – 4:18 PM

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

Tyler Klenow, MSOP, CPO, LPO, CPT

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

4:20 – 4:28 PM

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

Joshua Steer, BEng

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

3:15 – 4:30 PM

Symposium: Gait Salvage: Mobility Matters (C9)

David Armstrong, DPM, MD, PhD
Eric Burns, CPO
Mallory Lemons, CPO
Holly Olszewski, CPO

A growing number of today's amputees are a result of dysvacular disease most several comorbities. These patients are often in declining health and mobility could be an answer for many of their health related issues. Research shows mobility is an indicator of future health wellness and future health care costs. Can orthotics and prosthetic intervention change the declining trajectory of these patient with a focus on Gait Salvage as a primary outcome measure?

4:30 – 5:30 PM

German Quality Standards of Prosthetic Fittings in Upper and Lower Limb Prosthetics (C10)

Merkur Alimusaj, Dipl.-Ing, CPO
Olaf Gawron, CPO
Michael Schaefer, CPO, Dipl.

The session focuses on the recently published German compendiums, "Quality Standards in Upper Limb Prosthetics" and "Quality Standards in Lower Limb Prosthetics."

4:30 – 5:30 PM

Unique Considerations in Prosthetic Clinical Care—A Free Paper Session (C11)

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

4:30 – 4:38 PM

Evaluation of a Non-Fluid-Based Variable Cadence Controller (VCC) To Control Transfemoral Swing-Phase over a Range of Walking Speeds (C11A)

Jan Andrysek, PhD
Brandon Burke, BA

The presentation relates to the development of a non-fluid based swing-phase Variable Cadence Controller (VCC) for use in prosthetic knee joints. Findings indicate that the VCC is able to provide cadence responsive control over a broad range of walking speeds.

4:40 – 4:48 PM

Which Functional Elements Stabilize the Residual Limb within Transfemoral Sockets in both Frontal and Sagittal Plane for Optimized Prosthetic Gait? (C11B)

Malte Bellmann, Dipl.-Ing

Review the findings of a novel study developed to objectify force transmission principles in three types of transfemoral sockets (CAT-CAM, MAS, subischial socket).

4:50 – 4:58 PM

Fluctuating Residual Limb Volume Accommodated with an Adjustable, Modular Socket Design: A Novel Case Report (C11C)

Anthony Ung, CPO

The case study presented will discuss the management of female CRPS with fluctuating residual limb volume using a modular, adjustable, transfemoral prosthetic socket.

5:00 – 5:08 PM

Cost-Effectiveness of Advanced Hydraulic Microprocessor Controlled Knee Protheses in Patients with Lower Limb Amputations (C11D)

Andreas Hahn, PhD, MSc

We report on the results of a health economic analysis investigating the impact of fall- related costs on the overall cost effectiveness of advanced hydraulic microprocessor controlled exo-prosthetic knee components. We stratify for subjects with vascular and non-vascular amputation etiology.

5:10 – 5:18 PM

Effects of Prosthetic Socket Suspension on Knee Proprioception and Dynamic Balance in Transtibial Amputees (C11E)

Fan Gao, PhD

This presentation will give an overview of an investigation of the effects of prosthetic socket suspension including VASS, suction, and locking-pin on knee proprioception and dynamic balance in unilateral transtibial amputees.

5:20 – 5:28 PM

Viability of Prescribing Increases in Physical Activity in Lower Limb Amputees (C11F)

Goeran Fiedler, CP
Emily Heskett, MSPO

Amputees are known to display lower levels of daily physical activity compared to non-amputees, which is detrimental to their health. The aim of this study was to investigate to what extent people with lower limb loss adhere to the increases in physical activity as prescribed.

Thursday, September 7, 2017

4:30 – 5:30 PM **Symposium: Implementing an Integrated Care Model into Your Practice (C12)**

Andrea Giovanni Cutti, PhD
John Miguelez, CP, FAAOP(D)
Paul Prusakowski, CPO
Silvia Raschke, PhD
Tiffany Ryan, MOT, OTR/L
Michael Schaefer, CPO, Dipl.

This session shows how different experts have implemented an integrated care model approach into their every-day clinical practice. A multi-disciplinary team works closely with the patient to create and implement a prosthetic/orthotic and rehabilitation program. This approach has proved to be effective both in lower/upper limb prosthetics and orthotics, creating excellent outcomes for patients whilst establishing a competitive advantage for the company.

5:30 – 6:30 PM **Centennial Celebration**

Join conference participants as we celebrate AOPA's Centennial and 100 years of the formalized O&P Profession with a Champagne Toast.

6:30 – 9:30 PM **Party with a Purpose**

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

Friday September 8, 2017

7:00 AM **Breakfast**

7:30 – 9:00 AM **General Session (G S2)**

7:30 – 8:00 AM **AOPA Membership Meeting**

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.

8:00 – 9:00 AM **Best of Show Thranhardt Presentations (C13)**

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

8:05 – 8:15 AM **Introducing the Prosthetic Homologue for Embodiment (C13A)**

Michael Wininger, PhD

We will introduce the concept of the prosthetic homologue: Not just a prosthesis that looks "life-like," but one that "looks like me." We present the first formal scientific inquiry into whether the homologue is truly necessary in order to achieve embodiment.

8:20 – 8:30 AM **Reference Values for Temporal Gait and Loading Symmetry of Lower-Limb Amputees can Help in Refocusing Rehabilitation Targets (C13B)**

Andrea Giovanni Cutti, PhD
Gennaro Verni, MEng

Are there typical values for temporal gait symmetry and loading of lower-knee amputees? Is it always true that amputees tend to overload the sound side? This study on 63 patients will provide you with some quantitative data to support your decision making.

8:35 – 8:45 AM **Do Foot Orthoses Work? Outcomes from a Multi-Clinic Study of 6,658 Pedorthic Patient Visits (C13C)**

Michael Ryan, PhD, CPed

This study reports on the effectiveness and comfort outcomes in 6,658 patients seen in 9 pedorthic clinics in Vancouver, Canada. The outcomes from this analysis offer important insights into the clinical effectiveness of custom foot orthoses for lower extremity injuries on a large-scale sample. There is also good support from this study on the overall usage and perceived comfort of custom foot orthoses.

8:50 – 9:00 AM **The Micro-Processor Controlled Orthosis: What is the Impact to the User Versus the Stance Control Orthosis and Conventional Locked KAFO? (C13D)**

Shenan Hoppe-Ludwig, CPO

We will evaluate the potential of a microprocessor controlled orthosis (MPO) to improve the functional mobility and quality of life in individuals with lower extremity impairments as compared to the SCO and conventional KAFO.

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

10:30 AM – Noon

Symposium: Power in Prosthetics (C14)

Hans Dietl, PhD
Alena Grabowski, PhD
Levi Hargrove, PhD
Kenton Kaufman, PhD, PE
David Moser, PhD
Jeff Ward, PhD
Jason Wilkin, PhD, MPT
Saeed Zahedi, PhD

Learn the status of science in the area of power in prosthetics. We will discuss the current industrial experiences, and user evidences of the benefit of this advance in technology.

- Welcome and Introduction to our 3rd Joint Symposium
- Industry vision for 2020
- Two different pathways to apply power
- User experience and requirements
- Underlying science of biomechanical need
- Research findings to date
- Chicago Rehab Institute research
- Spring active/Össur experience
- Biom/Ottobock experience

10:30 AM – 12:10 PM

Improving Function for the Orthotic Patient—A Free Paper Session (C15)

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

10:30 – 10:38 AM

Improvement in Functional Elbow Movement with a Myoelectric Orthotic Device: A Novel Application of a Post-CVA Assistive Rehabilitation Orthotic Device (C15A)

Vahe Fahradyan, MD

Brachial plexus injuries are devastating and can lead to permanent loss of upper extremity function. This presentation will introduce new treatment modalities for the patients with poor functional outcome following brachial plexus reconstruction.

10:40 – 10:48 AM

Report on Three Users' Function After One Year of Using Upper Extremity Myoelectric Custom Orthosis to Remediate Brachial Plexus Injury Paresis (C15B)

David Coleman, CPO

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

10:50 – 10:58 AM

Functional Utility of Wearing a Myoelectric Upper Extremity Orthosis in Chronic Stroke Survivors with Moderate Hemiparesis (C15C)

Lauren Wengerd, MS, OTR/L

This work investigates the clinical utility of wearing an upper extremity myoelectric orthosis to maximize function in individuals with hemiparesis post-stroke. Results of this study, clinical implications, and future directions in the field of myoelectric orthoses will be discussed.

11:00 – 11:08 AM

Economic Impact of Brace Use to Treat Adolescent Idiopathic Scoliosis on Total Charges in the United States (C15D)

Sean Zeller, MBA, MSPO, CPO

This presentation outlines a model for discussion of the potential economic impact of bracing relative to surgical management. This discussion is critical to decision making and to future efforts to improve care.

11:10 – 11:18 AM

Asymmetric CAD/CAM Bracing for Idiopathic Scoliosis ≥ 40 Degrees (C15E)

Ken Mandler, L/CO
Marc Moramarco, DC

We will discuss 3D asymmetric bracing for moderate and severe idiopathic scoliosis at the later stages of skeletal maturity. We will present the initial in-brace corrections (short-term result) of a cohort of 28 patients.

