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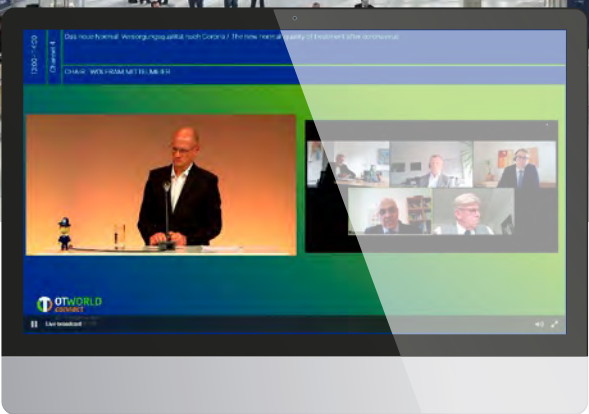
Programme overview for the Media Library and the Innovation Showrooms 2020

Available until 31 January 2021



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CONTENTS OF THE MEDIA LIBRARY

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SCIENTIFIC WORLD CONGRESS



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SCIENTIFIC WORLD CONGRESS

27 OCTOBER 2020

09:30 – 10:30 SYMPOSIUM | PROSTHETICS / CHIRURGIE



Channel 1 **The impact of emerging technologies in prosthetics and microsurgery on amputee care**

Chair: Frank Braatz

- A new method of collecting data on hand anthropometry for the design of multi-articulating hand prostheses
Heinz-Herbert Homann
 - Osseointegration – first experience
Frank Braatz
 - Osseointegration and its future possibilities
Rickard Brånemark
-

10:15 – 11:15 FREE PAPER | ORTHOTICS



Channel 2 **Orthotics**

Chair: Jürgen Götz, Ingo Pfefferkorn

- A Review of 3-D Ultrasound Application in the Process of Screening, Evaluation and Orthotic Treatment of Patients with Adolescent Idiopathic Scoliosis
Babak Hassan Beygi
 - The electronic aid to counteract the occurrence of spastic movements
Maximilian Moyé
 - Do persons with chronic stroke benefit from using the microprocessor stance and swing control orthosis C-Brace?
Andreas Kannenberg
 - Patient reported outcomes with a novel microprocessor-controlled knee-ankle-foot-orthosis
Mike McGrath
 - Accompanying diagnoses that influence the outcome of corset treatment in adolescent scoliosis
Franz Landauer
-

10:45 – 11:45 SYMPOSIUM | PROSTHETICS



Channel 1 **The short residual limb in the upper and lower extremities**

Chair: Bernd Sibbel, Patrick Schröter

- Special aspects of fitting a short residual lower leg
Robert Helbing
 - The short and ultra-short residual forearm – a challenge
Wolfgang Gröpel
 - The short residual thigh and its challenges
Olaf Gawron
 - Special aspects of fitting a short residual upper arm
Boris Bertram
-



27 OCTOBER 2020

12:00–12:45 SYMPOSIUM | EDUCATION

**Channel 1** Education in change – integration of new technologies

Chair: Axel Sigmund, Lars Grun

- Education and innovation in P&O in Belgium – specific examples from Thomas More University of Applied Sciences
Xavier Bertelee, Veerle Creyelman
- Education in change – integration of new technologies
Saeed Zahedi
- Digital orthopaedic technology in further and advanced training
Lars Grun

11:45–12:45 FREE PAPER | OPEN TOPICS

**Channel 2** Open Topics

Chair: David Hochmann, Jennifer Ernst

- Getting started in additive manufacturing in the field of silicone technology
Teresa Kempf
- SIGMA3D – simulation-assisted med-tech platform for providing custom 3D-printed devices
David Hochmann
- Development of a CAE-assisted process for combining additive manufacturing with textiles for customised orthopaedic devices
Dustin Ahrendt
- FEM model for pressure testing according to DIN EN 12568 for steel caps in safety shoes
Nicole Dirksen

