

Ohio Chapter -- AAOP
2011 Annual Spring
Workshops
and
Spring Technical Meeting
April 15-16, 2011



Hilton Hotel
at Easton Town Center
Columbus, Ohio

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The Ohio Chapter-AAOP

2011 Annual Spring Technical Meeting

*April 15-16, 2011
Hilton Hotel — Columbus.*

general sessions

7:30 – 8:45Registration, Continental Breakfast and Exhibit Hall

7:30 – 8:15Journal Club

Facilitators: Mark Shamp, CP, LP—Shamp Bionics—Akron, OH
Jeff DeNune, CP, LP—Willow Wood—Mt. Sterling, OH

8:30 – 8:45Opening Remarks

Mark Shamp, CP, President, Ohio Chapter—Shamp Bionics—Akron, OH

8:45 – 9:45Chin Up... or Chin Down

Darren “Swift” Swift—Amputees in Action—Newberry, UK

9:45 – 10:15Challenges and Solutions for Lower Limb Blast Wound Injuries

Peter Harsch, CP—Naval Medical Center — San Diego, CA

10:15 –10:45Break/Exhibits

10:45 – 11:30Sensortech Zebra-Pressure Mapping System

Randy Kelly—SensorTech—Greenville, SC

11:30 – 12:15Virtual Reality Rehabilitation for Amputees

Maurissa D’Angelo, Ph.D., Principal Engineer, Pinnacle Systems, LLC
—Beavercreek, OH

12:15 – 1:30Lunch/Exhibits and Annual Business Meeting

prosthetic break-outs

1:30 – 2:15The Prosthetic Applications on SpectraCarb Stockinette

David Garcia, L.P., L.Ped—Manuel Garcia Prosthetic and Orthotic Centers—Cleveland, OH

**2:15 – 3:00Product Development: Broadening Capabilities of
Harmony®Mechanical Pumps in Sub-atmospheric Socket
Systemwith a Vacuum Pressure Bleeder Valve**

Brad Poziembo—Dayton Artificial Limb—Dayton, OH

3:00 – 3:15Break

3:15 – 4:00Novel Applications of Virtual Reality to Rehabilitation Care

Maurissa D’Angelo, Ph.D., Principal Engineer, Pinnacle Systems, LLC
—Beavercreek, OH

4:00 – 5:00Working with VASS

Craig Mackenzie—Evolution Industries, Inc.—Orlando, FL

**orthotic
break-outs**

- 1:30 – 2:15 A New Approach to Orthotic Management of Achilles Dysfunctions**
Robert Meier, CO, BOCO, National Education Director, Allard, USA
—Rockaway, NJ
- 2:15 – 3:00 Energy Storing and Proprioceptive Balancing Characteristics in Pre-Preg Carbon Fiber AFO's**
Noel Chladek, CO—Bio-Mechanical Composites, Inc.—Des Moines, IA
- 3:00 – 3:15 Break**
- 3:15 – 5:00 New Lower Extremity Designs, Clinical Applications and Coding Suggestionsto Capture Market Share**
Joseph Whiteside—Anatomical Concepts—Poland, OH

**pedorthic
break-outs**

- 1:30 – 2:15 Custom Engineering of Energy-Storing Partial Foot Prostheses UtilizingPre-Preg Carbon Fiber**
Noel Chladek, CO, President, Bio-Mechanical Composites, Inc.—Des Moines, IA
- 2:15 – 3:00 Alternative Uses for Carbon Composite AFOs**
Robert Meier, CO, BOCO, National Education Director, Allard, USA
— Rockaway, NJ
- 3:00 – 3:15 Break**
- 3:15 – 4:00 Foot Problems Associated with Diabetes**
John Mehnert, D.P.M., Wilmington Foot & Ankle—Wilmington, OH
- 4:00 – 5:00 Dual Axis And Triaxial Advanced Posting - Clinical Trials For Chronicand Unresolved Pathologies; PTTD**
Pamela Haig, President, The Robert M. Palmer, MD Institute of Biomechanics
—Elwood, IN

**technical
break-outs**

- 1:30 –2:15 Material Identification and Bonding External Modification**
Jim McFarland, C.Ped, L.Ped, McFarland's Shoe Repair and Orthopedics
—Lakeland, FL
- 2:15 – 3:00 Transfemoral Cosmetic Foam Shapes and Covers**
Matt Williams / Bob Beatty, Willow Wood Co.—Mt. Sterling, OH
- 3:00 – 3:15 Break**
- 3:15 – 4:00 Bridging the Gap: Clinical and Technical Communications**
Carrie Melton, CPO, LPO, Clinical Director of Prosthetics, OrPro Prosthetics & Orthotics, Inc.—Dayton, OH
- 4:00 – 5:00 Endolite Service and Maintenance:Proposed Training to Technical staff**
Malcolm Owen, Technical Service & Product Specialist, Endolite—Centerville, OH
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Program

friday workshops

Otto Bock Basic Myo Course; Blended-Learning

Tim Shride, CPO, Clinical Specialist – Upper Limb
Prosthetics
*Otto Bock HealthCare – Professional &
Clinical Services – Minneapolis, MN*

Description:

This is a 2-day course with day 1 being a self-directed on-line course, and day 2 being a seated in-person workshop. Material to be covered on-line includes basic myoelectric theory; signal detection; patient evaluation and testing philosophy; criteria for appropriate selection and application of digital vs. proportional technology; function and benefits of microprocessor use in modern myoelectric systems; component selection and programming options. The day-1 on-line course is a prerequisite to participation in the day-2 workshop, and will include an examination as proof of participation. Estimated time to complete the on-line course is 5 hours.