11:20 – 11:28 AM

Effect of Sacroilic Belt on Activity Pattern of Lumbopelvic Muscles in Patient in with Unilateral Sacroiliac Joint Instability in Different Loading Conditions (C15F)

Sarvenaz Karimi

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

11:30 – 11:38 AM

Cranial Remolding Orthosis Quality Management in Patients with Brachycephaly and Plagiocephaly (C15G)

Julie McCulley, MPO, MS, ATC/L

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

11:40 – 11:48 AM

Functional Bracing for Treatment of Pediatric Diaphyseal Femoral Fractures: An Alternative to Spica Casting? (C15H)

David Speers, CPO/L

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

11:50 – 11:58 AM

Maintaining Upright Posture: Balancing Moments and Preventing Falls (C15I)

J. Kim Ross, DC, PhD

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

Friday, September 8, 2017

Noon – 12:08 PM

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

Beatrice Janka, MPO, CPO

Traditionally, total contact orthoses are recommended to provide the highest level of support for the postural deficits associated with neuromuscular conditions. Alternatively, open frame orthotic designs are sometimes used, offering a variety of benefits. The focus of this pilot study was to determine the relative influence of the orthotic support of open frame versus total contact AFOs on function, endurance, and activity level in subjects with spastic equinovarus secondary to chronic stroke.

10:30 AM – Noon

Symposium: World Perspectives on Polio & PPS Management (C16)

Gordon Jackman, BSc, MA, 1st Dip Ed.
Jason Jennings, CPO, LO, FAAOP
Marmaduke Loke, CPO
Mac McClellan, CPO, LPO, FISPO, FAAOP

Polio care is very relevant around the world and is still a major factor in the USA. Orthotic care is the most important treatment factor to improve the quality of life for a polio survivor. This course will educate an orthotist's traditional methods as well as advanced methods of improving the lives of mild to severe cases of polio.

10:30 AM – Noon

Symposium: Current Strategies for Managing Charcot-Marie Tooth (CMT) Disease (C17) (P5)

David Cooney, PT, CPO
Kenneth Cornell, CO
Marmaduke Loke, CPO
David Misener, BSc (HK), CPO, MBA
Glenn B. Pfeffer, MD

CMT is the most commonly inherited disorder of the peripheral nervous system affecting 1 in 2,500 people, 2.8 million worldwide and 150,000 in the USA. Studies reveal most patients report a poor experience with orthotic/pedorthic management. This symposium will describe the pathology of the disease, mechanism of deformity, physical deficits and associated gait impairments. The panel will present current orthotic and pedorthic strategies and advance tri-planar management.

Noon – 1:30 PM

Lunch in Exhibit Hall
Product Preview Theaters

12:15 – 1:30 PM

Lunch and Learn: The Diabetic Foot in Remission–Strategies to Make Prevention Pay

David Armstrong, DPM, MD, PhD

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

1:30 – 3:00 PM

Advancements in Osseointegration Technology for Amputees (C18)

Munjed Al Muderis, MB, ChB, FRACS, FAOthA
Rickard Branemark, MD, PhD
Jonathan Forsberg, MD, PhD
Erik Kubiak, MD
Richard McGough, MD
Richard O'Donnell, MD

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

1:30 – 3:10 PM

New Considerations in Lower Limb Orthotic Management—A Free Papers Session (C19)

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

1:30 – 1:38 PM

The Variable Resistance Orthotic Knee (C19A)

Edward Lemaire, PhD

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

1:40 – 1:48 PM

Safety and Effectiveness Results from the C-Brace Retrospective Registry (C19B)

Russ Lundstrom, MS

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

1:50 – 1:58 PM

Development of a Bench Testing Procedure in Quantifying the Mechanical Properties of Ankle-Foot Orthoses in Additive Manufacturing (C19C)

Tsurayuki Murakami, BSc (Hons)

With the absence of strong evidence in the mechanical properties of AFOs in additive manufacturing, this presentation advocates for a robust mechanical testing procedure to ensure the safe use of additive manufacturing devices among users. This presentation also provides insight on how the mechanical properties of a polycarbonate AFO fabricated from fused deposition modeling compares to a conventionally fabricated polypropylene AFO.

2:00 – 2:08 PM

Additional Weight Added to Ankle Foot Orthoses Could Increase Coordination of Gait in Pediatric Patients (C19D)

Marlies Cabell, CPO

This case series introduces the concept of incorporating additional weight to pediatric AFOs intentionally to increase proprioceptive feedback and enhance motor coordination for gait.

2:10 – 2:18 PM

Case Study: Gait Analyses of Tuning AFOFC for an Adult with Ankle Plantar-flexed Contracture (C19E)

Paul Huhta, MSOP
Sun Hae Jang, MSc, CO, FAAOP

This case study focuses on a subject presenting with a plantar-flexed ankle contracture, and analyzing gait changes with a solid AFO aligned to different shank-to-vertical angles (SVA) and shoe modifications per Elaine Owen's clinical algorithm for tuning AFOs with fixed contractures. The Edinburgh Visual Gait Score and Step Length were used to measure outcomes.

2:20 – 2:28 PM

Choosing the Optimal Passive-Dynamic Ankle Foot Orthosis for your Patient (C19F)

David Knapp, CPO

This is a guide to the selection criteria needed to choose a passive-dynamic AFO for your patient. The course spans patient evaluation, matching patient goals to the biomechanical goals, and designing a device to reach those goals.

2:30 – 2:38 PM

Challenging Current Practices and Beliefs in Using AFOs for Pediatric Patients with Cerebral Palsy (C19G)

Curt Bertram, CPO, FAAOP

For years pediatric patients diagnosed with cerebral palsy have been managed with standards of practice and beliefs that are now being challenged by new paradigms and research. This article will address these existing beliefs of current practice and the new paradigms that have begun to challenge them as myths.

2:40 – 2:48 PM

Prevalence of Flat Foot/Pes Plannus among School Children between 6 – 10 Years Old (C19H)

Mansoor Ali, CPO
Muhammad Sajid, CPO

An analyses of 714 children concluded that the prevalence of flat foot in school children, ages 6-10, is 14.8% and is also more common in male children with a bilateral incidence of 76.4%.

2:50 – 2:58 PM

A Flexible AFO: Contradiction to Traditional Thought? (C19I)

Suzanne Guiffre, PT, EdD

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

3:00 – 3:08 PM

Case Study: Gait and Functional Analysis of Three Carbon Fiber Ankle Foot Orthoses (AFOs) and Their Effectiveness Addressing Drop Foot (C19J)

Sun Hae Jang, MSc, CO, FAAOP

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

1:30 – 3:00 PM

Symposium: Pediatric LE Orthotic Gait and Functional Design, Tuning and Alignment (C20)

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

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

3:15 – 5:00 PM

Symposium (C21)

3:15 – 4:30 PM

Symposium: Predicting Walking Ability Following Lower Limb Amputation (C21A)

Jason Kahle, MSMS, CPO, FAAOP
Jason Highsmith, PhD, DPT, CP, FAAOP
Kenton Kaufman, PhD, PE
Hans Schaepper, PhD(c), MS Div, CPO

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

4:30 – 5:00 PM

A Deeper Look into Full-Contact BK Sockets via a Comprehensive Fluid Control System (C2B)

Van Phillips, Inventor

Learn about a comprehensive, full-contact fluid control system for below-knee sockets.

3:15 – 4:30 PM

Technology Transfer Session (C22)

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

4:30 – 5:30 PM

Poster Session

Research posters will be on display throughout the day on Thursday and Friday. The Congress has dedicated an hour for you to meet with researchers and learn more about their presentation while enjoying a glass of wine.

5:30 – 6:30 PM

Exhibitor Sponsored Happy Hour in Exhibit Hall

What better way of wrapping up a full day of learning than spending an hour in the exhibit hall enjoying refreshments and networking with your colleagues and exhibitors. The Happy Hour is hosted by exhibitors. A list of sponsors will be included in the final program and on the website to make it easier for you to partake in the fun.

Saturday September 9, 2017

7:00 – 7:30 AM **Breakfast**

8:00 – 9:00 AM **General Session (GS3)**

Symposium: Healthcare Delivery Systems from Around the World

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

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

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

Michael Dillon, PhD, Invited
Stefania, Fatone, PhD

About 50% of people that undergo a partial foot amputation will experience significant complications in the first few weeks or months after amputation surgery such as infection, dehiscence or complete failure of the wound. Only about half of all partial foot amputations will have healed at 3 months and many people spend weeks or months in-and-out of wound clinics and hospital in an effort to salvage the remnant foot. The process can be very painful. The frequency of healthcare visits and common interventions such as Vacuum Assisted Closure are often considered to be burdensome by many people. When you recognize that one in four people will have undergone a revision with the year, and half of all partial foot amputations are revised within 5 years, it begs the question whether outcomes of partial foot amputation are worth the high rates of complications and reamputation.