13:00–14:00 COURSE | PROSTHETICS / CHIRURGIE

**Channel 2** Lower leg amputations and prosthetic devices

Chair: Bernhard Greitemann

- What are the requirements for good surgical treatment of the residual limb?
Bernhard Greitemann
- Problems in the treatment of transtibial residual limbs from the surgeon's perspective
Patrick Schröter
- Alternative socket systems, when to use which socket?
Matthias Bauche

SCIENTIFIC WORLD CONGRESS

27 OCTOBER 2020

16:00–17:00 GLOBAL INTERDISCIPLINARY LEADERS | PROSTHETICS



Channel 1 **Advanced upper limb prosthetics**

Chair: John Miguelez, Michael Schäfer

- A prosthetist's perspective on best practices in interdisciplinary treatment of upper limb amputees
John Miguelez
 - A physician's perspective on best practices in interdisciplinary treatment of upper limb amputees
Danielle Melton
 - A therapist's perspective on training and outcome measures to facilitate success for upper limb amputees
Kerstin Baun
-

16:00–17:00 SATELLITE-SYMPOSIUM | PROSTHETICS



Channel 2 **Transfemoral socket design in the US and Germany: What is state of the art?**

Chair: Merkur Alimusaj, Brian Kaluf

- Trends in transfemoral socket techniques and research evidence in the US
Brian Kaluf
 - Biomechanical background and issues in TF-Prosthetics
Merkur Alimusaj
 - NU FlexSIV sub-ischial socket techniques and research results
Ryan Caldwell
 - Current clinical socket standards in transfemoral prostheses in Germany
Tobias Kuhn
 - Biomechanical evaluation of brimless versus ischial containment socket designs: do we need a brim?
Malte Bellmann
-



28 OCTOBER 2020

09:00–10:00 COURSE | DIGITALIZATION

**Channel 1** **Digital methods for capturing shapes**

Chair: Norbert Stockmann, Thomas Mitzenheim

- Fabricating seating shells using CAD/CAM technology
Thomas Mitzenheim
- Experience report on a 3D printed silicone liner
Michael Hofer
- Creating a functional shape in (limb) orthotics using digital methods
Steffen Matyssek

09:00–10:00 FREE PAPER | BIOMECHANICS

**Channel 2** **Biomechanics**

Chair: Daniel Heitzmann, Philipp Bergschmidt

- 3D-SPA – checking the prosthetic alignment in scientific studies
Sebastian Wolf
- A clinical algorithm for sagittal plane kinematic optimization of articulated ankle foot orthoses
Beatrice Janka
- Effects of cross-slopes on the gait of transtibial amputees
Björn Altenburg
- Does microprocessor controlled knee movement influence common activities of daily living when using a knee-ankle-foot orthosis?
Cleveland Barnett
- Analysis and simulation of the main support options for ascending stairs
Max Böhme

10:15–10:45 INTERACTIVE FORMAT | MANUFACTURING TECHNOLOGY

**Channel 2** **Digital design in orthopaedic technology / orthopaedic footwear technology**

Chair: Michael Volkery, Frank Naumann

- Which scanner for what?
Antonius Köster
- Pioneering Industry 4.0 orthotic system
Fion Cracknell
- Discover the possibilities – Solutions from digital prosthetics
Frank Naumann

SCIENTIFIC WORLD CONGRESS

28 OCTOBER 2020

10:15 – 11:15 SYMPOSIUM I ORTHOPAEDIC SHOE TECHNIQUE



Channel 1 **Conservative treatment in orthopaedic footwear technology**

Chair: Martin Engelhardt, Bernhard Greitemann

- The diabetic foot syndrome and its treatment guidelines
Tymoteusz Budny
- Treatment matrix for pes planovalgus
Ulrich Hafkemeyer
- Treatment matrix for pes equinus
Tino Sprekelmeyer