Day 2 of this course will be a seated 8 hour workshop designed to reinforce the material presented on-line. Attendees will have the opportunity for hands-on usage of all systems and components introduced in the on-line portion of the course. This course will cover myotesting, evaluation, component selection, training and documentation utilizing the *PAULA Virtual Training Software* and *MyoBoy* hardware. We will also discuss the clinical appropriateness of the *Digital vs. DMC+*, *SensorHand Speed*, *MyoHand VariPlus Speed*; *Greifer* and *Transcarpal Hand* terminal devices. Attendance at the course as well as clinical application will promote a level of minimum competency in applying this technology.

Learning Outcomes

- Understand basic myoelectric principles including physiology of EMG, signal detection and amplification, evaluation philosophy
- Utilize suggested protocol for determination of appropriateness of prosthetic type ie cable operated or myoelectric
- Understand clinical criteria for application of different myoelectric technologies ie digital or proportional systems
- Evaluate a patient for appropriate myoelectric control
- Understand how microprocessors have improved patient outcomes
- Apply myoelectric/hybrid systems to levels of amputation from Transcarpal to Shoulder disarticulation

Needs Identification

It has been recognized that there have been many advances in the field of upper limb myoelectrics. Batteries have improved, circuitry is more sensitive, hands can take over more function for the amputee, more levels can be fit etc. These changes will bring better functioning to amputees who currently use a myoelectric prosthesis as well as the possibility of fitting to those who previously were not a candidate.

Biography:

Tim Shride, CPO is a Clinical Specialist – Upper Limb Prosthetics for Otto Bock. His responsibilities include teaching introductory and advanced courses on externally powered technology, and developing educational materials for Otto Bock Professional Clinical Services Department. Prior to joining Otto Bock, he was in clinical practice in New England and the Pacific Northwest. He is a graduate of the University of Washington with a BS in Prosthetics and Orthotics, and a current member of the Board of Directors for the Northwest Chapter of AAOP.

Custom Engineering of Energy-Storing AFOs and Partial Foot Prostheses Utilizing Pre-Preg Carbon Fiber

Noel Chladek, CO, President
Bio-Mechanical Composites, Inc. — Des Moines, IA

Description:

Clinical application of an advanced technology previously available only to the prosthetic patient population will be presented for orthotic consideration. Attendees will become familiar with the customized process of incorporating pre-preg carbon fiber in the application of a distinctive AFO design. This innovative adaptation results in creating a Dynamic Response, or energy storing device when applied to the patient. Clinical results find patients reporting a remarkable improvement in both static and dynamic proprioceptive balance.

The Dynamic characteristics achieved with the customization of carbon fiber fabrication techniques will be explained in detail to the practitioner. This process strictly adheres to FAA guidelines incorporating the quality standards of the aerospace industry into each orthosis. The combination of pressure and heat curing of the pre-preg carbon fiber provides an opportunity for the practitioner to control the produced strength of the carbon structure. This will allow the practitioner to customize the characteristics of the AFO to the specific functional deficits of the patient's pathological presentation.

The addition of being able to control a patient's lower extremity without a rigid management of a particular joint allows for the patient to continue to balance and maintain a normal biomechanical gait pattern. This is a dramatic improvement in the patient's ability to increase the time spent on the affected extremity as well as their ability to even their gait pattern and increase their speed in ambulation. Information will be provided for appropriate orthotic application based on specific functional deficits.

Each attendee will receive a slide guide matrix with casting guidelines and to aid in accurately selecting the appropriate strength resistance according to primary and secondary functional deficits.

Biography:

Noel J. Chladek, CO is a second generation orthotist with his own private practice in Des Moines, Iowa. After serving in the US Army, he attended Shelby State University and became ABC Certified in 1994. Early in his career, he was motivated by a lack of

custom orthotic designs incorporating 21st century materials used by the aeronautical and space industries. These had been introduced into the sister prosthetic industry in the 1980s. He developed a unique fabrication system, strictly adhering to FAA specifications, incorporating pre-preg carbon fiber into his lower extremity orthotic devices. These thin, ultra-light weight, custom engineered orthoses demonstrated energy storing capabilities with a dynamic response. Over the last 11 years, he established a national, specialized fabrication center dedicated to the science of incorporating carbon pre-preg into custom orthotics and prosthetics. He has presented at National, Regional and State meetings as well as private, small group tutorials.

Chladek is President of Bio-Mechanical Composites, Inc. and creator of the system of custom engineered, energy-storing AFO's and partial foot prostheses utilizing *Pre-Preg Carbon Fiber*, which are part of the family of *Phatbraces*.