10:30 AM – Noon **Symposium: Pediatric UE Functional Orthotics for Children with Neuromuscular Diseases (C24)**

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

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

10:30 AM – Noon **Prosthetic Free Papers—Advancing Care for Today (C25)**

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

10:30 – 10:38 AM **Differences in Stepping, Functional Level and Cost-Efficacy of the Genium and C-Leg Microprocessor Knees (C25A)**

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

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

10:40 – 10:48 AM **Osseointegrated Implants in Patients with Diabetes Mellitus: A Case Series of Eight Patients (C25B)**

Munjed Al Muderis, MD

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

10:50 – 10:58 AM **Advanced Prosthetic Components Improve Standing Balance and Limb Load Symmetry for Transfemoral Amputees using Microprocessor Knees (C25C)**

David Moser, PhD

The efficacy of microprocessor knees (MPKs) with enhanced standing support was tested for different prosthetic ankle types. The combination of an MPK, with standing support active, and a hydraulic ankle, produced balance and limb loading measurements closest to those of able-bodied controls.

11:00 – 11:08 AM **The First 500 of the POQOL-100 (C25D)**

Michael Wininger, PhD

What quality of life questions are we asking our patients and in what settings? The POQOL project is run by clinicians in attempt to better understand patient care and evidence-based practice.

11:10 – 11:18 AM **Clinical Trials are the Future of O&P (C25E)**

Kristine Houck, MA, ELS
Michael Wininger, PhD

Clinical trials are the pinnacle of medical evidence, however, there are surprisingly few clinical trials in P&O. The case will be made that now is the time for our profession to adopt a clinical trials mindset.

11:20 – 11:28 AM **The Role of Exercise Testing in Prosthetic Rehabilitation: A Systematic Literature Review (C25F)**

M. Jason Highsmith, PhD, DPT, CP, FAAOP
Tyler D. Klenow, MSOP, CPO, LPO, CPT

Exercise testing provides for an alternative or adjunct method of functional classification of individuals with a history of amputation to the current K-level system. Results of a systematic literature review of exercise testing in the amputee population are discussed. A proposed clinical treatment pathway will also be presented.

11:30 – 11:38 AM **Adjustable Liners and Sockets for Prosthetic Devices (C25G)**

Lenore Rasmussen, PhD

Ras Labs' Synthetic Muscle™ will allow amputees to continue their active lives without needing to adjust the fitting of their prosthetic device(s) throughout the day. This technology will resolve major issues facing amputees, most notably the pain of prosthetic slippage and the inconvenience of adding or removing prosthetic socks.

11:40 – 11:48 AM

Clinical Results on the Use of a Microprocessor Controlled Prosthetic Knee Component for Above-Knee Amputees of Low Mobility (C25H)

Andreas Hahn, PhD, MSc

Hear a multicentric, international, randomized controlled cross-over trial to investigate the impact of an innovative advanced hydraulic microprocessor controlled exo-prosthetic knee on amputees with low mobility grade ratings. The study provides an evidence level amongst the highest yet available in P&O.

11:50 – 11:58 AM

On the Use of Health Economic Instruments to Evaluate Prosthetic Services (C25I)

Andreas Hahn, PhD, MSc

Using data from 81 amputees, this research study investigates the suitability of utilizing health economic instruments to evaluate prosthetic services.

Noon – 1:00 PM

Lunch on your own

1:00 – 2:30 PM

Symposium: Multi-Scale Integration in Upper Limb Prosthetics (C26)

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

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

1:00 – 2:30 PM

Orthotic Symposium: Stance Control (C27)

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

The commercial technology of stance control orthoses has been a clinical solution option for practitioners facing patients with lower limb gait instabilities for over twenty years. In this presentation, representatives of the three main manufacturers involved with the production of component options will present an industry review. The symposium will help practitioners refine their clinical decision making and reimbursement justification.

1:30 – 2:50 PM

Prosthetic Free Papers (C28)

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

1:40 – 1:48 PM

Changes in Pressure Distribution and Outcomes with Alignment Changes (C28A)

Garrett Hurley, CPO

This study aims to quantify and understand stresses experienced at the residual limb with prosthetic alignment differences. Results suggest that alignment does affect forces within the socket and that force sensors within the prosthetic socket may be helpful in determining appropriate alignment.

1:50 – 1:58 PM

Change in Pressure Distribution and Outcomes with Loose and Tight Tension (C28B)

Garrett Hurley, CPO

Data quantifying the relationship between pressure distribution on a residual limb and patient outcomes are critical for rational prosthetic socket design and may help justify costs when payers challenge the need for socket replacements. This study uses an adjustable socket design as a research tool to change the fit of the socket in real time while keeping other variables consistent.

2:00 – 2:08 PM

Comparison of Timed Submerged Swimming Trials with and without Lower Extremity Prostheses (C28C)

Duffy Felmlee, MSPO, CPO
Michael McCauley, MSPO, CPO

Land based activities require additional energy expenditure depending on amputation level. Is is hypothesized that a submerged aquatic activity will reduce energy requirements independent of amputation level as compared to land-based activities. Hear the results of two trials with six amputees of various levels of amputation.

2:10 – 2:18 PM

Impact Test for Prosthetic Feet (C28D)

Eric Nickel, MS

An impact loading test has been developed for prosthetic feet to simulate high impact activities that may be encountered in construction, fire and rescue, and military service. This presentation will present validation data and results of testing commercially available feet intended for high-impact activities.

2:20 – 2:28 PM

The Provision of Prosthetic Limbs through Vocational Rehabilitation Enables People with Amputation to Achieve Successful Employment (C28E)

Lee Childers, PhD, MSPO, CP

The RSA-911 database contains data on individuals with amputation that utilize vocational rehabilitation (VR) services. This database was used to determine who received funding for prosthetic devices and how that has a positive effect on gaining employment.

2:30 – 2:38 PM

Assessment of Prosthetic Mobility and its Relationship to Fall History in People with Lower Limb Amputation (C28F)

Sheila Clemens, PT, MPT, PhD(c)
Ignacio Gaunaurd, PT, PhD, MSPT

The Timed-Up-and-Go (TUG) test is frequently used to assess mobility in people with lower limb amputation (LLA). The purpose of this study was to identify limitations in prosthetic mobility using the cTUG, and investigate the potential relationship to falls in the amputee population.

2:40 – 2:48

An 18-Month Review of Implementing Outcome Measures in Clinical Practice (C28G)

Brittany Pousett, CP(C), MSc

This presentation will share insight with regards to the feasibility of implementing standardized OMs, the impact they have on individual patients, and how their use can contribute to the development of interpretability parameters.

1:00 – 2:30 PM

Symposium: Everyday Risk & New Regulations of Isocyanate in the O&P Work Environment (C29)

Carlo Luetto, BS
Marie Rise, OT
Fletcher Session, OTC

Orthotists and Prosthetists are exposed on a routine basis to isocyanates found in synthetic casting materials. The National Institute of Health studies have shown that isocyanates can result in health risks for both the technician applying the cast and the patient. This presentation will examine the function of isocyanate in casting materials, as a catalyst to potential allergic reactions, other risks and guidelines, and how to minimize those risks.

Pedorthic Clinical Education Program

Register or learn more about the 2017 AOPA World Congress at ***www.opworldcongressusa.org.***

Don't miss this intriguing pedorthic education program which begins on Wednesday, September 6 with a full day of Manufacturers' Workshops. Thursday, September 7 (Day 2) focuses on achieving the best outcomes while treating the different stages of diabetes. Friday, September 8 (Day 3) starts off with an in-depth symposium on Managing Charcot-Marie Tooth Disease while the afternoon provides an opportunity to learn, touch and experience advance technologies such as scanning, CAD and 3-D Printing. We wrap up our final day, Saturday, September 9 (Day 4) with a look to tomorrow from researchers.

The 2017 World Congress begins each day with a general session and then offers five distinct education tracks (Pedorthic, Orthotic, Prosthetic, Technical and Business) to provide you with the dedicated learning experience you've come to expect from AOPA and its partners.

Wednesday September 6, 2017

8:00 AM – 5:00 PM	**Concurrent Manufacturers' Workshops**
1:00 – 5:00 PM	**Thranhardt Golf Classic**
5:30 – 7:30 PM	**Welcome Reception**

Thursday September 7, 2017

7:00 AM — **Breakfast**

7:30 – 9:00 AM — **General Session (GS1)**
Opening Ceremony and Keynote address

9:00 – 10:30 AM — **Break in Exhibit Hall**

10:30 – 11:30 AM — **Managing the Diabetic Foot—An Update from Around the World (P1)**

India – Rakesh Jain, CPO, LPO
United States – Dennis Janisse, CPed
Netherlands – Klaas Postema, MD, PhD
Thailand – Gulapar Srisawasdi, MD, CPed
Guatemala – Luis Rodil

According to the International Diabetes Federation, in developed countries, one in every six people with diabetes will have an ulcer during their lifetime. In developing countries, foot problems related to diabetes are thought to be even more common. Diabetic foot problems account for up to 15% of healthcare resources in developed countries. It has been estimated that foot problems may account for as much as 40% of the total available resources. This session will provide you with the opportunity to receive an update on Diabetic Foot Management from your international colleagues.

