

AOPA NATIONAL ASSEMBLY 2018

SEPT. 26-29 | VANCOUVER | CANADA



Your Passport to Innovation through Education!



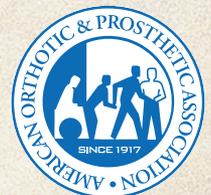
Join us for the AOPA National Assembly on September 26-29, 2018.

PRELIMINARY PROGRAM AND REGISTRATION MATERIALS

The 2018 AOPA National Assembly will take place in Vancouver, Canada. Do not miss out on the most anticipated meeting for Prosthetic, Orthotic, and Pedorthic (POP) professionals. AOPA's National Assembly features the best that POP has to offer worldwide. 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 premier Exhibit Hall that contains businesses from around the world to meet any and all your needs? **All this and more in the beautiful city of Vancouver!**



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





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PASSPORT  INNOVATION

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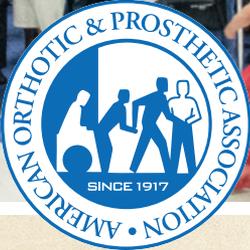
IN THE HEART OF IT ALL

Vancouver is Canada's Pacific gem—a combination of a natural setting along with the excitement of a modern, culturally diverse city. One of the most walkable cities in the world, Vancouver is centrally located, surrounded by ocean and mountains and perfectly balanced by a vibrant, urban and compact downtown with restaurants, entertainment and shopping.





“It’s a great conference—consistently”



ABOUT THE NATIONAL ASSEMBLY

There’s a reason why more POP professionals choose the AOPA National Assembly. If you are going to attend a National Convention, why not choose the one that has it all? The best in business education, advanced clinical programming from physicians, high level researchers and top practitioners, the largest exhibit hall in the Western Hemisphere, and, of course, fun networking events. This is the one event all POP professionals should attend.

2018 National Assembly Planning Committee

- Teri Kuffel, JD (*co-chair*)
- Rick Riley (*co-chair*)
- Jeff Brandt, CPO
- Cindy Doucet
- Traci Dralle, CFm
- Elizabeth Ginzel, CPO, LPO
- George Gondo, MA
- Kimberly Hanson
- Jason Highsmith, DPT, PhD, CP, FAAOP
- Dennis Janisse, CPed
- Erick Janisse, CO, CPed
- Andreas Kannenberg, MD, PhD
- Tyler Klenow, MSOP, CPO, LPO, CPT
- Geza Kogler, PhD
- Eileen Levis
- Karen Lundquist, MBC
- Pam Lupo, CO
- Brad Mattear, CPA, Cfo
- David McGill
- Michael Oros, CPO, LPO, FAAOP
- Kristen Pierson
- Silvia Raschke, PhD
- Brian Stroup
- Jim Weber, MBA

Who Must Attend?

Practitioners, physicians, technicians, fitters, students, educational instructors, facility owners, marketing personnel, residents, office managers, billing specialists, researchers, manufacturers, distributors and suppliers of POP products and services must come to Vancouver to learn about the latest in POP products, education, legislation, business management and so much more. Interact with fellow healthcare and POP professionals gathered from around the world. Earn over 40 CE credits by attending the AOPA National Assembly.



SPEAKER HIGHLIGHTS

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



Cleveland T. Barnett, PhD, is a Senior Lecturer in Biomechanics at Nottingham Trent University. His research is centered upon understanding the adaptations, control strategies and fundamental functioning of gait, balance and postural control in individuals with lower limb amputation.



Emma Beisheim, PT, DPT, MS, is a physical therapist and PhD student at the University of Delaware in the Delaware Limb Loss Studies lab.



Chris Bibbo, DO, DPM, FACS, is Chief, Foot & Ankle Section, Rubin Institute for Advanced Orthopaedics/International Center for Limb Lengthening, specializing in Foot & Ankle surgery, Orthopaedic trauma, limb salvage & plastic reconstructive surgery and microsurgery. Dr. Bibbo is an instructor for the Rubin Institute Fellowship and the Baltimore VA foot & ankle residency program.



Jaimie Borisoff, PhD, is the Canada Research Chair in Rehabilitation Engineering Design at the BC Institute of Technology and ICORD (International Collaboration on Repair Discoveries). His lab performs rehabilitation engineering research and development about assistive technology and mobility innovations.



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.



James Campbell, PhD, CO, currently serves as Chief Clinical Officer for Hanger Inc. He completed his undergraduate education in Prosthetics and Orthotics at the University of Strathclyde in Glasgow, Scotland. In 1996 he received a PhD in Bio-Engineering also from the University of Strathclyde. Dr. Campbell has served on the Board of Directors of AOPA and as their President in 2016. He also is a past member of the Board of Directors for the American Academy of Orthotists & Prosthetists (AAOP).



Sheila Clemens, PhD, completed her PhD work at the University of Miami in Prosthetics and Amputee Rehabilitation under the guidance of Dr. Robert Gailey. Her research has been honored by both AOPA and the APTA, and she looks forward to continuing to contribute to translational research in both physical therapy and prosthetics.



Beverly Cusick, PT, MS, COF, is Associate Professor for the Rocky Mountain University of Health Professions, Pediatrics Program in Provo, Utah. Author of two books, several textbook chapters, articles for journals and magazines, ISPO conference proceedings, and professional newsletters, including a series (2006 and 2007) on Pediatric Orthopedics for the NDTA Network.



Andrea Giovanni Cutti, PhD, MEng, received a Master in Electronic Engineering and the PhD in Biomedical Engineering from the University of Bologna, Italy. He serves as Applied Research Manager at the INAIL Prosthetic Center, he is the Chair of the International Shoulder Group (technical group of the International Society of Biomechanics), and member of the ISO 168 Committee.



Dr. Stephan Domayer, MD, PhD, is an orthopaedic surgeon and the Director of the Orthopaedic Rehabilitation Center Zicksee, Austria. He teaches orthopaedic surgery and conducts research at the Academic University Hospital of Vienna, Austria.



Todd Farrell, PhD, is Director of Research at Liberating Technologies, Inc., a College Park Company. Dr. Farrell completed his PhD work in 2007 at Northwestern University.



Robert S. Gailey, PhD, PT, is a professor at the University of Miami Miller School of Medicine, Department of Physical Therapy and the Director of the Neil Spielholz Functional Outcomes Research & Evaluation Center. He has also been a Special Advisor to the United States Department of Defense for amputee rehabilitation. His Doctorate in Prosthetics and Orthotics was received from the University of Strathclyde in Glasgow, Scotland.



Ignacio Gaunard, PT, PhD, MSPT, is a Research Health Scientist with the Miami Veterans Affairs Healthcare System and Voluntary Assistant Professor with the Department of Physical Therapy at the University of Miami, Miller School of Medicine. He completed his PhD in 2012 at the University Of Miami Miller School Of Medicine, Department of Physical Therapy, with a specialization in Amputee Rehabilitation and Prosthetics.



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



Kamiar Ghoseiri, PhD, is assistant professor of Orthotics and Prosthetics, and a faculty member of the Hamadan University of Medical Sciences. He received his PhD in Orthotics and Prosthetics from University of Social Welfare and Rehabilitation Sciences in 2015.



Brian Hafner, PhD, is an Associate Professor in the University of Washington Department of Rehabilitation Medicine, Adjunct Associate Professor in the Department of Bioengineering, and an investigator at the University of Washington Center on Outcomes Research in Rehabilitation.



Dr. Andreas Hahn, PhD, MSc, holds the global corporate responsibility for Ottobock's Clinical Research and Market Access activities. Trained as a physicist at Oxford University, UK he has over 20 years professional experience in leading positions in the Medical Device Industry.



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.



Andreas Kannenberg, MD, PhD, graduated from Charité Medical School at Humboldt University in Berlin, Germany, in 1989 and worked as a physician in Germany for more than 10 years. He joined Ottobock in 2003 founding the department of medical affairs, and has been serving as their Executive Medical Director for North America since 2013. He coordinates Ottobock's clinical research in the Americas and is part of a global medical and research team to consult R&D, product management, reimbursement and sales on medical subjects.



Kenton Kaufman, PhD, PE, is the W Hall Wendel Jr Musculoskeletal Research Professor, Director of the Motion Analysis Laboratory, Professor of Bioengineering, and Consultant in the Departments of Orthopedic Surgery, Physiology and Biomedical Engineering at the Mayo Clinic. He is a registered professional engineer. Dr. Kaufman currently serves on the NIH National Advisory Board for Medical Rehabilitation Research and the Medical Advisory Board for AOPA.



Homayoon Kazerooni, PhD, is a professor of mechanical engineering at the University of California, Berkeley, where he also serves as the director of the Berkeley Robotics and Human Engineering Laboratory. With more than 30 years of mechanical engineering experience and a doctorate degree from MIT, he is a leading expert in robotics, control sciences, exoskeletons, human-machine systems and augmentation, bioengineering, mechatronics design, intelligent assist devices, and power and propulsion.



Grigorii Lein, PhD, is a chief manager of Ltd. ScolioLogic.ru. He has a PhD in orthopaedics and specializes in spinal deformity (idiopathic and congenital).



Russell Lundstrom, MS, has more than 25 years of experience in the medical device industry, having worked in research, product development, and clinical research. He has a BS in Aerospace Engineering and a Masters in the Management of Technology. Russ is currently working as Director of Clinical Research & Services at Ottobock.



Shannon Mathis, PhD, is an Assistant Professor at the University of Alabama in Huntsville's Department of Kinesiology. Her research interests are in psychosocial outcomes and rehabilitation measures to improve strength, balance, and physical function in lower-limb amputees.



Don Nixdorf, DC, is practicing chiropractor since 1972 receiving degree from Palmer College of Chiropractic, Davenport, Iowa.



Paul Pasquina, MD, is the Professor and Chair of the Department of Physical Medicine & Rehabilitation (PM&R) at the Uniformed Services University of the Health Sciences (USUHS) and the Department Chief of Rehabilitation at Walter Reed National Military Medical Center (WRNMMC).



Brittany Pousett CP(C), MSc, is a Certified Prosthetist and the Head of Research at Barber Prosthetics Clinic in Vancouver, BC. She is passionate about integrating patient-centered research into clinical practice in order to provide better care for her patients.



Silvia Raschke, PhD, is a Project Leader with the British Columbia Institute of Technology (BCIT) MAKE+ Department. She is the Principal Investigator at the Centre for Rehabilitation Engineering and Technology that Enables (CREATE) at BCIT and works with an interdisciplinary team that specializes in user-based design and medical, safety and rehabilitation technology.



Michael Ryan, PhD, CPed, has been involved in research in sports medicine for the past 17 years, with an interest in clinical aspects of footwear design, running injuries and soft-tissue biomechanics. After graduating with a PhD in Experimental Medicine from the University of British Columbia, he worked his first post-doctoral position at the University of Wisconsin-Madison in the Department of Orthopedics and Rehabilitation. In 2011, he moved to the Gold Coast of Australia after being awarded a Post-Doctoral Research Fellowship at Griffith University.



Scott Sabolich, CP, is owner and clinical director for Scott Sabolich Prosthetics and Research in Oklahoma City. Following his bachelor from University of Central Oklahoma he completed his education at Northwestern University Chicago. Scott has been growing his 70-year-old family business in 3rd generation for almost twenty years.



Dr. Klaus Schnake, MD, is an Orthopedic Spine Surgeon with special interest in orthotics. He is Chair of the Spine and Scoliosis Therapy department of the Schön Klinik Nuremberg, Germany.



Alexander Shin, MD, is a world-expert in the field of Brachial Plexus Injury (BPI) treatment and surgery. He is a surgeon in the department of Orthopedic Surgery at the Mayo Clinic as well as a professor of Orthopedics and Neurosurgery. Dr. Shin completed his fellowship in Hand & Microvascular Surgery at the Mayo Clinic, his residency in Orthopedic Surgery at the Naval Medical Center in San Diego, and his Medical Doctorate at University of Pennsylvania.



Josh White, DPM, CPed, became the first podiatrist in NYC to participate in a Medicare program that provides coverage for shoes for people with diabetes. In addition to working with OHI, Dr. White serves as a consultant to the American Podiatric Medical Association on matters relating to durable medical equipment and is a Codingline Expert Panelist.



Steven L. Wolf, PhD, PT, FAPTA, is Professor in the Department of Rehabilitation Medicine and Medicine at Emory University School of Medicine. He is also Professor of Health and Elder Care in the Nell Woodruff Hodgson School of Nursing at Emory University. Dr. Wolf received his Masters and his PhD from Emory University, and completed a post-doctoral fellowship at Karolinska Institute in Stockholm, Sweden.

SCHEDULE AT A GLANCE

TUESDAY SEPTEMBER 25, 2018

10:00 AM – 6:00 PM	Registration Open
10:00 AM – 6:00 PM	Exhibitor Set up
1:00 PM – 5:00 PM	Contemporary Overview of Lower Limb Prosthetic Impression Techniques (C1) *Tickets required, available through registration, limited space available

WEDNESDAY SEPTEMBER 26, 2018

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 (Buses depart from the convention center at Noon)
1:00 – 5:00 PM	Business Certificate Program (B1)
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 Vancouver—Grand Opening Reception
5:30 – 7:30 PM	Exhibit Hall Open

THURSDAY SEPTEMBER 27, 2018

7:00 AM – 5:00 PM	Registration Open
7:00 AM	Breakfast
7:15 – 8:30 AM	Opening General Session Keynote Address
	<ul style="list-style-type: none"> • Tobie Hatfield, Director of Innovation, Nike • Thranhardt Lecture Series (C2) • Significant Factors Influencing the Effectiveness of Cranial Remolding Orthoses in Infants with Deformational Plagiocephaly (C2-A) • Comparative Effectiveness of Microprocessor and Energy Storing Prosthetic Ankles (C2-B)
8:30 – 10:00 AM	Break in Exhibit Hall
8:30 AM – 5:00 PM	Exhibit Hall Open
10:00 AM – Noon	Concurrent Education
	<ul style="list-style-type: none"> • Top-Ten Series (B2) • Outcomes and Evidence-Based Practice in P&O: How You Are Documenting Value in Your Clinic and Using it to Improve Reimbursement? (C3) • Top-Ten Insights for Making and Keeping Your Pedorthic Practice Successful—Part 1 (P1) • A Modular Approach to Dynamic Bracing (T1) • Advanced Lamination Techniques in Orthotic Fabrication (T2)
Noon – 1:30 PM	Lunch in Exhibit Hall
1:30 – 3:00 PM	Concurrent Education
	<ul style="list-style-type: none"> • Compliance in a Changing World (B3) • Update on the Evidence for Benefits of Microprocessor-Controlled Knees in Limited Community Ambulators: Review of the Literature, Results of the Current Studies, and Future Research Projects (C4) • Novel Approaches to New Markets (C5) • The Development and Utility of ReLoad: A Mobile Sensor System of Auditory Feedback for Gait Deviation Detection and Correction for Lower Limb Amputees (C6) • Top-Ten Insights for Making and Keeping Your Pedorthic Practice Successful—Part 2 (P2) • Advanced Prosthetic Fabrication Techniques (T3)/Future Tech (T4)
3:00 – 3:15 PM	Break
3:15 – 5:00 PM	Concurrent Education
	<ul style="list-style-type: none"> • Regulatory/Legislative Update (B4) • A Step Forward in Prosthetic Care—A Free Paper Session (C7)/Socket Design—The Foundation of Prosthetic Care Free Paper Session (C10) • Pediatric and Adolescent Bracing Free Paper Session (C8)/Spinal Orthoses Free Paper Session (C11) • Integrating Outcomes Measures to Improve Patient Care (C9) • Modifiable Premades/Certification/Accreditation (P2 Continued) • Blood In Custom Laminated Sockets: More Than Just A Freckle? (T5)/"Finding your way" Developing and Utilizing Standards in the Fabrication Setting (T6)
4:00 – 5:00 PM	Poster Session
6:30 – 9:30 PM	Party with a Purpose