Improved Outcomes Using a New Free Motion KAFO for Treatment of Blount's Disease vs. Traditional Locked Knee Designs

Joe Whiteside, CO, V.P. of Marketing and Clinical Director of R & D
Anatomical Concepts — Poland, OH

Description:

This white paper reviews the Histology and pathophysiology of Blount's disease. It will discuss the current understanding of risk factors, radiographic determination and protocol for current patients and establishing intervention using a new double upright free motion knee joint design.

One case study shows failure of traditional orthotic management followed by successful treatment with the new designs beyond the normal age and stature that currently is contraindicated when considering orthotic management. The second case study will describe success in the traditional Blount's Disease patient.

Biography:

Joe Whiteside is happily married and the proud father of two beautiful daughters. Before joining Anatomical Concepts Inc. as V.P. of Marketing and Clinical Director of R and D in October of 2009, he was a full time practitioner. After attending Northwestern Universities Orthotics Certificate Program in 1983, he was certified as an ABC Orthotist and is

licensed in the State of Ohio. He began practicing in Phoenix Arizona, and then relocated in 1992 to Warren Ohio to start an O and P practice. After his company was acquired by Hanger Prosthetics and Orthotics in 2002, he was based in Boardman Ohio as Clinical and Resident Director of Orthotics until his resignation in October of 2009. He is Past President of the Ohio Orthotic and Prosthetic Association. Joe has presented internationally, nationally, regionally and locally on various orthotic subjects.

Weight: 12st 7lbs or 86kg
 Chest: 42 or 1.07m
 Waist: 34 or 0.87m
 Collar/Neck: 17. or 0.43m
 Inside Leg: 32 or 0.81m
 Shoe Size: 10 or 45
 Hat Size: 7.125 or 58
 Hair Colour: Dark Brown
 Eye Colour: Blue
 Facial Hair: Occasional Goatee
 Disability: Left Leg Through Knee Amputation
 Disability: Right Leg Above Knee Amputation
 Disability: Right Hand Index & Middle Finger Amputations

saturday morning general sessions:

Journal Club

Mark Shamp, CP, LP, President, Ohio Chapter—
 AAOP
Shamp Bionics — Akron, OH
 Jeff Denune, CP, LP, Secretary/Treasurer, Ohio
 Chapter—AAOP
WillowWood Co.

Description:

This session will be a facilitator-led discussion of current research or practice topic in Orthotics and Prosthetics. Article to be discussed is entitled, *Research to Clinical Practice: O&P Builds the Bridge* — by Miki Fairley from <http://www.oandp.com/edge/>

Biography:

Mark Shamp, CP, LP and Jeff Denune, CP, LP, are current board members of the Ohio Chapter, and will lead the interactive discussion among attendees at the Ohio Chapter Spring Meeting Journal Club

Chin Up... or Chin Down

Darren Swifty Swift
Amputees in Action — Newbury,

Description:

This presentation is primarily a positive look at a journey of a soldier who served in the British Army and his experiences dealing with the trauma of injury from a terrorist bomb and on into his subsequent life as an amputee.

It covers the early days and weeks of rehabilitation and on through to various expeditions and adventures, finding new sports and activities that others had said could not be done by someone without legs.

Height: 4' 6 (after amputation)

Biography:

For the past 19 years, Swifty has worked as a film and TV extra / action performer, Swifty has also for the last seven years worked as a Trauma Casualty Amputee for the British Armed Forces and the Civilian Emergency Services as a member of Amputees in Action. Swifty lives in the Lake District in the North of England with my wife Sarah and our daughter Isabelle.

Swifty joined the British Army in 1982 at aged 16 and served 10 years in the Royal Green Jackets, (now 2 Rifles). However, whilst working as a Specialist Tracker Dog Handler in Northern Ireland Swifty was involved in a terrorist attack. This resulted in the loss of both of his legs and this resulted in his eventual decision to accept a medical discharge from the Army in 1992.

Shortly after his discharge Swifty decided that his passion for travel should continue, and after a few trips to other parts of the world Swifty found himself involved in a number of expeditions and other adventurous projects. This not only enabled him to travel but also to experience new sports and activities, including rafting, canoeing and hand cycling, skiing and skydiving.

Swifty's current and ongoing project is the development of a snowboard bindings system that enables him, and others with double lower limb amputations, to participate efficiently and effectively in snowboarding.

After serving ten years in the Army, Swifty became involved in a large number of other outdoor sports, activities and expeditions. As well as becoming, amongst other things, a canoeist, skydiver, jet skier, skier/snowboarder, Swifty have been working as a background artist for the last 12 years on a wide range of productions.

Swifty is a double lower limb amputee. His left leg is a thru knee amputation and the right is above knee, Swifty also has two digits missing from his right

hand—middle and index. Swifty can, when required, wear full length prosthetic legs which gives him my original height of 6' 2, but he generally use SNAPPS (Short Non Articulated Prosthetic Pylons) which allow him at 4' 6 to have full unaided mobility with or without a wheelchair.

The majority of Swifty's work has been on productions in and around London, working extensively at Pinewood and Shepperton Studios; however he has also worked widely in the Northwest including work with the Armed Forces involving casualty simulation.