11:30 AM – Noon — **Pre-Ulcer Stage: Diabetic Foot Screening and Evaluation (P2)**

Gulapar Srisawasdi, MD, CPed

Foot ulcers and other lower-limb complications secondary to diabetes are common, complex, costly, and associated with increased morbidity and mortality. Strong evidence suggests that consistent provision of foot-care services and preventive care can reduce amputations among patients with diabetes. However, routine foot examination and rapid risk stratification is often difficult to incorporate into busy primary care settings. Data suggests that the diabetic foot is adequately evaluated only 12% to 20% of the time which is why it is important for all health care specialists to incorporate a stringent Diabetic Foot screening and evaluation as part of every patient encounter.

Noon – 1:30 PM — **Lunch in Exhibit Hall**
Product Preview Theater

1:30 – 2:00 PM — **Pre-Ulcer Stage: Off-Loading for Ulcer Prevention (P3)**

Brian Lane, CPed

Up to 50 percent of people with diabetes eventually lose sensation in their feet, which is sufficient for them to injure themselves unknowingly. It is vital to offload these areas but due to the patients' inadequate sensation, they are unable to judge whether they have obtained pressure relief. We will discuss:

- role of insole: off the shelf vs custom made
- role of shoes: off the shelf vs custom made

2:00 – 2:30 PM — **Ulcer Stage: Diabetic Management of the Foot Ulcer and Pedorthic Concern—What Physicians Want (P4)**

Gulapar Srisawasdi, MD, CPed

For many surgeons, the main objective in an amputation procedure is to salvage as much functional limb that will heal; for a pedorthist, the goal is to preserve and restore the patient's functional level. During this segment of the program, we will discuss:

- post-partial foot amputation
- proper level of amputation: does it matter for pedorthists?

2:30 – 3:15 PM — **Ulcer Stage: Insoles and Shoes for Partial Foot Amputation (P5)**

Dennis Janisse, CPed

The partial foot amputation is the most common type of amputation in the United States and occurs nearly twice as frequently as either the transfemoral or transtibial amputations. This portion of the program will review traditional and non-traditional treatment options for partial foot amputations.

3:15 – 3:30 PM — **Break**

3:30 – 3:45 PM — **Ulcer Stage: Off-Loading For Foot Ulcers (P6)**

Dennis Janisse, CPed

Review sample cases that provide new approaches to insole and shoe modification and useful ways to ensure that you are providing proper offloading. We will also review Plantar Pressure screening technology.

3:45 – 4:30 PM — **Biomechanics of Gait and the Influence of Pedorthics (P7)**

Klaas Postema, MD, PhD

This presentation gives evidence about gait and the biomechanical changes due to shoe adaptations.

4:30 – 5:30 PM — **Pedorthics: Usability, Adherence, and Communication with Patients (P8)**

Klaas Postema, MD, PhD

Patients' acceptance and adherence with devices can be influenced by a clinician's communication skills.

5:30 – 6:30 PM — **Centennial Celebration**

Join conference participants as we celebrate AOPA's Centennial and 100 years of the formalized O&P Profession with a Champagne Toast.

6:30 – 9:30 PM — **Party with a Purpose**

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

Friday September 8, 2017

7:00 AM — **Breakfast**

7:30 – 9:00 AM — **General Session (GS2)**

AOPA Membership Meeting and Award Winning Thranhardt Presentations (C13)

9:00 – 10:30 AM — **Break in Exhibit Hall**

10:30 – Noon — **Symposium: Current Strategies for Managing Charcot-Marie Tooth (CMT) Disease (P9)**

David Cooney, PT, CPO
Kenneth Cornell, CO
Marmaduke Loke, CPO
David Misener, BSc (HK), CPO, MBA
Glenn B. Pfeffer, MD

CMT is the most commonly inherited disorder of the peripheral nervous system affecting 1 in 2,500 people, 2.8 million worldwide and 150,000 in the USA. Studies reveal most patients report a poor experience with orthotic/pedorthic management. This symposium will describe the pathology of the disease, mechanism of deformity, physical deficits and associated gait impairments. The panel of experts will present current orthotic and pedorthic strategies and advance tri-planar management.

Noon – 1:30 PM — **Lunch in Exhibit Hall**

Product Preview Theater

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

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

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

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

Jinaup Song, DPM, PhD

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

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

Jeremy Janisse, CPed

Receive an overview on the advancements in technology that every pedorthists needs to recognize to provide innovative care.

4:30 – 5:30 PM — **Poster Presentation**

5:30 – 6:30 PM — **Exhibitor Sponsored Happy Hour in Exhibit Hall**

Saturday September 9, 2017

7:00 AM — **Breakfast**

7:30 – 9:00 AM — **General Session (GS3)**

Symposium: Healthcare Delivery Systems from Around the World

9:00 – 10:30 AM — **Break in Exhibit Hall**

10:30 AM – Noon — **Pedorthic Education (P11)**

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

10:30 – 10:50 AM — **Rocker Shoes for Reduction of Ankle Motion—Implications for Pain and Stability (P11A)**

Andrew Hansen, PhD
Klaas Postema, MD, PhD

Hear a case study surrounding a new development on rocker shoes that dramatically reduces ankle motion and results in reduced ankle pain as well as reduced standing stability. We will also share a rocker shoe development kit approach where we improved the stability with only minor effects on the motion reduction.

10:50 – 11:20 PM — **Advances In Shoe Closures Could Change the World (P11B)**

Bret Bostock, CO

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

11:20 – Noon — **Distinguishing Categories of Medial Column Ligamentous Failure (P11C)**

Ian Engelman, MS, CPO

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

Noon – 1:00 PM — **Lunch on your own**

Technical Education Program

Register or learn more about the 2017 AOPA World Congress at ***www.opworldcongressusa.org.***

Learn the latest tips, techniques and technologies. Stay up to date with the latest techniques in your profession, maintain certification, or prepare to take the certification exam.

Wednesday September 6, 2017

8:00 AM – 5:00 PM **Concurrent Manufacturers' Workshops**

1:00 – 5:00 PM **Thranhardt Golf Classic**

5:30 – 7:30 PM **Welcome Reception**

Thursday September 7, 2017

7:00 AM **Breakfast**

7:30 – 9:00 AM **General Session (GS1)**
Opening Ceremony and Keynote address

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

Take advantage of this time to:

- Compete in the Technical Fabrication Contest
- Meet with exhibitors
- View and learn about new products and service offerings from around the world
- Participate in Product Preview Theater Presentations
- Network with attendees
- Enjoy the Walk Through Time—Historical Display
- Play the Giant Slot Machine

10:30 AM – Noon **Future Tech: A Glimpse into Emerging Technologies (T1)**

Steve Hill, BOCO

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

Noon – 1:30 PM **Lunch in Exhibit Hall**
Product Preview Theaters

1:30 – 2:15 PM **Fabrication Methods Triple Action Ankle Joint (T2)**

Gary Bedard, CO, FAAOP

The Triple Action ankle joint represents a new standard in lower extremity biomechanical control for the foot and ankle. There are unique features of this ankle joint design that contribute to the ease of fabrication into a custom orthosis. Video demonstrations will include disassembly and assembly of the component body. Graphic presentation will illustrate proper metal contouring procedures. A brief biomechanical review will also reveal the advanced biomechanical nature of the ankle joint. Online resources as well as tool and fabrication kit content will be presented.

2:15 – 3:00 PM **Good Manufacturing Practices for Technicians: Guidelines for Present and Future FDA requirements for Clinical Thermoforming (T3)**

Gary Bedard, CO, FAAOP

The processing parameters of your lab may have been up to date ten years ago, the question for today is your lab compliant with industrial vacuum forming process guidelines and do those parameters satisfy FDA Good Manufacturing Practices. In this session learn how to establish the station pressure for your site elevation and review how to develop internal guidelines for Good Manufacturing Practice.

3:00 – 3:15 PM **Break**

3:15 – 4:30 PM **Utilization of Carbon Infused Polypropylene in Pediatric Orthotics and Prosthetic Sockets (T4)**

Phillip Harrison, CP

Carbon infused polypropylene is a prepreg sheet composite that can immediately replace the generic sheet stock in your lab production. The exchange offers improvement in fabrication process parameters as well as clinical product benefits. The sheet composite is stiffer than homopolymer polypropylene, resists warpage, and clinical creep in field use. In this session, material as well as process fabrication parameters will be reviewed along with case examples of clinical application.

4:30 – 5:30 PM **Technician Update (T5)**

James Lawson, ABC

Review the new language for technicians, certification and central fabrication accreditation.

5:30 – 6:30 PM **Centennial Celebration**

Join conference participants as we celebrate AOPA's Centennial and 100 years of the formalized O&P Profession with a Champagne Toast.