11:15 – 12:15 SYMPOSIUM I PROSTHETICS / CHIRURGIE



Channel 2 **Function-enhancing approaches in prosthetic treatment**

Chair: Michael Schäfer, Urs Schneider

- Hybrid control strategies
Michael Goldfarb
- Neural control in osseointegrated upper limb prostheses
Rickard Bränemark

11:30 – 12:30 FREE PAPER I REHABILITATION



Channel 1 **Rehabilitation**

Chair: Stefan Middeldorf, Ludger Lastring

- Use of orthoses to provide relief following meniscus repair in the context of post-operative rehabilitation – an expert consensus
Axel Schulz
- A passive exoskeleton for overhead work: Description of user benefits on the basis of biomechanical and metabolic parameters
Thomas Schmalz
- Evaluation of usability of passive exoskeletons on the work floor: a step-by-step plan for mapping between exoskeleton, employee and performed task
Eveline De Raeve
- The fibroblast in the “field of tension” of mobilisation via physiotherapy – presentation of a treatment concept and a pilot study
Thomas Koller
- Multiple sclerosis – contemporary approaches to therapy, training and everyday life
Thorsten Böing

13:30 – 14:30 SYMPOSIUM I PAEDIATRIC ORTHOPAEDICS / PAEDIATRIC TREATMENT



Channel 1 **Pediatric neuroorthopaedics**

Chair: Merkur Alimusaj, Frank Braatz

- Pediatric neurological foot deformities and functional deficits
Leonhard Döderlein
- FES for ICP – Outcome measures and biomechanical effects over time
Julia Block
- Treatment paths in neuro-orthotics
Merkur Alimusaj



28 OCTOBER 2020

13:30–14:30 FACTORY TALK | PROSTHETICS

**Channel 2** **Prosthetic treatment – past, present and future**

Chair: Ralph Bethmann

- Specialist knowledge vs. habit – patient care and the related obstacles
Robert Helbing
- Custom socket design for OEX dysmelia prosthesis
Ingo Pfeiffer

13:30–14:30 SYMPOSIUM | TECHNICALLY ASSISTIVE REHABILITATION

**Channel 3** **TAR Conference:****Opening Speech and Session Assistive Technologies and Prosthetics**

Chair: Rupp Rüdiger, Malte Bellmann, Marc Kraft

- Effects on ankle power and sound limb load with an active prosthetic foot
Eva Pröbsting
- Socket design and socket adduction – How ischium or ramus containment and prosthetic alignment help reducing upper body compensatory movements
Malte Bellmann
- Reduction of back injuries in caregivers using collaborative robotics: Requirement analysis and concept design
Maximilian Siebert
- Designing a tangible solution to encourage playful hand usage for children with cerebral palsy
Christina Mittag

14:45–15:15 KEYNOTE LECTURE | TECHNICALLY ASSISTIVE REHABILITATION

**Channel 3** **TAR Conference:****The quest for a bionic hand – recent achievements and future perspectives**

Silvestro Micera

15:30–16:30 SYMPOSIUM | TECHNICALLY ASSISTIVE REHABILITATION

**Channel 3** **TAR Conference: Rehabilitation robotics and orthotics**

Chair: Catherine Disselhorst-Klug, David Hochmann

- Design of a 3D-printed hybrid mechanical structure of a hand exoskeleton for stroke survivors to facilitate donning and doffing
Jens Vertongen
- Knee joint osteoarthritis: Evaluation of the effect of different orthotic treatment concepts
Thomas Schmalz
- Development and testing of an artificial multi-layer soft-tissue model for the testing of orthopaedic devices
Steven Mücke
- Long-term changes in technology acceptance of a robotic system in stroke treatment: A pilot study
Natalie Jankowski

SCIENTIFIC WORLD CONGRESS

28 OCTOBER 2020

16:00 – 16:45 KEYNOTE LECTURE | PROSTHETICS



Channel 1 **Trends in lower limb prosthetics research:
Enhancing adaptability through powered and semi-powered devices**
Michael Goldfarb

