ISPO
17th WORLD CONGRESS
Kobe Convention Center
Kobe, Hyogo, Japan
日本 神戸
5–8 Oct 2019

BASICS TO BIONICS

FINAL PROGRAMME

www.ispo-congress.com
Come visit the Össur booth - B03 in Hall 2 - at the 17th ISPO World Congress held in Kobe, Japan.

5 - 8 October 2019

LIFE WITHOUT LIMITATIONS

Markus Rehm, world-renowned Team Össur athlete and prosthetist

WWW.OSSUR.COM
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ISPO 17th World Congress

Organisers

ISPO – International Society for Prosthetics and Orthotics

In collaboration with:
ISPO Japan

In co-organisation with:
Science Council of Japan

Supported by:
JSPO – Japanese Society of Prosthetics and Orthotics
JAPO – Japanese Academy of Prosthetists and Orthotists
JOPA – Japan Orthotics Prosthetics Association

Endorsed by:
IVO Japan – International Association for Orthopaedic Shoe Technicians Japan
JAOT – Japanese Association of Occupational Therapists
JPTA – Japanese Physical Therapy Association
RESJA – Rehabilitation Engineering Society of Japan
JSRPD – Japanese Society for Rehabilitation Persons with Disabilities
KCMW – Kobe College of Medical Welfare Sanda Campus
HRC – Hyogo Rehabilitation Center

Sponsors

Diamond sponsor: Ottobock
Gold sponsor: Össur

Download the App for latest programme details: www.ispo-congress.com/app
Welcome Message

ISPO President

On behalf of ISPO, I would like to welcome you to the 17th World Congress in Kobe in 2019. The biennial World Congress is again the highlight for all who deal with rehabilitation and assistive technology, in particular prosthetics and orthotics, wheelchairs and mobility devices. I am positive, that this Congress in Kobe is exciting time for all, as we continue to develop everything from new service models to new technological solutions while we remain focused on the people who benefit from our services. Some of the significant progress that has taken place since our last meeting to assist individuals with disabilities at a global level as well as in many places at a local and individual level is included for presentation in the numerous keynotes, symposia, instructional courses, free paper and poster presentations.

‘Basics to Bionics’ captures the breadth of the Congress in every aspect and the scientific sessions as well as the exhibition expand this theme. The exhibition also highlights new technological developments and robotics in use in rehabilitation and assistive technology.

The Congress has something for everyone: for service users, for the ISPO community and the broader rehabilitation and assistive technology community as well as industry.

ISPO welcomes you in Kobe.

Friedbert Kohler OAM
ISPO President
Chair, ISPO 17th World Congress

World Congress Committee

Friedbert Kohler, Chair
Takaaki Chin, Vice-chair
Rajiv Hanspal
Edward Lemaire
Dick Plettenburg, Scientific Committee Chair
Shin Sasaki
Terry Supan, Treasurer
‘Basics to Bionics’, the theme of the ISPO 17th World Congress, perfectly stretches the breadth of ISPO, and underlines the unique multidisciplinary nature of ISPO World Congresses. The World Congress brings together all disciplines involved in rehabilitation. Its scientific programme draws attention to each of these disciplines, as well as to their collaboration. The programme includes podiums for keynote speakers, symposia, instructional courses, free papers, posters, and case study presentations. It highlights the cutting edge state of the art in prosthetics and orthotics and tries to look beyond current horizons, with the aim to inspire delegates to work together to create a world where individual rehabilitation needs can be met. The scientific programme offers a unique platform to interact with experts from around the world, and to learn from different professional perspectives.

It is my pleasure to welcome you all to the ISPO 17th World Congress!

Get informed! Get inspired! Get involved!

Dick Plettenburg  
Scientific Committee Chair, ISPO 17th World Congress
Local Organising Committee Chair

At the ISPO 17th World Congress in Kobe, discussions will be held on the application of P&O, rehabilitation engineering and assistive technology with the goal of improving the quality of life for people with disabilities. We are honoured to organise this event as its Japanese host. Of particular interest should be the Robotics Technology and Devices Exhibition, which is held parallel to the Congress. I am confident that the 2019 World Congress in Kobe will not only help make Asia's efforts and initiatives in the area of P&O, rehabilitation engineering, and assistive technology widely known in Japan but also provide a golden opportunity to call the attention of stakeholders worldwide to the excellent technology and devices developed in Japan.

Kobe is one of Japan's leading tourist cities and famous for such gourmet delicacies as Kobe beef and sushi. Numerous World Heritage sites are easily accessible nearby. I'm confident that this Congress will afford you a fantastic opportunity to see Japan firsthand and gain an insight into its timeless appeal.

I welcome you to Kobe and wish you a pleasant time experiencing Japan.

Takaaki Chin
President, ISPO Japan
Chair, Local Organising Committee
Vice-chair, ISPO 17th World Congress

Local Organising Committee
Takaaki Chin, Chair
Shin Sasaki, Vice-chair
Seishi Sawamura
Eiji Tazawa
Futoshi Wada
Masao Watanabe
Sumiko Yamamoto
Learn
Exchange
Support
Innovate

ISPO is a multidisciplinary organisation that promotes access to appropriate and equitable rehabilitation, mobility devices, and other assistive product services to improve the quality of life for people with reduced mobility.

www.ispoint.org

IN OFFICIAL RELATION WITH:

World Health Organization
Activities of ISPO International

ISPO Stand
Visit us in Exhibition Hall 3 and meet with ISPO leadership, World Congress 2019 and 2021 representatives, and head office staff. Find out about ISPO programmes, membership and events.