6:30 – 9:30 PM **Party with a Purpose**

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

Friday September 8, 2017

7:00 AM — **Breakfast**

7:30 – 9:00 AM — **General Session (GS2)**

AOPA Membership Meeting and Award Winning Thranhardt Presentations (C13)

9:00 – 10:30 AM — **Break in Exhibit Hall**

10:30 AM – Noon — **3D Printing in O&P: Foundations (T6)**

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

Noon – 1:30 PM — **Lunch in Exhibit Hall**

Product Preview Theaters

1:30 – 3:00 PM — **3D Printing in O&P: Fabrication Workshop (T7)**

The objective of this session is to provide the learner with real-time experience with scanning, design and 3D printing in the O&P workplace utilizing low cost tools. Topics will include a prosthetic socket scan, design and print project demonstrated by the instructor, while learners will be encouraged to print a small orthotic project to keep, on provided printers.

3:00 – 3:15 PM — **Break**

3:15 – 4:30 PM — **3D Printing in O&P: Materials, Machines and Methods Discussion (T8)**

The objective of this session is to provide a synergistic discussion regarding the efficacy of 3D printing technology in the O&P workplace. Topics will include materials, 3D printing hardware, software options and scanners. Discussion will focus on what works and what doesn't. Audience participation is not only welcomed, but encouraged.

4:30 – 5:30 PM — **3D Printing Roundtable Discussion (T9)**

The roundtable will address topics such as printing for technicians, 3D printing and pedorthic relationships, material science and printer costs, etc.

4:30 – 5:30 PM — **Poster Session**

Research posters will be on display throughout the day on Thursday and Friday. The congress has dedicated an hour for you to meet with researchers and learn more about their presentation while enjoying a glass of wine.

5:30 – 6:30 PM — **Exhibitor Sponsored Happy Hour in Exhibit Hall**

What better way of wrapping up a full day of learning than spending an hour in the exhibit hall enjoying refreshments and networking with your colleagues and exhibitors. The Happy Hour is hosted by exhibitors. A list of sponsors will be included in the final program and on the website to make it easier for you to partake in the fun.

Saturday September 9, 2017

7:00 AM — **Breakfast**

8:00 – 9:00 AM — **General Session (GS3)**

Symposium: Healthcare Delivery Systems from Around the World

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

9:00 – 10:30 AM — **Break in Exhibit Hall**

Take advantage of this time to:

- Meet with exhibitors
- View and learn about new products and service offerings from around the world
- Participate in Product Preview Theater Presentations
- Network with attendees
- Enjoy the Walk Through Time—Historical Display

10:30 AM – Noon — **Adjustable Socket Revolution (T10)**

Pamela K Hale, CPO
Joe Mahon, CP

Be ready to fabricate your first adjustable socket or get some advanced tips and tricks. Learn how to create adjustable sockets using RevoFit products from Click Medical. Fabrication techniques for installing the RevoFit products into laminated sockets and attached to diagnostic test sockets will be reviewed highlighting the key steps for enhanced socket function.

Noon – 1:00 PM — **Lunch on your own**

Technical Fabrication Contest

Strut your stuff! This year's technical fabrication contest will feature a timed competition on the exhibit hall show floor. Sign up, strut your stuff and show the profession that you are the best technical fabricator in the O&P profession. Winners receive bragging rights and cash prizes.

- First Place Winner receives a $500 Cash Prize
- Runner up receives a $200 Cash Prize
- All World Congress registrants may participate unless they are a judge, work for a contest sponsor, or are on the World Congress Planning Committee or AOPA Board of Directors.

Manufacturers' Workshops

The AOPA World Congress 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. *Registration is not required. Participation is first-come, first-served.*

WEDNESDAY September 6, 2017

Tier A WED 9/6

8:00 AM – Noon

(4-hour Workshops)

The following workshops in Tier A run concurrently within this track.

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

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

MWA-3. Chronic and Acute Stance Control Patient Application Management
Sponsor: Becker Orthopedic

MWA-4. Socket Selection Criteria and Alignment Considerations
Sponsor: ALPS

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

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

MWA-7. Össur Innovation and Outcomes
Sponsor: Össur Americas

MWA-8. The Providence Nocturnal System
Sponsor: Spinal Technology, Inc.

MWA-9. O&P Fabrication is Changing. Don't Get Left Behind.
Sponsor: Vorum

MWA-10. Beyond the DAFO Basics – Brace Planning for Crouched Gait
Sponsor: Cascade DAFO, Inc.

MWA-11. Improving Lives Through Innovation
Sponsor: RUSH Foot

Tier B WED 9/6

8:00 – 10:00 AM

(2-hour Workshops)

The following workshops in Tier B run concurrently within this track.

MWB-1. CAD/CAM, Reinvented
Sponsor: Standard Cyborg

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

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

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

MWB-5. CAD Modification Design Essentials with Roger Wagner, CPO (MWB-3)
Sponsor: WillowWood

MWB-6. Creating Successful Prosthetic Outcomes for Your Low-Mobility Patients
Sponsor: Ottobock

MWB-7. Walk like an Egyptian (or Anyone Else You Like) with the Most Extensive Line of Mechanical Feet Ever Brought to Market
Sponsor: Ottobock

MWB-8. New Solutions with Freedom Innovations
Sponsor: Freedom Innovations

Tier C WED 9/6

10:30 AM – 12:30 PM

(2-hour Workshops)

The following workshops in Tier C run concurrently within this track.

MWC-1. Gomez Orthotic Spine System
Sponsor: Friddle's Orthopedic Appliances, Inc.

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

MWC-3. Maximizing Your Referral Sources & Marketing in Today's Environment
Sponsor: Aspen Medical Products

MWC-4. Restoring Hand Functionality to People with Partial Digit Amputations
Sponsor: Naked Prosthetics

MWC-5. WillowWood One-Socket System Certification Course
Sponsor: WillowWood

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

MWC-7. Improved Outcomes with MPKs Over Mechanical Knees
Sponsor: Ottobock

MWC-8. Pattern Recognition: Enhanced Myoelectric Control for Upper Limb Prosthetics
Sponsor: Coapt

Tier D WED 9/6

1:00 – 3:00 PM

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

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

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

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

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

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

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

Tier E WED 9/6

1:00 – 5:00 PM

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

MWE-1. OPIE Software
Sponsor: OPIE Software

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

MWE-3. SpineCor® Tech-Assist Model Training for Adult SpineCor Comfort Plus Brace Treatment
Sponsor: Becker Orthopedic

MWE-4. Turbomed, A New AFO for Patients Suffering from Foot Drop
Sponsor: Turbomed Orthotics Inc.

MWE-5. Cyborg to Symmetry: How Bebionic and Michelangelo can Help Men, Women & Adolescents Achieve Cognitive Connectivity with Their Upper Limb Prosthesis
Sponsor: Ottobock

MWE-6. Orthomerica OWLS Certificate Course (Part 2)
Sponsor: Orthomerica Products Inc.

MWE-7. Touch Bionics by Össur: Advanced Solutions for Upper Limb Loss and Deficiency
Sponsor: Össur Americas

MWE-8. Improved Clinical Outcomes with Consistent Successful Socket Fit Via Full Weight Bearing Hydrostatic Casting Technique
Sponsor: Cypress Adaptive

MWE-9. Don't Fear Change! "MODULAR" Changeable Carbon Dynamic Bracing Exists! And the all NEW Hybrid Crossover Knee
Sponsor: Fabtech Systems

MWE-10. 3 Pillars of a Successful Practice
Sponsor: Freedom Innovations

MWE-11. Adjustable Socket Revolution: Volume Management, Suspension and More
Sponsor: Click Medical

MWE-12. LIM Innovations—Beyond The Infinite Socket®
Sponsor: LIM Innovations

MWE-13. Lower Extremity KAFOs, AFOs & KOs for Complex Patients
Sponsor: Townsend Design

MWE-14. Navigating New Pathways: Orthotic Tools for Maximizing Therapeutic Outcomes
Sponsor: Surestep

Tier F WED 9/6

3:30 – 5:30 PM

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

MWF-1. The Acceleration of 3D Scanning Integration: Why and How is It Happening Now?
Sponsor: TechMed 3D

MWF-2. The College Park/Liberating Technology Boston Digital Arm System's Unique Control Strategies
Sponsor: College Park Industries

MWF-3. The End of Rigid Sockets – Socket-less Socket's for Various Fitting Levels
Sponsor: Martin Bionics

MWF-4. Upper Extremity: New Developments and Modern Updates
Sponsor: Fillauer

MWF-5. Hold on!!! Latest Suspension and Liner Technologies from Ottobock
Sponsor: Ottobock

MWF-6. Boston Orthotics & Prosthetics 3D
Sponsor: Boston Orthotics & Prosthetics

CELEBRATING a century
envisioning THE NEXT
AOPA WORLD CONGRESS
LAS VEGAS | SEPTEMBER 6-9, 2017

Education Program

Product Preview Theater Presentations

Earn CE credits in a lively theater atmosphere right on the exhibit hall show floor. Product Preview Theater (PPT) gives exhibitors the opportunity to showcase their products in a high-energy setting. PPTs scheduled presently include:

Allard USA
- A Behind-the-Scenes Look at What's Been Cooking in Allard's R&D Lab

Aspen Medical Products
- Vista CTO
- Aspen's New Bivalve LSO & TLSO
- Vista Therapy Collar

Cascade Orthopedic Supply, Inc.
- The Diversification of Clinical Applications for ProComp
- Fabrication Solutions: Clinical Applications for ProComp