16:00 – 17:00 SATELLITE-SYMPOSIUM | RESEARCH



Channel 2 **Assessments, documentation and clinical sciences for research alongside
routine care**

Chair: Merkur Alimusaj, Brian Kaluf

- Creating evidence during daily work: A prosthetic registry
Merkur Alimusaj
 - Assessment tools for prosthetics and orthotics
Urban Daub
 - Balancing patient care needs and research demands
Ryan Caldwell
 - Strategies for conducting research in a small practice setting
Brian Kaluf
-



29 OCTOBER 2020

09:00 – 10:00 SATELLITE-SYMPOSIUM | FOOT AND SHOE



Channel 2 **A comprehensive approach for the ankle – foot surgery meets technical orthopaedics**

Chair: Hartmut Stinus, Markus Walther

- Ligament and cartilage injuries in the upper ankle
Hartmut Stinus
- Fractures and the treatment of the upper ankle
Christopher Spering
- Osteoarthritis of the upper ankle joint – treatment option consisting of osteotomy, arthrodesis, prosthesis for upper ankle joint
Markus Walther
- Technical-orthopaedic solutions after upper ankle surgery
Michael Möller

09:00 – 10:00 COURSE | PROSTHETICS / CHIRURGIE



Channel 1 **Wound coverage and requirements for prosthetic treatment**

Chair: Michael Steen, Bernhard Greitemann

- Indication for small dermoplasties and flap plasties
Kim Glapa
- Flap plasties for the diabetic foot
Dirk Theodor Schraeder
- Larger repositioned flaps, vascularised flaps, latissimus transfer
Michael Steen

10:15 – 11:00 KEYNOTE LECTURE | OPEN TOPICS



Channel 1 **Participation, accessibility and inclusion**

Raúl Aguayo-Krauthausen

11:00 – 12:00 COURSE | DIGITALIZATION



Channel 2 **Digital workshop processes – the paperless workshop**

Chair: Ingo Pfefferkorn, Roland Dötzer

- Using digital approaches to turn a plaster model into a workpiece
Marc Damerau
- Digital documentation in P&O – duty or choice in treatment
Christian Hartz
- Fabricating custom devices using digitally supported production processes
Peter Zender

SCIENTIFIC WORLD CONGRESS

29 OCTOBER 2020

11:15 – 12:15 FREE PAPER | ORTHOTICS



Channel 1

Orthotics lower extremities

Chair: Ludger Lastring, Frank Braatz

- Orthoses in the context of treating knee osteoarthritis – biomechanical effect of combining an AFO and a low arch and flatfoot insole
Thomas Schmalz
- How effective is a passive dynamic ankle foot orthosis (PD AFO) at improving patient reported outcomes measures in injured military personnel?
Mike McGrath
- Conservative treatment for knee osteoarthritis – comparison of an ankle foot orthosis and a laterally wedged insole
Leonie P. Bartsch
- Patient compliance – what's important to knee osteoarthritis patients when selecting orthoses to relieve their symptoms? A multi-centre-study
Jana Rogoschin
- Interim 6-months results from a registry of a microprocessor stance and swing control knee ankle foot orthosis
Russ Lundstrom

12:15 – 13:15 SALELLITE-SYMPOSIUM | REHABILITATION



Channel 2

Rehabilitation in sports

Chair: Martin Engelhardt, Christoph Lutter

- Rehabilitation after an ACL injury from a medical perspective
Casper Grim
- Rehabilitation after an ACL injury from a therapeutic perspective
Jürgen Freiwald
- Return to sports – test methods
Matthias W. Hoppe
- Devices in sports – what really works?
Christoph Lutter
- Rehabilitation in sports for people with disabilities
Bernhard Greitemann

12:30 – 13:15 INTERACTIVE FORMAT | EDUCATION



Channel 1

Education standards

Chair: Claude Tardif

- Prosthetic orthotic education standards
Helen Cochrane
- Global educators meetings
Mary Scott
- E-learning
Christian Schlierf
- Wheelchair
Claude Tardif