Swifty has completed some stunt training and has had to use it on many occasions; he has also often been asked to use dialogue. He is always keen to attempt any challenge or request that is made of him and is willing and able to travel independently both nationally and internationally.

Swifty has done presentations all over the UK and Europe to a wide range of audiences from Primary Schools to Universities and from Disability Groups and Charities to large national and international corporations.

Challenges and Solutions for Lower Limb Blast Wound Injuries

Peter D. Harsch, CP, C5 Prosthetics Director
Naval Medical Center — San Diego, CA

Description:

Brief overview of the latest prosthetic technologies commonly used for our injured.

Case studies fitting bilateral transfemoral: focus on skin and heterotopic ossification (HO) challenges

Fitting options for advanced recreational prostheses include swim, cycling, and running legs.

Biography:

Certified Prosthetist Peter D. Harsch graduated from Arizona State University in May 1996, with a Bachelor Science degree. He attended Cal State University Dominguez Hills Prosthetic Certificate program and graduated in May 1997. After receiving his Certificate, Peter moved to Phoenix, AZ and took a residency position with NovaCare-Hanger. In June 1999 he completed his residency and became an ABC Certified Prosthetist. He continued to work as a clinician in Phoenix, AZ until January 2000. At that time Peter transferred to Denver, CO and lived in Boulder, Colorado to pursue his goal of competing in the Hawaii Ironman World Championships which he finished October, 2005. Since then he has competed and finished 11 Ironman triathlons around the world

including 3 Ironman World Championships in Kona Hawaii. In October of 2001 Peter joined Ossur North America and later became the Sr. Clinical Manager. In October of 2006, Peter joined the Naval Medical Center in San Diego as the Director of Prosthetics for C-5 (Comprehensive and Complex Combat Care Center). Also in 2006 Peter competed in the CBS reality series Amazing Race 10 where he traveled and raced around the world with eleven other teams. Peter has also been the team Prosthetist for the United States Paralympic track and field team since the 2002 and has recently accepted the position of National Team Director for the 2009 USAT ParaTriathlon team. Peter currently resides in North County San Diego.

SensorTech Zebra-Pressure Mapping System

Randy Kelly, Director of Sales
SensorTech — Greenville, SC

Description:

This session introduces SensorTech's Zebra™ Technology for measuring multiple pressure points within a Prosthetic socket. Presentation includes a brief background of the company and conductive polymer technology, followed by a power-point and hands-on demonstration of the system. In addition to quasi-static measurements, dynamic pressure changes within the socket can be viewed and recorded while simultaneously collecting gait phase data. Zebra™ provides a quantitative set of data that can be used for documentation of patient outcomes. In addition to prosthetics, Zebra™ sensor technology can be useful for orthotics and pedorthic applications.

Biography:

For SensorTech, Mr. Kelly is responsible for sales for all potential market opportunities such as medical, industrial, transportation, military, government, aerospace, etc.

Randy has over 25 years of automotive test experience with a primary focus on occupant safety while managing test facilities for TRW VSSI, Morton International and Autoliv North America. In addition to his management positions, he served as vice president of sales for eleven years with a major crash test dummy/load cell manufacturer with worldwide sales, marketing and public relations responsibilities. Mr. Kelly holds a mechanical engineering degree from Clark Technical College in Springfield, Ohio and taken numerous engineering courses at Wright State University in Ohio and business courses at Walsh College in Michigan.

Virtual Reality Rehabilitation for Amputees

Maurissa D 'Angelo, Principal Engineer
Pinnacle Systems, LLC — Beavercreek, OH

Description:

This presentation will discuss the benefits of virtual reality to the rehabilitation field. Work completed studied the feasibility of enhancing and expediting amputee rehabilitation through the use of virtual reality.

Biography:

Maurissa D 'Angelo received her doctoral degree in engineering from Wright State University. Her dissertation focused on applying virtual reality training to rehabilitation. Maurissa currently works at a small R&D company, Pinnacle Systems, LLC, which specializes in prototype production and innovative research and development. She received her bachelors in biomedical engineering from Case Western Reserve University and her Master's degree in Human Factors Engineering from Wright State University.

afternoon breakouts prosthetic sessions

Prosthetic Application of SpectraCarb Stockinette

David Garcia, LP, LPED. (Immediate Past President, Ohio Chapter—AAOP)
Manuel Garcia Prosthetics Lab, Inc. —
Strongsville, OH

Description:

This presentation will focus on the clinical concept for fitting a microprocessor knee for the initial fitting of transfemoral amputees. It will compare and contrast conventional and microprocessor knees and learned gait deviations with use of conventional knees. This presentation will also review the recommended componentry and settings for use when fitting a hip disarticulation or Bilateral AKs.

Biography:

David Garcia LP, LPED is a clinician at Manuel Garcia Prosthetic and Orthotic Centers in Strongsville Ohio. He received his BCP certification in Pedorthics in 1995 and his BOC Credentials in prosthetics in 1999. He became licensed in Ohio and was awarded

his ABC/CP Certification. In 2001 David received his C-leg Certification and has fit and assisted in fitting over 50 Microprocessor Knees. David is also the Immediate Past President of the Ohio Chapter—AAOP, having served for five years on the Chapter's board in each office.