Click Medical
- Join the Revolution—New Orthotic and Prosthetic Solutions from Click Medical

College Park Industries
- A Technical Overview of College Park/ Liberating Technologies Expanding Lower and Upper Limb Product Line

Freedom Innovations
- What's New at Freedom Innovations
- Innovative MPC Solutions from Freedom Innovations

Friddle's Orthopedic Appliances Inc.
- 3D Printing: Transforming the process of Prosthetic Fabrication

LegWorks
- What's your Terrain? Transcending K2 Boundaries with the Purely Mechanical All-Terrain Knee

Nabtesco Proteor USA
- AK Multi Sport Solutions featuring the Easy Ride Knee by Proteor

Naked Prosthetics
- Functional Solutions for Finger Amputees: Understanding Prevalence, Challenges, Impairment and Solutions

OPIE Software
- Data in O&P

Össur Americas
- Introducing the Össur Miami LSO & Rebound Post-Op Brace
- Pro-Flex Family of Feet
- Introducing the Supro Wrist with i-Limb Quantum Hand

Ottobock
- Ottobock's Unique Treatment for Osteoarthritis
- Driving Outcomes for Lower Mobility
- Introducing the New Members of the Ottobock Upper Limb Portfolio

Surestep
- Treating Pediatric Toe Walking: Is it Idiopathic?
- Innovative Approaches; Positive Outcomes. Treatment for Hypotonic Trunk, Neuromuscular Scoliosis and Head-drop

WillowWood
- Alpha Duo Liner

World Congress Special Events

CELEBRATING a century
envisioning THE NEXT

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

Tuesday September 5, 2017

1:00 – 5:00 PM

Pre-Show Transfemoral Socket Symposium

This expert level course will provide an overview of the research and development work that led to the Northwestern University Flexible Sub-Ischial Vacuum (NU-FlexSIV) Socket, a socket technique designed to improve comfort for persons with transfemoral amputation. *Tickets are required and available through registration; space is limited.* *See page 12 for more details.*

Step It Up Challenge—Take Steps to Stay Healthy

Register for the free Step It Up Challenge. Let's see who took the most steps each day touring the exhibit hall and going to classes. It's easy to participate and you can record your steps using your current device (phone or fitness tracker) and if you don't have a device, stop by the Step it Up Race Headquarters for a free pedometer courtesy of our sponsor—MD Orthopaedics. It's fun and easy to participate—besides you'll be taking those steps anyway! Daily prizes will be awarded. Official Rules provided.

MD orthopaedics

Wednesday September 6, 2017

1:00 – 5:00 PM

Thranhardt Golf Classic

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

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

CAPITOL CONNECTION

OPAF ORTHOTIC AND PROSTHETIC ACTIVITIES FOUNDATION

DON'T MISS THE SHOWSTOPPING OPENING RECEPTION as exhibitors greet you—Vegas Style. During the reception exhibitors will compete to show you the best Vegas has to offer through costumes, props and entertainment. Refreshments will be served. Remember to vote for a winner using the mobile, AOPA 365, under the contest section. The Welcome Reception is included in your full conference registration. *Guest tickets may be purchased for $45 per individual.*

Presidential Papers

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

Shuttle Service

The 2017 World Congress will offer attendees complimentary shuttle service during peak hours, most days, courtesy of our sponsor ALPS. The shuttle will run between the Mandalay Bay hotel guest tower (beach level) and the Mandalay Bay Convention Center (Shark Reef Entrance). Additional information, including shuttle hours will be provided to registrants in advance of the congress and in the final program.

ALPS

Thursday September 7, 2017

9:00 – 10:00 AM

Professional Women of O&P Celebrating Success

Women registering as full conference attendees for the 2017 World Congress are invited to join us for a special event for women at this year's 2017 World Congress. AOPA's 2017 World Congress Planning Committee has organized a program to offer all women working in the O&P profession a casual networking brunch and the opportunity to learn from successful women in O&P.

Space is limited. Confirm your participation on the World Congress registration form. For more information, contact Betty Leppin at *bleppin@AOPAnet.org* or 571-431-0876. A special thanks to our sponsors, Hanger Clinic and Townsend Design (Thuasne USA).

Noon – 1:00 PM

Lunch and Learn: Exoskeletons and NeuroRehab– Where are we Headed?

Kern Bhugra, MSEE
Hugh Herr, PhD
Larry Jasinski, MBA

Join us for a lunch buffet and advanced level discussion on the indications for use (i.e. Stroke, MS, Parkinsons, etc.); technology direction; price points and affordability; reimbursement potential; clinical trials; and home vs clinic. This session is designed for seasoned prosthetists. *Tickets are required and available through registration; limited space available.*

5:30 – 6:30 PM

Centennial Celebration

Join conference participants, on Thursday, September 7 in the exhibit hall, as we celebrate AOPA's Centennial and 100 years of the formalized O&P Profession with a Champagne Toast.

CELEBRATING a century envisioning THE NEXT

AOPA WORLD CONGRESS
LAS VEGAS | SEPTEMBER 6-9, 2017

6:30 – 9:30 PM

Party with a Purpose

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

Entertainment provided by the Moonshiners

Friday September 8, 2017

9:00 AM – 1:00 PM

Las Vegas Guest Tour

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

3:15 – 4:30 PM

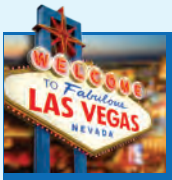
Technology Transfer Program

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

4:30 – 5:30 PM

Poster Sessions

Research posters will be on display throughout the day on Thursday and Friday. The Congress has dedicated an hour for you to meet with researchers and learn more about their presentation while enjoying a glass of wine.



5:30 – 6:30 PM

Exhibitor Sponsored Happy Hour Reception

What better way of wrapping up a full day of learning than spending an hour in the exhibit hall, enjoying refreshments and networking with your colleagues and exhibitors. The Happy Hour is hosted by exhibitors- Las Vegas style. 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.

Play the Giant Slot Machine

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

THUASNE

Alumni Connection

When completing your World Congress registration, be sure to include your graduating school and year so you can be invited to connect with other alumni from your school. (Even if it is the school of hard knocks, connect with your classmates.)

- Connect with your classmates through AOPA's mobile app, **AOPA 365**—your school will be set up as a networking group
- Proudly wear your school button which will be provided at registration
- Meet your friends at informal social gatherings throughout the Congress.

On your iPhone, Android or iPad:

DOWNLOAD the **AOPA 365** App Today!

Google play

App Store

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 2nd World Congress. The purpose of these awards is to encourage students and residents to display outstanding posters at the AOPA National Assembly and this year's World Congress.
- 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 be honored as well.

For complete rules and to submit your abstract, please visit *bit.ly/2017poster.*

BECKER A Tradition of Excellence A Commitment to Innovation

WillowWood

2017 Exhibitor Booth Costs

Each 10x10 Standard booth includes:

- A standard identification sign (7"x44") indicating company name and booth number
- Eight-foot-high (8') back wall drape and three-foot (3') side rail drape.

AOPA Member	$2,950 per 10'x10' unit
Non-AOPA Member	$7,500 per 10'x10' unit

FIRST TIME EXHIBITORS with AOPA will receive a complimentary basic booth set-up with a booth purchase which includes: six-foot (6') skirted table, two chairs, carpet, and wastebasket.

Contact Kelly O'Neill at *koneill@AOPAnet.org* or call (571) 431-0852 for more information.

Partners and Sponsors

of the 2017 World Congress

American Orthotic and Prosthetic Association (AOPA)

www.AOPAnet.org

The mission AOPA is to work for favorable treatment of O&P business in laws, regulation and services to help members improve their management and marketing skills; and to raise awareness and understanding of the industry and the association. AOPA holds a four-day exhibition and education program annually consisting of business and orthotic/prosthetic scientific topics—this event is the largest annual meeting of its kind in the US.

American Board for Certification in Orthotics, Prosthetics & Pedorthics

www.abcop.org

The American Board for Certification (ABC) is the national certifying and accrediting body for the orthotic, prosthetic and pedorthic professions. Since its inception in 1948, ABC has become the quality standard in orthotic, prosthetic and pedorthic certification and today has more than 14,000 certified individuals and over 7,000 accredited facilities.

Amputee Coalition

www.amputee-coalition.org

The Amputee Coalition is the nation's leading organization on limb loss, dedicated to enhancing the quality of life for amputees and their families, improving patient care and preventing limb loss.

Charcot-Marie-Tooth Association

www.cmtausa.org

The Charcot-Marie-Tooth Association's mission is to support the development of new drugs to treat CMT, to improve the quality of life for people with CMT, and, ultimately, to find a cure.

ConFairMed, a subsidy of the German Association of Orthopaedic Technology

www.confairmed.de/

As a subsidiary of the German Association of Orthopaedic Technology, ConFairMed has its roots in health crafts orthopedic technology. Interdisciplinary cooperation requires constant exchange both within the field and with the neighboring fields. The Confairmed is owner of the trademark "OTWorld". The OTWorld leading partners from industry and academia, service providers and the various disciplines of rehabilitation teams in the care of patients.

