



TECHNICAL-SCIENTIFIC PROGRAM

WEDNESDAY, MARCH 8TH, 2023

08:00h - 08:45h ACCREDITATION

08:45h - 09:00h PRESENTATION CEREMONY

1st TABLE. ORTHOTIC TREATMENT OF SPASTICITY

Mr. Jorge Ruibal > Moderator

Orthoprosthesis technician. Manager of Ortosalnés Orthopedics. Vice-president of the Spanish Orthopaedic Federation (FEDOP). President of the Association of Orthopedic Technicians of Galicia (ATOG).



09:00h - 09:30h Spasticity: Another way of understanding muscle weakness

Mrs. Ana León

Physiotherapist and orthoprosthesis technician, with extensive teaching experience. Technician of superior degree in orthoprosthesis, with international master's degree ISICO, and graduated in Physiotherapy. Member of SOSORT, SEN & SEFIP.



09:30h - 10:00h Cervical orthosis for drooping head syndrome (DHS)

Dr. Jorge Areán

Doctor specialist in Physical Medicine and Rehabilitation. Brain Injury and Spinal Cord Injury Rehabilitation Unit at Hospital Universitario Central of Asturias. Master's Degree in Evaluation of Body Injury. Vice-President of the Asturian Society of Rehabilitation.

Sponsored by **ORTOIBÉRICA S.L**



10:00h - 10:30h Spasticity: Team treatment of the patient in teams

Mr. Leopoldo Fernández

Director of the Technical Department of E.M.O., S.L. Orthopedic technician and graduated in Pharmacy. He has taken and taught many prestigious courses at national and international level.

Sponsored by **EMO S.L.**



10:30h - 11:00h **PANEL DISCUSSION**

16:00h - 17:00h **WORKSHOP. Ergotec Manufacturing Center: Innovative solutions in technical orthoses**

Managed by ORLIMAN S.L

17:00h - 18:00h **WORKSHOP. Knee Orthosis for Monocompartmental Gonarthrosis and Posterior Cruciate Ligament**

Managed by MEDI BAYREUTH ESPAÑA S.L

THURSDAY, MARCH 9TH, 2023

08:30h - 09:00h **ACCREDITATION**

2nd TABLE. DIFFERENT MATERIALS IN THE MANUFACTURE OF PROTHESES & ORTHOTICS

Mr. Frederic Esteve > Moderator

Orthoprosthesis technician, Pioneer in the installation of the first integrated CAD system in Spain. Professor at the University of Barcelona UB. President of the Association of Orthopedics of Catalonia (AOCAT).



09:00h - 09:30h **I.N.E.S.S (innovative silicon edge system) or how to imagine flexible socketing**

Mr. Stéphane Paillet

Superior Technician in orthoprosthesis and support products. I.N.E.S.S. Creation and Management TRINYTEC, research and development in the field of orthopedic devices. Presentation of patents.

Sponsored by **OKM QUÍMICA ORTOPÉDICA S.L.**



09:30h - 10:00h **Protheflex System – Flexible socket system**

Mr. Zmagó Vidrih

Certified Orthotic and Prosthetic Engineer, CP II. Inventor of the Protheflex system - flexible socket system. The inventor of PRS-PVA pouches (used for lamination process especially with PU and Epoxy resins. Inventor of the prosthetic sports knee / Art-Leg sports knee.



10:00h - 10:30h **Latest developments in materials, eco-range and workplace efficiency**

Mr. Tino Hartmann

Trainee at Ottobock Germany; Paramedic at Red Cross. CPO, Product Manager, in charge of planning the company's products and services, at Ottobock Benelux in Netherlands; Trainer at Ottobock Global Academy in Germany.

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10:30h - 11:00h **PANEL DISCUSSION**

11:00h - 11:30h **BREAK**

3th TABLE. SEDESTATION & POSTURAL CONTROL IN NEUROLOGICAL PATHOLOGIES

Mr. Juan Aldeano > Moderator

Orthoprosthetic technician. Mobility Area Manager at EOP; Manager at Orto Ayudas S.L. Collaborating Professor ISEP CEU. President of CSS InterOrtho and Vice-President of the Association of Orthotists and Prosthetists in Madrid Castilla-La Mancha.



11:30h - 12:00h **Treatment of symptoms or causes of sitting problems. The importance of respecting the movement of patients**

Mr. Mark Smit

Physiotherapist international account manager and international clinical educator. Educational activities for Vicair. Expert in seating and positioning in the assistive technology market.

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12:00h - 12:30h **Understanding 24h postural management as a living process**

Mr. Rubén Serrano

Occupational therapist and training manager at Rehagirona. CEO and teacher at the company [O]teca. Recipient of the Poster award for “Socioeconomic Diversity in occupational therapy worldwide”.

Sponsored by REHAGIRONA S.L.

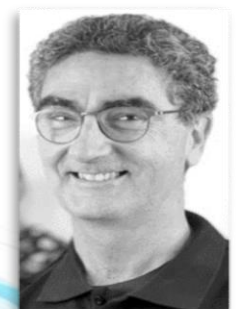


12:30h - 13:00h **Customized seating versus modular positioning systems**

Mr. Xavier Bosch

Orthoprosthetic technician. Manager of “Bosch Ortopedics”, orthopedic clinics. Manager of Handy Free Solutions, CFAB of customized positioning systems using CAD-CAM technology and distribution of positioning products.