Product Development: Broadening Capabilities of Harmony® Mechanical Pumps in Sub-atmospheric Socket Systems with a Vacuum Pressure Bleeder Valve

Brad Poziembo, Prosthetic Resident
Dayton Artificial Limb — Dayton, OH

Description:

A drawback of Harmony® mechanical vacuum pumps in sub-atmospheric socket systems is the inability to regulate the amount of vacuum pressure. When greater vacuum pressure is achieved, amputees that are sensitive to the increased pressure can encounter pain, tightness, discomfort, and even numbness. This prevents these amputees from utilizing the pumps benefits. The purpose and novelty of this investigation was to design and manufacture a valve that regulates vacuum pressure. Designs of various valves used to solve pressure regulation problems outside the prosthetic industry were studied to develop a prototype valve that can be utilized with prosthesis. This Vacuum Pressure Bleeder Valve was integrated into the component set-up of two selected amputees who previously could not tolerate a sub-atmospheric socket system with a Harmony® pump at maximum achievable vacuum levels. Outcomes measured through patient satisfaction with socket fit and increased wear time proved successful. Further clinical studies incorporating this valve with mechanical pumps should include investigation of superficial bruising or pooling of blood in the residual limb of amputees taking blood thinners.

Biography:

Brad Poziembo is a prosthetic resident with Dayton Artificial Limb where he is specializing in lower extremity prosthetics and sub-atmospheric socket system technology

Novel Applications of Virtual Reality to Rehabilitative Care

Maurissa D 'Angelo, Principal Engineer
Pinnacle Systems, LLC — Beaver Creek, OH

Description:

This presentation will discuss the benefits of virtual reality to the rehabilitation field. It covers work completed which studied the feasibility of enhancing and expediting amputee rehabilitation through the use of virtual reality.

Biography:

(See Above)

Working with VASS

Craig MacKenzie, Director of Research and Development
Evolution Industries, Inc. — Orlando, FL

Description:

New studies will be presented from TEC and St. Cloud State University on pin vs. non-pin liners and blood flow. A brief introduction will be given on the harmony and VASS Technology. This session provides an in-depth discussion on TEC products followed by a question/answer session. Problem-solving techniques will be presented on all TEC products.

Biography:

Craig MacKenzie graduated from a two-year program as a prosthetic technician in Canada, and completed a two year internship at Sunnybrook Center for Independent Living in Toronto, Ontario. MacKenzie worked at Sunnybrook for 9 years as a registered technician then came to TEC Interface Systems to run their CAD systems in 1997. In 1998 he received an equivalency degree in clinical prosthetics. In 1999 MacKenzie was asked to head the Research and development department at TEC.

afternoon breakouts orthotic sessions

A New Approach to Orthotic Management of Achilles Dysfunctions

Robert Meier, CO, BOCO, Director of Education
Allard USA — Rockaway, NJ

Description:

Introduction: Orthotic management of Achilles dysfunctions (tendonitis, tendonopathies) has been rooted in the traditional methods of total immobilization in a cam walker followed by orthotic management in a short gauntlet style AFO. A literature search revealed no studies to validate this protocol. Data do exist documenting soft tissue and healing response to immobilization. Alternative methods have been attempted with excellent clinical outcomes.

Methods: Acute and chronic patients with soft tissue dysfunctions of the Achilles were managed in an energy reflecting composite AFO. Cases were followed clinically to assess time to return to pain-free ADL.

Results: Case studies done preliminary to a clinical research study will be presented demonstrating functional outcomes in Achilles dysfunction patients while using an energy reflecting composite AFO.

Discussion: Managing soft tissue injuries or dysfunction through immobilization was discredited 30 years ago when managing grade III ankle sprains was accomplished through plaster immobilization. This new muscle augmentation approach on Achilles dysfunction patients seems to take advantage of a controlled stress orthotic environment to avoid the atrophy secondary to immobilization. Gait parameters seem to be enhanced as opposed to inhibited, and return to pain-free ambulation occurs faster than that expected in traditional orthotic devices.

Conclusions: Current patients in an energy reflecting composite AFO report dramatic decrease in pain during ADL and very rapid resolution of symptoms. Current medical evidence and clinical study parameters will be presented to outline methods to validate these clinical findings.

Biography:

Bob has been active in the orthotics, therapeutic exercise and biomechanics fields since 1978, and has been conducting education programs since 1982. His special interest is in functional closed chain biomechanics and muscle function. A BS in Business

Administration along with engineering and languages interests has enabled him to teach numerous courses across North America and Europe on gait assessment, rehabilitation and orthotics. He holds six patents involving orthotics and applied biomechanics for spine and lower extremity applications.

In addition to his role as Director of Education for Allard USA, Bob is also President and Founder of Kassel Group Inc, sponsor of both entry level and advanced education programs geared to the O&P profession. He has been Director of comprehensive entry level orthotic fitter training programs since 1990, and currently teaches the Applied Technology Institute (ATi) orthotic fitter school.