FRIDAY SEPTEMBER 28, 2018

7:00 AM – 5:00 PM	Registration Open
7:00 AM	Breakfast
7:15 – 8:30 AM	General Session
	<ul style="list-style-type: none"> • AOPA Membership Meeting • International Society of Prosthetists and Orthotists
8:30 – 10:00 AM	Break in Exhibit Hall
8:30 AM – 6:00 PM	Exhibit Hall Open
8:45 – 9:45 AM	Professional Women of O&P Celebrating Success
10:00 AM – Noon	Concurrent Education
	<ul style="list-style-type: none"> • Award Winning Hamontree Lectures (B5) • Technology for Geriatrics (C12) • Clinically Relevant Diagnostic Measures to Determine AFO Ankle Joint Stiffness with an Instrumented AFO (C13) • Top-Ten Insights (Cont'd.) (P3) • Getting Your Feet Wet with O&P 3D Printing! (T7)
Noon – 1:30 PM	Lunch in Exhibit Hall
1:30 – 3:00 PM	Concurrent Education
	<ul style="list-style-type: none"> • Strengthening the O&P Profession through Development and Activism (B6) • Socket and Suspension Design (C15) • Multi-disciplinary Panel on Rehabilitation of the Paretic Arm (C16) • Record Keeping (P3 continued)/Prevention, Diagnosis and Management of Common and Rare Conditions (P4) • Scanning and CAD Software Round Ribbon (T8)
3:00 – 3:15 PM	Break
3:15 – 5:00 PM	Concurrent Education
	<ul style="list-style-type: none"> • Business Management for Today's O&P Facility (B7) • Socket Design—The Foundation of Prosthetic Care (C17)/Balance and Pain (C20) • Lower Limb Orthoses Free Paper Session (C18)/Upper Limb Orthoses Free Paper Session (C21) • Future Possibilities in Amputation Surgery (C19) • Preventing the Destruction of the Diabetic Foot/Managing Hanson's Disease (P4) • The Effect of Material Choice and Process Parameters on the Mechanical Strength of 3D-Printed Transtibial Prosthetic (T9)/How to Take a Digital Design to a 3D print (T10)
4:00 – 5:00 PM	Poster Session
5:00 – 6:00 PM	Exhibitor-Sponsored Happy Hour in Exhibit Hall

SATURDAY SEPTEMBER 29, 2018

7:00 AM – Noon	Registration Open
7:00 AM	Breakfast
7:15 – 8:30 AM	General Session
	<ul style="list-style-type: none"> • Paralympic Gold Medalist, Mike Schultz • Orthotics 2020
8:30 – 10:00 AM	Break in Exhibit Hall
8:30 AM – Noon	Exhibit Hall Open
10:00 AM – Noon	Concurrent Education
	<ul style="list-style-type: none"> • Best Business Practices (B8) • Approved Clinical Mentor (ACM) Training Workshop—Part I (B9) • Advances in Upper-Limb Control Technologies (C22) • Shining A Light on the Role of Spasticity in Diplegic Cerebral Palsy—Part 1 (C23) • How the Functional Lower-Limb Amputee Gait Assessment Can Improve Rehabilitation Prescription and Patient Outcomes (C24) • Research in the Pedorthic World (P5) • Pre Preg Fabrication Techniques (T11)/3D Printing Recap & Roundtable (T12)
Noon – 1:00 PM	Lunch on Your Own
1:00 – 5:00 PM	Concurrent Education and Workshops
	<ul style="list-style-type: none"> • Approved Clinical Mentor (ACM) Training Workshop—Part II (B10) • Shining A Light on the Role of Spasticity in Diplegic Cerebral Palsy—Part 2 (C25) • 2018 ABC Update: What Does the Practice of the Future Look Like (MW) • Evolving Orthotic Interventions (MW) • Orthotic Management of the Lower Extremity (MW)

GENERAL SESSIONS

THURSDAY SEPTEMBER 27, 2018

Breakfast *Breakfast will be available to attendees prior to the general session.*
7:00 AM

General Session (GS1)

Opening Keynote with Tobie Hatfield followed by Thranhardt Lectures

7:15 – 8:30 AM



Sarah Reinertsen tests the Nike Sole, developed by Tobie Hatfield of Nike.

Tobie Hatfield is Director of Innovations for Nike. He is the brother of Tinker Hatfield, the Nike designer known for working with Michael Jordan to develop the Air Jordan basketball shoes which led to the creation of Nike's Jordan Brand. Like older brother Tinker, Tobie Hatfield was a pole vaulter. Tobie Hatfield went on to compete on the track team at Abilene Christian University in Texas where he earned a degree in physical education with a minor in anatomy and physiology. Like his father, Tobie Hatfield became a coach.

In 1990, he accepted Nike's offer to become a components manager, working with materials suppliers of plastics and foams. He embarked on a career track of learning and producing on the job.

From there, he became a shoe developer, bringing shoe designers' visions to fruition. Then he was sent to Taiwan, to learn the shoe making trade up close. In Taiwan, he started a research and development center where he contributed to some of the products used by Olympic athletes in 1996.

The Nike Sole project hit close to his heart. The "Nike Sole" pad designed by Hatfield features an integrated layered sole including an outsole, midsole and thermal plastic urethane called AeroPLY, made of recycled Nike Air Bag units. Nine nylon plastic tabs secure the sole to the blade. "The Nike Sole is a shining example of our passion and commitment to serve athletes and provide them the solutions they need to achieve their goals—we're always listening to the voice of every athlete."

"It's like that old saying of (Nike co-founder Bill) Bowerman," Hatfield said. "If you have a body, you're an athlete. We want everybody to have access to an activity." He's worked with Paralympic runner, Oscar Pistorius, triathlete Sarah Reinertsen, who inspired the Nike Sole, Tiger Woods, to name a few.

FRIDAY SEPTEMBER 28, 2018

Breakfast *Breakfast will be available to attendees prior to the general session.*
7:00 AM

General Session (GS2)

AOPA Membership Meeting followed by World Health Organization's Standards for P&O Service Provision and Provider Education

7:15 – 8:30 AM

The World Health Organization (WHO) estimates that, today, only 1 in 10 people have access

to assistive devices, including prostheses and orthoses. To improve access to P&O services, the WHO, in partnership with the International Society for Prosthetics and Orthotics (ISPO) and the United States Agency for International Development (USAID), has prepared global standards to assist Member States in setting up, improving or transforming their systems for delivering these services. One aim of the Standards is to ensure that P&O services are integrated into health services and systems, as they are often provided at the same time as other health services. WHO believes that these Standards will promote greater access to these services globally, as another step towards strengthening universal health coverage and achieving the Sustainable Development Goals of the WHO and the United Nations.

The WHO Standards for Prosthetics and Orthotics cover four areas of the health system:

- Policy (governance, financing and information);
- Products (prostheses and orthoses);
- Personnel (workforce); and
- Provision of services.



World Health Organization

SATURDAY SEPTEMBER 29, 2018

Breakfast *Breakfast will be available to attendees prior to the general session.*
7:00 AM

General Session (GS3)

Orthotics 2020 followed by a presentation with Mike Schultz, Paralympic Gold Medalist

7:15 – 8:30 AM

Mike Schultz, Two-time Paralympic medalist (1 gold, 1 silver) PyeongChang 2018 Paralympic Winter Games, gold (snowboard-cross), and silver (banked slalom). Schultz has been a lifetime lover of action sports. In 2008, during a snowcross race accident he suffered from a severe compound fracture to his knee and after multiple surgeries had his leg amputated above the knee. After engineering his own prosthetic knee, Mike earned a motocross adaptive silver medal at the X games. It was after this that Mike realized the need for advancements in high impact adaptive sports prosthetics and founded BioDapt, Inc. Currently more than 100 wounded soldiers, extreme athletes and amputees wanting to return to an active lifestyle are using Mike's prosthetics.



EDUCATION PROGRAM BUSINESS

Join your O&P colleagues for the Best in Business Education. Business managers and owners, as well as, practitioners who want to keep their business skills sharp should attend these programs.

WEDNESDAY SEPTEMBER 26, 2018

Business Certificate Program (B1)

1:00 – 5:00 PM

The O&P Business Management Certificate is a comprehensive certificate granting program that offers a series of business and management seminars to provide business managers, practitioners and distributors an opportunity to explore crucial business challenges—from finance, sales and marketing to business operations, reimbursement policies and management. The Business Management Certificate Program is similar to non-degree continuing education programs that universities offer in conjunction with their MBA programs. Certificate Program courses are offered at the AOPA Assembly, online at AOPA's website and targeted seminars throughout the country. The Certificate Program focuses on four subject areas: Finance, Management, Sales and Marketing, and Operations. To complete the program you must complete the required core module and one elective module from each of the four core subject areas for a total of eight courses.

Learn more at bit.ly/aopacertificate. (The following sessions run consecutively within this program.)

Basic Financial Accounting—How to Read a Financial Statement (B1-A)

1:00 – 3:00 PM

Adam Herman, CPA

Business Certificate Program—Finance Core Program. This course is designed to help you gain a basic understanding of how to read financial statements and gives you the confidence to be able to look at a set of financial statements and make sense of them. We will begin with what financial statements do. We all remember Cuba Gooding Junior's immortal line from the movie Jerry Maguire, "Show me the money!" Well, that's what financial statements do. They show you the money. They show you where a company's money came from, where it went, and where it is now. We will cover four main types of financial statements:

- Balance sheets
- Cash flow statements
- Income statements
- Statements of shareholders' equity

Break

3:00 – 3:15 PM

Overhead Reduction Strategies (B1-B)

3:15 – 4:15 PM

Kathleen DeLawrence, COO, Ability Prosthetics and Orthotics

Going Lean: Overhead reduction strategies. As the healthcare market continues to challenge O&P providers with longer timelines for authorizations and reimbursements, the industry is looking for ways to eliminate expenses, streamline business practices and deliver more profitable value. This discussion will share best practice approaches to evaluate your business model so you can determine how to get leaner and reduce cost while maintaining high quality clinical care. Strategies for organizational design planning, centralizing business processes and streamlining manufacturing will be addressed. You will leave with tips on how to get started, build a realistic plan and deliver results.

The Operating Performance Benchmarking Survey: What it Can Do For You (B1-C)

4:15 – 5:00 PM

Jeff Brandt, CPO, CEO, Ability P&O

Join this panel of seasoned financial professionals to learn how AOPA's financial clinical benchmarking survey can help strengthen your O&P business.

Welcome to VANCOUVER

Grand Opening Reception

5:30 – 7:30 PM

Welcome to Vancouver is the grand opening reception of the 2018 AOPA National Assembly. View all the event has to offer as exhibitors welcome you to this beautiful city. Refreshments will be served. *The Welcome Reception is included in your full conference registration. You can purchase a guest ticket for \$45.*



SEPT. 26-29 | VANCOUVER | CANADA

PASSPORT  INNOVATION



THURSDAY

SEPTEMBER 27, 2018

Breakfast

7:00 AM

Breakfast will be available to attendees prior to the general session.

General Session (GS1)

7:15 – 8:30 AM

Opening Keynote with Tobie Hatfield followed by the Thranhardt Lectures.

Coffee Break in Exhibit Hall

8:30 AM – 10:00 AM

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

Exhibit Hall Open

8:30 AM – 5:00 PM

Top-Ten Series (B2)

10:00 AM – Noon

Learn the top-ten strategies, solutions, ideas and answers to your most commonly asked questions. The top-ten series will give you the fast facts you need to improve your business savvy and patient care. Designed for everyone in POP. *(The following sessions run consecutively within this program.)*

Top-Ten Things You Need to Know to Create a Chart Audit (B2-A)

Kimberly Hanson

This discussion highlights the top-ten things you need to know to create a chart audit like a pro.

Top-Ten Key Elements When Navigating the Medicare Appeal Process (B2-B)

Dale Berry, CP, FAAOP, LP

Being prepared with a focused strategy is key to the Medicare appeal process; this presentation will provide insight on a practical strategy and approach to manage any Medicare appeal. This

presentation will establish the top-ten key elements related to appealing a denial by Medicare.

Top-Ten Reimbursement Questions (B2-C)

Linda Collins, MS

This presentation reviews the most common questions from O&P professionals along with providing answers and resources.

Top-Ten Things to Know About the Changing Payer & Reimbursement Landscape (B2-D)

Craig Douglas

The payer landscape is changing at a faster pace now than it ever has in the past. This presentation will summarize the top-ten changes and trends that orthotic and prosthetic practitioners need to be aware of and prepared for.

Lunch in Exhibit Hall Product Preview Theater

Noon – 1:30 PM

Compliance in a Changing World (B3)

1:30 – 3:00 PM

Creating, educating and enforcing compliance is an ever-challenging proposition. Today's compliance programs must include protection against cyber-attacks, protocols for clinical practice as well as HIPAA. *(The following sessions run consecutively within this program.)*

Willful Neglect: Two Words that Can Cost You Your Business (B3-A)

Carol Albaugh, LPTA

In 2017, the Justice Department and the Inspector General released guidance on metrics they would use to evaluate a provider's compliance program in the event of a compliance issue. If an entity has a compliance issue or a HIPAA breach and it's determined there was an absence of or insufficient controls in the compliance program, the provider may be accused of willful neglect and suffer increased penalties. But what does a comprehensive compliance program entail? This presentation will discuss what the government expects providers to do when it comes to reimbursement and HIPAA. Compliance is no longer an option.

Health Care Held Hostage— Arming Your Business to Defend Against Cyberattacks (B3-B)

Bill Wilson, CPIA

Attend this session to arm yourself with the tools and best practices to protect your business from online threats. The health care industry has become one of THE top target for hackers. Health care data is rich with information hackers can exploit to make money. One health care provider lost 412 patient records and paid \$650,000 in fines alone. In fact, insurance experts estimate that 60 percent of small businesses will go out of business within a year of having a major data breach. Don't let this happen to you.