Sponsored by HANDY FREE SOLUTIONS S.L.



13:00h - 13:30h **The influence of driving on postural management and seated posture**

Mrs. Patricia Barroso

Occupational Therapist. Clinical Specialist Coordinator Power Mobility and Product Specialist at Sunrise Medical. Founder of [O]teca and occupational therapist (neurorehabilitation); and data analyst at Moravia.

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13:30h - 14:00h **PANEL DISCUSSION**

08:30h - 09:00h ACREDITATION

KEYNOTE SPEECH BY PROF. HUGH HERR

09:00h - 09:45h *On the Design of Bionic Limb Devices: The Science of Tissue-Synthetic Interface*



Prof. Hugh Herr:

Hugh Herr is creating bionic limbs that emulate the function of natural limbs. Time Magazine coined Dr. Herr the 'Leader of the Bionic Age' because of his revolutionary work in the emerging field of Biomechatronics - technology that marries human physiology with electromechanics. A double amputee himself, he is responsible for breakthrough advances in bionic limbs that provide greater mobility and new hope to those with physical disabilities. He is Professor of Media Arts and Sciences and Associate Investigator at the McGovern Institute at MIT. Professor Herr directs the MIT Biomechatronics Group and co-directs the K. Lisa Yang Center for Bionics.

Herr is the author and co-author of over 250 peer-reviewed manuscripts and patents, chronicling the science and technology behind his many innovations. These innovations include active Leg Exoskeletons, Powered Ankle-Foot Prostheses, and neural interfacing technologies. A powered ankle-foot prosthesis called EmPower, which emulates the action of a biological leg and, for the first time, provides amputees with a natural gait, was named to the list of Top Ten Inventions in the health category by TIME magazine in 2007. Today the EmPower Ankle-Foot Prosthesis has been clinically shown to be the first leg prosthesis in history to reach human normalization, allowing amputees to walk with normal levels of speed and metabolism as if their legs were biological once again. In 2015, Herr's MIT research group invented the Agonist-Antagonist Myoneural Interface, a novel surgical procedure for limb amputation and neural interfacing that allows persons with limb loss to control their synthetic limbs through thought, as well as to experience natural proprioceptive sensations. Herr has received many accolades for his groundbreaking innovations, including the 13th Annual Heinz Award for Technology, the Economy and Employment; the Smithsonian American Ingenuity Award in Technology, the 14th Innovator of the Year Award, and the 41st Inventor of the Year Award, the Princess of Asturias Award for Technical & Scientific Research, and the Liberty Museum Genius Award. Hugh's story has been told in a National Geographic film, *Ascent: The Story of Hugh Herr*; and episodes and articles featured in CNN, The Economist, Discover and Nature.

Abstract:

Critical to the advancement of bionic technology that emulates or extends normal physiological function is the design of tissue-synthetic interfaces connecting the human body with electromechanics. In this talk, I describe research activities underway to advance mechanical and neural interfaces for the functional enhancement of bionic limb devices. I present novel prosthetic, orthotic and exoskeletal limbs that behave dynamically like their biological counterpart, peripheral neural interfaces that serve as an electrical interface with the external bionic limb, and novel osseointegration technology for the mechanical and neural transmission of the bionic device to the biological limb. Further, I present a digital nervous system designed to artificially control paralyzed musculature for the restoration of motor function for persons with limb pathology. Finally, critical areas of future research are discussed that must be advanced to step towards the next generation of bionic limb systems.

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09:45h - 10:45h PANEL DISCUSSION

Mr. Jens Müller > Moderator

Orthoprosthesis technician. Managing Director and Technical Director of Jens Muller OPC S.L.; Former Technical Director of Ottobock Ibérica.

Teaching collaborator in several universities and teaching centers.



Members

Mr. Jorge Ruibal: Orthoprosthesis Technician, Chairman of the Technical Scientific,

Mr. Frederic Esteve: Orthoprosthesis Technician and Vocal of the Technical Scientific Committee,

Ottobock Representative: Lore

Ipsum.....

10:45 h

CLOSING OF THE TECHNICAL-SCIENTIFIC CONGRESS

EXHIBITION

SCHEDULE

- WEDNESDAY, MARCH 8th AND THURSDAY, MARCH 9th
10:00h - 19:00h
- FRIDAY, MARCH 10th
10:00h - 15:00h

ACTS

- WEDNESDAY
11:30h - 12:30h OPENING INSTITUTIONAL VISIT TO THE EXHIBITION
 - THURSDAY
14:00h - 16:00h MEMBER'S DAY CELEBRATION - FEDOP STAND/POLYVALENT AREA
 - FRIDAY
10:45h - 12:00h CLOSING CEREMONY - FEDOP STAND/POLYVALENT AREA
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ORGANIZING COMMITTEE

President: D. Esteban Junquera

Members:

Mrs. Concepción Rico

Mrs. Olga Sanz

TECHNICAL-SCIENTIFIC COMMITTEE

President: D. Jorge Ruibal

Members:

Mr. Frederic Esteve

Mr. Jens Müller

Mr. Juan Aldeano

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