

I.S.P.O. 20TH WORLD CONGRESS Stockholm, Sweden 16-19 June 2025

Science in Practice Practice in Science

Collaboration and innovation towards sustainable rehabilitation

PROGRAMME





INTERNATIONAL SOCIETY FOR PROSTHETICS AND ORTHOTICS

#ISPOcongress25 www.ispo-congress.com

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Welcome message



from the ISPO President

As President of the International Society for Prosthetics and Orthotics it is my pleasure to welcome you to the I.S.P.O. 20th World Congress. Every two years, professionals involved in the support of persons in need of mobility products (prosthetics, orthotics, and wheelchairs), assistive technology, and rehabilitation services from around the globe come together, and this time we are meeting for the first time in beautiful Stockholm, Sweden.

Themed "Science in Practice, Practice in Science: Collaboration and innovation towards sustainable rehabilitation", the World Congress shines a spotlight on the vital intersection of science and practice in prosthetics and orthotics. Our aim is to spark discussions on best practices, with a focus on driving sustainable rehabilitation. ISPO's core mission, bridging science and practice, remains the linchpin. At the heart of the World Congress lies a commitment to the United Nations Sustainable Development Goals (UN SDGs). Our highly topical programme covers the latest scientific and technical developments.

Our exhibitors provide a comprehensive overview of the global assistive technology market. Alongside the main providers of prosthetics and orthotics and assistive technologies, we have created a space where innovators, start-ups and NGOs come together and share ideas on new methods and approaches.

I would like to welcome you all, members and non-members alike, to this dynamic and exciting international congress that lies at the intersection of all multidisciplinary rehabilitation approaches for those with mobility impairments.

I look forward to seeing you.

David Constantine MBE

ISPO President 2023-2025 Chair, I.S.P.O. 20th World Congress





Welcome message

from the Chair of the Local Organising Committee

On behalf of the Local Organising Committee for the LS.P.O. 20th World Congress, it is my pleasure to welcome you to Stockholm, Sweden. With members from each of the National Member Societies of Sweden, Norway, the UK, and the Netherlands, we have actively collaborated with the other involved committees, including the Scientific Programme Committee, the Technical Track Committee, the Congress Committee, and countless individuals – despite not being committee members – to ensure a World Congress of the highest possible quality for all of us. We hope that you can fully participate in the programme of the World Congress, with the theme "Science in Practice, Practice in Science: Collaboration and innovation towards sustainable rehabilitation," while also having the opportunity to experience all that Stockholm has to offer.

In addition to participating in all that the programme offers regarding recent and ongoing developments in the fields of prosthetics, orthotics, mobility, and assistive devices, we also hope you will have the chance to explore Stockholm's many treasures. Whether visiting a museum, enjoying the endless access to water and nature, or simply spending time relaxing with friends and colleagues, we hope you find something in Stockholm particularly memorable and rewarding from your trip.

On behalf of all the individuals who have contributed to the organisation of this important international event, we wish you a pleasant time in Stockholm.

David Rusaw

President of ISPO Sweden Chair, Local Organising Committee



Congress committees

World Congress Committee

David Constantine ISPO President 2023-2025, World Congress Chair

David Rusaw Local Chair

Sandra Ramdial President-Elect of ISPO

Claude Tardif Past President of ISPO

Jon Batzdorff Treasurer of ISPO

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Brad Mattear Technical Track Committee Chair

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Niklas Toth Sweden

Ian Adam United Kingdom

Nigel Birkett United Kingdom

Brian Clements United Kingdom

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Jørgen Holte Sørlie Norway

Organisers



INTERNATIONAL SOCIETY FOR PROSTHETICS AND ORTHOTICS

International Society for Prosthetics and Orthotics

ISPO International and the National Member Societies from Sweden, Norway, the United Kingdom and the Netherlands look forward to welcoming you!

Sponsors

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Opening Ceremony

Monday, 16 June, 09:30 - 11:15, Victoria Hall

The President of ISPO, the Chair of the Local Organising Committee, and the Chairs of the World Congress Scientific Programme and Technical Track Committees will officially open the I.S.P.O. 20th World Congress. Welcome remarks will be immediately followed by the Knud Jansen and IC2A Inspirational Lectures.

Knud Jansen Lecture

Overcoming challenges to transform lives: innovation in Prosthetics, Orthotics, wheelchairs and beyond



Ritu Ghosh

Academics and Technical Director & Associate Professor, Faculty of Allied Health Sciences, Rajiv Gandhi University of Health Sciences | Mobility India Rehabilitation Research and Training Centre, Bengaluru, Karnataka. India



IC2A Insprational Lecture Challenging limits, creating opportunities

Christoffer Lindhe Momentum Sweden, IC2A, Lindhe Xtend, Halmstad, Sweden

ISPO World Assembly

Wednesday, 18 June, 09:00 - 10:15, Room K1

ISPO's official assembly of all members and member societies.

Closing Ceremony

Thursday, 19 June, 16:00 - 17:00, Room K1

The President of ISPO, the Chair of the Local Organising Committee, and the Chairs of the World Congress Scientific Programme and Technical Track Committees will officially close the I.S.P.O. 20th World Congress. Prizes will be presented. The ISPO presidency will be handed over and the 2027 World Congress location will be announced.