Where HIPAA Compliance and Cybersecurity Intersect (B3-C)

Carol Albaugh, LPTA

Meeting HIPAA's vast array of regulations isn't enough to secure patient data in today's connected healthcare environment. In a time when cyber-attacks threaten every business and organization from big to small, it has never been more important for O&P practitioners to make cybersecurity a priority. Protecting against healthcare cybersecurity threats and unauthorized access to patient medical records requires a comprehensive approach that addresses how an organization's evolving IT infrastructure impacts electronic protected health information (ePHI). During this presentation we will discuss the current state of affairs in cybersecurity, how to determine levels of risk to your company and patient data and will provide best practices to help protect businesses from hackers.



THURSDAY SEPTEMBER 27, 2018

Regulatory and Legislative Update (B4)

3:15 – 5:00 PM

Learn what's happening in the legislative and regulatory arena and how it will affect you. This informative session will provide an update on the issues that AOPA and the Alliance have been working on as well as an update on recently enacted legislation. *(The following sessions run consecutively within this program.)*

So Congress (and the Federal Law) Now Says Our Notes are Officially Part of the Medical Record ... Now What? (B4-A)

David McGill

On February 8, 2018, congress amended the Social Security Act to read, "For purposes of determining the reasonableness and medical necessity of orthotics and prosthetics, documentation created by an orthotist or prosthetist shall be considered part of the individual's medical record to support documentation created by eligible professionals described in section 1848(k)(3)(B)." What exactly does this mean to you?

Medicare O&P Improvement Act—One is not Enough (B4-B)

Thomas F. Fise, JD

The Medicare O&P Improvement Act has eight provisions, we've gotten one passed, but what are the others and what can we do to finally move this piece of legislation forward?

Regulatory Update (B4-C)

Joe McTernan, Director of Reimbursement Services and Education, AOPA

Receive an update from AOPA's Director of Reimbursement to make sure you are up to date on the latest rules and regulations affecting your practice.

Poster Session

4:00 – 5:00 PM

Visit the new e-learning lounge. Electronic research posters will be on display throughout the day on Thursday and Friday. The Assembly has dedicated time for you to meet with researchers and learn more about their research. *Check the online schedule for a full list of poster presentations and their schedule.*

FRIDAY SEPTEMBER 28, 2018

Breakfast

7:00 AM

Breakfast will be available to attendees prior to the general session.

General Session (GS2)

7:15 – 8:30 AM

The Friday morning General Session will include an awards ceremony as well as an interesting update from the International Society of Prosthetics and Orthotics on the new WHO Standards for P&O.



World Health Organization

Coffee Break in Exhibit Hall

8:30 – 10:00 AM

Take advantage of this time to:

- Meet with exhibitors
- View and learn about new product and service offerings from around the world
- Participate in Product Preview Theater Presentations
- Network with attendees

Exhibit Hall Open

8:30 AM – 6:00 PM

Hamontree Lectures (B5)

10:00 AM - Noon

The Sam E. Hamontree, CP(E) Business Education Award was created to recognize the best business papers submitted for presentation at the AOPA National Assembly. This award is envisioned as a counterpart to the Thranhardt Award given each year to the best clinical abstract(s). The audience will be invited to cast their vote for the award winner. The winner will be announced at the Saturday morning General Session. *(The following presentations run consecutively within this program.)*

PARTY WITH A PURPOSE

6:30 – 9:30 PM

THURSDAY SEPTEMBER 27, 2018

Reserve your ticket for the **2nd Annual Party With a Purpose**. Come re-live the fun, wild and groovy decade that was the 1970's at That Seventies Bar (Vancouver Convention Center Level 3). Enjoy a delicious dinner, disco dancing, soulful tunes and beautiful harbor views. Since this event is a fundraiser for AOPA's government relations programs, certain rules may apply. *Tickets must be purchased separately but can be reserved in advance. Space is limited, so reserve your tickets in advance.*



Successful Contract Negotiations (B5-A)

Chris Field, MBA

Getting paid is the single most important aspect of a successful O&P facility, following quality patient care, and getting paid fairly is something not to be taken for granted. Contract negotiations are critical for sustainability and this presentation reviews steps taken by an active O&P company to win rate increases from notoriously tight insurance providers.

Organizational Mission Possible: Top-Ten Developmental Impacts with Increasing Employee Engagement and Lean Strategies (B5-B)

Kenneth Gavin, CO, MEd

This presentation will focus on the top-ten important improvement strategies to include people development and explore the strengths and opportunities encountered by organizations. It will briefly introduce lean and answer questions, what is Lean? Standard Work? A3 thinking? Root Cause Analysis? Visual Management? What is growth, mission and relevance of the people that move your organization? Transform your mindset-set from one that limits your opportunities to one that expands your horizons.

Top 10 Ways to Get and Keep Your Money (B5-C)

Lesleigh Sisson, CFom

The climate with Medicare and other payers has changed dramatically in recent years resulting in an increase in denials. Studies have shown that 90% of denials are preventable and 2 out of 3 denials are recoverable. So, how do we improve our practices so we can ensure we will get and keep the money owed to us for services?

Certified Orthotists and Prosthetists: Product Supplier or Knowledge Based Healthcare Professional? (B5-D)

Frank Bostock, CPO, FAAOP

This presentation focuses on presenting an argument for transitioning the O&P profession from product suppliers to knowledge-based healthcare professionals. In the eyes of Medicare and other payers, certified orthotists and prosthetists are viewed as providers of products, and that is how they are paid

for their services – through L Codes. Today, there are CPT Codes that pay for O&P patient care services that physicians and therapists provide, but O&P professionals are not using these codes to bill for patient care services that are not included in the L Code system. With the current educational requirements required by ABC for an individual to become a certified practitioner, in addition to the residency requirements, O&P practitioners are truly qualified to be recognized as knowledgeable healthcare professionals that provide both patient care services and products. Congress recently passed a Bill recognizing O&P clinical notes as part of the medical record, proving O&P is making headway in being recognized as an undoubtable and credible profession.

Lunch in Exhibit Hall Product Preview Theater

Noon – 1:30 PM

Strengthening the O&P Profession through Development and Activism (B6)

1:30 – 3:00 PM

What better way to strengthen the profession than by creating a culture of inclusion and diversity and recruiting strong representatives of the profession to advocate not only on behalf of O&P businesses but also for those who require a united and strong profession the most, our patients. *(The following presentations run consecutively within this program.)*

The Impact of Professional Women in O&P (B6-A)

Moderator: Teri Kuffel, JD

Cathy Carter, executive director, ABC

Arlene Gillis, CP, LPO, MEd, FAAOP

Pam Lupo, CO

Ann Moss, president, Union O&P

Robin Seabrook, executive director, NCOPE

Calling all professional women in O&P! Are you an O&P practitioner, supplier, or administrator? Join us for a presentation describing the journey of how professional women across our industry have helped shape the form of the world of O&P we know today!

State Level Legislative Activism— How to Do It! (B6-B)

Catherine Mize, CPO, LPO

Teri Kuffel, JD

Ashlie White, MBA

The goal of this panel discussion is to recruit professionals at the state level to become involved in their state government process and work towards getting new legislation passed, if needed, and improve existing state policy. Primary topics include, state licensure and state parity, with emphasis on the why and how to accomplish this.

Business Management for Today's O&P Facility (B7)

3:15 – 5:00 PM

Hone your skills critical to success in today's workplace, including change management, marketing, validating functional levels and working with staff ranging from Generation X to baby boomers. *(The following presentations run consecutively within this program.)*

Change Management 101 (B7-A)

Valerie Vastola, business advisor, OPIE

The only thing constant is change! Where do I start? Who are the players? How can I get there? Learn the basics of change management and some valuable tools to help you make those changes.

Level Headed Protocol to Validate Functional Level (B7-B)

Dale Berry, CP, LP, FAAOP

This presentation will provide guidance on implementing a systematic multi-disciplinary evaluation protocol to clearly establish and validate the functional K level for an individual with a lower extremity amputation.

Marketing: Give the People What They Want (B7-C)

Karen Lundquist, MBC

Marketing was once described to as "getting people to buy things they don't need". On the contrary, it's making sure people get what they DO need, whether that is an answer, a connection, a caring ear, or a problem-solving product or service. Making those connections in our cluttered world means tying your brand into everything you do, every time you are in contact with your customer.

O&P Management in a Changing Workforce (B7-D)

Joyce Perrone, director, De La Torre O&P

This presentation will be structured around management of Gen X, Gen Y and the upcoming Gen Z. In addition, we shall explore what to do with the boomers' employees getting closer to retirement or wanting to change careers, at-home workers, and how to assure you are not listed under any #metoo listing.

Poster Session

4:00 – 5:00 PM

Visit the new e-learning lounge. Electronic research posters will be on display throughout the day on Thursday and Friday. The Assembly has dedicated time for you to meet with researchers and learn more about their research. *Check the online schedule for a full list of poster presentations and their schedule.*

Exhibitor Sponsored

HAPPY HOUR

5:00 – 6:00 PM

FRIDAY SEPTEMBER 28, 2018

Join conference participants as we celebrate the success of another day of great learning and growing! Continue to network with your fellow cohorts and healthcare professionals in the Exhibit Hall. The Happy Hour is hosted by exhibitors. A list of participating exhibitors 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.*



SATURDAY

SEPTEMBER 29, 2018

Breakfast

7:00 AM

Breakfast will be available to attendees prior to the general session.

General Session (GS3)

7:15 – 8:30 AM

Orthotics 2020 followed by a presentation with Mike Schultz, Paralympic Gold Medalist

Coffee Break in Exhibit Hall

8:30 – 10:00 AM

Exhibit Hall Open

8:30 AM – Noon

Best Business Practices (B8)

10:00 – Noon

An effective business manager is constantly learning and implementing new programs to keep their business growing strong. Two of the latest trends in O&P business administration include, incorporating R&D tax credits and assisting staff in maintaining work-life balance. For those who are considering selling or validating their business worth, we will review the top-ten fundamentals to consider. *(The following sessions run consecutively within this program.)*

Monetizing Prosthetics with R&D Tax Credits (B8-A)

Jill Neuvirth, JD

In the orthotic and prosthetic profession, the R&D tax credit benefits labs that are developing new products, processes, and techniques that improve the quality, functionality and performance of O&P devices. Claiming the credit will help companies reinvest in their businesses to ultimately better serve their patients.

Harassment, Discrimination and Wrongful Termination (B8-B)

Don Foley, principal, Cailor Fleming Insurance

Companies have dramatically increased their insurance coverage against sexual harassment complaints in recent years following high-profile scandals, as corporate America reckons with the growing

risks of workplace misconduct. Employment practices liability insurance (EPLI) plans, which cover sexual harassment, racial discrimination and wrongful-firing claims, have spread rapidly over the past decade from major corporations to midsize and smaller firms. Harassment and discrimination also have 3rd party coverage. The big 3 coverages are harassment, discrimination and wrongful termination (the most common claim). Further processes include, violations of the Family Leave Act, 'employment practices' and employment-related issues, such as failure to promote.

Selling Your Business: Beyond the Sales Price (B8-C)

Mike Schlesinger, CPA

Review the top 10 elements involved with selling an O&P Practice. These essential steps are often overlooked or grossly underestimated.

Selling Your Business: Mistakes to Avoid (B8-D)

Barry Smith, JD

The sale process is more than putting a FOR SALE sign in the front yard. You have to be prepared for battle.

Approved Clinical Mentor (ACM) Training Workshop—(B9/B10)

10:00 AM – Noon and 1:00 – 5:00 PM

Jennifer Richards, CPO, CPed, FAAOP
Thomas Karolewski, MA, CP, FAAOP
Chris Robinson, MS, MBA, CPO, ATC, FAAOP(D)

An Approved Clinical Mentor (ACM) is a certified and/or licensed clinician and residency director, mentor, or educator who has successfully completed and passed NCOPE's ACM course. This comprehensive course provides a clinician with the skills and information necessary to more effectively teach and mentor students in the context of a residency program or educational program.

ACM designees will receive a certificate and lapel pin upon successful completion of the course and passing of a knowledge and skills assessment. The NCOPE staff kindly requests that you pre-register for the event by visiting: <http://resident.ncope.org/leaders/ACM/>. *A limited number of seats will be available for individuals to register at the 2018 National Assembly. This course runs until 5:00 PM and includes lunch.*

EDUCATION PROGRAM CLINICAL

Join your O&P colleagues for the Best in Clinical Education from top researchers, clinicians, physicians, and practitioners from around the world.

Pre-Conference Workshop

TUESDAY

SEPTEMBER 25, 2018

Contemporary Overview of Lower Limb Prosthetic Impression Techniques (C1)

1:00 – 5:00 PM

Mark Muller, MS, CPO,
FAAOP
Charles Kelly, CPO

While we all have our own negative impression technique for lower limb prosthetics that meet the needs of our particular patient population, it is essential to know what other techniques are available and to refresh our skills. This hands-on course will review a variety of impression taking techniques (Plaster & Scanning) from experienced clinicians focusing on four distinct levels of amputation (Long Trans-tibial, Short Trans-tibial, Long Transfemoral & Short Transfemoral). For each level, the live demonstration will cover seasoned and innovative techniques that can help every clinician broaden their clinical skills. *Limited space is available. *Tickets required and available through registration.*

WEDNESDAY

SEPTEMBER 26, 2018

Manufacturers' Workshops

8:00 AM – 5:00 PM

See page 27 for details on Manufacturers' Workshops.

THURSDAY

SEPTEMBER 27, 2018

Breakfast

7:00 AM

Breakfast will be available to attendees prior to the general session.

General Session (GS1)

7:15 – 8:30 AM

Opening Keynote with Tobie Hatfield followed by the Thranhardt Lectures.

Award Winning Thranhardt Lecture Series (C2)

8:00 AM – 8:30 AM

Significant Factors Influencing the Effectiveness of Cranial Remolding Orthoses in Infants with Deformational Plagiocephaly (C2-A)

Tiffany Graham, MSPO, CPO,
LPO

A statistical significance analysis will be presented on a retrospective chart review of 499 patients with a diagnosis of deformational plagiocephaly. The significance of the following factors on overall treatment time and final post-treatment head shape will be presented: initial age, initial severity, presence/absence of torticollis, and presence/absence of prematurity.

Comparative Effectiveness of Microprocessor and Energy Storing Prosthetic Ankles: Full Study Results (C2-B)

Brian Kaluf, BSE, CP, FAAOP

Clinical research results will be presented from the largest trial of microprocessor ankles with persons using trans-tibial prostheses. The Kinnex showed increased mobility, socket comfort and improvements in knee and ankle angles on slopes when compared to a fixed-ankle carbon fiber foot. There were aspects that patients liked and disliked about the microprocessor, however 81% preferred it over the fixed-ankle foot.

Welcome to VANCOUVER

Grand Opening Reception

5:30 – 7:30 PM

Welcome to Vancouver is the grand opening reception of the 2018 AOPA National Assembly.