He has presented courses and lectures on subjects ranging from Gait to Pediatric Orthotics to Spine Management at numerous national, regional and state AAOP, AOPA and PT meetings.

He has served as an Invited Guest Lecturer in the Doctors of Physical Therapy program at Medical College of Ohio, the masters of science in O&P program at Georgia Tech University, the associates degree program in O&P at Oklahoma State University, the bachelors of science in O&P program at College Montmorency in Montreal, Quebec, and at the bachelors of science in O&P program at Sunnybrook & Women's College Health Science Centre in Toronto, Ontario. He has also been a course director for several PFA sponsored educational events.

Bob has authored numerous clinical and technical manuals on both rehab and orthotic products ranging from the Biomechanical Ankle Platform System (BAPS), STAR (Stability Testing and Rehabilitation) Station, Sitting, Walking, and Standing Hip (SWASH) orthosis, and the ToeOFF floor reaction AFO.

Energy Storing and Proprioceptive Balancing Characteristics in Pre-Preg Carbon Fiber AFO's

Noel Chladek, CO, President
Bio-Mechanical Composites, Inc. — Des Moines, IA

Description:

This workshop will qualify attendees as completing Phase I of II in achieving Certification as a Dynamic Response Systems Specialist. Course content includes review of lower extremity anatomy involved in AFO's and Partial Foot prosthetic fittings, kinesiology, biomechanics, pathologies specific to appropri-

ate candidates, principles of pre-preg carbon fiber, dynamic response functional characteristics, orthotic and prosthetic applications and observation of patient model casting and fitting. Emphasis is placed on critical instruction of patient positioning, cast corrections, heel heights and wedging techniques specific to this design.

Biography:

(See Above)

New Lower Extremity Designs, Clinical Applications & Coding Suggestions to Capture Market Share

Joe Whiteside, CO, V.P. of Marketing and Clinical Director of R & D
Anatomical Concepts — Poland, OH

Description:

Having lower extremity orthotic designs that are new, multifunctional, practical to apply, and cost effective, maximizes the practitioners' efforts in today's challenging health care arena. This workshop will engage you, the practitioner in the review of current literature, the associated natural history and or pathophysiology to enhance the end results for your patients. Orthotic considerations, design alternatives, current trends and associated functional outcomes will be compared. Stroke, TBI, MS, CP, Diabetes, Osteoarthritis, and general musculoskeletal injuries are the primary etiologies of the workshop. An overview of current L coding and CMS policy will also be covered specific to suggested L codes for lower extremity designs.

Biography:

(See Above)

afternoon breakouts pedorthic sessions

Custom Engineering of Energy-Storing Partial Foot Prostheses utilizing Pre-Preg Carbon Fiber

Noel Chladek, CO, President
Bio-Mechanical Composites, Inc. — Des Moines, IA

Description:

Clinical application of incorporating advanced technology into an innovative partial foot prosthetic design. Attendees will become familiar with the customized process of incorporating pre-preg carbon fiber into all levels of partial foot amputation. This innovative adaptation results in creating a Dynamic Response, or energy storing device when applied to the patient. Clinical results find patients reporting a remarkable improvement in both static and dynamic proprioceptive balance when compared to the traditional carbon foot plate with toe filler.

The Dynamic characteristics achieved with the customization of carbon fiber fabrication techniques will be explained in detail to the practitioner. This process strictly adheres to FAA guidelines incorporating the quality standards of the aerospace industry into each device. The combination of pressure and heat curing of the pre-preg carbon fiber provides an opportunity for the practitioner to control the produced strength of the carbon structure. This will allow the practitioner to customize the resistance of the lever arm to the specific anatomical contours of the patient's pathological presentation.

The addition of being able to control a patient's lower extremity without a rigid management of a particular joint allows for the patient to continue to balance and maintain a normal biomechanical gait pattern. This is a dramatic improvement in the patient's ability to increase the time spent on the affected extremity as well as their ability to even their gait pattern and increase their speed in ambulation.

Each attendee will receive a slide guide matrix with casting guidelines and to aid in design selection for accurately selecting the appropriate strength resistance of the lever arm

Biography:

(See Above)

Alternative Uses for Carbon Composite AFOs

Robert Meier, CO, BOCO, Director of Education
Allard USA — Rockaway, NJ

Description:

Molded plastic AFOs have been used primarily for footdrop and related neuromuscular applications since the mid-70s. Recent advances in carbon composites allow energy reflective designs in AFOs as opposed to maintaining static posture. These advances have increased the applications for AFOs to include soft tissue dysfunctions such as Achilles tendon dysfunctions and PTTD. The same advances provide for the preservation of the partially amputated foot while restoring gait propulsion and function. This course will explore an expanded role for carbon composite AFOs to help COs expand their referral bases.

Biography:

Bob has been active in the orthotics, therapeutic exercise and biomechanics fields since 1978, and has been conducting research and education programs since 1982. His special interest is in functional closed chain biomechanics and muscle function. A BS in Business Administration along with engineering and languages interests has enabled him to teach numerous courses across North America and Europe on gait assessment, rehabilitation and orthotics. He holds six patents involving orthotics and applied biomechanics for spine and lower extremity applications.