29 OCTOBER 2020

13:15 – 13:45 KEYNOTE LECTURE | TECHNICALLY ASSISTIVE REHABILITATION



Channel 3 **TAR Conference:**
Targeted Muscle Reinnervation (TMR)
 Oskar Aszmann

13:30 – 14:30 SYMPOSIUM | DIGITALIZATION

**Channel 1** **Digital concepts from practice for practice**

Chair: Christian Kienzle, Michael Möller

- Correction simulation as key to the implementation of digital concepts in orthotics
Christian Kienzle
- Direct digital manufacturing in patient-specific O&P products
Jiri Rosicky
- Parametric design can facilitate the design of 3D printed bespoke aids for daily living
Veerle Creylman

13:30 – 14:30 FACTORY TALK | ORTHOTICS

**Channel 2** **Orthotic treatment – past, present and future**

Chair: Franz Landauer

- Looking to the past as a guide for the future
Franz Landauer
- Current technical developments in orthotic treatment
Hannes Stabauer, Alois Rettensteiner
- Current medical influences on orthotic treatment in hospitals
Merkur Alimusaj
- The future in the workshops from the perspective of “Young ISPO Austria”
Alexander Pirnbacher, Anna Biedermann

14:00 – 15:00 SYMPOSIUM | TECHNICALLY ASSISTIVE REHABILITATION



Channel 3 **TAR Conference:**
Innovation clusters INOPRO and INTAKT

Chair: Michael Friedrich Russold, Roman Ruff

- A multi-channel implantable system to restore natural sensory feed-back in amputees
Patrick Kiele
- Intermuscular coupling analysis during upright standing after a uni-lateral transfemoral amputation
Christian Pasluosta
- Interactive implants in a network – the innovation cluster INTAKT
Roman Ruff
- Electrical stimulation of five parts of the gastrointestinal tract: Preclinical study
Karen Stumm



29 OCTOBER 2020

14:45 – 15:45 SYMPOSIUM | REHABILITATION



Channel 2 **New approaches in rehabilitation**

Chair: Stefan Simmel, Stefan Middeldorf

- Digitalisation in rehabilitation – the MEDIAN app
Johannes Schröter
 - Patient-centred telerehabilitation (PACT): the role of conventional and digital mirror therapy in the treatment of phantom pain after an amputation
Andreas Rothgangel
 - Tele-prevention with the Employer's Liability Insurance Association (VBG)
Frank Merten
 - Using new types of training in rehabilitation – EMS training
Frank Mooren
-

15:00 – 15:30 KEYNOTE LECTURE | TECHNICALLY ASSISTIVE REHABILITATION



Channel 3 **TAR Conference: Towards a long-term communication with the brain in the blind – challenges and future prospects**

Eduardo Fernández Jover

16:00 – 17:00 SYMPOSIUM | PROSTHETICS / CHIRURGIE



Channel 2 **Osseointegration**

Chair: Matthias Bauche, Michael Schäfer

- Osseointegration and extended man-machine-interfaces
Rickard Brånemark
 - About transcutaneous, osseointegrated prosthetic systems (TOPS) – 20 years of experience with Endo-Exo-Prostheses for rehabilitation following limb amputation
Horst-Heinrich Aschoff
-

16:00 – 17:00 SYMPOSIUM | TECHNICALLY ASSISTIVE REHABILITATION



Channel 3 **TAR Conference:
Human technology interaction**

Chair: Frank Braatz, Thomas Seel

- Comparative study on the effectiveness of an electric versus conventional rollator during rehabilitation of apoplectic stroke patients
Franziska Knaack
 - Wireless retina implant with optical energy supply
Thomas Velten
 - Comparison of six different marker sets to analyze knee kinematics and kinetics during landings
Annette Kerkhoff
 - Validation method for body-mounted sensor attachments
Katharina Schmidt
-