SEPT. 26-29 | VANCOUVER | CANADA

PASSPORT TO INNOVATION

Coffee Break in Exhibit Hall

8:30 AM – 10:00 AM

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

WillowWood

Proud Education Sponsor of the
2018 National Assembly

— attendees —

Exhibit Hall Open

8:30 AM – 5:00 PM

Outcomes and Evidence-Based Practice in P&O: How Are You Documenting Value in Your Clinic and Using It to Improve Reimbursement? (C3)

10:00 AM – Noon

James Campbell, PhD, CO, FAAOP
Brian Hafner, PhD
Andreas Hahn, PhD, MSc
Kenton Kaufman, PhD, PE
Russell Lundstrom, MS
Brittany Pousett, CP(C), MSc
Scott Sabolich, CP

The need for transparent, value-based funding decisions has reached the field of prosthetics and orthotics. The challenges of properly allocating resources within limited healthcare budgets while also providing patients with appropriate state-of-the-art medical technology requires data based guidance. Significant efforts have been made in recent years to identify appropriate, valid, and reliable clinical outcomes capable of addressing these needs. The number of prosthetic clinics adopting routine documentation of clinical outcomes has increased significantly in recent years. In this symposium, we present examples of routine outcomes measurement in clinical practice and illustrate how the data collected can be used to demonstrate clinical value and support reimbursement efforts.

**Lunch in Exhibit Hall
 Product Preview Theater**

Noon – 1:30 PM

Update on the Evidence for Benefits of Microprocessor-Controlled Knees in Limited Community Ambulators: Review of the Literature, Results of Current Studies, and Future Research Projects (C4)

1:30 – 3:00 PM

Stephan Domayer, MD, PhD
Andreas Hahn, PhD
Andreas Kannenberg, MD (GER), PhD
Kenton Kaufman, PhD, PE
Sara Morgan, CPO, PhD

This symposium will give an overview on the existing evidence, new study results, and current research efforts with microprocessor-controlled prosthetic knees in individuals with above-knee amputations and MFCL-2 mobility. Compelling arguments to negotiate MPK fittings in limited community ambulators with health insurances will be provided.

Novel Approaches to New Markets (C5)

1:30 – 3:00 PM

Jaimie Borisoff, PhD
Stephen Bourne, BSc
Jason Goodnough, CPO (C), MSc
 Review the evolutionary process of taking an idea to market in the assistive device technology area. Running a successful clinical practice has its challenges and rewards, as does product development and commercialization. But the two business activities require different mindsets, approaches and support teams around you. Come and hear about process of taking an idea and creating a business model around it from two successful innovators in the orthotics and mobility space.

The Development and Utility of ReLOAD: A Mobile Sensor System of Auditory Feedback for Gait Deviation Detection and Correction for Lower Limb Amputees (C6)

1:30 – 3:00 PM

Robert Gailey, PhD, PT
Ignacio Gaunard, PhD, MSPT
Anat Kristal, MSc, PT
Paul Pasquina, MD
 Hear a description of the ReLOAD system and its use for assessing gait, implementation of real-time gait correction through verbal cues and music distortion, and remote exercise prescription for individuals with unilateral lower limb amputation.



A Step Forward in Prosthetic Care—A Free Paper Session (C7)

3:15 – 4:00 PM

Hear four top-scoring studies providing comparative data and literature reviews on advanced technologies. (*The following sessions run consecutively within this program.*)

An Innovative Foot Module with Easily Accessible Frontal Plane Adaptation Enhances the Locomotion on Uneven Ground (C7-A)

Bjoern Altenburg, CPO

Review a comparison of cross slope ambulation of 12 TT amputees using standard ESR feet and a novel foot module that allows for +/- 10° inversion/eversion. Benefits in load distribution and perceived safety will be discussed.

Literature Review of The Evidence on Prosthetic Feet with Active Dorsiflexion Feature, Passive Microprocessor Control and Active Ankle Power Generation (C7-B)

Andreas Kannenberg, MD (GER), PhD

Review literature on the benefits of prosthetic feet with non-MP controlled hydraulic ankles/dorsiflexion feature, and passive and powered MP controlled feet. This review will help educate payers and inform patient selection for these advanced prosthetic foot technologies.

Immediate Post-Operative Ambulation After Below Knee Amputation (C7-C)

Christopher Bibbo, DO, DPM, FACS

Learn how to provide below knee amputees the ability to begin full weight-bearing immediately post-operatively.

Prosthetic Limb User Experiences with Crossover Feet: A Focus Group Study to Explore Outcomes that Matter (C7-D)

Cody McDonald, PhC, MPH, CPO

Prosthesis user engagement in qualitative research can allow clinicians and researchers to identify outcomes that matter to end users. Hear the insights from a focus group of prosthesis users who have worn both energy storing and crossover prosthetic feet.



Pediatric and Adolescent Bracing—A Free Paper Session (C8)

3:15 – 4:30 PM

Learn current treatment concepts for bracing in pediatric and adolescent patients. *(The following sessions run consecutively within this program.)*

A Prospective Study of Cranial Orthotic Treatment of Infants with Isolated Deformational Brachycephaly (C8-A)

Timothy R. Littlefield, MSEng

Due to its symmetric appearance, deformational brachycephaly is often incorrectly dismissed as being only 'cosmetic' in nature, and it is often reported that brachycephaly cannot be treated successfully with a cranial orthosis. We will report on 4,205 infants with isolated deformational brachycephaly treated with a cranial orthosis from 2012-2017, and demonstrate that successful outcomes may be achieved.

Outcome Effects of Initial Age and Severity in Cranial Remolding: Orthotic Treatment for Infant with Deformational Plagiocephaly (C8-B)

Tiffany Graham, MSPO, CPO, LPO

A retrospective chart review of 499 patients with a diagnosis of Deformational Plagiocephaly will be presented with the aim of analyzing the outcome effects of cranial remolding treatment based on initial age and severity of the patients. The overall change in cranial vault asymmetry index (CVAI) for each age/severity subgroup as well as their treatment durations will be reported. The rates of change in CVAI for each subgroup will also be compared.

The Effect of Body Mass Index on In-Brace Correction Obtained by a Boston-Style Scoliosis TLSO in Patients Diagnosed with Adolescent Idiopathic Scoliosis: A Retrospective Study (C8-C)

Rachael Rosen, MPO

It is generally accepted that increased in-brace correction of primary scoliotic curves among patients with AIS being treated with a Boston scoliosis TLSO is a predictor of orthoses' overall ability to prevent curve progression. However, whether a patient's BMI is a predictor of in-brace primary curve correction is still to be determined. Results will be presented that indicate patients with a BMI percentile falling above the 85th percentile were more likely to have poorer in-brace correction of their primary scoliotic curve when compared to low-BMI percentile counterparts.

Development of a Compliance Monitoring System for Scoliosis Brace Treatment (C8-D)

Jennifer Johansson, MS

Patient compliance is a key factor in the efficacy of brace treatment of adolescent idiopathic scoliosis (AIS). This presentation describes the development of a novel compliance monitoring system for brace treatment of AIS.

Pygmalion-Rosenthal Effect to Mitigate Non-Compliance and Improve Orthotic Outcomes in Patients with Adolescent Idiopathic Scoliosis (C8-E)

Cassandra Delgado, MSPO, CO

Strategies to compensate for orthotic non-compliance in patients with adolescent idiopathic scoliosis can be challenging. Utilizing the Pygmalion-Rosenthal effect may be an effective strategy used to reduce non-compliance without causing a higher rejection rate by over-prescribing wear time.

Orthotic Support in Complex Treatment of Children with Serious Congenital Vertebral Deformity (C8-F)

Grigorii Lein, PhD

Hear about congenital spinal deformities and how orthotic support has to be a part of complex treatment of children with this pathology especially in case when the child have a structure compensatory curves.

What in the "Heel" do they Feel? (C8-G)

Megan Smith, CO, director of clinical research, Surestep

This presentation will discuss the changes in both gait and function of children wearing Surestep SMOs with the open heel modification. These exciting results suggest more appropriate gait patterns and improved postural control and strengthening.

Integrating Outcome Measures to Improve Patient Care (C9)

3:15 – 5:10 PM

Join us for a series of free papers that focus on various outcomes measures and the importance of incorporating outcomes measures into your clinical decision making. (*The following sessions run consecutively within this program.*)

The Value of Correlations Between Outcome Measures to Clinical Practice (C9-A)

Nattie Chan, MS

Malena Rapaport, MSc, Prosthetic Resident

In prosthetics and orthotics, there has been a shift to integrate outcome measures (Oms) into the clinical decision making process to improve patient care. Although Oms use is increasing among clinicians, some reported barriers include lack of knowledge and perceived lack of relevance. This presentation explores the correlations between different Oms collected in clinical settings and its implications on clinical decision making with the ultimate goal of improving quality care.

Predictors of Clinical Improvement after Lower Limb Prosthetic Fittings: A 2-Year Retrospective Chart Review (C9-B)

Russell Lundstrom, MS

A retrospective chart review of 279 amputees undergoing routine lower limb prosthetic fittings showed that about half of the subjects improved in at least one outcome measure. Learn what factors might be able to predict who improves and who doesn't?

Matching Individuals Based on Comorbid Health Reveals Improved Function for Above-Knee Prosthesis Users with Microprocessor Knee Technology (C9-C)

Shane Wurdeman, PhD, CP

This study matched patients based on an objective classification of the patient-comorbid health. Functional mobility was then compared between MPK and non-MPK users, as well as patients with a BKA. Hear the results that the use of an MPK can practically cut the functional difference between AKA and BKA in half.

McGann Feedback Form: Utilizing Assistants and Residents to Improve Work Flow and Patient-Centered Outcomes (C9-D)

Cassandra Delgado, MSPO, CO

The McGann Feedback Form is a simple tool used to take descriptive patient feedback and develop immediate solutions to rectify prosthetic concerns. This presentation will show that use of the MCF has demonstrated improved patient satisfaction, greater troubleshooting strategies for resident/assistants, and increased appointment efficiency for clinicians.

Evidence-Based Post-Operative Care of the Amputee (C9-E)

James Reichmann, MBA

Review two clinical interventions proven in medical literature to dramatically improve outcomes. Although not directly in their control, the prosthetist is in a unique position to insure these clinical interventions are consistently applied thus following an evidence-based medicine approach. These clinical approaches have the added benefit of helping grow prosthetic referrals.

Qualitative and Quantitative User Research Methods Applied to Lower Extremity Amputees (C9-F)

Garrett Hurley, CPO

119 lower extremity amputees volunteered to participate in this qualitative and quantitative user study. This study highlights the value of user research techniques to collect patient goals and needs. Opportunities to improve prosthetic products and services were revealed through this research.

Establishing the Reliability and Validity of the Component Timed-Up-and-Go Test to Determine Basic Prosthetic Mobility in People with Lower Limb Amputation (C9-G)

Sheila Clemens, PhD

Brief bouts of activity consisting of sit-to-stand transitions, gait initiation, turning and negotiation of obstacles, are essential tasks of daily mobility, as well as basic prosthetic mobility. Using outcome measures deemed reliable for use in the amputee population when measuring prosthetic mobility is ideal. The Component Timed-Up-and-Go (cTUG) exhibits test-retest reliability and known-groups validity when measuring basic prosthetic mobility skills in people with lower limb amputation.

Falls and Daily Physical Activity After Dysvascular Trans-tibial Amputation (C9-H)

Chelsey Anderson, CPO, FAAOP

This research evaluates falls and their relationship to change in functional performance, daily physical activity (average step count), and self-reported physical function in older adults with dysvascular amputation. We will also examine the 19 second TUG test threshold for the ability to predict multiple falls. Results find that patients who experience multiple falls have potential to increase daily physical activity after prosthetic rehabilitation.

Factors Associated with Mobility Apprehension in Amputees (C9-I)

Shannon L. Mathis, PhD

The fear-avoidance model will be presented to determine factors that may lead to mobility apprehension in lower-limb amputees. Pain catastrophizing, the tendency to ruminate and magnify pain sensations, may lead to an increase in mobility apprehension.

Electrodermal Activity (EDA) as a Method of Measuring Balance Confidence in Individuals with Lower-limb Amputation: A Pilot Study (C9-J)

Erina Cho, BSc Hons

Brittany Pousett, CP, MSc

Examine current approaches to measuring balance confidence in people with amputations. Evaluate conventional self-reported methods and a newly proposed biomarker approach to help clinicians understand patients' barriers to physical functioning and social participation.

Experience Integrating Outcome Measures In Routine O&P Practice (C9-K)

Clay Barrow, CO

This presentation will highlight experiences of a private practice in adopting outcome measures routinely in clinical care and the strategies employed to improve efficiency and interpretation of the data. This resulted in increased utilization of the outcome measure protocol.

Socket Design—The Foundation of Prosthetic Care: A Free Paper Session (C10)

4:00 – 5:00 PM

This free paper session will provide studies surrounding socket fit, new casting methods and new design considerations. *(The following sessions run consecutively within this program.)*

Performance of an Activity Monitor Integrated into a Microprocessor Knee (C10-A)

Andy Sykes

With activity monitoring being recognized as providing important outcome measure data, more advanced prosthetic devices now have this capability built in, removing the need to wear additional hardware. This study sought to evaluate the performance of such a device compared to a market-leading activity monitor.

Benefits of Genium Microprocessor Controlled Knees: A Systematic Review (C10-B)

Milana Mileusnic, PhD

The systematic review of the published clinical evidence on Genium microprocessor controlled knee was conducted. Twelve articles of mostly medium and high overall validity were included in the review and reported of subjects transitioning from C-Leg to Genium. Review the positive effect of Genium on ambulation, mobility, activities of daily living and quality of life.

Influence of Falls Reduction on the Cost-Effectiveness of Advanced Hydraulic Microprocessor Controlled Knee Protheses in Elderly Patients with Lower Limb Amputations (C10-C)

Andreas Hahn, PhD, MSc

Review results of an analysis which indicate the cost-effectiveness of advanced hydraulic MPKs in elderly patients with above knee amputation. Learn the advantages for subjects with vascular disease.

Transitioning to Genium Microprocessor Knee Improves Functional Mobility Outcomes for Experienced Transfemoral Amputees (C10-D)

Ilanit Evron, MScPT

Examine the influences of transitioning to a new MPK on objective physical therapy mobility measurements, and the correlations between anthropometric measures and functional outcomes.

Randomized, Cross-Over Multicenter Study Evaluating a Novel Electronic Prosthetic Knee Joint for Moderately Active Amputees (C10-E)

Stephan Domayer, MD, PhD

Electronic knees are not commonly provided for transfemoral older amputees with lower mobility level. Safety is a very important issue for the more fragile population as falling creates a self-restricted mobility, which leads to a vicious circle of muscle weakness and a higher falling risk. The role of electronic knees in this population could lead to a paradigm shift.

Orthotic Treatment Options: A Free Paper Session (C11)

4:30 - 5:00 PM

Hear two dynamic presentations on treatment of the spine. *(The following sessions run consecutively within this program.)*

Short-Term Effects of Conservative Treatment of Lumbar Spinal Stenosis with a Dynamic Flexion Orthosis: A Prospective Randomized Trial (C11-A)

Klaus Schnake, MD

A prospective randomized study comparing a newly developed dynamic flexion orthosis with conservative treatment for lumbar spinal stenosis. The orthosis group showed significant positive clinical short-term effects in daily activities and assessments.