Tuesday, 17 June, 10:45 - 11:30, Room K1

Prosthetics and orthotics science is the key to sustainable rehabilitation and beyond



Chapal Khasnabis Senior Advisor, Assistive Technology, Asian Development Bank, Geneva,

Wednesday, 18 June, 14:00 - 14:45, Room K1

Rolling together: collaborative approaches to sustainable wheelchair education



Paula Rushton

Associate Professor and Director, School of Occupational Therapy, Faculty of Health, Dalhousie University, Halifax, Nova Scotia, Canada

Wednesday, 18 June, 10:45 - 11:30, Room K1

Switzerland

Implantable and wearable modular neuroprostheses to understand and restore neural functions

Silvestro Micera

Professor of Bioelectronics, Scuola Superiore Sant'Anna, Pisa, Italy and Bertarelli Foundation Chair in Translational NeuroEngineering, Ecole Polytechnique Federale de Lausanne, Lausanne, Switzerland

translated into P&O practice, and back Han Houdijk

Fundamentals of human movement

Wednesday, 18 June, 10:45 - 11:30, Room K1

Professor of Clinical Movement Sciences, University Medical Center Groningen, University of Groningen, Groningen, The Netherlands



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GEM 2026

Global Educators Meeting

" From Local Roots to Global Reach: Building Educational Bridges "

March 23-25, 2026

Bangkok, Thailand

Awards and prizes



At each ISPO World Congress, ISPO recognises outstanding achievements through various awards and prizes.

Forchheimer Prize

Tuesday, 17 June, 11:30 - 11:45, Room K1

Established by the Forchheimer Family to honour the memory of Sylvia and Alfred Forchheimer, the prize is awarded 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 World Congress. The 2025 Forchheimer Prize is awarded to the following paper:

Amputation and prosthetics of the lower extremity: The 2020 Dutch evidence-based multidisciplinary guideline

Authors: Behrouz Fard, Saskia Persoon, Paul C. Jutte, Jan-Willem H.C: Daemen, D-A A. Lamprou, Werner Ten Hoope, Erik Prinsen, Han Houdijk, Jeroen Olsman, Tobias Holling, P.P.R. Heike, Ernst Schrier, Nadine Donders, Johan S. Rietman, Jan H.B. Geertzen (Prosthetics and Orthotics International, volume 47(1): p 69-80, February 2023)

Bryan and Joyce Blatchford Team Prize for Innovation

Thursday, 19 June, 11:30 - 11:45, Room K1

Established by the Blatchford Family to honour the memory of Mr. Brian Blatchford and Mrs. Joyce Blatchford, the prize is awarded to a team that has an outstanding record of innovative achievement in the field of prosthetics and / or orthotics, which should be related to prosthetic and/or orthotic hardware, or scientifically based new techniques that result in better prostheses or orthotics. The 2025 Bryan and Joyce Blatchford Team Prize for Innovation is awarded to:

The Research Team from the University of Washington Center on Outcomes Research in Rehabilitation (UWCORR)

Prof. Brian Hafner (Leader), Prof. Cody L. McDonald, Prof. Dagmar Amtmann, Prof. Geoffrey S. Balkman, Prof. Sara J. Morgan

Sepp Heim Award

Thursday, 19 June, 16:00 - 17:00, Room K1

The Sepp Heim Award was established by ISPO at the ISPO World Congress 2019 to honour Mr. Sepp Heim for his lifetime of significant contributions to ISPO as well as the development of mobility devices (prosthetics, orthotics, and wheelchairs) education and services in less resourced settings. The prize is awarded to an individual/s or institution/organisation that has made a major contribution to mobility device education and / or improving mobility devices service in less resourced settings. The 2025 Sepp Heim Award is awarded to:

Christian Schlierf

World Congress Best Paper and Poster Prizes

Thursday, 19 June, 16:00 - 17:00, Room K1

The prizes in the following five categories are awarded by the Scientific Programme Committee of I.S.P.O. World Congress to presenting authors of free papers/posters during the Closing Ceremony:

- Advancing clinical treatment
- Advancing P&O
- Sustainability
- 3MT student competition prizes
- · Best poster prize



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Abstract reviewers

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Andrea Giovanni Cutti Benjamin Darter Tarit Datta Sarah Day Mariette Deist Jasper den Boer Alex Dickinson Maggie Donovan-Hall Strahinja Dosen Sigrid Dupan Ahmed Ebied Nickola Eddison Habib Ejraeidolatabad Jeffrey Erenstone Arezoo Eshraghi Peter Farkas Goeran Fiedler Pamela Gallagher Steven Gard Mark Geil Ed Giesbrecht Terje Gjovaag Denver Graham Senem Guner Kerstin Hagberg Hiroshi Hashimoto Aoife Healy Thearith Heang Jacqueline Hebert Daniel Heitzmann Ulla Hellstrand Tang Liselotte Hermansson Juha Hijmans Wendy Hill

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Brittany Pousett Erik Prinsen Sandra Ramdial Nerrolyn Ramstrand Faiza Rasheed Iim Richards Amy Richardson Clemens Rommers Samantha Rozevink Naveeda Sarwar Shin Sasaki Andrew Sawers Jette Schack Stephen Seccombe Beth Sheehan Anil Singh Jaclyn Sions Gerwin Smit Marjaneh Sohrab Susan Spaulding Odom Teap Kristi Turner Zia Ur Rehman Harmen van der Linde Jaap van Netten Natalie Vanicek Niels Waterval Sebastian Wolf Man Sang Wong Peter Worslev Yavuz Yakut Sumiko Yamamoto Kamil Yazıcıoğlu Musa Zia

Programme overview

Explanation

SYM	Symposium
BIC	Basic instructional course
AIC	Advanced instructional course
FPS	Free paper session
FPS & PP	Free paper session and poster pitches
TT	Technical track presentation