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SECTOR- POLITICAL FORUM

27 OCTOBER 2020

13:00–14:00 PANEL DISCUSSION



Channel 4 **The new normal: quality of treatment after coronavirus**

28 OCTOBER 2020

14:45–15:45 PANEL DISCUSSION



Channel 4 **The MDR is on its way – is the industry ready for it?**

17:15–18:00 LIVE-STUDIO



Channel 4 **First coronavirus, then the MDR**

29 OCTOBER 2020

08:00–08:30 LIVE-STUDIO



Channel 4 **Challenges and solutions in the time with Corona**

14:45–15:45 PANEL DISCUSSION



Channel 4 **Global focus: International treatment quality – the coronavirus crisis and other challenges**

17:15–18:00 LIVE-STUDIO



Channel 4 **Stay connected! OTWorld in a loop**








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OTWORLD INDUSTRY WORKSHOPS

27 OCTOBER 2020

-
- 09:00 – 09:30 **Thera-Go – Functional therapeutic orthotics range** 
Channel 5 Pedro Araújo, ORLIMAN S.L.U.
-
- 11:00 – 11:30 **Introducing Adam's Hand: The World's First Fully Adaptive Bionic Hand** 
Channel 6 Giovanni Antonio Zappatore, BIONIT LABS S.R.L.
-
- 14:00 – 14:30 **Introducing Zeus – the strongest bionic limb** 
Channel 6 Dhruv Agrawal, Aether Biomedical Sp. z o.o
-
- 15:00 – 15:30 **Creating Customized 3D Printed Thumb Braces Using a Digital Workflow** 
Channel 5 Arne Mertens, Twikit NV; Gabi Janssen, DSM Additive Manufacturing
-
- 15:00 – 15:30 **Rehabilitation robotics: The Inail experience** 
Channel 6 Emanuele Gruppioni, Alberto Dellacasa Bellingegni, Centro Protesi INAIL
-
- 17:00 – 17:30 **Lessons learned after creating thousands of fitting (and non-fitting) 3D printed orthotics – turning nice-to-have 3D technology into a clinical-validated orthoses development workflow (+ live demo of Spentys solution)** 
Channel 6 Louis-Philippe Broze, Spentys NV
-
- 17:30 – 18:00 **Self-Management – the core of lymphoedemic treatment** 
Channel 5 Slawomir Pyszniak, THUASNE DEUTSCHLAND GmbH
-

**28 OCTOBER 2020**

-
- 09:00 – 09:30** **Criteria and Method for the selection of the prosthetic liners in accordance with the patient clinical conditions and lifestyle.** 
Channel 6 Giulia Serio, ALPS SOUTH EUROPE s.r.o.
-
- 14:00 – 14:30** **How TwikFit supports Orthobroker to tap into the digital transformation by enabling the easy production of custom-fit 3D printed orthotic products** 
Channel 5 Kaj Sennelöv, Twikit NV; Roel Van Stiphout, Orthobroker
-
- 15:00 – 15:30** **High-Strength, Novel Prosthetic Intervention for Partial Hand and Finger Amputees** 
Channel 5 Drew Leininger, RCM Enterprices LLC dba Naked Prosthetics
-
- 16:00 – 16:30** **Digitalizing the O&P 3D capture and measuring process! More accessible than ever!** 
Channel 5 Michel Babin, TechMed 3D Inc.
-
- 16:00 – 16:30** **Challenging patients with knee OA from biomechanical engineer perspective** 
Channel 6 Gary Bledsoe, Breg, Inc.
-
- 16:30 – 17:00** **Breg Capture – Digital Measurement Preview** 
Channel 6 Samer Moussa, Breg, Inc.
-
- 17:30 – 18:00** **Sprystep flex: Walk, marathon, hike, dunk, tackle!** 
Channel 2 Maximising potential with composite AFOs
Dave Buchanan, THUASNE DEUTSCHLAND GmbH