Case Study: Thermoplastic Scapulothoracic Orthosis for Treatment of Winging Scapula (C11-B)

Steven Brown, CPO

A thermoplastic scapulothoracic orthosis was designed, fabricated, and fit to aid in the management of a patient's winging scapula secondary to a traumatic work related injury. Hear how wearing the orthosis had positive outcomes, including a reduction in pain levels, an increase in active range of motion and a reduction in visual scapular winging.

Poster Session

4:00 – 5:00 PM

Visit the new e-learning lounge. Electronic research posters will be on display throughout the day on Thursday and Friday. The Assembly has dedicated time for you to meet with researchers and learn more about their research. *Check the online schedule for a full list of poster presentations and their schedule.*



PARTY WITH A PURPOSE

2018 PARTY with a PURPOSE

6:30 – 9:30 PM

THURSDAY SEPTEMBER 27, 2018

Reserve your ticket for the **2nd Annual Party With a Purpose**. Come re-live the fun, wild and groovy decade that was the 1970's at That Seventies Bar (Vancouver Convention Center Level 3). Enjoy a delicious dinner, disco dancing, soulful tunes and beautiful harbor views. Since this event is a fundraiser for AOPA's government relations programs, certain rules may apply. *Tickets must be purchased separately but can be reserved in advance. Space is limited, so reserve your tickets in advance.*



SEPT. 26-29 | VANCOUVER | CANADA

PASSPORT  INNOVATION

FRIDAY SEPTEMBER 28, 2018

Breakfast

7:00 AM

Breakfast will be available to attendees prior to the general session.

General Session (GS2)

7:15 – 8:30 AM

The Friday morning General Session will include an awards ceremony as well as an interesting update from the International Society of Prosthetics and Orthotics on the new WHO Standards for P&O.



Coffee Break in Exhibit Hall

8:30 – 10:00 AM

Take advantage of this time to:

- Meet with exhibitors
- View and learn about new product and service offerings from around the world
- Participate in Product Preview Theater Presentations
- Network with attendees

Exhibit Hall Open

8:30 AM – 6:00 PM

Technology for Geriatrics (C12)

10:00 AM – Noon

Cleveland Barnett, PhD

Charlie Guan

Andreas Kannenberg, MD (GER), PhD

Homayoon Kazerooni, PhD, MSME

Don Nixdorf, DC

Josh White, DPM, CPed

The symposium will give an overview on current and future technologies to support the lives of geriatric patients. It will cover prosthetic and orthotic products that are ready to be fit and create additional business opportunities today as well as those that may be of professional and business interest of prosthetists and orthotists in the near to mid-term future.

Clinically Relevant Diagnostic Measures to Determine AFO Ankle Joint Stiffness with an Instrumented AFO (C13)

10:00 AM - Noon

Nick Bolus, ME

Geza Kogler, PhD

The symposium will highlight emerging technologies that could change the way orthotists practice using actual measures to determine outcome performance. The instrumented AFO system uses a tablet interface and the system is wireless. Clinicians can take real time measurements of an AFO user to optimize tuning of an AFO's stiffness. The symposium will highlight emerging technologies of using sensor imbedded orthoses capable of conducting diagnostic assessment that can improve the accuracy of orthotic motion control features of and AFO.

WHO Standards for Prosthetics and Orthotics (C14)

10:00 AM – Noon

Members of the Executive Board of International Society for Prosthetics and Orthotics (ISPO)

The Convention on the Rights of Persons with Disabilities (CRPD) states that Member States are responsible for taking effective measures to ensure personal mobility for the greatest possible independence of people with disabilities. They also have a corresponding responsibility to promote and ensure the availability of and access to mobility aids, devices and assistive technologies, including prostheses and orthoses. Since 2006, more than 170 countries have ratified the CRPD and are therefore obliged to ensure access to affordable, high-quality assistive products, including prostheses and orthoses.

Lunch in Exhibit Hall Product Preview Theater

Noon – 1:30 PM

Prosthetic Socket Design Impact on the Amputee User in the Laboratory and Clinic (C15)

1:30 – 3:00 PM

Jason Highsmith, DPT, PhD, CP, FAAOP (Moderator)

Jason T. Kahle, MSMS, CPO, FAAOP

Tyler Klenow, MSOP, CPO, LPO, CPT

Matthew Wernke, PhD

Various interface designs, materials and suspension mechanisms have been widely used in the clinic while some have been tested in clinical trials and reported in evidence based literature. Evidence and clinical translation from recent clinical trials will be discussed regarding these design choices impact on an amputee users comfort, stability, function, perception, gait, biomechanics and skin issues such as heat and perspiration. Prosthetists will learn the effect from a variety of design, material and suspension options in the clinical trial laboratory setting. Evidence based knowledge gained from these clinical trial experiences and clinical implications will be discussed. Learning objectives include clinical decision making, medical necessity and improved patient-centric choices when selecting from available interface designs, materials and suspension options.

Multi-disciplinary Panel on Rehabilitation of the Paretic Arm (C16)

1:30 – 3:00 PM

David Coleman, CPO

Brandon Green, DO, BOCBP

Alexander Shin, MD

Steven Wolf, PhD, PT, FAPTA

Alan H. Weintraub, MD

Learn the clinical presentation and treatment, including orthotic and prosthetic technologies, of patients with chronic paretic upper extremities caused by stroke, traumatic injury, and neuromuscular disease.



Break

3:00 – 3:15 PM

**Socket Design—
The Foundation of
Prosthetic Care (C17)**

3:15 – 4:30 PM

This free paper session will provide studies surrounding socket fit, new casting methods and new design considerations. (*The following sessions run consecutively within this program.*)

**Alternative Method for Fabricating
Trans-Tibial Prosthesis Through
the Use of Socket Cone (C17-A)***Girma Bireda Assena*

Amputation can cause permanent disability if mobility issues are not addressed through rehabilitation so the initial result of the socket fit of direct socket cone method for trans-tibial amputee is encouraging. The technique of fabrication presented does not require high skill, consume and extensive amount of time and will be a technology of choice.

**Clinical Effectiveness of a Novel
Hydrostatic Casting Method for
Transfemoral Amputees: Results
from the First 64 Patients (C17-B)***Andrea Giovanni Cutti, MEng, PhD
Gennaro Verni, MEng*

A novel casting system (Aquasystem, Romedis, D) based on the hydrostatic principle might help in casting transfemoral patients, minimizing positive rectification, while preserving or improving clinical effectiveness. Assess the outcomes of 64 patients and the practical implications coming from the adoption of this technology.

**Clinical Evaluation of Portable
Intra-Socket Intermittent
Compression Therapy to Improve
Residual Limb Tissue Perfusion
(C17-C)***Todd Farrell, PhD*

This presentation will describe the design and development of a novel, portable, intra-socket, intermittent compression device. In addition, it will discuss the device's effects on residual limb tissue perfusion in patients with dysvascular amputation.

**Evaluation of Localized Pain in the
Trans-tibial Residual Limb (C17-D)***Kamiar Ghoseiri, PhD*

Residual limb pain may be sourced from a misfit prosthetic socket. For a trans-tibial residual limb, the lowest and highest pain threshold and tolerance was related to the distal end of the residual limb and mid-patellar tendon, respectively. Due to the small difference between pain threshold and tolerance limits, a small pain may be transformed to an intolerable pain. Therefore, trans-tibial socket design should be based on pain tolerability of the residual limb.

**The Comprehensive Lower-limb
Amputee Socket Survey: A
Measure of Stability, Suspension,
Comfort and Appearance (C17-E)***Robert Gailey, PhD, PT
Anat Kristal, MSc, PT*

The Comprehensive Lower-limb Amputee Socket Survey (CLASS) is a self-report measure of socket stability, suspension, comfort and prosthetic appearance, with excellent test-retest reliability and internal consistency. The CLASS will permit a more detailed socket assessment and quantify the change of socket fit over time.

**Satisfaction and Experience with
the Unity Suspension System
(C17-F)***Hossein Gholizadeh, PhD*

Hear a comparison of the Unity suspension system with suction and pin/lock systems based on user satisfaction and experience with these systems.

**Residual Limb Skin Strain Within a
Socket Prosthesis in Transfemoral
Amputees During Walking (C17-G)***Tom Gale*

Learn about a novel method to measure skin strain during walking for transfemoral amputees wearing conventional socket prostheses. Skin shear strain measured are consistent from stride-to-stride within patients, but vary substantially between patients.

**Lower Limb Orthoses—A Free
Paper Session (C18)**

3:15 – 4:10 PM

Receive an update on the latest research for lower limb orthoses. (*The following sessions run consecutively within this program.*)

**Effects of the Intrepid Dynamic
Exoskeletal Orthosis on Pain and
Function: Preliminary Results
(C18-A)***Andrea Ikeda, MS, CP*

Hear research that describes the isolated effects of the IDEO in terms of pain and function. Preliminary data indicates that upon delivery the IDEO may immediately improve walking pain and walking speed, but not agility.

**The 2- and 8-Week Effects of
Decompressive Brace Use in
People with Medial Compartment
Knee Osteoarthritis (C18-B)***Will Cox, CPO*

Hear how the Rebel Reliever can reduce potentially detrimental adduction moments at the knee and how the Rebel Reliever can be a noninvasive treatment for people presenting with medial knee osteoarthritis.

**One Clinic's Experience with
Carbon Fiber Orthoses in
Neuromuscular Disease (C18-C)***Ani Mnatsakanian*

Review the benefits in regards to patient care and satisfaction when off-the-shelf anterior shell carbon fiber ankle-foot-orthoses (CFAFOs) where prescribed to adult neuromuscular patients in an outpatient clinic at The Ohio State University.

**The Intrepid Dynamic Exoskeletal
Orthosis (IDEO): A Systematic
Literature Review of Associated
Outcomes (C18-D)***Tyler Klenow, MSOP, CPO, LPO*

The Intrepid Dynamic Exoskeletal Orthosis is an ankle-foot orthosis designed by the U.S. Department of the Army for injured service members to return to active duty and lifestyle. Results of a systematic literature review and outcomes associated with IDEO use and associated Return to Run therapy program will be presented.



Known Groups Construct Validity of the PROMIS Physical Function Short Form among Lower-Limb Orthoses Users (C18-E)

Eric Weber, LCPO, FAAOP

The PROMIS (Patient-Reported Outcomes Measurement Information System) outcomes instruments were developed to assess general population health outcomes and may be relevant for orthosis users. Assess the construct validity of a custom PROMIS Physical Function short form for individuals prescribed lower limb orthoses utilizing a known-groups analysis approach.

Future Possibilities in Amputation Surgery (C19)

3:15 – 5:00 PM

Hugh Herr, PhD

Cynthia Chestek, PhD

Rickard Branemark, MD, PhD

The benefits of osseointegrated prosthetics has been well documented. The thought of attaching prosthetic components to a titanium implant protruding from a patient’s residual limb is now a reality. As remarkable as this is, it is just a first step. Work at the University of Michigan has expanded on the capability of amplifying peripheral nerve signals by bifurcating these nerves and re-innervating them into small muscle bellies. This creates a Regenerative Peripheral Nerve Interface (RPNI), showing promise in the goal of restoring independent finger motion and the amplification of signals for enhanced data collection. In addition, MIT has demonstrated the agonist-antagonist myoneural interface (AMI), which leverages mechanically-coupled agonist-antagonist muscle pairs in the residual limbs of amputees to improve efferent control and provide proprioceptive afferent feedback from a robotic prosthesis. Biological mechanoreceptors within these AMIs allow communication of prosthetic joint state and torque directly to the peripheral nervous system, enabling a refined control of powered prosthetic components. In a fully-integrated system, the myoelectric data generated by RPNIs and AMIs can be transmitted through wires that run through a neural conduit in the bone anchored titanium implant, restoring natural afferent and efferent motor control of prosthetic limbs.

Balance and Pain (C20)

4:30 – 5:00 PM

This free paper session provides three studies that show the correlation between amputation, back pain and osteoarthritis.

(The following sessions run consecutively within this program.)

Back Pain and Osteoarthritis as Secondary Disabilities of Lower Limb Amputation (C20-A)

Eva Proebsting, Dipl.-Ing (FH)

It is often assumed that leg amputations result in a greater risk of degenerative changes to the locomotor system. Therefore this paper analyzed the extent to which this assumption is supported by the scientific literature. In particular, the study analyzed the level of risk of back pain and osteoarthritis in amputees and how to reduce this risk.

Low Back Pain Intensity Predicts Dynamic Balance Task Performance Among Individuals with Lower-limb Loss (C20-B)

Emma Beisheim, PT, DPT, MS

This presentation evaluates the association between low back pain intensity and performance on two dynamic balance tests: the Functional Reach Test (FRT) and the Four-Square Step Test (FSST), among individuals with unilateral lower-limb loss.

A Cross-Sectional Study of Vestibular Dysfunction in Unilateral Lower Limb Amputees (C20-C)

Jennifer Lučarević, PT, PhD(c), DPT

The vestibular system provides critical information to keep the body upright during static and dynamic tasks. To understand the prevalence of vestibular dysfunction a cross-sectional sample of community ambulators with unilateral lower limb amputation were tested using the video head impulse test. The relationship between vestibular dysfunction, falls, balance performance, and balance confidence are described in this study.

Upper-Limb Orthoses Free Paper Session (C21)

4:10 – 5:00 PM

Join your colleagues for the top-scoring upper-limb orthotic free papers. *(The following sessions run consecutively within this program.)*

Myoelectric Elbow-Wrist-Hand Orthosis with Active Grasp for Patients with Stroke: A Case Series (C21-A)

Eric Shoemaker, MS, CPO

This presentation is a case series discussing two patients fit with the MyoPro 2 Motion G. Functional tests were administered and measures were taken before and after fitting.

Use of Externally-Powered Orthosis to Address Complexities Associated with Bilateral Brachial Plexopathy (C21-B)

Cassandra Delgado, MSPO, CO

Debra Latour, OTD (c), MEd, OTR/L

Regaining function after severe brachial plexus injuries remains a difficulty to many individuals. Review a case study which takes a unique look at advances in orthotic technology, while emphasizing the need for a healthcare team approach for increased success and satisfaction.

Upper-Limb Orthotics: Choosing an Outcome Measure for Patients Wearing a Myoelectric Elbow-Wrist-Hand-Finger-Orthosis (C21-C)

Jonathan Naft, CPO

Hear options to collect outcomes from patients wearing upper extremity myoelectric orthoses.

Poster Session

4:00 – 5:00 PM

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Exhibitor Sponsored**HAPPY HOUR**

5:00 – 6:00 PM

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SEPT. 26-29 | VANCOUVER | CANADA

PASSPORT  INNOVATION**SATURDAY**

SEPTEMBER 29, 2018

Breakfast

7:00 AM

Breakfast will be available to attendees prior to the general session.