Mexico—National Member Society of ISPO

www.uniendofronteras.org

Mexico—National Member Society of ISPO works in collaboration with Uniting Frontiers to provide education and support to the orthotic and prosthetic professionals in the Latin American region.

Orthotics and Prosthetics Association of India (OPAI)

www.opai.org.in

The Orthotics and Prosthetics Association of India is the leading national organization in India devoted to empowering the quality of life of persons with disabilities through innovative P&O services with collaborative team efforts duly eliminating barriers and discomforts and ensuring full independent living.

Orthotics Prosthetics Canada (OPC)

www.opcanada.ca

Orthotics Prosthetics Canada (OPC) is the representative national organization for the prosthetic and orthotic profession. Its role is to protect the public and advance the profession of prosthetics and orthotics through quality standards of practice, professional credentialing, education and awareness.

United States National Member Society of ISPO (USISPO)

www.usispo.org

US ISPO is a National Member Society of ISPO, the International Society for Prosthetics and Orthotics. ISPO is a multi-disciplinary organization comprised of persons who have a professional interest in the clinical, educational, and research aspects of prosthetics, orthotics, rehabilitation engineering, and related areas.

Uniting Frontiers

www.uniendofronteras.org

Uniting Frontiers is a collaboration between the five ISPO Member Societies of Panama, Guatemala, Dominican Republic, Mexico and Costa Rica. The organization has over 200 members and the primary focus is education.

Exhibitors

Learn about the newest products and the latest technology at the 2017 AOPA World Congress. The AOPA exhibit hall offers more exhibitors, components, devices, tools, supplies and services than any other show of it's kind in the United States. *Don't miss your chance to be a part of it.* For most up to date list of exhibitors and links to their websites, visit ***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 2017**

EXHIBITORS AS OF JULY 3, 2017

5280 Prosthetics/ Adaptec
● AC Mould Engineering Limited
ACOR Orthopaedic Inc.
● Adapttech
Advanced O&P Solutions LLC
✚ **Allard USA Inc.**
✚ **ALPS**
Alternative Prosthetic Services Inc.
American Academy of Orthotists & Prosthetists
American Board for Certification in Orthotics, Prosthetics & Pedorthics
American Central Fabrication
American Orthotic & Prosthetic Association
American Prosthetic Components LLC
AMFIT INC.
Amputee Coalition
Anatomi Metrix Inc.
Anatomical Concepts Inc.
Anodyne
AON Affinity
Apis Footwear Co.
Aspen Medical Products
Becker Orthopedic Appliance Co.
● Beijing P&O Technique Center
Bioness
BioSculptor Corp.
Board of Certification/ Accreditation, Int'l. (BOC)
Bort-Swiss Orthopedic Supply
Boston Orthotics & Prosthetics
BREG Inc.
Bremer Group Company, The
Brightree LLC
Bulldog Tools Inc.
Cailor Fleming Insurance
✚ **Cascade Dafo Inc.**
✚ **Cascade Orthopedic Supply Inc.**
CBS Medical Billing & Consulting LLC
● CENTRO PROTESI INAIL
Charcot Marie Tooth Association
Click Medical
Coapt LLC
College Park Industries
Comfort Products Inc.
Confairmed-Gesellschaft für Congressmanagment mbH
Coyote Design & Mfg.
Create O&P
Curbell Plastics
● **Cypress Adaptive, LLC**
DARCO International
DAW Industries Inc.
DJO Global
DME MAC Medicare Contractors
Drew Shoe Corp
Endolite
Engineered Silicone Products LLC
Epica Applied Technology
Fabtech Systems LLC
✚ **Fillauer**
FLO-TECH® Orthotic & Prosthetic Systems Inc.
Freedom Innovations LLC
Friddle's Orthopedic Appliances Inc.
● Friends Surgicals
Globo-SA Inc.
Grace Prosthetic Fabrication Inc.
Infinite Biomedical Technologies
● Integrum Inc.
● Jiangsu Reak Healthy Articles Co., LTD
Kinetic Research Inc.
● **Kingsley Mfg. Co.**
KISS Technologies LLC
● **Kleiber Bionics LLC**
Kiwi Orthotic Services
KLM Laboratories
Knit-Rite Inc.
LegWorks
LIM Innovations
● LimbTex Ltd
MAC Dowell Silicones
Makstride Prosthetics
Martin Bionics Innovations
Mary Free Bed Orthotics & Prosthetics
MIH International
MD Orthopaedics Inc.
Med Spec (ASO EVO)
Medex International Inc.
Medi USA
● Metiz Group
Mile High Orthotics Lab Inc.
● **Monetek LLC**
Myomo
Nabtesco Proteor USA
Naked Prosthetics
National Commission on O&P Education
New Options Sports
New Step Orthotic Lab Inc.
nora systems Inc.
Nymbl Systems
O&P 1 Central Fabrication
✚ ***O&P Almanac***
O&P EDGE
O&P News/SLACK Inc.
OHI
OP Solutions Inc
OPAF & The First Clinics
OPIE Software
OPTEC USA, INC
Orfit Industries America
Original Bending Brace
● Ortho Baltic
Orthomerica Products Inc.
Orthotic & Prosthetic Group of America (OPGA)
Orthotics & Prosthetics Association of India
Orthotics and Prosthetics One
● Orthotics Prosthetics Canada (OPC)
● **OrtoPed ULC**
Osseointegration Group of Australia
OssKin Inc.
Össur Americas Inc.
✚ **Ottobock**
Paceline
Pedorthic Foundation
PEL
Pine Tree Orthopedic Lab Inc.
PLS—Pedorthic Lab Specialties
Private Funding For Prosthetic Devices
Pro-Tech Orthopedics
✚ **ProtoKinetics Gait Analysis Walkways**
● **Protosthetics**
P.W. Minor LLC
● Jiangsu Reak Healthy Articles Co., Ltd.
Renia GmbH
Restorative Care of America Inc. (RCAI)
Rodin 4D
Royal Knit Inc.
RS Print
Rush Foot
Soletech Inc.
✚ **Spinal Technology Inc.**
✚ **SPS**
ST&G USA Corp.
Standard Cyborg
SteeperUSA
SureStep
Tamarack Habilitation Technologies Inc.
TechMed 3D Inc.
● **Thermo-Ply Inc.**
thyssenkrupp Engineered Plastics
Tillges Technologies/ TCOP
Top Shelf Orthopedics
✚ **Townsend Design (Thuasne USA)**
TRS Inc. (Therapeutic Recreation Systems Inc.)
● Truffoire Las Vegas
Turbomed Orthotics
Uniedo Fronteras/Uniting Frontiers
US Member Society—ISPO
Vorum
VQ Orthocare
WillowWood
● Win Walker Prosthetis & Orthotics Co. Ltd.
● Xiamen Kon Technology
● YIDE Medical Devices Co., Ltd.

Sponsors

AOPA extends special thanks to our title sponsors:

About Las Vegas

Whether you're a high roller or a low-key lounger, Las Vegas has something for everyone. Sample fare from top chefs and cornucopia buffets, try your luck at one of the world's premier casinos, or take in a spectacular show. Once you've had enough of the razzle-dazzle, take a leisurely visit with nature at the Mandalay Bay Shark Reef or hike Red Rock Canyon.

There are many reasons why Las Vegas commands the title as "The Entertainment Capital of the World." Some of the world's most exciting and versatile entertainers have performed here including Celine Dion, Elton John, Jerry Seinfeld, Jay Leno, and popular touring Broadway shows stop at the Smith Center for the Performing Arts in downtown Las Vegas. Other entertainment options include A-list headliners like Brad Garrett, Ray Romano, and Kevin James who regularly bring their shows to Las Vegas showrooms and arenas; as well as several resident Cirque du Soleil productions, comedy clubs, magicians, classic Las Vegas showgirl revues, and more. To learn more about Vegas attractions, shopping, nightlife, pools, spas, restaurants, golf, recreation, casinos, events, shows or just good old fashion people watching visit ***www.lasvegas.com.***

About the Mandalay Bay

At the Mandalay Bay Resort and Casino, excess is the norm. Las Vegas visitors can listen to some of music's greatest artists, spot some of the world's most dangerous predators and bodysurf some of the city's largest waves without ever leaving the 120-acre property.

The accommodations are modern and up to date, offering wireless internet, iHome clock radios and large plasma-screen TVs in every room. Delano Las Vegas, the adjacent all-suite hotel, complements the already impressive property, offering a boutique experience for guests looking for a more cosmopolitan atmosphere. Learn more at ***www.mandalaybay.com.***

Travel

The 2017 AOPA World Congress will be held at the Mandalay Bay Resort, 3950 Las Vegas Blvd South, Las Vegas, Nevada, 89119. The exhibit hall, general sessions and general education will be held at the Mandalay Bay Resort South Convention Center Level 2.

Getting to Las Vegas is easy. Over 900 flights from 130 US and International markets arrive at McCarran International airport each day. McCarran International Airport is less than five miles from the Mandalay Bay.