29 OCTOBER 2020

-
- 11:00 – 11:30** **Process flexibility with the most advanced 7-AXIS ROBOTIC CARVER and SOFTWARE for custom orthoses manufacturing** 
Channel 6 Raffaele D'Achille, Frédéric Desprez, ROBOTICOM – Fabbrica Machinale S.r.l.
-
- 16:00 – 16:30** **Introduction of the TwikFit software platform, enabling the production of made-to-fit orthotics through 3D-printing** 
Channel 6 Arno Vandenschrieck, Twikit NV
-
- 17:00 – 17:30** **How CAD/CAM adoption can grow your business, help more patients and provide enhanced patient care** 
Channel 6 Michael Elder, VORUM Research Corporation
-
- 17:30 – 18:00** **Patients with knee OA in the Covid crisis: The non-pharmacological approach** 
Channel 5 Will Cox, THUASNE DEUTSCHLAND GmbH

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OTWORLD INNOVATION SHOWROOMS

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SHOWROOMS



| PARTICIPATING COMPANIES | COUNTRY |
|--|----------------|
| acriba Service GmbH | Germany |
| Aether Biomedical Sp. z o.o. | Poland |
| ALPS SOUTH EUROPE s.r.o. | Czech Republic |
| Antonius Köster GmbH & Co. KG | Germany |
| Bauerfeind AG | Germany |
| Berufsgenossenschaft Energie Textil Elektro Medienerzeugnisse | Germany |
| BIONIT LABS S.R.L. | Italy |
| Blatchford Europe GmbH | Germany |
| Breg, Inc. | USA |
| Bundesfachschule für Orthopädie-Technik e.V. | Germany |
| Bundesinnungsverband für Orthopädie-Technik | Germany |
| Centro Protesi INAIL | Italy |
| Confairmed GmbH | Germany |
| Covvi Ltd | UK |
| DARCO (Europe) GmbH | Germany |
| Dartfish Germany GmbH | Germany |
| DJO (ORMED GmbH) | Germany |
| Dorset Orthopaedic Company Ltd. | UK |
| DZH Dienstleistungszentrale für Heil- und Hilfsmittelanbieter GmbH | Germany |
| Fabrica Machinale S.r.l. | Italy |
| GHiWell Co., Ltd. | Korea |
| Group of companies METIZ | Russia |
| Heinrich Caroli GmbH | Germany |
| Integrum AB | Sweden |
| ISPO International Society for Prosthetics and Orthotics | Denmark |

| PARTICIPATING COMPANIES | COUNTRY |
|--|-------------|
| Mecuris GmbH | Germany |
| medi GmbH & Co. KG | Germany |
| Michael Martin GmbH & Co. KG | Germany |
| MOWA Healthcare AG | Switzerland |
| NOVENTI HealthCare GmbH | Germany |
| NOWECOR AG | Germany |
| opta data Abrechnungs GmbH | Germany |
| Optica Abrechnungszentrum Dr. Güldener GmbH | Germany |
| ORLIMAN S.L.U. | Spain |
| Orthobroker bvba | Belgium |
| ORTHOSCOOT GmbH | Germany |
| ORTOPEDIJOS TECHNIKA AB | Lithuania |
| OTOS d.o.o. | Croatia |
| Ottobock SE & Co. KGaA | Germany |
| pead software GmbH | Germany |
| RCM Enterprices LLC dba Naked Prosthetics | USA |
| Spentys NV | Belgium |
| Sporlastic GmbH | Germany |
| ST&G Corporation | Korea |
| Streifeneder ortho. production GmbH | Germany |
| Taska Prosthetics Limited | New Zealand |
| TechMed 3D Inc. | Canada |
| THUASNE Germany GmbH | Germany |
| Twikit NV | Belgium |
| Verlag Orthopädie-Technik | Germany |
| VORUM Research Corporation | Canada |
| Wagner Polymertechnik GmbH | Germany |

