

PROGRAM

| Time | Nov. 4 (Fri.) | | Nov. 5 (Sat.) | | | Nov. 6 (Sun.) | | Time | |
|-------|--|---|--|--|--|--|---|---------------------------|---|
| | 203 A | 204 | 102 | 103 | 203A | 102 | 103 | | |
| 08:00 | Registration | ISPO Board Meeting (Nov.3-4) | Registration | | | Exhibitor Workshop/ ISPO meeting | Registration | | |
| 09:00 | | | Workshop 1 (Hands-on) Fabrication of Dynamic Hand Splint | Symposium 1 New Transfemoral Socket Design | | | | Free Paper 3 Orthotics | Symposium 4 3D Connection by Spinal Orthosis |
| 10:00 | Lunch (On Your own) | Coffee Break | | | Coffee Break | | | | |
| 11:00 | | Workshop 2 Transfemoral Socket-less Socket by Martin Bionics | Opening | | | Plenary Lecture 2 Bong-Ok Kim (M.D) Chungnam National University, Korea EJ Tazawa (SPO Int. Consultant for South East Asia, Japan) | | | |
| 12:00 | Plenary Lecture 1 Stefania Fatone (Northwestern University, USA) | | | Luncheon Seminar 2 Sponsored by Ossur | | | | | |
| 13:00 | Luncheon Seminar 1 Sponsored by Ottobock | | | Symposium 5 Advanced Challenges for the Cases of Lower Limb Amputation | | | | | |
| 14:00 | Free Paper 1 Prosthetics | | | Symposium 2 Silicone Cosmetic Hand & Foot, Prosthetic Cover | Coffee Break | | | | |
| 15:00 | Coffee Break | | | Free Paper 4 Robotics, ADL, assistive devices, Materials, National Policy | | Symposium 6 Novel Powered Orthosis | | | |
| 16:00 | Free Paper 2 Orthotics | | | Symposium 3 Fundamentals of scoliosis orthotics | Symposium 7 AFO Biomechanics - Effect of Resistive Moments of AFOs in Stroke Patients | | Symposium 8 Microprocessor-controlled Prosthesis (Knee, Ankle, Hand) | | |
| 17:00 | Poster Presentation | | | Closing | | | | | |
| 18:00 | | | | | | | | | |
| 19:00 | | | | Gala Dinner | | | | | |
| 20:00 | | | | | | | | | |

* This program is subject to change.

* The meetings below will be scheduled during the conference.

- Asia Council Meeting (Nov 5)
- Board Meeting and General Assembly of the Korean Society for Prosthetics and Orthotics

DETAILED PROGRAM

Plenary Lecture 1

- Flexible Subischial Vacuum Socket for Transfemoral Amputee
Stefania Fatone (PhD, Northwestern University, USA)

Plenary Lecture 2

- Korean P&O: Past, present, and future
Bong-Ok Kim (MD, Chungnam National University School of Medicine, Korea)
- Overview of Prosthetics and Orthotics Education, and Emergence of Assistive Technology
Eiji Tazawa (CPO, ISPO International Consultant for South East Asia, Japan)

Workshop 1(Hands-on): Fabrication of Dynamic Hand Splint

- Introduction of the splinting biomechanics and hands-on seminar by Orfit materials
Jean Christophe Arias (OT, CO, Ottobock, France)
- Hands-on Worksop on Dynamic Hand Splint and Cone Shape Ant Spasticity Splint
Young Chea Chang (CPO, Severance Rehabilitation Hospital, Korea),
Young Joon Shin (PT, Ottobock, Korea), Jun Seob Shin (OT, Ottobock, Korea)

Workshop 2: Transfemoral Socket-less Socket by Martin Bionics

- Static and Dynamic Fitting/ Fabrication Training/ Donning and Doffing
Jay Martin (CP, Martin Bionics, USA)

Symposium 1: New Transfemoral Socket Design

- Socket-less Socket, Transfemoral-NASA Research leads to next generation fabric-based socket
Jay Martin (CP, Martin Bionics, USA)
- M.A.S. Transfemoral Socket-Optimization of the Prosthetic Fit
Marlo Ortiz (CP, Ortiz International, Mexico)
- A Novel Stump Management Method Immediate after Wound Closure for TT Amputees
Takaaki Chin (MD, PhD, Hyogo Rehabilitation Center, Japan)

Symposium 2: Silicone Cosmetic Hand & Foot, Prosthetic Cover

- Prosthetics & Orthotics Redesigned: Advancements in 3D Printing & Digitalization
Eythor Bender (CEO, UNYQ, USA)
- Custom made cosmetic partial foot and toe
Xue Wei (CPO, China Rehabilitation Research Center, China)
- Method for Manufacturing Solid Type Silicone Cosmetic Hand
Jeong-Hye Han (MSc, Veterans Health Service Medical Center, Korea)
- Processing, Manufacturing Prosthetic Cover from Highly Viscous Silicone
Woo-Sung Seong (CPO, Veterans Health Service Medical Center, Korea)