**When:** During exhibition opening hours  
**Where:** Stand number E21, Exhibition Hall 3

International Community Lounge (ICL)
Learn about projects and developments from ISPO Member Societies and partners.

**When:** During exhibition opening hours  
**Where:** Stand number C19, Exhibition Hall 3

ISPO World Assembly
ISPO’s official assembly of all members and Member Societies.

**When:** Monday, 7 October, 11:45 – 12:45  
**Where:** Main Conference Room, Exhibition Hall 2
Abstract

Reviewers

Alberto Esquenazi
Aline Vrieling
Allen Heinemann
Allen Ingersoll
Andrea Ikeda
Ann Simon
Anton Johannesson
Arezoo Eshraghi
Arjan Buis
Benjamin Darter
Brian Kaluf
Chad Duncan
Clemens Rommers
Cleveland Barnett
Corry van der Sluis
Dan Blocka
Daniel Heitzmann
David Rusaw
Deirdre Desmond
Dick Plettenburg
Edsko Hekman
Elaine Owen
Eric Lamberg
Futoshi Wada
Gerasimos Bastas
Gert-Uno Larsson
Gerwin Smit
Glenn Klute
Goeran Fiedler
Gregory Halford
Gustav Jarl
Hamilton Pharaoh
Han Houdijk
Harmen van der Linde
Hassan Saeedi
Helen Lindner
Helena Burger
Hiroaki Hobar
Hiroshi Hashimoto
Ignacio Gaunaure
Jaclyn Sions
Jacqueline Hebert
Jan Andrysek
Jim Richards
JinBok Yi
Juan Ramirez
Junji Katsuhira
Karen Andrews
Kengo Ohnishi
Kenton Kaufman
Kerstin Hagberg
Klaas Postema
Kristin Carnahan
Laura Coffey
Laura Miller
Leigh Clarke
Lieselott Ennion
Liselotte Hermansson
Maja Mlakar
Margaret Hodge
Marie Eriksson
Mariette Deist
Martin Twiste
Matthew J. Major
Merel Brehm
Meta Eek
Michelle Hall
Mokhtar Arazpour
Morten Tange Kristensen
Nachiappan Chockalingam
Nancy Dudek
Nicole Soltys
Pamela Gallagher
Paul Charlton
Peter Kyberd
Rajiv Hanspal
Rebecca Stine
Rickard Brännemark
Ronald Bos
Roy Bowers
Rune Nilsen
Saffran Möller
Sarah Day
Saran Anderson
Sheila Hubbard
Shin Sasaki
Siegmund Blumentritt
Silvia Raschke
Sofia Catalina Henao Aguirre
Stefania Fatone
Stephen Wegener
Steven Gard
Sumiko Yamamoto
Susan Kapp
Susan Spaulding
Takenobu Inoue
Toshiki Kobayashi
Wendy Hill
Wesley Pryor
Yoshihiro Ehara
Zahra Safaeepour
Practical Information

Venue

Kobe Convention Center
www.kobe-cc.jp/en
6-9-1/ 6-11-1, Minatojima-nakamachi, Chuo-ku, Kobe-shi, Hyogo, 650-0046, Japan

Conference Center: Tel: +81-78-302-5200
Exhibition Halls: Tel: +81-78-302-1020

Opening Hours

Registration and Information Desk
(Foyer, Exhibition Hall 2)

<table>
<thead>
<tr>
<th>Day</th>
<th>Opening Hours</th>
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<tr>
<td>Friday, 4 October</td>
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<td>Tuesday, 8 October</td>
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Exhibitors are required to pick up their badges on Friday, 4 October between 12:00 and 15:00.

Congress
(Exhibition Hall 2 and Conference Center)

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Exhibition
(Exhibition Halls 2 and 3)

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<td>Tuesday, 8 October</td>
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What’s included in the Registration Categories

Full congress registration
(applies to regular and student registration)

- Access to the Opening Ceremony, held on Saturday, 5 October and the Closing Ceremony, held on Tuesday, 8 October
- Access to all sessions, such as keynote lectures, symposia, instructional courses, free paper sessions and exhibitor workshops
- Access to the exhibition halls and posters area during opening hours
- Access to the Welcome Reception, held on Saturday, 5 October in the exhibition halls
- Official congress badge and bag with congress programme materials

One day congress registration includes the above on the selected day only.

Exhibition day pass
(valid on the selected day only)

- Access to the exhibition halls and posters area during opening hours
- Access to exhibitor workshops
- Saturday day pass includes: Access to the Opening Ceremony
- Tuesday day pass includes: Access to Closing Ceremony
- Exhibition day pass holders are NOT admitted to the scientific sessions or the Welcome Reception, held on Saturday, 5 October in the exhibition halls
Practical Information

Name Badges

All participants must wear their name badges when attending any congress events. Please note that only participants wearing congress badges are entitled to attend the scientific sessions.

For lost badges, please visit the onsite registration desk. A personal picture ID (passport, driver’s licence, etc.) must be shown in order to receive a replacement delegate badge and an administrative fee of 2,000 JPY per badge is payable in cash.

Certificate of Attendance

Congress delegates will receive a certificate of attendance when collecting their name badge. The certificate lists the amount of ISPO Continuous Professional Development Points given by the ISPO Continuous Professional Development Committee. This certificate can be used to claim CPD credits to national and international CPD certification or accreditation bodies. Delegates can only claim CPD credits for those hours actually spent in the live educational activity.

Catering

Food and beverages are available for purchase in the exhibition halls during exhibition opening hours.

Lunch

If you pre-ordered lunches during online registration, you will receive lunch tickets when picking up your name badge. Exchange the lunch ticket of the respective day for your lunch box in the catering area, Exhibition Hall 3. Note: You will not be able to change your lunch selection.