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POSTER PRESENTATIONS – PROSTHETICS

| | |
|---|----|
| Analysis of patient-reported musculoskeletal pain with use of a powered ankle-foot component | UK |
| Improvements in health-related user outcomes with microprocessor feet | UK |
| Microprocessor knees for bilateral amputees | UK |
| Clinical predictors for improvement in outcomes after lower limb prosthetic fittings | UK |
| Are mobility-related outcome measures affected by varying combinations of prosthetic componentry? | UK |
| The role of the stump muscles in prosthesis control: a new measurement protocol to investigate stump muscles activity during walking | UK |
| The effect of socket movement on limb health | UK |
| Effect of elevated vacuum pressure during inactivity on residual limb circulation | UK |
| Effects of weight bearing in a negative pressure environment on residual limb tissue oxygenation | UK |
| Pressure measurements in prosthetic sockets of transfemoral amputees during ambulation and the relationship with socket fit: A systematic review | UK |
| Analysis of sensitivity and correlation of selected self-reported clinical outcomes in lower-limb prosthetic application based on real world data | UK |
| The future of prosthetics: affordable, 3D-printed, multi-grip myoelectric prostheses for children | UK |
| Prospects for the use of additive technologies in prosthetics of patients with amputation defects at the lower limb | UK |
| Prosthesis satisfaction in lower limb amputees, a systematic review of associated factors and questionnaires | UK |
| Investigating clinical outcomes of trans-femoral interface (socket) fabrication using a novel direct lamination method | UK |

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POSTER PRESENTATIONS – ORTHOTICS

Active ankle-foot-orthosis for ALS rehabilitation



Active spine brace



New design of Knee-Ankle-Foot-Orthosis with controlling dorsiflexion in needed range of motion in patients with drop-foot



Design and analysis of an original powered foot clearance creator mechanism for walking in patients with spinal cord injury



POSTER PRESENTATION – REHABILITATION TECHNOLOGY

An innovative modular postural padding system for hippotherapy: HIPPO MB – From the first idea to practical realization



POSTER PRESENTATION – OPEN TOPICS

Digital transformation and 3D printing in lower extremity prosthetic solution – a new approach for low middle income countries



POSTER PRESENTATIONS – PEDRIATIC TREATMENT

Effectiveness after 2 years of braces designed with CAD/CAM and simulations in adolescent idiopathic scoliosis – a randomized controlled trial



POSTER PRESENTATIONS – REHABILITATION

Motor skills improvement evaluation of cerebral palsy child with lower limbs spasticity by application of variable abduction hip orthosis



Ambulant prehabilitation and rehabilitation of a patient with a transcutaneous osseointegrated prosthesis system (TOPS) of the left femoral





TAR CONFERENCE: TAR E-POSTER PRESENTATION

| | |
|---|--|
| Design of a surface electromyography sensor system for attuning the support by robotic assistance in stroke rehabilitation | |
| Predicting exoskeleton support torques based on human lifting motions using optimal control | |
| Mechanical characterization of the adaptability of prosthetic feet in the frontal plane | |
| Comprehensive development, implementation and evaluation of industrial exoskeletons | |
| INTAKT microimplants for grasp restoration in people with high spinal cord injury | |
| Experimental stimulation platform for electrophysiological applications and interactive implants | |
| Advances in electrical stimulation-based therapy for tinnitus | |
| BrailleRing: A flexible braille display with the potential to be easy-to-clean by its users | |
| Motion classification for a passive lower limb exoskeleton based on derived features | |
| Camera-based climbing analysis for a therapeutic training system | |
| The REX Bionics lower limb exoskeleton can improve function and levels of independence and is an acceptable treatment modality to patients with neurological conditions | |
| Perturbation-based robotic balance training during walking after stroke: Preliminary results of a pilot randomized control trial | |
| Rehabilitation robots in the german healthcare sector: Added value and experience | |
| Actuated ankle exoskeleton for children with crouch gait | |
| Developing a socially assistive robot that matches the needs and expectations of older adults with MCI and their caregivers | |
| A musculoskeletal model for individualized neuromuscular training and rehabilitation on a robotic resistive exercise device | |



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