Foot Problems Associated with Diabetes

John Mehnert, D.P.M.
Wilmington Foot & Ankle — Wilmington, OH

Description:

I am going to discuss some of the epidemiology and the problems that are seen in diabetes. I will discuss the current trends with complications and the cost of treatment including amputation of the limb. Complications of Diabetes that I see include neuropathy and vascular disease in the foot. I will discuss some case studies and including treatment. These include wound healing practices and off-loading the extremity using different orthopedic devices.

Biography:

I am in private practice in Wilmington, OH. I have been in practice since 1992. I am currently work-

ing in the Wound Care Center at Clinton Memorial Hospital. I am involved with teaching the Family Practice residents at our hospital. I did my residency in Atlanta, GA and went to podiatry school at Temple University College of Podiatric Medicine.

Dual Axis and Triaxial Advanced Posting - Clinical Trials for Chronic and Unresolved Pathologies; PTTD

Pam Haig, C.Ped, President
The Robert M. Palmer, M.D. Institute of Biomechanics — Elwood, IN

Description:

This session will share Pam Haig's nearly four decades of experience, reviewing podiatric, orthopedic and pedorthic theories derived from her manufacturing and clinical experience of functional feet orthoses. Her career focuses on optimal anatomical alignment based on the published and patented theories of Richard Lundeen, DPM who introduced Triaxial and Dual Axis Intrinsic Posting in June, 1987. She specializes in chronic and unresolved foot, ankle and suprastructure pathologies using the available ranges of motion of the five main axes in the human foot as her foundation for formulating a biomechanically engineered foot or ankle orthosis.

Biography:

Haig, has served the industry with three decades of clinical experience where she specialized in advanced posting for chronic and unresolved pathologies. Using her career resources as co-owner of OSI Labs; a nationally recognized podiatric manufacturing facility, she opened the first pedorthic medical clinic in Indianapolis and is the visionary founder of The Robert M. Palmer, M.D., Institute Of Biomechanics, a Not-For-Profit Pedorthic Biomechanics School. Haig has shared her expertise by serving on OSU-Okmulgee's Pedorthic Advisory Board, as past Treasurer of The Alliance of Educators and sponsor of an international pediatric campaign on the prevention of musculoskeletal injuries, obesity and juvenile diabetes.

afternoon breakouts technical sessions

Material Identification and Bonding External Modification

Jim McFarland, C.Ped, L.Ped, Owner
McFarland's Shoe Repair and Orthopedics — Lakeland, FL

Description:

Are you having problems bonding some of the new materials? Shoe service Institutes Grand Silver Cup Winner and Silver Cup Judge Jim McFarland C.Ped will show you how to identify the materials you see daily, and how easy it is to bond them. Polyurethane, Thermal plastic Rubber will no longer be a problem. Bond them easy & learn how to use products that are free of the most hazardous solvents

Biography:

Jim McFarland owns and operates McFarland's Shoe Repair and Orthopedics in Lakeland, Fla. He is a certified Pedorthist and third generation craftsman. His family has been in the business since 1918 .He served on SSIA's board of directors for six years. Jim McFarland won the Grand Silver Cup in SSIA's 2002 Silver Cup Contest. The cup has symbolized excellence in Shoe recrafting & external modifications for more than 60 years. He has been featured in the *Wall Street Journal, USA Today, Money Magazine* and many other publications along his career in business. His motto is you have to have passion to make it successful.

Transfemoral Cosmetic Foam Shapes and Covers

Matt Williams, CTP, Fabrication Supervisor
Bob Beatty, Product Specialist
Willow Wood Co. — Mt. Sterling, OH

Description:

This session presents a detailed overview of shaping foam covers from the initial shape, anatomical reference points, final contours and outer cover. It includes an open discussion of preparation methods, tools, and more. Finally, this presentation will cover "tricks of the trade" and different types of cosmetic finishings applicable to transfemoral and transtibial applications.

Biography (Matt Williams):

With fifteen years of experience in the custom fabrication of prosthetics, Matt Williams has a wealth of knowledge to draw upon and share. Williams has worked with various materials in the production of prosthetic products as well as the fabrication of prostheses. He is well-versed in the prosthetic trade and earned his certification as a prosthetic technician in 2007. Williams oversees WillowWood's custom fabrication and custom liner departments.

Biography (Bob Beatty):

Bob Beatty has nine years' experience in the orthotic and prosthetic industry at WillowWood. His extensive background in custom fabrication and custom Alpha DESIGN® Liners make him well-versed in various fabrication materials and practices, with numerous suspension devices, and with the OMEGA® Tracer® system. In his role as a product specialist Beatty provides product support and education on WillowWood's complete product line to clinicians and facilities in the Midwest and Southern United States.

Bridging the Gap: Clinical and Technical Communications

Carrie Melton, CPO, L.P.O., Clinical Director of Prosthetics
OrPro Prosthetics & Orthotics, Inc. — Dayton, OH

Description:

Have you ever been frustrated because you did your best to fabricate a patient project? You thought that you did exactly what the practitioner wanted and then you learn that their expectations for the final outcome were much different than yours?