If you have not pre-ordered lunches during online registration, you can purchase a lunch box in Exhibition Hall 3. Note: The number of lunch boxes for onsite sales is limited and is available on a first-come first-served basis.

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<td>Tuesday, 8 October</td>
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Refreshments

Tea and coffee is provided complimentary in the catering areas located in the exhibition halls during the following refreshment breaks:

<table>
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<th>Day</th>
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<td>Saturday, 5 October</td>
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<td>Tuesday, 8 October</td>
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Cloak

A cloak room / coat check is not available at the Kobe Convention Center. Please do not bring your luggage to the venue. Since there is no storage space available, we recommend that you store your luggage at your booked hotel.
e-Station

For the very first time there will be an e-Station where work spaces are provided and delegates have the possibility to charge their devices.

Language and Interpretation

The official language of the congress is English, however simultaneous interpretation into Japanese is available for all scientific sessions. Exhibitor Workshops not included.

Speaker Ready Desk

Presenters are required to visit the Speaker Ready Desk at least 3 hours before their presentation time. They need to bring their presentation file on a USB key.

Changes to the Programme

The organisers of the congress accept no responsibility for changes to the programme schedule once this booklet has been sent to print. Session changes will be announced through the congress app.

FREE WIFI

Network (SSID): ISPO2019
Password: kobejapan

Visit the congress website for further congress and exhibition updates
www.ispo-congress.com
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Prizes and Awards

Forchheimer Prize

Sunday, 6 October 11:30 – 11:45

At every ISPO World Congress, the International Society for Prosthetics and Orthotics awards the Forchheimer Prize to the most outstanding paper on objective clinical assessment, clinical evaluation, or clinical measurement published in Prosthetics and Orthotics International during the years prior to the event. The prize has been established by the Forchheimer family to honour the memory of Sylvia and Alfred Forchheimer. The ISPO Scientific Committee has unanimously selected that the winner of the 2019 Forchheimer Prize is the following paper:

Long-term results of early myoelectric prosthesis fittings: A prospective case-control study

Lis Sjoberg
Helen Lindner
Liselotte Hermansson


Brian & Joyce Blatchford Team Prize for Innovation

Tuesday, 8 October 11:30 – 11:45

Established by the Blatchford Family in memory of Mr. Brian Blatchford and Mrs. Joyce Blatchford, this prestigious prize is awarded to a team who has an outstanding record of innovative achievement in the field of prosthetics and/or orthotics. The Blatchford Award 2019 has been awarded to the project ‘Coapt Engineering’.

The winning team is composed of:

Mr. Blair Lock
Co-founder and CEO of Coapt Engineering, USA

Mr. Levi Hargrove
Co-founder of Coapt Engineering, USA

Mr. Todd Kuiken
Co-founder of Coapt Engineering, USA

World Congress Best Paper and Poster Prizes

Tuesday, 8 October 16:00 - 16:45

Best Paper and Poster Prizes are awarded to five presenting authors of free papers/posters during the Closing Ceremony.
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Opening Ceremony

SATURDAY, 5 OCTOBER, 09:20 – 12:00, WORLD HALL

The Presidents of ISPO Japan and ISPO International will officially open the ISPO 17th World Congress. Various dignitaries will welcome the delegates. Following, the Knud Jansen and IC2A Lectures will be presented.

Knud Jansen Lecture

David Constantine

AT Changed My Life – Practical Solutions and Education Enabling a Lifetime of Human Potential

David is the co-founder of Motivation, a charity which works to improve the quality of life of people with mobility impairment. His inspiration to design wheelchairs started when he joined IBM and met industrial designers after completing his degree in Computing & Accounting/Finance. He went on to do his MA in Industrial Design at the Royal College of Art, where he, alongside Simon Gue, designed an award-winning wheelchair for developing countries.

Because David himself is a wheelchair user, due to a diving accident in 1982 when he was 21, his work understandably has a deep personal significance. In 2010, he was awarded an MBE by the Queen for his services to the disabled.

IC2A Inspirational Lecture

Desmond Tong

Stronger

Desmond is a transtibial amputee since 1999 and possesses a strong passion for prosthetics and para sports. As a user and an athlete, he benefits from prosthetics innovations, which support him remarkably in the challenges of sports and day-to-day living. He obtained a degree in Prosthetics & Orthotics from the United Kingdom and experiences satisfaction in providing prosthetics & orthotics solutions for patients ever since.
Keynotes

Prof. Eiichi Saitoh

Activity Assistive Robotics from the View Point of Rehabilitation Medicine

Sunday, 6 October, 10:45-11:30
Main Conference Room, Exhibition Hall 2

Professor Eiichi Saitoh (MD, DMSc) is a certified physiatrist, Executive President of Fujita Health University, and Professor and Chairman of the Department of Rehabilitation Medicine I at the Fujita Health University School of Medicine in Aichi, Japan. He graduated from Keio University in 1980 and received his DMSc (PhD) from Keio University in 1991.

Professor Saitoh is also currently Adjunct or Visiting Professor at Johns Hopkins University (Baltimore, USA), China Medical University (Shenyang, China), Shanghai University of Medicine and Health Science (Shanghai, China), Sun Yat-Sen University (Guangzhou, China), Kyoto Prefectural University of Medicine, Tokyo Medical and Dental University as well as Executive Board Member of the National Center for Geriatrics and Gerontology (Japan).

Professor Saitoh is specifically interested in dysphagia, robotics, orthosis, motion analysis, locomotion, exercise science and psychology. He holds several important positions in the Japanese rehabilitation medicine industry, and has been awarded several prizes for his research.