Head to ***www.lasvegas.com/mapexplorer*** for an official map of the Las Vegas strip. For the latest information on travel, please visit our website at ***bit.ly/2017wctravel.***

Hotel Accommodations

Attendees are responsible for making their own hotel reservations. AOPA has reserved a block of rooms at the Mandalay Bay Resort for the incredible low rate of $125 per night. Book online at ***bit.ly/wchotel.*** You must reserve your room before the cut off date of **August 7th.**

Travel Discounts

For the latest information on travel, please visit our website at ***bit.ly/2017wctravel.***

LIMITED AVAILABILITY
RESERVE YOURS TODAY

Visa Information

Visa applicants are advised to apply as soon as they decide to travel to the United States. The Visa Waiver Program (VWP) enables nationals of 38 participating countries to travel to the United States for tourism or business (visitor [B] visa purposes only) for stays of 90 days or less without obtaining a visa.

Request a Letter of Invitation

International travelers needing a letter of invitation should contact Ryan Gleeson at *rgleeson@AOPAnet.org*. Please be sure to include your full name, company, business address and any credentials that should be included in the letter.

Cancellations

To receive a refund of registration fees, a $50 processing fee will be applied and a notification of cancellation must be received in writing no later than August 7, 2017. Please email any registration cancellations to AOPA at *info@AOPAnet.org*. No refunds will be made for cancellations received after August 7, 2017. Substitutions are allowed but must be in writing.

Registration Categories & Fees

Full Conference Registration

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

One Day Conference Registration

Includes all conference events for the day selected.

Exhibitor Full Conference Registration

Exhibitors are entitled to two complimentary registrations per 10X10 unit purchased. Additional exhibitor personnel staffing a booth should select this category. Fee includes admission to the exhibit hall, education sessions, Welcome to Las Vegas Reception, Centennial Celebration, breakfasts, lunches in the exhibit hall and all meeting materials. Please note that limits apply to this registration category. Exhibitors may purchase up to two additional exhibitor full conference registration badges per unit.

Associate Full Conference Guest Registration

Qualified discounted registrants include: 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 earn CE credits.

Exhibits Only (3-day Show Pass) Registration

This registration category provides access to the exhibit hall only Thursday, September 7 through Saturday, September 9. This registration category does not include tickets for the Welcome to Las Vegas Reception on Wednesday. Attendees registering under this category will not receive a lunch ticket or the opportunity to earn CE credits.

Exhibit 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.

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* **Group Rate:** Register more than three Full Conference attendees from the same patient care facility and **receive a $100 discount** on your additional (4+) Full Conference registrations. Contact AOPA Headquarters at info@AOPANet.org or (571) 431-0876 for your promo code.

CELEBRATING a century envisioning THE NEXT

AOPA WORLD CONGRESS
LAS VEGAS | SEPTEMBER 6-9, 2017

AOPA 2017 WORLD CONGRESS AND CENTENNIAL CELEBRATION • SEPT. 6-9, 2017

ATTENDEE Registration Form

LAS VEGAS, NV | MANDALAY BAY RESORT AND CASINO

Visit **www.AOPAnet.org** for complete registration details and instructions.

EARLY BIRD
REGISTER BY
AUG. 7, 2017
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:_____ Cell Phone: _____ Fax: _____

E-mail: _____ Confirmation E-mail: _____

VERY IMPORTANT
For Continuing Education Credit tracking:
EXAMPLE: C P 0 0 – 0 0 2 6

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. 7 MEMBER	Early Bird Registration on or before Aug. 7 NON-MEMBER	Registration after Aug. 7 MEMBER	Registration after Aug. 7 NON-MEMBER
Full Conference Registration	☐ $595 FMP	☐ $945 FNP	☐ $695 FM	☐ $995 FN
Associate Full Conference Registration	☐ $395 FAP	☐ $395 FAP	☐ $495 FA	☐ $495 FA
Exhibitor Full Conference Registration	☐ $375 FEMP	☐ $495 FENP	☐ $475 FEM	☐ $595 FEN
One-Day Conference Registration ☐ Weds 9/6 ☐ Thurs 9/7 ☐ Fri 9/8 ☐ Sat 9/9	☐ $350 per day OM_P	☐ $675 per day ON_P	☐ $450 per day OM_	☐ $750 per day ON_
Exhibits Only (3-Day Show Pass) Registration *(Valid for Access to Exhibit Hall only for all show dates.)*	☐ $275 EM_P	☐ $375 EN_P	☐ $375 EM_	☐ $475 EN
Exhibits Only One-Day Registration *(Valid for Access to Exhibit Hall only for individual show dates.)* ☐ Thurs 9/7 ☐ Fri 9/8 ☐ Sat 9/9	☐ $125 per day EM_P ☐ $50 Saturday EMSP	☐ $175 per day EN_P ☐ $75 Saturday ENSP	☐ $175 per day EM_ ☐ $75 Saturday EMS	☐ $195 per day EN_ ☐ $100 Saturday ENS
Full Conference Children Ages 11-17	☐ $100 FC	☐ $100 FC	☐ $100 FC	☐ $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 11 ☐ When close by 13
☐ Every other year 12 ☐ First time 14

What are the primary reasons for attending the World Congress?
Please check **all** that apply:
☐ CE Credits 21
☐ Exhibit Hall 26
☐ Networking 22
☐ Education 27
☐ Location 23
☐ Speakers 28
☐ Industry Trends 24
☐ New Products 29
☐ Professional Development 25

Which O&P school did you graduate from?
_____

What year did you graduate?_____

☐ Check here to allow AOPA to share your email with Exhibitors

How many years have you been in your profession?
☐ 0-5 31 ☐ 6-10 32 ☐ 11-20 33 ☐ 21+ 34

What is your purchasing authority?
☐ Full-decision making authority 35
☐ Joint decision making authority 36
☐ Advisory role 37
☐ Not involved in purchasing 38
☐ Other (Student, Unemployed, etc.) 39

Job Function-Please check **all** that apply:
☐ Orthotist 41
☐ Prosthetist 42
☐ Pedorthist 43
☐ Technician 44
☐ Fitter 45
☐ Owner 46
☐ Office/General Manager 47
☐ Physical Therapist/Occ. Therapist 48
☐ Student 49
☐ Resident 50
☐ Research & Development 51
☐ Sales/Marketing 52
☐ Billing 53
☐ Accounting 54
☐ Inventor 55
☐ Investor 56

SPECIAL EVENTS

	PRICE	QTY.	TOTAL
Welcome to Las Vegas Reception* Guest Ticket	$ 45	X____	=_____
Lunch and Learn: **The Current State of Exoskeletal Devices**	$ 50	X____	=_____
Lunch and Learn: **The Diabetic Foot in Remission: Strategies to Make Prevention**	$ 50	X____	=_____
Las Vegas Guest Tour	$ 95	X____	=_____
Pre-Show Transfemoral Socket Course	$150	X____	=_____
Party with a Purpose Ticket Reservation	$300	X____	=_____
Thranhardt Golf Classic-Individual	$195	X____	=_____
Thranhardt Golf Classic-Foursome	$750	X____	=_____
Professional Women of O & P**—*Celebrating Success*	N/C	X 1	=_____

* *Full Conference Registrations include admittance to the reception—bring a guest for $45.*

** *Space is limited. One ticket per female, full-conference registrant.*

PAYMENT

Registration Total $_____
Special Events Total $_____
TOTAL AMOUNT DUE $_____

Fax only if paying by credit card. Checks should be made payable to AOPA 2017.

☐ Check ☐ Visa ☐ MasterCard ☐ Amex

Card #_____ Exp. Date _____
Print Name _____
Signature _____

MAIL OR FAX completed form to:
AOPA c/o ExpoTrac, P.O. Box 1280, Woonsocket, RI 02895
Fax: 401/765-6677, Customer Service: *AOPA@expotrac.com*, 401/766-4142.
Visit *www.AOPAnet.org* for cancellation policy.

Photography/Video Notice: AOPA may take photographs and/or video during the event for various marketing purposes. By attending this event, you consent to your image being captured and used.

☐ **Check this box** to confirm you have read and accept these terms and conditions.

Are special accommodations required? ☐ Yes ☐ No If yes, please explain:

_____

HOTEL ACCOMMODATIONS

The 2017 AOPA World Congress will be held at the Mandalay Bay Resort, 3950 Las Vegas Blvd. South, Las Vegas, Nevada 89119. Attendees are responsible for making their own hotel reservations. AOPA has reserved a block of rooms at the Mandalay Bay Resort for the incredible low rate of $125 per night. **Book online at *bit.ly/wchotel.***

These room blocks are being held exclusively for World Congress attendees. Those booking rooms are required to register for the World Congress by August 7, 2017 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 World Congress. Please be sure your reservation request reaches the hotel prior to August 7 when any remaining rooms (if any) will be released. There is no guarantee rooms will be available at the World Congress rate. Rates quoted here are on a space-available basis only. Once the World Congress block of rooms is sold out, which may be earlier than August 7, there is no guarantee that rooms will be available nor that they will be available at the World Congress rate.

REGISTRATION FORMS MUST BE RECEIVED BY AUG. 7, 2017 TO QUALIFY FOR EARLY BIRD DISCOUNTS.

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