General Session (GS3)

7:15 – 8:30 AM

Orthotics 2020 followed by a presentation with Mike Schultz, Paralympic Gold Medalist

Coffee Break in Exhibit Hall

8:30 – 10:00 AM

Take advantage of this time to:

- Meet with exhibitors
- View and Learn about new product and service offerings from around the world
- Participate in Product Preview Theater Presentations
- Network with attendees

Exhibit Hall Open

8:30 AM – Noon

Advances in Upper-Limb Control Technologies (C22)

10:00 – Noon

Levi Hargrove, PhD
Matt Wernke, PhD
Aadeel Ackhtar, PhD
Blair Lock, MS

This symposium will provide an overview of recent advances in technology for myoelectric control of upper-limb prostheses including: virtual reality tools for pre-prosthetic training and phantom limb pain treatment, targeted muscle re-innervation for improved control, pattern recognition for intuitive control of multiple degrees of freedom, EMG instrumented liners, and additive manufacturing techniques to create lower cost terminal devices.

Shining a Light on the Role of Spasticity in Diplegic Cerebral Palsy Part 1 (C23)

10:00 – Noon

Beverly Cusick, PT, MS, NDT, COF/BOC

Discuss findings by researchers that question the definition and challenge

the common notion that if spasticity is present; it causes contracture formation and gait pathology in children with diplegia, and that it is a suitable target for “spasticity reducing” interventions. We will discuss the confusion over the difference between increased tone and hyperreflexia; challenges to the validity of the Modified Ashworth Scale and the Modified Tardieu Scale as spasticity tests. The program will conclude with a presentation of several science-based management strategies for children with diplegic cerebral palsy and suggestions for clinical research involving clinicians in orthotics and associated rehabilitation team members.

How the Functional Lower-Limb Amputee Gait Assessment can Improve Rehabilitation Prescription and Patient Outcomes (C24)

10:00 – Noon

Robert Gailey, PhD, PT
Ignacio Gaunard, PhD, MSPT

Observational gait assessment (OGA) is the most common method of assessing gait deviations when aligning a prosthesis or determining physical limitations that requires gait training. Traditional prosthetic gait assessment systems outline numerous “prosthetic causes” or “amputee causes”, often referred to as observable gait deviation(s). Traditional descriptions for observable gait deviation may be too complex and list prosthetic causes that are no longer relevant. Over the past several years our clinical research team have developed a systematic method of gait assessment and treatment for lower limb amputees.

Shining a Light on the Role of Spasticity in Diplegic Cerebral Palsy Part 2 (C25)

1:00 – 3:00 PM

Beverly Cusick, PT, MS, NDT, COF/BOC

This symposium will spark a conversation among clinicians regarding the validity of the spasticity paradigm and the effectiveness and risks of common related interventions.

EDUCATION PROGRAM

PEDORTHIC

Don't miss this intriguing pedorthic education program which begins on Wednesday, September 26 with a full day of Manufacturers' Workshops. This year's focus is the top-ten insights for making and keeping your pedorthic practice successful. Discussions also include diagnosing and treating rare diseases, as well as research and outcomes.

The 2018 National Assembly 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 26, 2018

Manufacturers' Workshops

8:00 AM – 5:00 PM

See page 27 for details on Manufacturers' Workshops.

THURSDAY SEPTEMBER 27, 2018

Breakfast

7:00 AM

Breakfast will be available to attendees prior to the general session.

General Session (GS1)

7:15 – 8:30 AM

Opening Keynote with Tobie Hatfield followed by the Thranhardt Lectures.

Coffee Break in Exhibit Hall

8:30 AM – 10:00 AM

Exhibit Hall Open

8:30 AM – 5:00 PM

Top-Ten Insights for Making and Keeping Your Pedorthic Practice Successful—Part 1 (P1)

10:00 AM – Noon

Learn the top-ten strategies, solutions, ideas and answers to your most commonly asked questions. The top -ten series will give you the fast facts you need to improve your pedorthic patient care. *(The following sessions run consecutively within this program.)*

Insight 1—The Pendulum Swings for Pedorthics; So Many Things Have Changed-REALLY? (P1-A)

Dennis Janisse, CPed

The pedorthic profession has seen rapid changes over the last decade. Join this insightful session for a review of what's new and what's on the horizon.

Insight 2—Pedorthic Education/Associate Degree (P1-B)

Chris Costantini, CPed

Discuss education for pedorthic certification.

Insight 3—Update on Medicare and Therapeutic Shoes for Diabetics (P1-C)

Joe McTernan, Director of Reimbursement Services and Education, AOPA

This session will provide an update on the recently introduced HCPCS code for custom fabricated, direct milled, diabetic inserts (K0903). Discussion will include the status of the PDAC code re-verification process, reimbursement for K0903, and a review of the current LCD and Policy Article governing Medicare coverage of diabetic shoes and inserts.

Lunch/Exhibits

Noon – 1:30 PM

Top-Ten Insights for Making and Keeping Your Pedorthic Practice Successful—Part 2 (P2)

1:30 – 5:00 PM

Don't miss part 2—**Making and Keeping Your Pedorthic Practice Successful**. *(The following sessions run consecutively within this program.)*

Insight 4—Really Understanding What You are Treating, X-Rays Tell the Inside Story (P2-A)

Teresa Alpert, CO, CPed

Understanding the anatomy of the foot from the view of an X-Ray can help us as pedorthist and orthotist achieve better outcomes. Just as you can't always judge a book by its cover, you can't always determine the root cause of the problem without verification from the X-Ray. Using this information can help you determine what type of orthotic modality to use. Understanding the orientation of the X-Ray will give you confidence to converse with the physician and the patient about the efficacy of your Pedorthic treatment. Together we will review case studies and discuss intended protocols for treatment.

Insight 5—Fabrication: In-house vs. Central Fab (P2-B)

Jeremy Janisse, CPed, COA

Deciding whether to use central fabrication or in-house production is a complex decision. This discussion will outline many of the important factors you should consider when making this decision.

Break

3:15 – 3:30 PM

Insight 6—Modifiable Premades (P2-C)*Erick Janisse, CO, CPed*

In today's seemingly ever-changing healthcare reimbursement landscape, there is a growing need for lower cost alternatives to expensive custom devices when patients lack insurance coverage. Prefabricated foot orthoses is one area where there is a wide variety of available options and many can be customized for better outcomes.

Insight 7—Certification/Accreditation; What does it Mean to the Pedorthist (P2-D)*Jim Lawson*

Receive an update from the American Board for Certification in Orthotics, Prosthetics and Pedorthics on becoming certified, renewing your certification and/or having your patient care facility accredited.

Poster Session

4:00 – 5:00 PM

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6:30 – 9:30 PM

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FRIDAY

SEPTEMBER 28, 2018

Breakfast

7:00 AM

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General Session (GS2)

7:15 – 8:30 AM

The Friday morning General Session will include an awards ceremony as well as an interesting update from the International Society of Prosthetics and Orthotics on the new WHO Standards for P&O.

**World Health Organization****Coffee Break in Exhibit Hall**

8:30 – 10:00 AM

Exhibit Hall Open

8:30 AM – 6:00 PM

Top-Ten Insights for Making and Keeping Your Pedorthic Practice Successful—Part 3 (P3)

10:00 AM – Noon

Join your colleagues for part 3 of this insightful program. *(The following sessions run consecutively within this program.)*

Insight 8—Technology and its Place in a Pedorthic Practice (P3-A)*Jonathan Fogg*

Learn about the various tools in technology that can help influence some pedorthic practices in an orthotic setting.

Insight 9—Clinical/Retail Settings Products (P3-B)*Erick Janisse, CO, CPed*

Within the pedorthic community there seems to be an immortal debate about the virtues of so-called clinical pedorthics versus retail pedorthics. In this session, we will look at both of these supposed sub-specialties and demonstrate how blurry the lines truly are and what one can learn from the other.

Lunch/Break in Exhibit Hall

Noon – 1:30 PM

Top-Ten Insights for Making and Keeping Your Pedorthic Practice Successful—Part 3 (P3 Cont'd.)

1:30 – 2:30 PM

Insight 10—Record Keeping: Electronic vs. Manual (P3-C)*Speaker to be Announced*

Accounting is a necessary function for any business. All businesses must keep a record of their income and expenses, and the records should be as detailed as possible. For some, the idea of spreadsheets, general journal books and ledger sheets is frightening. For these people, computerized accounting could be a welcome relief.

Prevention, Diagnosis and Management of Common and Rare Conditions (P4)

2:00 – 5:00 PM

Staying up to date on the latest treatment methodologies includes diagnosis and management. (The following sessions run consecutively within this program.)

Preventing the Destruction of the Diabetic Foot: IDF Clinical Practice Recommendations and Guidelines on Protecting the Diabetic Foot (P4-A)*Katia Langton, DC, CPed (C), CPed*

Diabetic wounds fall into three categories: neuropathic, ischemic, and neuroischemic. Knowing the distinct features of each wound category is essential to identifying wound progression, infection, and healing. Failure to properly identify the type of wound that exists can lead to an ineffective diabetic wound treatment plan, causing long-term complications or amputation.



Managing Hanson’s Disease (P4-B)

Charles Kuffel, MSM, CPO, LPO, FAAOP

With early diagnosis and treatment, Hansen’s disease (also known as leprosy) can be cured. It was once feared as a highly contagious and devastating disease, but now we know it doesn’t spread easily and treatment is very effective. However, if left untreated, the nerve damage can result in crippling of hands and feet, paralysis, and blindness.

Poster Session

4:00 – 5:00 PM

Visit the new e-learning lounge. Electronic research posters will be on display throughout the day on Thursday and Friday. The Assembly has dedicated time for you to meet with researchers and learn more about their research. *Check the online schedule for a full list of poster presentations and their schedule.*

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SATURDAY

SEPTEMBER 29, 2018

Breakfast

7:00 AM

Breakfast will be available to attendees prior to the general session.

General Session (GS3)

7:15 – 8:30 AM

Orthotics 2020 followed by a presentation with Mike Schultz, Paralympic Gold Medalist

Coffee Break in Exhibit Hall

8:30 – 10:00 AM

Exhibit Hall Open

8:30 AM – Noon

Research in the Pedorthic World (P5)

10:00 AM – Noon

Learn the latest research from our distinct line up of speakers. *(The following sessions run consecutively within this program.)*

Importance of Research in the Pedorthic World (P5-A)

Geza Kogler, PhD, CO

Join the discussion to demonstrate the efficacy of pedorthic treatment.

The Effects of Textured Foot Orthotics on Lower Limb Muscle Activity in Parkinson’s Disease (P5-B)

Kelly Robb, CPed (C), MSc, PhD Candidate

Why does texture matter? In hopes to address this question, this presentation will begin with a review of mechanoreceptor anatomy, relevant neural pathways, and explain the future of somatosensory integration in orthotic fabrication. A brief literature review will highlight the current understanding of the somatosensory system’s role in balance and gait. Find out if orthotics, with and without a textured top cover, could improve lower limb muscle activity in individuals with Parkinson’s disease.



Classifying Sitting, Standing and Walking Using Only Plantar Force Data: Establishing Objective Evidence for Weight-Bearing Activities as a Risk Factor for Plantar Fasciitis (P5-C)

Michael Ryan, PhD, CPed (C)

The absence of an accurate way to assess time spent in selected workplace postures has compromised clinical trial monitoring, that in turn results in insufficient evidence for public health stakeholders to base policy decisions. Therefore, the aim of this presentation is to classify common workplace postures (sitting, standing and walking) through a low-cost and commercially feasible insole system. We present classification accuracy, error rate, sensitivity and specificity outcomes, as well as next steps in the deployment of this novel device.

Does the CNC Milling Method Offer Effective Custom Foot Orthoses Compared to the Traditional Vacuum Molding Method? (P5-D)

Jinsup Song, DPM, PhD

Two pairs of CFOs fabricated using vacuum molding and CNC direct milling will be compared in 20 healthy subjects with moderate pes planus (RCSP>5 deg. valgus). Both pairs will be shaped identically to a pair produced using the Vertical Foot Alignment System (VFAS), which has previously demonstrated a greater comfort and better off-loading than CFOs produced via traditional Plaster of Paris casting and 3D laser scanner.

Lunch on your own

Noon – 1:00 PM

Workshops

1:00 – 5:00 PM

EDUCATION PROGRAM

TECHNICAL

WEDNESDAY SEPTEMBER 26, 2018

Manufacturers' Workshops

8:00 AM – 5:00 PM

See page 27 for details on Manufacturers' Workshops.

THURSDAY SEPTEMBER 27, 2018

Breakfast Breakfast will be available to attendees prior to the general session.
7:00 AM

General Session (GS1)

7:15 – 8:30 AM

Opening Keynote with Tobie Hatfield followed by the Thranhardt Lectures.

Coffee Break in Exhibit Hall

8:30 AM – 10:00 AM

Technical Fabrication Contest

A Modular Approach to Dynamic Bracing (T1)

10:00 – 11:00 AM

Scott Wimberley, CTPO, CPA
Greg Mattson, CTPO

This session will provide you with an understanding of dynamic bracing and design principles, as well as an overview of casting, modification and the fabrication process.

Advanced Lamination Techniques in Orthotic Fabrication (T2)

11:00 AM - Noon

Jacob Keough, CO

Learn methods of laminating Lower Extremity Orthotic devices that will allow you to better incorporate the use of composite materials in your designs. Proper model preparation, layups, material selections, and finishing methods will all be discussed.

Lunch in Exhibit Hall

Noon – 1:30 PM

Technical Fabrication Contest

Proven Fabrication Techniques Over Rigid Foam Positive Models (T3)

1:30 – 2:30 PM

Alex Brett, RTPO(c)
Pat Myrdayl, RTPO, FGBC

The techniques presented have been compiled from our personal experience, as well as tips received from many other fabricators. Whether you are fabricating successfully over foam or simply thinking about the future, come join the discussion!

Future Tech! Emerging Technologies in O&P (T4)

2:30 – 3:00 PM

Steve Hill, CO, BOCO

In this annually updated presentation, we will discuss many of the latest emerging technologies. 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. This year's topics will include smart materials, flexible glass, brain implants, gene therapy as well as updated information on 3D printing and more will be discussed. Participants will gain an understanding of some of the newest and emerging technologies.

Break

3:00 – 3:15 PM

Blood In Custom Laminated Sockets: More Than Just A Freckle? (T5)

3:15 – 4:00 PM

Joanna Kenton, CPO, LPO

Production of goods and items often contain contaminants which in large quantities could be detrimental to the consumer. So how about in the prosthetic industry where each device is customized and lovingly made by hand? A technician may knick their hand or have a dry cuticle and before it's even realized, a small smear of blood penetrates the fabric as it's being prepared for lamination. Blood does not laminate. If the lay-up is continued and laminated—what happens to the chemical make-up of the blood? Are technicians aborting the process and starting over? Or are they continuing regardless and the socket becomes delivered despite best practices? What are the legal and ethical concerns over this?