Dr. Deirdre Desmond

Complex Entanglements: People and Assistive Technologies

Monday, 7 October, 10:45-11:30
Main Conference Room, Exhibition Hall 2

Deirdre Desmond, PhD, is a Senior Lecturer in the Department of Psychology and member of the Assisting Living & Learning (ALL) Institute at Maynooth University in Maynooth, Ireland. She is also co-director of the Dublin Psychoprosthetics Group.

Deirdre is currently a member of the ISPO Scientific Committee and was formerly an associate editor for the Prosthetics and Orthotics International (POI) journal. Her research focuses on psychological adjustment to illness, injury, and disability as well as rehabilitation, self-management, and psychosocial aspects of assistive technology. She completed BA and PhD degrees in psychology at Trinity College Dublin before joining the academic staff at Maynooth University.
Dr. Max Ortiz Catalán

Osseo-neuromuscular Integration of Prosthetic Limbs and Neurorehabilitation from Phantom Limb Pain

Tuesday, 8 October, 10:45-11:30
Main Conference Room, Exhibition Hall 2

Dr. Max Ortiz Catalán, PhD, led the development of the first bionic arm that could be directly connected to a patient's bone, nerves, and muscles. In addition, he developed a novel treatment for phantom limb pain that has helped chronic sufferers for whom no other treatments were effective.

Dr. Ortiz Catalán is an Associate Professor at the Department of Electrical Engineering, Chalmers University of Technology, Sweden, where he founded and currently leads the Biomechatronics and Neurorehabilitation Laboratory. He works in close collaboration with Sahlgrenska University Hospital, and serves as a Research Director of Integrum AB, both in Gothenburg, Sweden.

His research, for which he received several prestigious awards, includes bioelectric signals acquisition electronics (analog and digital), bioelectric signal processing and machine learning algorithms for decoding motor volition and control, neuromuscular interfaces, neurostimulation for sensory feedback, bone-anchored prostheses and osseointegration as well as virtual and augmented reality for neuromuscular rehabilitation and the treatment of phantom limb pain.
Programme Overview
Saturday, 5 October

Explanation

1.1.1 etc: Abstracts available in the Abstract Book ordered by Programme Codes

SESSION FORMATS
SYM: Symposium
BIC: Basic Instructional Course
AIC: Advanced Instructional Course
FPS: Free Paper Session

CONGRESS TOPICS
Prosthetics: Lower limb
Prosthetics: Upper limb
Orthotics: Lower limb
Orthotics: Upper limb / Spinal
Developing countries / Education
Outcome measurements / Psychosocial issues / Quality of life
Rehabilitation medicine & surgery
Other

<table>
<thead>
<tr>
<th>Time</th>
<th>Main Conference Room</th>
<th>Room 2A</th>
<th>Room 3B</th>
<th>Room 501</th>
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<td>Opening Ceremony, World Hall</td>
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<td>12:00</td>
<td>Exhibition Opening</td>
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<td>13:00</td>
<td>1.1.1</td>
<td>SYM: Education</td>
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<td>14:00</td>
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<td>SYM: Orthotics – Lower Limb Neurological</td>
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<td>FPS: Orthotics – Lower Limb Orthopaedic</td>
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<td>SYM: Developing Countries</td>
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<td>AIC: Orthotics – Lower Limb Neurological</td>
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<td>1.3.2.a-g</td>
<td>FPS: Prosthetics – Lower Limb Prosthetics</td>
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<td>17:45</td>
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<td>10:15</td>
<td>Refreshment Break</td>
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<tr>
<td>10:30</td>
<td>Exhibit and Poster Viewing</td>
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<td>10:30</td>
<td>– meet Poster Presenters</td>
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<tr>
<td>11:15</td>
<td>IC2A Inspirational Lecture – Desmond Tong: Stronger Enabling a Lifetime of Human Potential</td>
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<tr>
<td>11:30</td>
<td>Knud Jansen Lecture – David Constantine: AT Changed My Life – Practical Solutions and Education</td>
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**Download the App for latest programme details:** [www.ispo-congress.com/app](http://www.ispo-congress.com/app)
Programme Overview

Sunday, 6 October

### Explanation

1.1.1 etc: Abstracts available in the Abstract Book ordered by Programme Codes

**SESSION FORMATS**

**SYM:** Symposium

**BIC:** Basic Instructional Course

**AIC:** Advanced Instructional Course

**FPS:** Free Paper Session

**Programme Codes**

Available in the Abstract 1.1.1 etc:

**Abstracts**

**Explanation**

### Time | Main Conference Room | Room 2A | Room 3B | Room 501
---|---|---|---|---
09:15 | 2.1.1 | AIC: Prosthetics – Lower Limb Transfemoral Promoting Life-like Movement Strategies  
Robert Gailey
Supported by Össur | 2.1.2.a-f | FPS: Orthotics – Lower Limb Neurological  
Galt Paul Charlton  
Shozo Tokuda | 2.1.3 | SYM: Developing Countries Providing Resources, Humanitarian Aids and P&O Services in Troubled Areas  
Alf Reuter  
Klaus-Jürgen Lotz | 2.1.4.a-g | FPS: Prosthetics – Lower Limb Transfemoral Knee  
Merkur Alimusaj  
Toyokazu Takeuchi
10:30 | Refreshment Break
10:45 | 2.0 | Keynote Lecture: Prof. Eiichi Saitoh: Activity Assistive Robotics from the View Point of Rehabilitation Medicine
11:30 | Presentation of the Forchheimer Prize
11:45 | Exhibit and Poster Viewing
13:00 | 2.2.1 | SYM: Assistive Technologies Against Ageing Society  
Chapal Khasnabis
2.2.2.a-e | FPS: Orthotics – Lower Limb Robotics  
Ed Lemaire  
Shigeru Sonoda | 2.2.3 | BIC: Education Collaboration Leads to ISPO Accreditation  
Robin Seabrook | 2.2.4 | AIC: Prosthetics – Lower Limb Transfemoral Basics Of Advanced Socket Design In Transfemoral Prosthetics  
Michael Schaefer  
Supported by Ottobock
14:15
14:30 | 2.3.1 | SYM: Assistive Technologies Against Ageing Society  
Chapal Khasnabis  
Takenobu Inoue
2.3.2 | BIC: Orthotics – Lower Limb Orthopaedic Technology  
4.0 – Digital Creation of 3D-printed Orthoses for Immobilization, Storage or Correction  
Tara Nicoll | 2.3.3.a-g | FPS: Education  
Bryan Malas  
Kyoko Kamada | 2.3.4 | SYM: Prosthetics – Lower Limb Transfemoral Scientific Explorations Regarding Osseointegration to Inform Clinical Practice and Support Consumer Decision Making  
Sally Cavenett
15:45 | Exhibit and Poster Viewing – meet Poster Presenters  
Refreshment Break
16:30 | 2.4.1 | AIC: Outcome Measurements Mobile Technologies, Evidence-based Healthcare and Your Clinical Practice: Demonstrating the Value of Prosthetic Care  
Robert Gailey
2.4.2.a-g | FPS: Orthotics – Lower Limb Orthopaedic  
AFO  
Clemens Rommers  
Akio Tsubahara | 2.4.3 | SYM: Developing Countries Learnings from the AT2030 Programme for Service Delivery in LMICs  
Catherine Holloway | 2.4.4.a-g | FPS: Prosthetics – Lower Limb Transtibial Feet  
Matthew Major  
Yusuke Ohno
17:45 | Exhibit and Poster Viewing
19:00 | Congress Party
21:00

This programme is subject to change
# Programme Overview

**Monday, 7 October**

<table>
<thead>
<tr>
<th>Time</th>
<th>Main Conference Room (Exhibition Hall 2)</th>
<th>Room 2A (Exhibition Hall 2)</th>
<th>Room 3B (Exhibition Hall 2)</th>
<th>Room 501 (Conference Center)</th>
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<tr>
<td>10:30</td>
<td>Refreshment Break</td>
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<tr>
<td>10:45</td>
<td>3.0 Keynote Lecture: Dr. Deirdre Desmond: Complex Entanglements: People and Assistive Technologies</td>
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<tr>
<td>11:45</td>
<td>ISPO World Assembly</td>
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<tr>
<td>12:45</td>
<td>Exhibit and Poster Viewing</td>
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<tr>
<td>13:15</td>
<td>3.2.1 SYM: Sports &amp; Physical Activity&lt;br&gt;Prostheses and Sports for Individuals with Lower Limb Amputation&lt;br&gt;Hiroaki Hobara</td>
<td>3.2.2.a-e FPS: Orthotics – Lower Limb Neurological&lt;br&gt;Gait&lt;br&gt;Merel Brehm&lt;br&gt;Koji Ohata</td>
<td>3.2.3 SYM: Education&lt;br&gt;Orthotist/Prosthetist Competency Assessment Using a Portfolio Method: an Exploration of a Novel, Best Practice Approach&lt;br&gt;Leigh Clarke</td>
<td>3.2.4.a-e FPS: Prosthetics – Lower Limb Transtibial&lt;br&gt;Rehabilitation&lt;br&gt;Han Houdijk&lt;br&gt;Shoko Nireki</td>
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<td>14:45</td>
<td>3.3.1 SYM: Prosthetics – Lower Limb Transtibial&lt;br&gt;Stepping Forward: Focusing on Research with the Older Prosthesis&lt;br&gt;User Matthew J. Major</td>
<td>3.3.2.a-f FPS: Orthotics – Lower Limb Neurological&lt;br&gt;FO&lt;br&gt;Christopher Hovorka&lt;br&gt;Chikara Aoki</td>
<td>3.3.3 AIC: Education&lt;br&gt;Optimizing Strategies for Literature Searching in Prosthetics &amp; Orthotics&lt;br&gt;David Rusaw</td>
<td>3.3.4.a-g FPS: Prosthetics – Lower Limb Transfemoral&lt;br&gt;Osseointegration&lt;br&gt;Laurent Frossard&lt;br&gt;Keichi Tsukishiro</td>
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<td>16:00</td>
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<tr>
<td>16:30</td>
<td>3.4.1 SYM: Outcome Measurements&lt;br&gt;Scientific Approaches to Outcome Measurement for Basic to Advanced Upper Limb Prostheses&lt;br&gt;Jacqueline Hebert</td>
<td>3.4.2 AIC: Orthotics – Lower Limb Neurological&lt;br&gt;Optimization of Treatment Outcome in Ankle-Foot Orthotics&lt;br&gt;Merel Brehm</td>
<td>3.4.3 SYM: Developing Countries From Rehabilitation to Societal Integration&lt;br&gt;Marc Zlot</td>
<td>3.4.4.a-f FPS: Footwear&lt;br&gt;Sicco Bus&lt;br&gt;Masao Watanabe</td>
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<td>17:45</td>
<td>Exhibit and Poster Viewing</td>
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Basics to Bionics