Monday, 16 June 2025

Time	Scientific programme Room K1, Ground floor	Scientific programme Room A2, Ground floor	Scientific programme Room A5, Ground floor	Scientific programme Room A6, Ground floor	Scientific programme Room A7, Ground floor				
08:30	Fika & Get-together for early career professionals (K-Foyer, Ground floor)								
09:30	Opening Ceremony (Victo	Opening Ceremony (Victoria Hall, Ground floor) 1.01 Knud Jansen Lecture: Overcoming challenges to transform lives: innovation 1.02 IC2A Inspirational Lecture: Challenging limits, creating opportunities							
11:15	Exhibition opening								
11:30	LUNCH TIME - Exhibit an	d poster viewing break							
13:00	2.01 SYM: Prosthetics lower limb: transtibial, ankle, foot More than Mobility: The Impact of Prosthetic Mobility on Well-Being, Fall Risk, and Employ- ment Phillip Stevens	4.01 AIC: Orthotics: lower limb and footwear Orthotics and Gait Rehabilitation for Persons Poststroke as Evidence-Based Practice <i>Hiroshi Hashimoto</i>	2.02 SYM: Outcome measurements The Importance of Paying Attention: How Measuring Cognitive Load and Effort Could Inform Your Clinical Practice Benjamin Darter	2.03 SYM: Education Next Steps in Evidence- Based Practice in Education for Prosthetic Orthotic Occupations <i>Helen Cochrane</i>	5.01 FPS: Prosthetics: bone anchored limbs Review, consensus and patient selection Brecca Gaffney, Jacqueline Hebert				
14:15									
14:30	2.04 SYM: Prosthetics: lower limb transfemoral The importance of participation and how this can be achieved in all aspects of life following major lower limb amputation <i>Fiona Davie-Smith</i>	3.02 BIC: Orthotics: lower limb and footwear Ecological Footprint: Does the shoe fit? How to perform a Life Cycle Assessment of Orthotic Footwear Chantal Bakker	5.05 FPS & PP: Outcome measurements Development and integration <i>Michael Dillon,</i> <i>Bretta Fylstra</i>	2.05 SYM: Education Your ISPO Scientific Committee: Serving the research, development and knowledge translation needs of the global ISPO membership Matthew Major	5.06 FPS & PP: Prosthetics: lower limb transfemoral Gait Erik Prinsen, Iris Sterkenburg				
15:45	Exhibit and "Meet the pre	senters" poster viewing br	reak						

16:15	2.06 SYM: Education Establishing a Prosthetist- Orthotist Profession – The Case of Ukraine <i>Antonina Kumka</i>	2.07 SYM: Gait and balance Evidence-based Am- putee Rehabilitation: Identifying and Treating the Physical limitation to Improve Success of Prosthetic Gait <i>Robert Gailey</i>	2.08 SYM: Rehabilitation medicine and surgery Global meeting of the Special Interest Group Bone Anchored Limbs (SIGBAL) Jan Paul Frölke	3.03 BIC: Education Academic Workplaces as a linkage between science and practice; working towards inno- vative and sustainable rehabilitation in pros- thetics and orthotics <i>Verena Schuurmans</i>	5.11 FPS: Device fabrication and design Orthotic application Felix Camagay, Agus Setyo Nugroho
17:30	Welcome Reception (Exh	ibition hall Ground floor)			

20:00



in Prosthetics, Orthotics, wheelchairs and beyond | *Ritu Ghosh Christoffer Lindhe*

					11:30
5.02 FPS: Prosthetics and Orthotics: upper limb Components and rehabilitation Alix Chadwell, Yuichiro Honda	5.03 FPS: Health care, policy, sustainability Assistive devices, policies and frameworks Anton Johannesson, Ravinder Singh	5.04 FPS: Therapy, physical activity, sports Therapeutic approaches Krista Best, Kyle Leister	3.01 BIC: Paediatrics Interdisciplinary approach in the treatment of children with congenital malformations of the upper extremity <i>Michael Schaefer</i>	7.01 & 7.02 TT: P&O Material science Applications of industri- al thermoplastic felt in orthotic solutions The use of thermoplas- tic in prosthetics: ma- terials and fabrications technics Brad Mattear, Ian Adam, Patricia Holm	12:45 13:00
					14:15
5.07 FPS & PP: Prosthetics and Orthotics: upper limb Outcomes Sietke Postma, Richard Weir	5.08 FPS & PP: Orthotics: lower limb and footwear Foot Orthoses Kübra Nurdoğan, Niels Waterval	5.09 FPS & PP: Orthotics: spinal Treatment Rajiv Kalsi, Man Sang Wong	5.10 FPS & PP: Prosthetics and Orthotics: in less resourced settings User interface and education Alex Dickinson, Louise Puli	7.03 TT: P&O Equipment & tools Revolutionizing Pros- thetic Comfort: A Live Demonstration of User Adjustable Systems in a Fabrication Process Patricia Holm, Ian Adam	14:30
					15:45

				7.04 & 7.05 TT: P&0	16:00
2.09 SYM: Prosthetics and Orthotics: in less resourced settings The importance of understanding cultural and social context in low resource setting P&O research Sisary Kheng	5.12 FPS: Orthotics: lower limb and footwear Knee Pooja Mukul, Bongkoch Praewpipat	5.13 FPS: Rehabilitation medicine and surgery Population interventions Patrick Domerchie, Peter Farkas	5.14 FPS: Paediatrics Prosthetics and orthotics <i>Mohammed Sobuh</i> , <i>Rita Suarez</i>	Fabrication techniques Partial foot orthosis manufacturing method for young persons in an easy and fast way I The Use of Preserved Organic Matter in an Aesthetic Finish for Laminated Prosthetic Devices Patricia Holm, Ian Adam	16:15