"Finding Your Way" Developing and Utilizing Standards in the Fabrication Setting (T6)

4:00 – 5:00 PM

Scott Wimberley, CTPO, CPA
Greg Mattson, CTPO

Learn about a lean approach to process control. Attendees will receive the following information through powerpoint presentation and hand out materials: Value, Benefits, Processes for Developing Standards, and Visual Examples Specific to O&P.

**PARTY WITH
A PURPOSE**



6:30 – 9:30 PM

THURSDAY SEPTEMBER 27, 2018

Reserve your ticket for the **2nd Annual Party With a Purpose**. Tickets must be purchased separately but can be reserved in advance. Space is limited, so reserve your tickets in advance.

FRIDAY

SEPTEMBER 28, 2018

Breakfast

7:00 AM

Breakfast will be available to attendees prior to the general session.

General Session (GS2)

7:15 – 8:30 AM

The Friday morning General Session will include an awards ceremony as well as an interesting update from the International Society of Prosthetics and Orthotics on the new WHO Standards for P&O.



Coffee Break in Exhibit Hall

8:30 – 10:00 AM

Exhibit Hall Open

8:30 AM – 6:00 PM

Getting Your Feet Wet with O&P 3D Printing! (T7)

10:00 AM – Noon

Enjoy a full day of sessions designed to give participants the background needed to go from scan to printed device.

Welcome and Opening Remarks (T7-A)

Steve Hill, CO, BOCO

Overview of 3D Printing (T7-B)

Jeff Erenstone, CPO
Nick Dechev

Receive a summary of adaptive manufacturing technologies and examples of how 3D printing and CAD can be used in efficient workflows.



Lunch in Exhibit Hall

Noon – 1:30 PM

Scanning and CAD Software Round Ribbon (T8)

1:30 – 3:00 PM

Various Speakers

We've invited representatives from all the major scanning manufacturers to share the latest and greatest in scanning and CAD software, including Omega, Standard Cyborg, Create O&P, Vorum, Bioscaptor, Rodin4D, Provel, and TechMed.

Break in Exhibit Hall

3:00 – 3:45 PM

CAE, CAM, and Printing Workshop (T9)

3:45 – 5:00 PM

Speakers to be announced

Receive an introduction of Meshmixer with links for follow-up video viewing on Youtube and detailed explanation of slicer (CAM) software.

SATURDAY

SEPTEMBER 29, 2018

Breakfast

7:00 AM

Breakfast will be available to attendees prior to the general session.

General Session (GS3)

7:15 – 8:30 AM

Orthotics 2020 followed by a presentation with Mike Schultz, Paralympic Gold Medalist

Coffee Break in Exhibit Hall

8:30 – 10:00 AM

Exhibit Hall Open

8:30 AM – Noon

Advanced Prosthetic Fabrication Techniques (T10)

10:00 AM – Noon

Caroline Sylvestre

Learn advanced fabrication for techniques for prosthetics.

3D Printing Recap & Roundtable (T11)

Jeff Erenstone, CPO (Moderator)

Attendees will review printed devices and will be able to question industry experts on practice & practicality.



SEPT. 26-29 | VANCOUVER | CANADA

PASSPORT TO INNOVATION

Exhibitor Sponsored

HAPPY HOUR

5:00 – 6:00 PM

FRIDAY SEPTEMBER 28, 2018

Join conference participants as we celebrate the success of another

day of great learning and growing! Continue to network with your fellow cohorts and healthcare professionals in the Exhibit Hall. The Happy Hour is hosted by exhibitors. A list of participating exhibitors 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.*



MANUFACTURERS' WORKSHOPS

The AOPA National Assembly provides a variety of clinical education including workshops. Choose from over 34 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.

WEDNESDAY SEPTEMBER 26, 2018

TIER A

8:00 AM – Noon | 4 Hour Workshops

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

Toe Walking Intensive

Sponsor: Cascade Dafo Inc.

The NEURO SWING AFO. Scientifically Grounded Technology for the Orthotic Management of Neurological Disorders.

Sponsor: FIOR & GENTZ GmbH

Latest Developments in Upper (8:00–10:00 am) and Lower (10:00 am–12:00 pm) Limb Technology from Össur

Sponsor: Össur Americas Inc.

Are You Falling Behind? Can Modern CAD/CAM Tools Help?

Sponsor: Vorum

CAD Modification Design Essentials

Sponsor: WillowWood

TIER B

8:00 – 10:00 AM | 2 Hour Workshops

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

BOC Standards and Compliance: The Bottom Line in Performance Improvement

Sponsor: Board Of Certification/ Accreditation (BOC)

Complete K2 Transfemoral Solution from College Park

Sponsor: College Park Industries

The Latest Product Introductions from Freedom Innovations

Sponsor: Freedom Innovations LLC

iFIT Trans-tibial Prosthesis Workshop—Immediate Fit, Innovative Technology

Sponsor: iFit Prosthetics LLC

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

Sponsor: LegWorks

Live Life UnLIMited—The Latest Innovations for TF and TT Amputations

Sponsor: LIM Innovations

TIER C

10:30 AM – 12:30 PM | 2 Hour Workshops

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

Using Controlled Ankle Mobilization and Alignment to Improve Gait Function with the Triple Action Ankle Joint

Sponsor: Becker Orthopedic Appliance Co.

Trans-tibial, High-Activity Assessment and Alignment

Sponsor: Fillauer

The End of Rigid Sockets—Socket-less Socket's™ for all Amputation Levels

Sponsor: Martin Bionics Innovations Inc.

Making the Right Decisions on Mechatronic Technology for your Patients

Sponsor: Ottobock

Thuasne USA Spinal Bracing Workshop

Sponsor: Townsend Design (Thuasne USA)

TIER D

1:00 – 3:00 PM | 2 Hour Workshops

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

Coapt Pattern Recognition: Revolutionizing Control in Upper Limb

Sponsor: Coapt LLC

A Modular Approach to Dynamic Bracing

Sponsor: Fabtech Systems LLC

Functional Finger Prostheses: Population, Impact, Outcomes

Sponsor: Naked Prosthetics

I Can! Enhancing Quality of Life Through Effective Orthotic Intervention

Sponsor: Surestep

WillowWood One Socket System

Sponsor: WillowWood

TIER E

1:00 – 5:00 PM | 4 Hour Workshops

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

Socket Selection Criteria and Alignment Considerations

Sponsor: Alps South LLC

Stance Control Orthotic Application in Chronic and Acute Patient Applications

Sponsor: Becker Orthopedic Appliance Co.

Motion Control Upper Extremity Components with TASKA® Certification

Sponsor: Motion Control, a division of Fillauer

Updates from Ottobock

Sponsor: Ottobock

Complex Lower Extremity Patients: Townsend KO, KAFO & AFO Workshop

Sponsor: Townsend Design (Thuasne USA)

TIER F

3:30 – 5:30 PM | 2 Hour Workshops

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

Reimaging the Order Platform for Custom Devices

Sponsor: Cascade Orthopedic Supply Inc.

3D Printed Definitive Sockets and Protective Covers Are Here and Now

Sponsor: Friddle's Orthopedic Appliances Inc.

Advanced Scanning Technologies to Enhance Clinical Care Procedures for Infants with Skull Deformities

Sponsor: Orthomerica Products Inc.

Functional Healing by Össur; Featuring the Rebound®PCL & the Rebound® Cartilage

Sponsor: Össur Americas Inc.

AFO by CAD/CAM in a record time with Rodin4D

Sponsor: Rodin4D

SATURDAY SEPTEMBER 29, 2018

TIER G

1:00 – 5:00 PM | 4 Hour Workshops

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

Evolving Orthotic Interventions: Optimize Pediatric Outcomes

Sponsor: Allard USA Inc.

Orthotic Management of the Lower Extremity

Sponsor: OHI - Orthotic Holding Inc.

2018 ABC Update: What Does the Future Look Like? Best Business Practices, Successful Strategies, and Privileging Changes All While Remaining Compliant

Sponsor: ABC

Presentation Concludes at 2:30 PM

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 manufacturers the opportunity to showcase their products in a high-energy setting. PPT's scheduled presenters include:



Allard USA Inc.

- The Diversity of the Allard AFO



Cypress Adaptive

- Improved Clinical Outcomes with Consistent Successful Socket Fit Via Full Weight Bearing Hydrostatic Casting Technique



Freedom Innovations

- The Latest Product Introductions from Freedom Innovations
- The Latest Product Introductions from Freedom Innovations Part 2



LegWorks

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



LIM Innovations

- The Latest from LIM Innovations®



Martin Bionics Innovations

- The End of Rigid Sockets—Socket-less Sockets™ for all Amputation Levels



Myomo

- Introduction to MyoPro



Naked Prosthetics

- Functional Partial Finger Solutions



Nymb Systems

- Nymb Systems—Your New Practice Management Solution



OPIE Software

- OPIE Purchasing & Inventory: Closing the Loop Between Requesting and Receiving



“The effort that goes into driving traffic through the exhibit hall ... it really makes a difference!”



Össur Americas Inc.

- Advanced Solutions for Upper Limb Loss and Deficiency
- Össur's newest OA and Injury Solutions: Rebound Post-Op Knee, Unloader One Lite Miami LSO, and Formfit Pro Line
- Seal-In X Liner Technology: Three new movable seals and LCode



Ottobock

- Latest Ottobock Advancements



RUSH Foot

- Improving Lives Through Innovation



Surestep

- What in the “Heel” Do They Feel?
- Improve Balance, Reduce Fall Risk: Introducing the Surestep Balance Brace



TechMed 3D

- TechMed 3D Updates

NATIONAL ASSEMBLY SPECIAL EVENTS

Make sure your busy National Assembly schedule includes time for these fun networking events.



TUESDAY SEPTEMBER 25, 2018

Pre-Show Contemporary Overview of Lower-Limb Prosthetic Impression Techniques Workshop

1:00- 5:00 PM

While we all have our own negative impression technique for lower-limb prosthetics that meet the needs of our particular patient population, it is good to know what other techniques are available and to refresh our skills. This hands-on course will review a variety of impression taking techniques (Plaster & Scanning) from experienced clinicians focusing on four distinct levels of amputation (Long Trans-tibial, Short Trans-tibial, Long Transfemoral & Short Transfemoral). For each level, the live demonstration will cover seasoned and innovative techniques that can help every clinician broaden the clinical skills. *Attendees must pre-register by selecting this course on the registration form. Tickets are \$75 per person. Space is limited.*

WEDNESDAY SEPTEMBER 26, 2018

Thranhardt Golf Classic Furry Creek Golf and Country Club

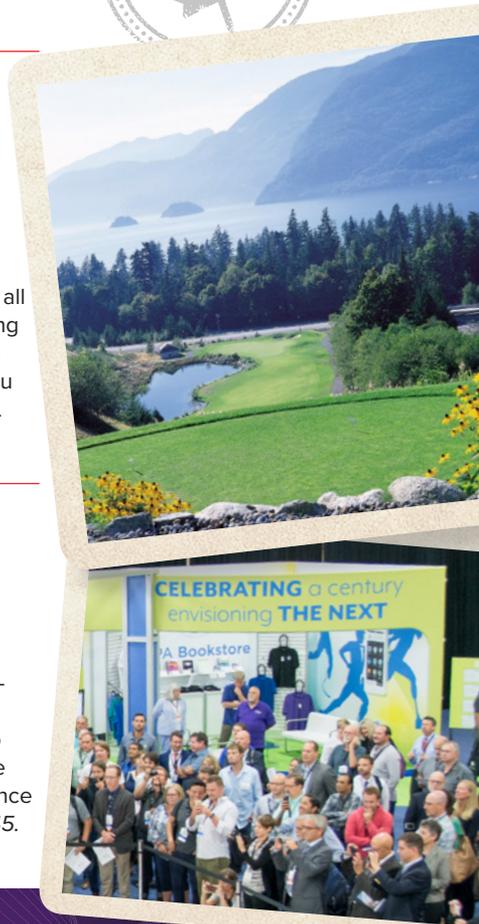
1:00 – 5:00 PM

Furry Creek is known as “British Columbia’s Most Scenic Golf Course”—and for good reason. Surrounded by the sparkling Howe Sound Bay, towering aged trees and snow peaked mountains, Furry Creek encompasses what British Columbia is all about. Whether you’re an International Guest looking to experience the beauty of the province, or a local resident reminding yourself why you love where you call home—Furry Creek has something to offer you. Buses depart Convention Center at noon.

Welcome to VANCOUVER Grand Opening Reception

5:30 – 7:30 PM

Welcome to Vancouver is the grand opening reception of the 2018 AOPA National Assembly. View all the event has to offer as exhibitors welcome you to this beautiful city. Refreshments will be served. The Welcome Reception is included in your full conference registration. *You can purchase a guest ticket for \$45.*



WE CORDIALLY INVITE
YOU TO ATTEND

SEPTEMBER 27

6:30-9:30 PM

That Seventies Bar

a.k.a. Convention Center
Level 3-Summit

Enjoy a night of 70s soulful tunes, dinner, a silent auction, a disco dance off, and much more. Be there or be square.

You are not required to wear your best

70s threads, but we hope you will!



THURSDAY SEPTEMBER 27, 2018

Party with a Purpose

6:30 – 9:30 PM

Reserve your ticket for the 2nd Annual Party With a Purpose. Come re-live the fun, wild and groovy decade that was the 1970’s at That Seventies Bar (Vancouver Convention Center Level 3). Enjoy a delicious dinner, disco dancing, soulful tunes and beautiful harbor views. Since this event is a fundraiser for AOPA’s government relations programs, certain rules may apply. *Tickets must be purchased separately but can be reserved in advance. Space is limited, so be there or be square.*



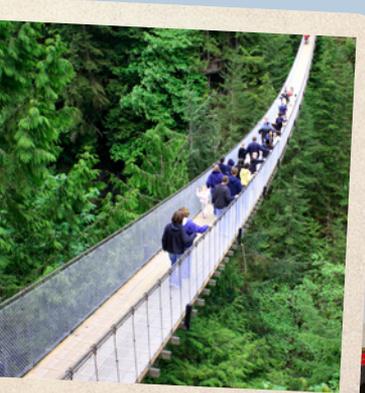
THURSDAY AND FRIDAY

SEPTEMBER 27 & 28, 2018

Poster Session

4:30 – 5:30 PM

Visit the new e-learning lounge. Electronic research posters will be on display throughout the day on Thursday and Friday. The Assembly has dedicated time for you to meet with researchers and learn more about their research. Check the online schedule for a full list of poster presentations and their schedule.



FRIDAY SEPTEMBER 28, 2018

Professional Women of O&P Celebrating Success

8:45 – 9:45 AM

Women registering as full conference attendees for the 2018 National Assembly are invited to join us for a special event for women at this year's Assembly. The 2017 Planning Committee has organized a program to offer all women working in the OP profession a casual networking brunch and the opportunity to learn from successful women in O&P.

Space is limited. Confirm your participation on the Assembly registration form by checking the designated box under Special Events: Professional Women of O&P

YES, I will attend.