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<tr>
<th>Room 502 Conference Center</th>
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<th>Room 403 Conference Center</th>
<th>Exhibitor Workshop Room, Exhibition Hall 3</th>
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<tbody>
<tr>
<td>**3.1.5.a-g</td>
<td>FPS: Prosthetics – Upper Limb**&lt;br&gt;Corry van der Sluis&lt;br&gt;Junpei Oba</td>
<td>**3.1.6.a-g</td>
<td>FPS: Psychosocial Issues / Quality of Life**&lt;br&gt;Community Participation&lt;br&gt;Helena Burger&lt;br&gt;Kazuto Handa</td>
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<td>**3.2.5.a-e</td>
<td>FPS: Orthotics – Spinal**&lt;br&gt;Franz Landauer&lt;br&gt;Mitsuhiro Ochi</td>
<td>**3.2.6.a-f</td>
<td>FPS: Psychosocial Issues / Quality of Life**&lt;br&gt;Community Participation&lt;br&gt;Helena Burger&lt;br&gt;Kazuto Handa</td>
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<td>**3.3.5.a-e</td>
<td>FPS: Orthotics – Spinal**&lt;br&gt;MS Wong&lt;br&gt;Morio Yada</td>
<td>**3.3.6.a-g</td>
<td>FPS: Psychosocial Issues / Quality of Life**&lt;br&gt;Community Participation&lt;br&gt;Helena Burger&lt;br&gt;Kazuto Handa</td>
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<td>**3.4.5.a-f</td>
<td>FPS: Orthotics – Spinal**&lt;br&gt;Netroyl Ramstrand&lt;br&gt;Yuri Kanaoka</td>
<td>**3.4.6.a-g</td>
<td>FPS: Psychosocial Issues / Quality of Life**&lt;br&gt;General&lt;br&gt;Deidre Desmond&lt;br&gt;Haruki Nakamura</td>
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**Time**

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## Programme Overview

**Tuesday, 8 October**

### Time | Main Conference Room | Room 2A | Room 3B | Room 501
--- | --- | --- | --- | ---
09:15 | 4.1.1 | SYM: Rehabilitation Medicine & Surgery | 4.1.2 | AIC: Orthotics – Lower Limb Neurological | 4.1.3 | SYM: Developing Countries
- Enhancing Patient Specific Outcomes by Improving Amputation Level Decision Making in Patients with Peripheral Artery Disease and/or Diabetes
- Joseph Czerniecki
- 6 Years After Introduction and Future Perspectives
- Thomas Schmalz
- Digital Technologies for the Benefits of the Users for Equitable Access to Rehabilitation Services in Challenging Contexts
- Jerome Cancevai

| Time | Main Conference Room | Room 2A | Room 3B | Room 501 |
--- | --- | --- | --- | ---
10:30 | Refreshment Break | | | |
10:45 | 4.0 | Keynote Lecture: Dr. Max Ortiz Cataláñ: Osseo-neuromuscular Integration of Prosthetic Limbs and Neurorehabilitation from Phantom Limb Pain | | | |
11:30 | | Presentation of the Brian & Joyce Blatchford Team Prize for Innovation | | | |
11:45 | | Exhibit and Poster Viewing | | | |
13:00 | | 4.2.1 | AIC: Prosthetics – Upper Limb | 4.2.2.a-e | FPS: Orthotics – Lower Limb Neurological Clinical
- Training for Adult Users of Hand Prostheses – Introduction to SIRS-Adult for Patients with any Type of Prosthetic Hand
- Liselotte Hermansson
- Corien Nikamp
- Katsuhiko Konishi
- | | 4.2.3 | BIC: Rehabilitation Medicine & Surgery Special Prosthetic Requirements for Rehabilitation of Amputees with Transcatheter, Osseointegrated Prostheses (TOPS)
- Horst-Heinrich Aschoff
| | | | 4.2.4.a-g | FPS: Prosthetics – Lower Limb Transfemoral
- The Experience of Providing Low Activity Transfemoral Prosthetic Users with Microprocessor Knees (MPK): Who Benefits?
- Fiona Davie-Smith

| Time | Main Conference Room | Room 2A | Room 3B | Room 501 |
--- | --- | --- | --- | ---
14:15 | | 4.3.1.a | AIC: Orthotics – Lower Limb Neurological
- The Role of AFOs with Resistive Moment and Evaluation Methods in Gait Rehabilitation for Individuals with Stroke
- Hiroki Hobara
| 4.3.2.a-f | FPS: Sports & Physical Activity
- Mark Geil
- Hiroaki Hobara
| 4.3.3 | SYM: Prosthetics & Orthotics in 2030 – How Will Material Science and Design Transform the Possible?
- Catherine Holloway
| 4.3.4.a-e | FPS: Prosthetics – Lower Limb Transfemoral
- Wheelchairs and Assistive Technology
- Choice – a New Model for More Accuracy, More Customising the Future:
- Maggie Donovan-Hall
- | | | Teppei Morimoto
- Gregory Halford

| Time | Main Conference Room | Room 2A | Room 3B | Room 501 |
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15:45 | | | | |
16:00 | Closing Ceremony | | | |
16:45 | | | | |

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<td>09:00</td>
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| 10:30  |          |              |          |          |                                           | 10:30  |
| 10:45  |          |              |          |          |                                           | 10:45  |
| 11:30  |          |              |          |          |                                           | 11:30  |
| 11:45  |          |              |          |          |                                           | 11:45  |

| 14:00  |          |              |          |          |                                           | 14:00  |

| 14:30  |          |              |          |          |                                           | 14:30  |
| 15:45  |          |              |          |          |                                           | 15:45  |
| 16:00  |          |              |          |          |                                           | 16:00  |
| 16:45  |          |              |          |          |                                           | 16:45  |

### Session 4.1: Prosthetics – Lower Limb Transfemoral Gait
- **Finnish Orthotics Society (FPS):**
- **Title:** Prosthetics – Lower Limb Transfemoral Gait
- **Speakers:** Steven Allen Gard, Hiroshi Hashimoto