17:30

09:30

11:15

20:00

Programme overview

Explanation

SYM	Symposium
BIC	Basic instructional course
AIC	Advanced instructional course
FPS	Free paper session
FPS & PP	Free paper session and poster pitches
TT	Technical track presentation

Tuesday, 17 June 2025

Time	Scientific programme Room K1, Ground floor	Scientific programme Room A2, Ground floor	Scientific programme Room A5, Ground floor	Scientific programme Room A6, Ground floor	Scientific programme Room A7, Ground floor
09:00	2.10 SYM: Health care, policy, sustainability Health Economic Eval- uation in prosthetics: innovative solutions to method design challenges <i>Leigh Clarke</i>	2.11 SYM: Orthot- ics: lower limb and footwear Microprocessor Stance and Swing Phase controlled Orthotics (MPSSCO): The current state of the evidence Andreas Hahn	2.12 SYM: Device fabrication and design Navigating Diverse Challenges in 0&P's Digital Landscape Jan Andrysek	2.13 SYM: Health care, policy, sustainability The Impact of Psychosocial issues on the Professional Performance of Female Prosthetists Orthotists Stephney Weerasinghe	4.02 AIC: Prosthetics: bone anchored limbs Bone-anchored Lower Limb Alignment: Reestablishing Normal <i>Christopher Hoyt</i>
10:15	Exhibit and poster viewing	5			
10:45	1.03 Keynote lecture (F	Room K1, Ground floor) F	Prosthetics and orthotics	science is the key to sust	ainable rehabilitation and
11:30	Presentation of Forchhei	mer Prize (Room K1, Grou	ind floor)		
11:45	LUNCH TIME - Exhibit an	d poster viewing break			
13:00	2.14 SYM: Health care, policy, sustainability ATscale: Reflections on investment and action to create change and improve access for assitive technology <i>Satish Mishra</i>	2.15 SYM: Prosthetics lower limb: transtibial, ankle, foot Bridging the Knowledge Gap in Paediatric Prosthetic Care and Rehabilitation Anthony Bull	2.16 SYM: Device fabrication and design Personalisation of lower limb assistive devices; how Human-in-the-loop optimization can revolu- tionize P&O care <i>Niels Waterval</i>	3.05 BIC: Prosthetics and Orthotics: upper limb Practical application of pattern recognition myoelectric control in powered upper limb prosthetics <i>Blair Lock</i>	3 Minute Thesis (3MT) student competition Part 1 Jannis Hill, Holly Tetzlaff
14:15				t.	
14:30	2.17 SYM: Prosthetics: bone anchored limbs Advancing Prosthetic Care: Integrating Osseointegration Technology into Clinical Practice A. Oomatia	2.18 SYM: Orthotics: lower limb and footwear Nowhere without footwear: evidence-based solutions of custom-made footwear for people with diabetes <i>Sicco Bus</i>	5.22 FPS & PP: Gait and balance Techniques and meas- urements Malte Bellman, Han Houdijk	3.06 BIC: Therapy, physical activity, sports Leveling the playing field: The secrets to coaching athletes to run with a prosthesis <i>Robert Gailey</i>	5.23 FPS & PP: Prosthetics lower limb: transtibial, ankle, foot Liner and socket design <i>Rune Nilsen,</i> <i>Diana Toderita</i>
15:45	Exhibit and "Meet the pre	senters" poster viewing br	eak		
16:15	2.19 SYM: Education Closing the Global Workforce Gap in Assistive Technology Provision Johan Borg	2.20 SYM: Orthotics: spinal Digital Assessment, Design and Fabrication for Orthotic Management of Adolescent Idiopathic Scoliosis Man Sang Wong	5.28 FPS: Gait and balance Sensory and cognitive Daniel Heitzmann, Wouter Muijres	2.21 SYM: Outcome measurements The importance of a global longitudinal database platform for collection of big data related to amputations, prosthetics and outcome <i>Bengt Soderberg</i>	5.29 FPS: Prosthetics: bone anchored limbs Mechanical loading in standard and bone anchored prostheses Paul Awan Chol, Marko Sass
17:30					
19:00	City Hall Reception (Stoc	kholm City Hall, Ragnar Ös	stbergs Plan 1, entrance fr	om the courtyard)	
21:00					



Scientific programme Room A8, Ground floor	Scientific programme Room K11, First floor	Scientific programme Room K16, First floor	Scientific programme Room K18/19, First floor	Technical track NEW Room A3, Ground floor	Time
5.15 FPS: Prosthetics lower limb: transtibial, ankle, foot Gait and balance Sirinitip Kaewtip, Sandeep Uppal	5.16 FPS: Prosthetics and Orthotics: upper limb Feedback and control Morten Kristoffersen, Kristi Turner	5.17 FPS: Orthotics: spinal Methods Constantina Matsika Klossa, Shan Liu	3.04 BIC: Paediatrics Rebuilding Lives: A Multidisciplinary Approach to supporting children with amputations after sepsis Val Jacques-Robinson	7.06 & 7.07 TT: P&O Digital technologies Optimizing conventional and digital fabrication workflows using data- driven methods 3D printed spinal orthosis for idiopathic scoliosis in Jargen Holte Sørlie, Brian Clements	09:00
					10:15
beyond Chapal Khasnal	bis Moderator: Corry van	n der Sluis			10:45
					11:30
					11:45
5.18 FPS: Prosthetics lower limb: transtibial.	5.19 FPS: Orthotics: lower limb and	5.20 FPS: Therapy, physical activity, sports	5.21 FPS: Paediatrics Paediatric management	7.08 TT: P&0 Fabrication techniques	13:00

tower timp: transtip
ankle, foot
Feet
Michael Berthaume,
Anna Pace

5.19 FPS: Orthotics:						
lower limb and						
footwear						
Evidence and guidance						
Gustav Jarl,						
Pia Nolstedt						

hysical activity, sport Physical activity Senay Cerezci-Duygu, Abby Hutchison

and service planning Aleiandro Alvarez. Eve McQuade

Paediatric management Fabrication techniques Inspection, Safety, and Maintenance of Metal Orthotic Components Jøraen Holte Sørlie. Brian Clements 7.09 | TT: P&O Material 5.26 | FPS & PP: 5.27 | FPS & PP:

5.24 | FPS & PP: Prosthetics: lower limb transfemoral Policies and recommendations Andreas Hahn. Ruth Leskovar

5.25 | FPS & PP: Orthotics: lower limb and footwear Materials and design Kerstin Hagberg, Lisa Vossen

Robotics, soft robotics, exoskeletons Various topics Andrea Ikeda, Annika Rydgard

Health care, policy, sustainability Service capacity Johanna Rosberg Petersson, Sajib Roy

14:30 science How to break a socket the right way (and why users will benefit) Jøraen Holte Sørlie. Brian Clements

> 15:45 16.15

14:15

5.30 | FPS: Prosthetics 3.07 | BIC: Orthotics: 2.22 | SYM: Robotics, soft 5.31 | FPS: Outcome lower limb: transtibial, lower limb and footwear robotics, exoskeletons measurements ankle, foot AFO Training in Practice From concept to clinical Clinimetric properties Rehabilitation and Innovative Strategies Gulnihal Metin. prototype, a multidisciplinary approach for the Arezoo Eshraghi, for Optimal Adaptation in Chantel Ostler Nerrolyn Ramstrand Neuromuscular Disorders development of a paediat-Elza van Duijnhoven ric ankle exoskeleton Luiza Muraru

7.10 | TT: P&O Equipment & tools Fabrication of a ZIP (Zwolle Isala Prosthesis) for transtibial prosthesis users Jørgen Holte Sørlie, Brian Clements

17:30

19:00

21:00

Programme overview

Explanation SYM s

SYM	Symposium			
BIC	Basic instructional course			
AIC Advanced instructional course				
FPS Free paper session				
FPS & PP	Free paper session and poster pitches			
TT	Technical track presentation			

Wednesday, 18 June 2025

Time	Scientific programme Room K1, Ground floor	Scientific programme Room A2, Ground floor	Scientific programme Room A5, Ground floor	Scientific programme Room A6, Ground floor	Scientific programme Room A7, Ground floor		
09.00	ISPO World Assembly (R	oom K1, Ground floor)					
10:15	Exhibit and poster viewing break						
10:45	1.04 Keynote lecture (Room K1, Ground floor) Implantable and wearable modular neuroprostheses to understand and restore						
11:30	Best poster prize - Poste	er Pitches (Room K1, Grou	nd floor) <i>Moderators: Cor</i>	rien Nikamp, Phil Stevens			
11:35	LUNCH TIME - Exhibit an	d poster viewing break					
12:30	2.23 SYM: Prosthetics: bone anchored limbs A Patient-Centered and Evidence-Based Approach to Bone- Anchored Limb Care for Patients with Lower- Limb Amputation Jason Stoneback	2.24 SYM: Orthotics: lower limb and footwear Guideline-based orthot- ic practice to improve the (cost-)effectiveness of lower limb orthoses in neuromuscular rehabilitation <i>Merel Brehm</i>	2.25 SYM: Orthotics: lower limb and footwear Measuring sustaina- bility in healthcare and assistive technology: methods and examples for preventing and treat- ing foot ulcers in people with diabetes <i>Ulla Hellstrand Tang</i>	2.26 SYM: Health care, policy, sustainability Patient-centred ap- proaches to healthcare data in prosthetic rehabilitation <i>Chantel Ostler</i>	3 Minute Thesis (3MT) student competition Part 2 Jannis Hill, Holly Tetzlaff		
13:45							
14:00	1.05 Keynote lecture (R	Room K1, Ground floor) Ro	olling together: collaborat	ive approaches to sustaina	ble wheelchair education		
14:45							
15:00	2.27 SYM: Prosthetics lower limb: transtibial, ankle, foot Lower Limb Prosthesis Prescription Guided by Precision Rehabilitation and Patient-Centered Care Strategies David Morgenroth	2.28 SYM: Robotics, soft robotics, exoskeletons The use of soft-robotic gloves in ADL and rehabilitation: a scientific, clinical and manufacturing point of view Johannes Rietman	5.35 FPS & PP: Education Disrupting P&O Service and clinical education <i>Amy Richardson</i> , <i>Sue Spaulding</i>	2.29 SYM: Education Disrupting P&O Education: Blended Learning as a Sustainable Solution for P&O Training - Lessons Learned in War Zones Christian Schlierf	5.36 FPS & PP: Device fabrication and design Novel design approaches <i>Erica Rossi,</i> <i>Maria Grazia Santi</i>		
16:15	Exhibit and "Meet the pre	esenters" poster viewing br	reak				
16:45	2.30 SYM: Prosthetics and Orthotics: upper limb ISPO Special Interest Group Upper Limb (SIGUL) discuss sus- tainability Alix Chadwell	2.31 SYM: Orthotics: lower limb and footwear Optimising motor recov- ery post stroke – Explor- ing the role of lower limb orthotic interventions <i>Paul Charlton</i>	4.03 AIC: Prosthetics: lower limb transfemoral Innovative Socket- design And Digital Processes In AK- Prosthetics <i>Michael Schaefer</i>	3.09 BIC: Education Revolutionizing P&O Practice and Education: Artificial Intelligence and Large Language Models for Clinicians and Educators John Brinkmann	5.41 Prize Nominees Session and FPS Best papers "Sustainability" FPS: Seating and wheelchairs Isabella Gigante, Subhash Sinha		