For more information contact Betty Leppin at bleppin@AOPAnet.org or call 571-431-0876. A special thanks to our sponsors, Hanger Clinic and Townsend Design (Thuasne USA).



FRIDAY SEPTEMBER 28, 2018

Exhibitor Sponsored

HAPPY HOUR

5:00 – 6:00 PM

Join conference participants as we celebrate the success of another day of great learning and growing! Continue to network with your fellow cohorts and healthcare professionals in the Exhibit Hall. The Happy Hour is hosted by exhibitors. A list of participating exhibitors 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.*

EASY DAY TRIPS AND TOURS IN VANCOUVER!

Join us for the 2018 AOPA National Assembly in Vancouver, BC, Canada, September 26-29 and take advantage of the wonderful location to take easy daytrips and tours of the region. AOPA has partnered with Landsea Tours & Adventures to offer AOPA Assembly attendees, and their travelling companions, special rates on sightseeing tours of Vancouver and the surrounding areas. Landsea is offering 7 different tours, from a four-hour tour of Vancouver city highlights, to longer trips to Capilano Suspension Bridge Park, Whistler, Victoria, the Sea to Sky Gondola, and more. Visit vancouver-tours.com/aopa2018 for tour options. Don't forget to renew your passport if necessary!

Show Your Badge for Exclusive Discounts!

Assembly attendees can receive exclusive discounts at many attractions, sightseeing tours, shops, spas, transportation, tours and restaurants for showing their badge. *(Please note that some offers are only available if you book in person at Tourism Vancouver's Visitor Centre.)* Learn more at www.tourismvancouver.com/meetings/plan/show-your-badge/.

Discounts are offered at some of the top attractions that are close by and easy to get to, including:

- Private Tours and Charters
- Capilano Suspension Bridge Park
- Whale Watching
- Bicycle Tours
- Grouse Mountain-The Peak of Vancouver
- Harbour Cruises & Events
- A plethora of Restaurants, Museums and more



Alumni CONNECTION

Alumni Connection

When completing your National Assembly 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.)

Any school Alumni wishing to organize an event should contact assembly@AOPAnet.org.

- Thursday, September 27 at 5:00 PM— University of Washington Alumni Connection event



Below Knee Prosthesis

NAME	TIME #1	TIME #2	TIME #3
J. James CP	39:41		
Cody Fuller student	41:01		
MAURER, A student	44:58	42:17	57:41
Tara Jones student	1:03:01		
JAMES HAMILTON TECH	DNF		
CHRISTOPHER WEBER		36:66	35:20
GORDON JOCKMAC			
PANKAJ SINGH -			
JOHNSON WANG			
TONY WARD			
OLIVER MAULICE			
JEFF HEIDEN			
Darrell Jones			
Matt MAURER			



CONTESTS

TECHNICAL FABRICATION CONTEST

Start practicing! This year's technical fabrication contest will feature a timed competition on the exhibit hall show floor.

Sign up, Strut your stuff and show the profession that you are the best technical fabricator in the O&P profession. Winners receive – Bragging Rights and cash prizes. There is no charge to participate.

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



Step It Up CHALLENGE

Register for the Free Step It Up Challenge

Participate in a 3 day Step It Up Challenge! Each day participants can track their steps via phone, separate app, fitness tracker, pedometer, etc. Participants must post a picture of their daily steps by 7:00 PM on each day in the Activity Feed of the AOPA 365 app or present their data to the Step it up race headquarters, located right outside the exhibit hall. Sign up for your chance to win daily cash prizes! *Exhibitors can participate, but do not qualify for prizes. Sponsored by MD Orthopaedics.

Play the Slap Shot Hockey Game

As you attend educational sessions, be sure to get your tokens for the slap shot game located in the exhibit hall. Test your luck and play your tokens to win fabulous prizes from exhibitors and AOPA. Sponsored by Alps South LLC.

STUDENT POSTER AWARD

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



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

The Otto and Lucille Becker Award will be presented for the best orthotic abstract submitted and the Edwin and Kathryn Arbogast Award for the best prosthetic abstract submitted by a qualifying student or resident. The associated school will also be honored as well. For complete rules and to submit your abstract, visit bit.ly/2018SRPoster.



Title Sponsors

DIAMOND



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WillowWood

PLATINUM

allard USA



endolite
A Blatchford Company



GOLD



BOC



SILVER



EXHIBITORS

Learn about the newest products and the latest technology at the 2018 AOPA National Assembly. The AOPA exhibit hall offers more exhibitors, components, devices, tools, supplies and services than any other show of its kind in the United States. Don't miss your chance to be a part of it. For the 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 2018

EXHIBITORS AS OF MAY 18, 2018

- | | | |
|--|---|--|
| Acor Orthopedic Inc. | Create O&P | OPTEC USA, INC |
| + Allard USA Inc. | Cypress Adaptive, LLC | Orfit Industries America |
| Alps South LLC | DAW Industries Inc. | Orthomerica Products Inc. |
| Alternative Prosthetic Services Inc. | DJO | Orthotic & Prosthetic Group of America (OPGA) |
| American Academy of Orthotists & Prosthetists (AAOP) | Drew Shoe Corp. | Orthotics & Prosthetics Association of India (OPAI) |
| American Board for Certification in Orthotics, Prosthetics & Pedorthics (ABC) | Endolite | OHI—Orthotic Holdings Inc. |
| American Central Fabrication | Epica Applied Technologies | Osseointegration Group of Australia |
| American Orthotic & Prosthetic Association (AOPA) | Fabtech Systems LLC | Össur Americas Inc. |
| American Prosthetic Components LLC | Farabloc Development Corp. | Ottobock |
| AMFIT INC. | + Fillauer | Paceline |
| Amputee Coalition of America (ACA) | ● FIOR & GENTZ GmbH | Pedorthic Association of Canada (PAC) |
| ● Amputee Coalition of BC Society (ACBC) | Freedom Innovations LLC | PEL |
| Anodyne | Friddle's Orthopedic Appliances Inc. | ● Procosil SRL |
| Aon Affinity | ● Generix Medical LLC | Pro-Tech Orthopedics |
| Apis Footwear Co. | iFit Prosthetics LLC | ProtoKinetics Gait Analysis Walkways |
| Aspen Medical Products | Infinite Biomedical Technologies | Protosthetics |
| Becker Orthopedic Appliance Co. | Integrum Inc. | Renia GmbH |
| BioSculptor Corp. | ● International Institute of Orthotics and Prosthetics | Rodin4D |
| Board of Certification/ Accreditation (BOC) | ● ISPO Canada | Royal Knit Inc. |
| Boston O&P | Kinetic Research Inc. | RS Print |
| ● Broadbay LLC, Streifneder Ortho Production | KISS Technologies LLC | RUSH Foot |
| Bulldog Tools Inc. | KLM Laboratories | Spinal Technology Inc. |
| Cailor Fleming Insurance | Knit-Rite Inc. | + SPS |
| + Cascade Dafo Inc. | ● LaunchPad | ST&G USA Corp. |
| + Cascade Orthopedic Supply Inc. | LegWorks | Standard Cyborg |
| Charcot-Marie-Tooth Association (CMTA) | LIM Innovations | SteeperUSA |
| Charleston Bending Brace | ● Limbs for Life Foundation | Surestep |
| Click Medical | ● Lunatik Athletiks | Tamarack Habilitation Technologies Inc. |
| Coapt LLC | Makstride Prosthetics | TechMed 3D Inc. |
| College Park Industries | Martin Bionics Innovations | ● TheraTogs Inc. |
| Comfort Products Inc. | MD Orthopaedics Inc. | Thermo-Ply Inc. |
| Coyote Design & Mfg Inc. | Medi USA | Tillges Technologies |
| | Mile High Orthotics Lab Inc. | Top Shelf Orthopedics |
| | Monetek LLC | + Townsend Design (Thuasne USA) |
| | Myomo | TRS Inc. (Therapeutic Recreation Systems Inc.) |
| | Nabtesco & Proteor in USA | Turbomed Orthotics |
| | + Naked Prosthetics | Vorum |
| | National Commission on O&P Education (NCOPE) | + WillowWood |
| | nora systems Inc. | |
| | Nymbi Systems | |
| | OPAF & The First Clinics | |
| | OPIE Software | |



DISCOUNTED RATE FOR ASSEMBLY ATTENDEES

ABOUT VANCOUVER

Vancouver is situated in South Western Canada in the province of British Columbia and lies on the coast of the Pacific Ocean where it is sheltered from extreme weather by Vancouver Island.

Known for its amazing scenery, Vancouver is a city which certainly takes advantage of its great location. Sandwiched between the Pacific Ocean and the Coastal Mountain range gives the city a stunning backdrop, whilst on the North Shore just minutes from Downtown Vancouver is the North Shore Mountain range with ski resorts and spectacular views back towards the city and beyond.



Hotel Accommodations and Reservations

National Assembly attendees are responsible for making their own hotel reservations. AOPA has reserved a block of rooms at the five hotels outlined below—all

within an easy walk from the convention center. For full details about each property, please visit www.AOPAnet.org where you can also make your reservations online.

Please note that these room blocks are being held exclusively for AOPA Assembly attendees, those booking rooms are required to register for the Assembly by August 15 or they will not be eligible for the group rate and may be subject to cancellation. Please reserve early to get your first choice property.

All rates are listed in Canadian dollar amounts. The exchange rate fluctuates daily, but has been very favorable in U.S. currency.

~~**Marriott Pinnacle Downtown**, +1 604-684-1128
1128 West Hastings Street, Vancouver, BC V6E 4R5
Convenience and modern amenities in the heart of the city center.
5 blocks from the convention center. \$263 CAD per night.
<https://book.passkey.com/e/49626399>~~

SOLD OUT

Pinnacle Harbourfront Hotel, +1 604-689-9211
1133 West Hastings Street, Vancouver, BC, V6E 4R5
4-5 blocks from the convention center. \$251 CAD per night.
<https://book.passkey.com/event/49631826/owner/2075/home>

Hyatt Regency Vancouver, +1 604-683-1234
655 Burrard St, Vancouver, BC V6C 2R7
Spacious rooms and suites with breathtaking views close to shopping and attractions; about a 7 block walk from convention center. \$293 CAD per night.
<https://book.passkey.com/go/aopa2018natlassembly>

Coast Coal Harbour Hotel, 800-716-6199
1180 Hastings Street West, Vancouver, BC V6E 4R5
A Modern High-Rise hotel featuring an upscale spa and amenities.
5-6 block walk from the convention center. \$270 CAD per night.
<https://book.passkey.com/e/49626678>

Pan Pacific, +1 604-662-8111
300 – 999 Canada Place, Vancouver, BC V6C 3B5
Experience the best that Vancouver has to offer, surrounded by panoramic views of the Coastal Mountains, Coal Harbour and city skyline. Located one block from the convention center. \$399 CAD per night.
<https://aws.passkey.com/go/AOPACONF>

ALASKA CRUISES

Check one off the bucket list... a scenic Alaska cruise of the Inside Passage is the perfect way to compliment your time in Vancouver! AOPA has partnered with AlaskaBySea to offer Alaskan cruise options to meeting attendees who wish to explore the area and visit Alaska before the Assembly begins. Two Holland America cruise options are available, departing from and returning to Vancouver prior to the Assembly. Located along the coast of British Columbia, the Inside Passage is the longest sheltered inland waterway in the world. Cruise passengers may see orcas and humpback whales while traveling to the Alaskan ports of Juneau, Skagway, and Ketchikan. The two cruise options available are September 19-26 or September 15-22. The Assembly begins on Wednesday, September 26, at 8:00 AM, with a full day of manufacturers' workshops. The Exhibit Hall opens that evening. Exhibitors can begin setting up their booths on Tuesday, September 25. Visit AOPA's website at www.AOPAnet.org to view the schedule for the seven-day cruise and additional details.



Day trips and Tours

Take advantage of the amazing location by touring Vancouver and the surrounding areas. AOPA has partnered with Landsea Tours & Adventures to offer AOPA Assembly attendees and their traveling companions special rates on sightseeing tours of Vancouver and the surrounding areas. Landsea is offering seven different tours, including a four-hour tour of Vancouver's city highlights, and longer trips to Capilano Suspension Bridge Park, Whistler, Victoria, the Sea to Sky Gondola, and more. The special rates are available between September 22 and October 1. Private tours also are available. Browse the tour options at vancouver tours.com/aopa2018.

Refer a Friend Program and You Both Win a

FREE AOPA POLO-SHIRT

How it Works

Offer valid with pre-registrations received before September 14, 2018.

1. AOPA Membership is not required to participate.
2. The referred friend must be a new AOPA Assembly attendee, or not in attendance in the last 3 years (or since 2014).
3. The person making the referral and the new attendee are eligible for the free gift, valued at \$30.
4. Redeemable tickets will be made available at the registration desk.
5. Recipients must appear in person to receive their gift at the AOPA booth, #302.
6. One shirt per person, while supplies last.



Travel Information and Discounts

Air

AOPA has partnered with Air Canada for a 10% discount on some airfare for a period of travel between September 19 - October 6. Note that the code is not valid for "Economy Tango" pricing. Use code Z8RGEZB1.



Train

Make the journey part of the adventure by taking the train to Vancouver! Consider the Amtrak Cascades route between Eugene, Oregon and Vancouver, via Portland and Seattle. The approximately 4 hour journey to Seattle takes you through the beautiful scenery and may be a convenient option on the way home to take in more sights. Amtrak offers Assembly attendees a 10% discount off the best available rail fare to Vancouver, BC between September 23, 2018 – October 2, 2018. To book your reservation call Amtrak at 1 (800) 872- 7245 or contact your local travel agent. Conventions cannot be booked via Internet. Please be sure to refer to Convention Fare Code X36H-999 when making your reservation. Learn more at bit.ly/amtrakcascades.



Visa and Passport Information

US Citizens:

Canadian law requires that all persons entering Canada carry both proof of citizenship and proof of identity. A valid U.S. passport, passport card, or NEXUS card satisfies these requirements for U.S. citizens.



Other countries: Persons visiting from countries other than the United States must have a valid passport and may require other documentation such as visas. Find out if you need a Visa by visiting bit.ly/cavisainfo. Canada has implemented an entry requirement called an Electronic Travel Authorization (eTA). The eTA entry requirement applies to foreign nationals who are visa-exempt and who are boarding a plane to fly to Canada. Exceptions include U.S. citizens and travelers with a valid 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.

Registration Categories & Fees

Full Conference Registration

Fees include admission to the exhibit hall, education sessions, Welcome to Vancouver Reception, Exhibitor Happy Hour, 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 Vancouver Reception, Exhibitor Happy Hour, 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 27 through Saturday, September 29. This registration category does not include tickets for the Welcome to Vancouver 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.

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

Cancellations

To receive a refund of registration fees, a \$50 USD processing fee will be applied and a notification of cancellation must be received in writing no later than August 15, 2018. Please email any registration cancellations to AOPA at info@AOPAnet.org. No refunds will be made for cancellations received after August 15, 2018. Substitutions are allowed but must be in writing.

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