### Session 4.2: Prosthetics – Upper Limb
- **Symposium:** Rehabilitation Medicine & Surgery
- **Title:** Enhancing Patient Specific Outcomes by Improving Amputation Level Decision Making in Patients with Peripheral Artery Disease and/or Diabetes
- **Speaker:** Joseph Czerniecki

**Break**

### Keynote Lecture
- **Speaker:** Dr. Max Ortiz Catalán
- **Title:** Osseono-neuromuscular Integration of Prosthetic Limbs and Neurorehabilitation from Phantom Limb Pain

**Presentation of the Brian & Joyce Blatchford Team Prize for Innovation**

### Exhibition and Poster Viewing

### Session 4.3: Prosthetics – Lower Limb Transtibial Socket
- **Symposium:** Rehabilitation Medicine & Surgery
- **Title:** Special Prosthetic Requirements for Rehabilitation of Amputees with Transcutaneous, Osseointegrated Prostheses (TOPS)
- **Speaker:** Horst-Heinrich Aschoff

**Break**

### Session 4.4: Prosthetics – Upper Limb
- **Symposium:** Rehabilitation Medicine & Surgery
- **Title:** Structured Training for Adult Users of Hand Prosthesis – Introduction to SIRS-Adult for Patients with any Type of Prosthetic Hand
- **Speaker:** Liselotte Hermansson

**Break**

### Session 4.5: Footwear
- **Symposium:** Rehabilitation Medicine & Surgery
- **Title:** Individualized Rocker Profile Shoes: Design, Biomechanics and Indications
- **Speaker:** Juha Hijmans

### Session 4.6: Outcome Measurements
- **Symposium:** Rehabilitation Medicine & Surgery
- **Title:** Exploring Quality-of-Care Topics for Users of Custom Ankle-Foot Orthoses
- **Speakers:** Allen Heinemann, Jake Honeywill

### Session 4.7: Prosthetics – Lower Limb Gait
- **Symposium:** Rehabilitation Medicine & Surgery
- **Title:** Gain mobility after an amputation: New approaches in prosthetic lower limb rehabilitation
- **Speakers:** Maggie Donovan-Hall, Akito Tamura

### Session 4.8: Prosthetics – Upper Limb Design
- **Symposium:** Rehabilitation Medicine & Surgery
- **Title:** Developing Countries
- **Speakers:** Sally Cavenett, Kengo Ohnishi
Scientific Posters

The scientific poster area is located in Exhibition Hall 3. Posters are viewable during the daily exhibition opening hours throughout the entire duration of the congress. Presenters are available next to their posters during the ‘Meet Poster Presenters’ sessions on:

**Saturday, 5 October and Sunday, 6 October** 15:45 - 16:30

<table>
<thead>
<tr>
<th>Congress topic</th>
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<tr>
<td>Orthotics: Lower Limb Neurological</td>
<td>5.001 - 5.009</td>
<td>Saturday, 5 Oct.</td>
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<td>Orthotics: Lower Limb Orthopaedic</td>
<td>5.010 - 5.017</td>
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<td>Orthotics: Spinal</td>
<td>5.018 - 5.022</td>
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<td>Orthotics: Upper Limb</td>
<td>5.023 - 5.026</td>
<td>Saturday, 5 Oct.</td>
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<td>Prosthetics: Lower Limb Transfemoral</td>
<td>5.027 - 5.043</td>
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<td>Prosthetics: Lower Limb Transtibial</td>
<td>5.044 - 5.060</td>
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<tr>
<td>Prosthetics: Lower Limb Ankle &amp; Foot</td>
<td>5.061 - 5.064</td>
<td>Sunday, 6 Oct.</td>
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<td>Seating &amp; Wheelchair</td>
<td>5.087</td>
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<td>Footwear</td>
<td>5.088 - 5.092</td>
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<td>Paediatrics</td>
<td>5.093</td>
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<td>Psychosocial Issues / Quality of Life</td>
<td>5.094 - 5.099</td>
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<td>Outcome Measurements</td>
<td>5.100 - 5.103</td>
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<td>Developing Countries</td>
<td>5.104 - 5.108</td>
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<td>Education</td>
<td>5.109 - 5.115</td>
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<tr>
<td>Rehabilitation Medicine &amp; Surgery</td>
<td>5.116 - 5.121</td>
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<td>Sports &amp; Physical Activity</td>
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<td>Other Topics</td>
<td>5.123 - 5.129</td>
<td>Saturday, 5 Oct.</td>
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Welcome Reception

Saturday, 5 October  
17:45 – 19:00
Exhibition Halls 2 and 3

Hosted on the opening day of the congress and gathering all registered congress participants and exhibitors, the Welcome Reception offers an opportunity to re-connect with old friends and make new contacts while visiting the exhibitors. Participation is included in Congress registration fees. Exhibition day pass holders are not admitted.

Congress Party

Sunday, 6 October  
19:00 – 21:00
Ohwada Grand Banquet Room, Portopia Hotel

One of the highlights of each World Congress, the Congress Party celebrates our achievements with great food, drinks, and entertainment. Registration and ticket required.

Tours

Together with its surrounding region, Kobe is one of Japan’s leading tourist destinations. Visit the tour desk in the registration area to book a last minute tour.
Come visit the Pacific Supply booth - C14 in Hall 2 North - at the 17th ISPO World Congress, Kobe, Japan.
October 5-8, 2019
Exhibition

At the exhibition in Halls 2 and 3, companies from around the globe present their latest products and innovations. The product range stretches from movement analysis and compression therapy to orthopaedic footwear technology, orthotics, prosthetics, robotics, and wheelchair support.