This programme is subject to change.

			for up-	ESS APP		
Opening & Closing Assembly, Keynot Prosthetics: bone	g Ceremony, World es & Prize sessions anchored limbs	Orthotics Gait and balance			ion and design & obotics, exoskeletons	
Prosthetics: lower	limb	Outcome measurements		Health care, po	licy, sustainability	
Prosthetics and 0	rthotics	Therapy, physical activity, Rehabilitation medicine ar		Psychosocial is Seating and wh	sues, Paediatrics & eelchairs	
Scientific programme Room A8, Ground floor	Scientific programme Room K11, First floor	Scientific programme Room K16, First floor	Scientific program Room K18/19, Fir		nical track NEW A3, Ground floor	Time
						09.00

neural functions | Silvestro Micera | Moderator: Phil Stevens

					11:30
					11:35
5.32 FPS: Prosthetics: lower limb transfemoral Knees Hiroshi Hashimoto, Andreas Kannenberg	5.33 FPS: Device fabrication and design Socket developments <i>Calvin Ngan,</i> <i>Kengo Ohnishi</i>	5.34 FPS: Outcome measurements Patient reported outcomes Fiona Davie-Smith, Cathrine Widehammar	3.08 BIC: Outcome measurements Children's Amputee Mobility Predictor: Functional assessment for children with leg length discrepancy requiring a prosthesis or Extension-prostheses (Orthoprosthesis) Sharon Eylon	7.11 & 7.12 TT: P&O Digital technologies, wheelchair & postural support fabrication techniques Implemen- tation of CAD design into Special Seating & challenges faced Additive Seating Sys- tems for the Support of Individuals with Severe	12:30

Paula Rushton | Moderator: Bill Miller

					14:45
5.37 FPS & PP: Prosthetics lower limb: transtibial, ankle, foot Manufacture and design Andrea Cutti, Claudia Ghidini	5.38 FPS & PP: Prosthetics: bone anchored limbs Outcomes Horst Aschoff, Nachiappan Chockalingam	5.39 FPS & PP: Therapy, physical activity, sports Sports and movement Crystal MacKay, Samantha Rozevink	5.40 FPS & PP: Rehabilitation medicine and surgery Population analysis Matiur Rahman, Heather Underwood	7.13 TT: P&O Fabrication techniques Functionality and effects of the positioning elements and their combinations with wheelchairs <i>Niklas Toth, Nigel Birkett</i>	15:00
					16:15
5.42 FPS: Prosthetics lower limb: transtibial, ankle, foot Various topics <i>Caitlin Edgar,</i> <i>Bea Hemmen</i>	2.32 SYM: Health care, policy, sustainability Regional Approaches for Professional Devel- opment, Recognition and Accreditation of Prosthetists and Or- thotists-Reflection from Cambodia, Thailand and Myanmar Phearsa Thor	5.43 FPS: Education Curriculum planning and professional competencies Zekra Ali Aziz, Elise Mahé-Duverger	3.10 BIC: Outcome measurements Advancing Observation- al Gait Analysis: Unlock the Collaborative Power of the Functional Low- er-limb Amputee Gait Assessment Tool Anat Kristal	7.14 TT: P&O Fabrication techniques Partial Hand Prosthesis Interface and Socket Design: Casting, Modification, and Fabrication <i>Niklas Toth, Nigel Birkett</i>	16:45

10:15

10:45

13:45

14:00

Multiple Disabilities Niklas Toth, Nigel Birkett

Programme overview

Explanation

SYM	Symposium
BIC	Basic instructional course
AIC	Advanced instructional course
FPS	Free paper session
FPS & PP	Free paper session and poster pitches
TT	Technical track presentation