As practitioners and technicians, we all want the best possible outcome for our patients. This session will focus on the common challenges that we encounter on a daily basis and together we will look at potential solutions to help us to become better communicators, ultimately improving the overall patient experience.

Biography:

Carrie Melton has been committed to the Prosthetic, Orthotic and Pedorthic industry for more than 29 years. She is currently the Clinical Director of Prosthetics for OrPro Prosthetics & Orthotics in Dayton Ohio. She has served on various Allied Healthcare Boards including the Ohio Chapter of the American

Academy of Orthotists and Prosthetists. Carrie has presented at numerous local and national conferences. She enjoys the opportunity to interact with fellow practitioners.

Endolite Service and Maintenance: Propose Training to Technical staff

Malcolm Owen, Technical Service & Product Specialist.
Endolite — Centerville, OH

Description:

This session will provide valuable information on the service and maintenance requirements of Endolite products ranging from the low level feet to the higher functional levels, along with the service requirements for the Knees Endolite supply. This session will be interactive and Owen will answer questions and concerns about Endolite product, regarding uses and function.

Biography:

Malcolm Owen has worked for over 25 years in the prosthetic industry. Prior to this, he worked for 21 years with Chas. A Blatchford & Sons Ltd, manufacturer of Endolite products in the UK who own and distribute high quality prosthetic lower limb components in America. Malcolm has been in the United States since September, 1995 working with the Endolite and supplying valuable technical and training support for all customers. He previously worked at a patient care facility in Roehampton's Famous Queen Mary's Hospital, and Stanmore's Mt Vernon Hospital in London where he was a supervisor.

In addition to his technical responsibilities at Endolite North America, which are to educate and train new and existing customers / practitioners in fabricating and fitting techniques of Endolite products.

In recent years he has traveled extensively to facilities in the United States and Canada completing Endolite training seminars and providing educational support for regional shows nationwide.

Malcolm's efforts continue to provide a highest quality of technical, training and clinical support for all customers in North America, from Endolite's head office in Centerville, Ohio.

Exhibitors

ACOR Orthopaedic, Inc.

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Description:

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Description:

Bulldog Tools, Inc. is a family owned and operated Genuine U.S.A. Company providing Prosthetic and Orthotics supplies. We are located in Lewisburg, Ohio near Dayton. We specialize in designing, engineering, and manufacturing our own line of certified high quality products and materials at a revolutionary low cost while continuously providing new and innovative products. At Bulldog, it's our unsurpassed commitment to make our valued customers and their customers happy by simply treating them with straight-forward respect, fairness, and honest business practices while providing the best products at the best prices we ourselves would want and expect.

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College Park Industries, a lower limb prosthetics industry leader for over 20 years, designs and manufactures high-quality, anatomically correct foot/ ankle systems with a superior range of motion as well as the iPecs, a wireless prosthetic gait lab. Emulating human anatomy and highly customizable, CPI products enrich the lives of tens of thousands of satisfied users throughout the world. With state-of-the-art design and precise engineering, College Park remains committed to the research and development of the finest prosthetic products. Known for exceptional customer care, College Park sets the standard with prompt and responsive service.

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Description:

Comfort Products is the leading innovator for knitted orthotic and prosthetic products in the United States and is the oldest manufacturer of prosthetic socks in the country. Comfort was the first company to use X-Static® yarn in the U.S. and has been issued several patents for their innovations in O & P products, along with their vast line of diabetic socks. Comfort Products is also the U.S. distributor for Uniprox Prosthetic Components & Fabrication Materials. When you need the latest innovations, highest quality and best overall value for your knitted orthotic and prosthetic products there is really only one choice. Comfort Products.

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Description:

Freedom Innovations designs, manufactures, and markets advanced technology prosthetic devices that

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Spinal Solutions, Inc.

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Fax: (765) 557-7223
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Web: www.rmpi.org

Description:

The RMPi is a not-for-profit pedorthic biomechanics school. The mission of the RMPi is to offer educational programs to those aspiring to improve their understanding of the complexities of the human foot and ankle; focusing on advanced biomechanical theory and the applied sciences. Dormitory housing and airport shuttle is included in our tuition, as well as financial aid packages and scholarships. Please visit our website to learn more about our faculty, faculty patents, volunteers, vision and mission.

Touch Bionics

3455 Mill Run Drive
 Hilliard, OH 43206
 Phone: (614) 388-8075
 Fax: (614) 388-8079
 Toll-Free: (800) 208-7546
 E-mail: info@touchbionics.com
 Web: www.touchbionics.com

Description:

Touch Bionics is the global leader in advanced upper limb prosthetics. Our groundbreaking prosthetic devices help amputees and others with upper limb disabilities to achieve improved confidence and independence in their daily lives.

Touch Bionics created the i-LIMB Hand, the world's first powered prosthetic hand with five articulating digits, and is the first company to offer powered partial hand prostheses. We also provide LIVINGSKIN, a unique range of highly realistic silicone prostheses that are custom made to closely match limb shape and skin tone.

Townsend Design / DeGroff Orthopedic

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 Phone: (248) 330-7728
 Fax: (248) 366-0445
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