Symposium 3: Fundamentals of Scoliosis Orthotics

DETAILED PROGRAM

- Overview of Scoliosis
Seung-Woo Suh (MD, Korea University College of Medicine, Korea)
- Conventional Orthotic Management for AIS
Man-Sang Wong (CPO, PhD, Hong Kong Polytechnic University, Hong Kong)
- Orthotic management in child with neurological onset scoliosis
Martin Matthews (CPO, DM Orthotics, UK)
- Sagittal misalignment patterns in comparison to coronal curve patterns in AIS
Sun Hae Jang (CO, Eastern Michigan University, USA)

Symposium 4: 3D Correction by Spinal Orthosis

- How to determine optimal 3D orthotic designs for AIS
Sun Hae Jang (CO, Eastern Michigan University, USA)
- The new Lyon ARTbrace
Jean Claude de Mauroy (MD, Clinique du Parc Lyon, France)
- Fabrication of orthosis for scoliosis by using 3D scanner and CAD
Pil Kang (CPO, Korea National University of Welfare, Korea)

Symposium 5: Advanced Challenges for the Cases of Lower Limb Amputation

- Lower limb amputation due to land mines and customized prosthesis in Korea
Hee Seung Yang (MD, Veterans Health Service Medical Center, Korea),
Georg Hoffmann-Kuhnt (CPO, Ottobock, Germany)
- How to treat critical limb ischemia evaluation of vascular wounds microprocessor knees
Karen Andrews (MD, Mayo Clinic, USA)
- Gait re-education techniques for patients following lower limb amputation
Laura Burgess (MD, Imperial College Healthcare NHS Trust, UK)

Symposium 6: Novel Powered Orthosis

- Introduction of Wearable Robot
Eiichi Saitoh (MD, Fujita Health University School of Medicine, Japan)
- ReWalk- More than Walking
Itai Levinson (PhD, Rewalk, Israel)
- Robin - human-oriented rehabilitation robot
Jun-Young Jung (PhD, Korea Institute of Industrial Technology, Korea)
- Hyundai Exoskeleton for Life-caring
Dong Jin Hyun (PhD, Hyundai Central Advanced Research and Engineering Institute, Korea)

Symposium 7: AFO Biomechanics-Effect of Resistive Moment of AFOs in Stroke Patients

- Gait change of the stroke patients by an AFO to assist the 1st rocker function
Sumiko Yamamoto (PhD, International University of Health & Welfare, Japan)

DETAILED PROGRAM

- Effect of plantarflexion resistance of an AFO on gait in patients with stroke
Toshiki Kobayashi (MD, Organization Hokkaido University of Science, Japan)
- The characteristics of gait pattern in EMG analysis during the loading response phase in individuals after stroke
Koji Ohata (MD, Kyoto University, Japan)

Symposium 8: Microprocessor-controlled Prosthesis(Knee, Ankle, Hand)

- Overview
Chang Yong Ko (PhD, Rehabilitation Engineering Research Institute, Korea)
- Symbiotic Leg (Rheo knee + Proprio ankle)
Charles Wang (CPO, Ossur, USA)
- LINX Prosthetic Limb
David Moser (CPO, Endolite Technology Centre, UK)
- 4-Bar MPK ALLUX Knee
Shuji Fujisawa (CPO, Nabtesco, Japan)
- Microprocessor controlled feet (1C66 Triton Smart Ankle)
Chang Ho Song (CPO, Ottobock, Korea)
- Cutting-edge of Myoelectric Prosthetic Hand
Se Hun Park (PhD, Rehabilitation Engineering Research Institute, Korea)

Exhibition Workshop (Ottobock, Ossur, Parkeuuij, Ltd., Sunglim Trading Co.)

CALL FOR ABSTRACT

The APOSM2016 Program Committee cordially invites you to submit abstracts for oral and poster presentations. All abstracts will be reviewed by the Scientific Program Committee and assigned to the appropriate session for oral or poster presentation. Abstracts must be submitted ONLINE. **(Deadline: Aug 15, 2016)**

Topics



A

Prosthetics

- Socket
- Fabrication
- Joint mechanism
- Cosmetic prosthesis
- Myoelectric hand and arm



B

Prosthetics

- Gait orthosis
- Scoliosis orthosis
- Pedorthotics
- Soft orthotics



C

Others

- Robotics
- Materials
- ADL assistive devices
- National policy

WORKSHOP SESSION

Date _ November 4 (Fri), 2016 Place _ #203A , COEX

Limit _ 20 seat limit per workshop Fee _ 1 Workshop: \$200, 2 Workshops: \$350

How to Register _ Please register at the website, www.aposm2016.org

Workshop 1(Hands-on): Fabrication of Dynamic Hand Splint



- Introduction of the splinting biomechanics and hands-on seminar by Orfit materials
Jean Christophe Arias (OT, CO, Ottobock, France)
- Hands-on Workshop on Dynamic Hand Splint and Cone Shape Ant Spasticity Splint
Young Chea Chang (CPO, Yonsei University Health System, Korea), Young Joon Shin (CPO, Ottobock, Korea), Jun Seob Shin (OT, Ottobock, Korea)

Workshop 2: Transfemoral Socket-less Socket by Martin Bionics



Socket-less Socket

- No more static socket shape, hard ischial seat, and loss of suction
- No more antiquated casting, modification, and test socket iterations fitting processes