Thursday, 19 June 2025

Time	Scientific programme	Scientific programme	Scientific programme	Scientific programme	Scientific programme
09:00	Room K1, Ground floor 2.33 SYM: Prosthetics and Orthotics: upper limb Providing Sensory Feedback & Reducing Phantom Limb Pain Us- ing Innovative Surgical Techniques of Targeted Sensory Reinnerva- tion & Novel Medical Technology Alexander Gardetto	Room A2, Ground floor 2.34 SYM: Gait and balance Anatomy of a Fall: Is the microprocessor knee the only suspect? <i>Robert Gailey</i>	Room A5, Ground floor 4.04 AIC: Education Structuring Interven- tions for Children with Neuromotor Impair- ments – A Multidiscipli- nary and Family-Cen- tered Approach Michael Rexing	Room A6, Ground floor 2.35 SYM: Outcome measurements Advancing measurement in lower limb orthotics: development, testing & clinical implementation of the Orthotic Patient- Reported Outcomes – Mobility (OPROM) survey instrument Geoff Balkman	Room A7, Ground floor 5.44 Prize Nominees Session Best papers "Advancing clinical treatment" and "Advancing P&O" Corry van der Sluis, Cleveland Barnett
10:15	Exhibit and poster viewing	g break			
10:45				novement translated into	P&O practice, and back
11:30	Presentation of Blatchfor	rd Team Prize for Innovati	on (Room K1, Ground floor	-)	
11:45	LUNCH TIME - Exhibit an	d poster viewing break		t	
13:00	2.36 SYM: Prosthetics lower limb: transtibial, ankle, foot A multidimensional approach merging cutting edge technology and patient's insight to empower prosthetists in residual limb assess- ment and socket design <i>Elena Seminati</i>	3.11 BIC: Device fabrication and design Digital Workflow for Prosthetic Socket Production – Clinical and Workshop Practises Breda Clancy	2.38 SYM: Rehabilitation medicine and surgery Pros and Cons using National Registry Data for research – examples from SwedeAmp <i>Kerstin Hagberg</i>	2.39 SYM: Rehabilitation medicine and surgery Post-amputation pain: 100 years of progress Jackson Linke	4.06 AIC: Orthotics: lower limb and footwear Rocker Profile Shoes: Design parameters & Biomechanics Juha Hijmans
14:15					
14:30	4.07 AIC: Orthotics: lower limb and footwear Aligning the ankle-foot orthoses <i>Noel Keijsers</i>	2.40 SYM: Education Dynamic tools to advance sustainable workforce development for prosthetists and orthotists in alignment with the Rehabilitation 2030 agenda <i>Cheryl Footer</i>	4.08 AIC: Prosthetics and Orthotics: upper limb Advances in Upper Extremity Prosthetic Suspension Technology and Techniques <i>Gerwin Smit</i>	2.41 SYM: Therapy, physical activity, sports Using knowledge of lived experiences to improve rehabilitation services for lower limb amputees Jette Schack	5.51 FPS: Orthotics: lower limb and footwear Children and adolescents Juha Hijmans, Yiying Zou
15:45					
16:00	Closing Ceremony (Room	n K1, Ground floor)			
17:00					



Scientific programme Room A8, Ground floor	Scientific programme Room K11, First floor	Scientific programme Room K16, First floor	Scientific programme Room K18/19, First floor	Technical track NEW Room A3, Ground floor	Time
5.45 FPS: Prosthetics: lower limb transfemoral Device design Svea Lüdorff, Shin Sasaki	5.46 FPS: Health care, policy, sustainability Natural guidelines, policies and practice Nicolaas Pickard, Lis Sjöberg	4.05 AIC: Prosthetics: bone anchored limbs Towards optimal prosthetic alignment of transtibial bone- anchored limbs <i>Ruud Leijendekkers</i>	5.47 FPS: Prosthetics and Orthotics: upper limb Sockets and activity specific devices <i>Tonja Robida,</i> <i>Sam Walters</i>	7.15 TT: P&O Material science & fabrication techniques More efficient and more sustainable fabrication processes in 0&P industry Brad Mattear, Ian Adam	09:00
					10:15

Han Houdijk | Moderator: Cleveland Barnett 10:45 11:30 11:45 5.48 | FPS: 2.37 | SYM: Education 5.49 | FPS: Prosthetics: **FPS:** Outcome 7.16 | TT: P&O 13.00 Psychosocial issues Quality and Sustainabone anchored limbs measurements Fabrication techniques Supporting psychosocial bility of Prosthetics and Programmes and Characterising patient Advancing Techniques wellbeing Orthotics Education in interfaces outcomes 1 in Orthotic Ankle Joint the South and South-Nikolaos Papadimitriou. Maggie Donovan-Hall, Beniamin Darter. Fabrication: Design. east Asia Region Peter Vee Sin Lee Berangere Gohy Materials, and Manu-Sally Gates Denver Graham facturing Processes Brad Mattear, Nigel Birkett 14:15 5.55 | FPS: Outcome 7.17 | TT: P&O Material 14:30 5.52 | FPS: 5.53 | FPS: Gait and 5.54 | FPS: Health care, Prosthetics: lower limb balance policy, sustainability measurements science transfemoral Rehabilitation Comparative Characterising patient Silicones - an innovative Sockets material with high po-Michael Baldock, interventions and outcomes 2 Charlotte Bosman. Edward Lemaire innovative protocols Thearith Heang, tential in individualized Joan Sanders Chonthicha Reslin Schelhaas 0&P care Chaemkhuntod. Brad Mattear. Benje Theron Niklas Toth

> 15:45 16:00

17.00

Scientific posters

Scientific posters are displayed in the foyer and exhibition hall. Posters are viewable during the daily exhibition opening hours throughout the entire duration of the congress. Poster presenters will be available to discuss their work with delegates during the 'meet the presenter' poster viewing times as detailed below.

In addition, presenters of highly ranked posters will present their poster in rapid fire 1-minute, 1-slide presentation in a free paper session on Monday, Tuesday and Wednesday afternoon.

Posters that ranked highest during the review are nominated for the Best Poster Prize. Presenters will pitch their poster in a similar rapid fire, 1-minute, 1-slide presentation preceding the morning keynote lecture on Wednesday.