Visit the following special areas in Exhibition Hall 3:

- Japanese Pavilion including Robotics Exhibition
- Hospitality Booth - Japanese Culture
- International Community Lounge (ICL)

Exhibitor Workshops

In addition to the diverse scientific programme, individual exhibitors offer you the opportunity to participate in practical workshops, focusing on their latest product developments and modern therapy options as well as sales, marketing and organisational consulting. See the programme overview for topics and times.

CHECK OUT THE PRINTED EXHIBITOR DIRECTORY including floor plans

Download the app for a list of exhibitors on your device
www.ispo-congress.com/app
International Society for Prosthetics and Orthotics

ISPO is a multidisciplinary organisation that promotes access to appropriate and equitable rehabilitation, mobility devices, and other assistive product services to improve the quality of life for people with reduced mobility. ISPO membership includes all rehabilitation professionals (i.e. prosthetists-orthotists, technicians, physical therapists, occupational therapists, surgeons, physicians, engineers, community-based rehabilitation workers, etc.) along with industry and users of assistive technology services.

ISPO membership allows you to:

1. Be part of a worldwide community, expand networks, and make a positive contribution to the development of rehabilitation, mobility device and other assistive product services;

2. Enhance your learning experiences by accessing the latest scientific updates through ISPO’s journal Prosthetics and Orthotics International (POI) and receiving exclusive registration rates to ISPO and National Society events;

3. Actively contribute to the development of ISPO by joining committees or working groups and advocating best practices to governments and non-governmental organisations on key issues;

4. Cultivate your career passion through eLearning, Global Educators Meeting (GEM), and shorth courses.

ISPO is a truly enriching experience, both professionally and personally. Join ISPO!

Prosthetics and Orthotics International

Prosthetics and Orthotics International (POI) is the official journal of the ISPO. POI is a multidisciplinary journal for all professionals who have an interest in the medical, clinical, rehabilitation, technical, educational and research aspects of prosthetics, orthotics and rehabilitation.
ISPO Accreditation

ISPO offers accreditation to training centers delivering prosthetic and orthotic programmes for Prosthetists/Orthotists, Associate Prosthetists/Orthotists and Prosthetic/Orthotic Technicians. ISPO accreditation is sought voluntarily by a prosthetic and orthotic training programme to validate against the existing ISPO Education Standards.

Why is it important? Often a sign of good management, accreditation helps identify areas of strength and opportunities for improvement based on a series of standards. Even though there may be no law requiring it, accreditation is an opportunity to seek and secure validation by a recognised external body (ISPO Education Committee) comprised of expert peers.

New Editors have been appointed: Stefania Fatone (Northwestern University Prosthetics-Orthotics Center, USA), Nerrolyn Ramstrand (Jönköping University, Sweden); Brian J. Hafner (University of Washington, Seattle, USA) and Michael Dillon (La Trobe University, Australia). The journal has further developments planned throughout 2019. For further information, please visit poi.sagepub.com.
3D Printing Solutions for Orthotics and Prosthetics

3D Printing of Polymer Parts
- High Quality Systems
- Powder and laser only
- 100% white parts with aesthetic appearance

No agent
No curing
Biocompatibility ISO 10993
An Attractive Host Country

A World Leader in the Fields of Robotics and Artificial Intelligence

Japan was chosen as host because of its long history of innovation in the fields of prosthetics and orthotics, robotics and artificial intelligence, rehabilitation, mobility devices, and assistive technology.

About Japan and Kobe

Japan, often called the “Land of the Rising Sun”, is a stratovolcanic archipelago consisting of about 6,852 islands. The four largest are Honshu, Hokkaido, Kyushu, and Shikoku, which make up about ninety-seven percent of Japan’s land area and often are referred to as home islands.

Kobe is located in the very centre of Japan on Honshu Island. This mild port city, with its wealth of natural surroundings, commands a view of the calm blue Seto Inland Sea against the backdrop of the breathtaking Rokko mountain range. The city has prospered as a port for overseas trade in East Asia since ancient times, and has adopted various western cultures since its opening to their commerce in 1868. Since the modernisation of Japan, Kobe has become a cosmopolitan city with a population of about 1.53 million and home to people from more than 130 countries. As a tourist destination, Kobe offers such attractions as its night view of the city (designated one of the three best night views in Japan), Seto Inland Sea cruising, and nearby Arima Onsen, a historic hot spring town with origins dating back as far as the 1600s. Kobe is also famous for its diverse food culture, which includes such specialties as world famous Kobe beef, Nada sake as well as western confectioneries.
Venue and Floor Plans

Location overview
Overview Hall 2

1st floor

Entrance
REGISTRATION AREA
Escalators
EXHIBITION AREA
MAIN CONFERENCE ROOM

2nd floor

Escalators
CONFERENCE ROOM 2A

3rd floor

Escalators
CONFERENCE ROOM 3B

Restroom
Accessible Restroom
Elevator
Venue and Floor Plans

Overview Hall 3

1st floor

Overview Conference Center

4th floor

5th floor

Conference Room 501
Conference Room 502
Conference Room 504/505
Conference Room 401
Conference Room 403
Conference Center
Hall 3
Hall 2
Hall 1
Restroom
Accessible Restroom
Elevator
"My biggest step forward was taking a step back."

Melvin, C-Brace® user, post-polio syndrome

『後ろに歩くことができるのは、素晴らしい進歩です。』

メルヴィン、C-Brace®の装着者、ポリオ後症候群

Mobility for people – for 100 years
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人々にモビリティを – 100年の歴史
新しいC-Brace®が皆さまを未来にお連れします。