Poster pitch 1: Monday, 16 June followed by "Meet the presenters" poster viewing	14:30 - 15:45 15:45 - 16:15
Poster pitch 2: Tuesday, 17 June followed by "Meet the presenters"	14:30 - 15:45
poster viewing	15:45 - 16:15
Prize Nominee Session – Best poster prize: Wednesday, 18 June	11:30 - 11:35
Poster pitch 3: Wednesday, 18 June followed by "Meet the presenters" poster viewing	15:00 - 16:15
	16:15 - 16:45

Congress topics	Poster numbers	Time
Prosthetics: lower limb transfemoral	6.001-6.009	Monday, 16 June, 15:45-16:15
Prosthetics: lower limb transfemoral	6.010-6.026	Tuesday, 17 June, 15:45-16:15
Prosthetics lower limb: transtibial, ankle, foot	6.027-6.040	Tuesday, 17 June, 15:45-16:15
Prosthetics lower limb: transtibial, ankle, foot	6.041-6.050	Wednesday, 18 June, 16:15-16:45
Prosthetics: bone anchored limbs	6.051-6.058	Wednesday, 18 June, 16:15-16:45
Prosthetics and Orthotics: upper limb	6.059-6.068	Monday, 16 June, 15:45-16:15
Prosthetics and Orthotics: in less resourced settings	6.069-6.076	Monday, 16 June, 15:45-16:15
Orthotics: spinal	6.077-6.082	Monday, 16 June, 15:45-16:15
Orthotics: lower limb and footwear	6.083-6.096	Monday, 16 June, 15:45-16:15
Orthotics: lower limb and footwear	6.097-6.102	Tuesday, 17 June, 15:45-16:15
Gait and balance	6.103-6.113	Tuesday, 17 June, 15:45-16:15
Education	6.114-6.121	Wednesday, 18 June, 16:15-16:45
Health care, policy, sustainability	6.122-6.131	Tuesday, 17 June, 15:45-16:15
Outcome measurements	6.132-6.144	Monday, 16 June, 15:45-16:15
Psychosocial issues	6.145-6.146	Monday, 16 June, 15:45-16:15
Paediatrics	6.147-6.150	Monday, 16 June, 15:45-16:15
Rehabilitation medicine and surgery	6.151-6.163	Wednesday, 18 June, 16:15-16:45
Therapy, physical activity, sports	6.164-6.175	Wednesday, 18 June, 16:15-16:45
Device fabrication and design	6.176-6.189	Wednesday, 18 June, 16:15-16:45
Robotics, soft robotics, exoskeletons	6.190-6.196	Tuesday, 17 June, 15:45-16:15



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- Venue plan
- Exhibition hall plan
- Exhibitor directory
- Exhibitor workshops
- Start-ups
- Start-up pitches



Midsommar Welcome Reception

Monday, 16 June, 17:30-20:00 Exhibition Hall

Everyone is welcome to join! If you have pre-registered for the reception please bring your voucher to receive a free welcome drink.

"Midsommar" marks the official start of summer and is one of Sweden's most important holidays. Don't miss out to experience a little Swedish hospitality and enjoy hors d'eouvres, drinks and entertainment while visiting the exhibitors.



Social events – Don't miss out on our social highlights!

P.P.I

City Hall Reception

Tuesday, 17 June, 19:00-21:00 Stockholm City Hall Ragnar Östbergs Plan 1 (entrance from the courtyard)

Please bring your invitation and name badge with you. Arrive by 18:45, doors close at 19:00.

The City of Stockholm and Region Stockholm are hosting a reception exclusively for the participants of the I.S.P.O. World Congress in Stockholm City Hall, most well-known for hosting the Nobel Prize banquet each year. This social event offers the best opportunity to visit one of the most famous silhouettes in Stockholm and enjoying a special evening with standing buffet and special guided tours through the city hall.



Fika & Get-together for early career professionals

Monday, 16 June 2025, 08:30-09:15 K-Foyer, Ground floor

Students and early career professionals are welcome to join. Pre-registration is not required.

To help early career professionals kickstart their congress experience, ISPO invites to a special Fika & Get-together. Join us to meet and connect with peers from around the world and expand your global network!





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The International Society for Prosthetics and Orthotics (ISPO) is a global, multidisciplinary, non-governmental organisation aiming to improve the quality of life for persons who may benefit from the rehabilitation practice of prosthetic, orthotic, mobility, and assistive technology. ISPO is sometimes misunderstood as representing only prosthetists and orthotists, but, in fact, it is far more inclusive that than that. 'P' and 'O' stands for Prosthetics and Orthotics and, for more than 50 years, ISPO has provided an effective platform for the exchange and communication on all aspects of the science and practice associated with the provision of mobility products (prostheses, orthoses, wheelchairs) rehabilitation engineering, wheelchairs and related areas, such as therapy. Membership is multi-disciplinary and thus includes professionals of all disciplines with an interest in the subject and the service.

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You can also call the security cor CSG for immediate assistance. They can be reached at	mpany, +46 (0) 8 749 99 11
A medical team is available in the registration area for immediate medical assistance. They can be reached at	+46 (0) 8 749 41 61

Name badges

All participants must wear a name badge at the venue. Please note that only participants wearing "congress" badges are entitled to attend the scientific and technical sessions.

Education credits

Scan your badge at the entrance to the session rooms to get the American Board for Certification in Orthotics, Prosthetics & Pedorthics (ABC) and / or ISPO Continuous Professional Development (CPD) credits.

Certificate of attendance

Congress delegates will receive a certificate of attendance digitally per email after the Congress.

Catering

Food and beverages are available for purchase at Stockholmsmässan.

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Limited refreshments and coffee are provided complimentary in the catering areas located in the exhibition hall during the breaks.

Pre-ordered lunch

If you have pre-ordered your lunch during online registration, please pick up your lunch vouchers at the onsite registration desk. Exchange the lunch voucher of the respective day for your lunch box in the catering areas in the exhibition hall during the lunch break. Note: you will not be able to change your lunch selection.

Water stations

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Water fountains are available in different areas. Please bring your own water bottle.

Changes to the programme

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

Cloak

A cloak room / coat check is available at Stockholmsmässan (40 SEK / coat or bag).

Room of Silence

A room of silence is available in the congress area.





INTERNATIONAL SOCIETY FOR PROSTHETICS AND ORTHOTICS

International Society for Prosthetics and Orthotics

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