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# CONGRESS PROGRAMME



# OTWORLD

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and World Congress

**14 – 17 May 2024**  
**Leipzig, Germany**



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OTWORLD 2024

# BAUERFEIND. THE THERAPY.

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HALL 5

## BAUERFEIND AT OTWORLD

If you are interested in a personal meeting on site with our colleagues from the International Sales Department, please contact the following e-mail address:

[internationalsales@bauerfeind.com](mailto:internationalsales@bauerfeind.com)

→ [BAUERFEIND.COM](https://www.bauerfeind.com)



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# WELCOME ADDRESS

Picture credits: BMG/Jean Paulus



Prof. Dr. Karl Lauterbach  
Federal Minister of Health  
Member of the German Parliament

## OTWORLD 2024 IN LEIPZIG

The medical aids sector plays a key role in helping injured persons and persons with disabilities to continue with their everyday lives. I would like to thank all of the business people in the orthopaedic technology sector for their commitment and for their work in delivering a constantly improving healthcare service worldwide. Increasing digitalisation, the use of artificial intelligence and growing demands for products to be climate-neutral all mean that manufacturers of medical aids and the healthcare trades are also faced with drastic changes. Furthermore, in industrialised countries such as Germany, the ageing population and the resulting increase in the prevalence of chronic diseases are expected to lead to a steady growth in demand for medical aids. OTWorld offers an excellent opportunity to exchange experiences



and expertise and play a part in shaping the future as these inevitable developments take their course.

When we look at the world today, it is alarming that recent armed conflicts mean that also victims of terror and violence need medical aids such as prostheses. Today, orthopaedic technology plays a significant role in the care of war-disabled persons in Ukraine. With the support of the German government and the help of the professional skills of German prosthetists and orthotists, we are now able to alleviate at least some of the senseless suffering of war victims who have lost limbs. This cooperation is part of the wide-ranging and vital support that Germany is providing for Ukraine. We will continue to provide unabated support.



To ensure the safe supply of medical aids, we must review the current regulations in terms of their practicality and susceptibility to bureaucracy. Despite the extension of the transitional periods for the EU Medical Device Regulation (MDR), the requirements set by the MDR continue to cause uncertainty in the industry. I am well aware that manufacturers of customised products are faced with particularly high costs and that this includes the healthcare trades. The Federal Ministry of Health will therefore continue its dialogue with the associations of the healthcare trades in order to find acceptable solutions.

I would like to wish everyone who travels to Leipzig for OTWorld 2024 an inspirational event with excellent contacts and great ideas for the future!



## GENERAL INFORMATION

## OVERVIEW OF LEIPZIGER MESSE

 World congress and workshops

 International trade show

## DATES AND FACTS

### VENUE

Leipziger Messe, Halls 1, 3 and 5  
Conference area Messehaus

### DURATION

Tuesday, 14 May to Friday, 17 May 2024

### OPENING HOURS

#### WORLD CONGRESS

9 a.m. to 6 p.m. (on Friday, 17 May 2024, until 4 p.m.)

#### TRADE SHOW

9 a.m. to 6 p.m. (on Friday, 17 May 2024, until 4 p.m.)

### CONGRESS LANGUAGES

German and English with simultaneous translation into each language

### CURRENT INFORMATION

[www.ot-world.com](http://www.ot-world.com)

### ENQUIRIES

[info@ot-world.com](mailto:info@ot-world.com)  
[congress@ot-world.com](mailto:congress@ot-world.com)

## ORGANISERS

### CONCEPTUAL PARTNER

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[www.biv-ot.org](http://www.biv-ot.org)

### TRADEMARK OWNER AND ORGANISERS OF THE WORLD CONGRESS

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### CONGRESS PRESIDENTS

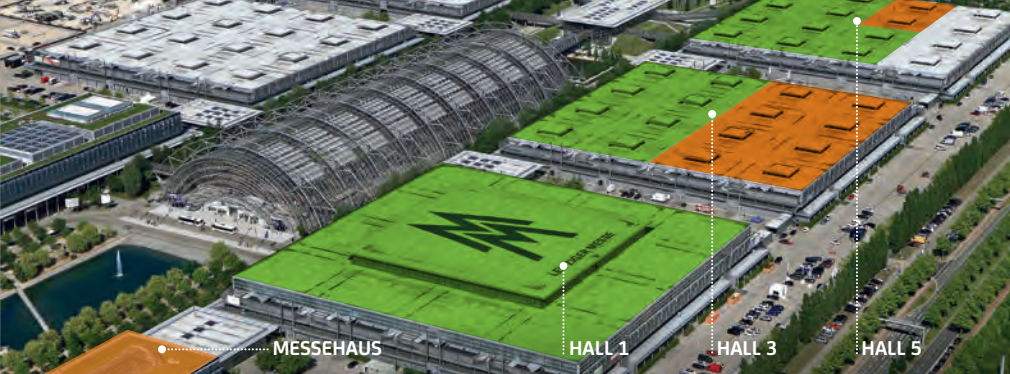
Prof. Dr. Thomas Wirth  
Medical Director of the Orthopaedic Clinic, Olgahospital, Klinikum Stuttgart  
CPO, Ingo Pfefferkorn (Dipl.-Ing. FH)  
Operations Manager at Orthopädie-Technik Scharpenberg e.K., Rostock

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 (Verlag für Orthopädie-Technik)  
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 E-mail: heiko.cordes@biv-ot.org



## FREE TRAVEL ON PUBLIC TRANSPORT (MDV)

All OTWorld admission tickets entitle the holder to one free return journey to and from Leipziger Messe on the day of the event using local public transport operated by the MDV (Mitteldeutscher Verkehrsverbund).  
 Regions/tariff zones: 110, 151, 156, 162, 163, 168, 210, 225

## GENERAL TERMS AND CONDITIONS

Here you can find the general terms and conditions of Leipziger Messe GmbH.



# GENERAL INFORMATION



Get your ticket now:  
[www.ot-world.com/tickets](http://www.ot-world.com/tickets)

## TICKET PRICES

### OTWORLD COMPLETE TICKET – the all-inclusive ticket for the world congress and trade show

<b>Early-bird day ticket</b> (until 31 March 2024)	<b>175.00 EUR</b>
Day ticket, online	<b>210.00 EUR</b>
Day ticket	<b>230.00 EUR</b>
Day ticket, reduced <sup>1</sup>	<b>80.00 EUR</b>
<b>Early-bird full ticket</b> (until 31 March 2024)	<b>520.00 EUR</b>
Full ticket, online	<b>598.00 EUR</b>
Full ticket	<b>640.00 EUR</b>
Full ticket, reduced <sup>1</sup>	<b>200.00 EUR</b>

### OTWORLD TRADE SHOW TICKET – the ticket for the international trade show

Group day ticket (from 4 persons), p.P.	<b>29.00 EUR</b>
Day ticket, online	<b>39.00 EUR</b>
Day ticket	<b>49.00 EUR</b>
Day ticket, reduced <sup>1</sup>	<b>18.00 EUR</b>
Full ticket, online	<b>85.00 EUR</b>
Full ticket	<b>110.00 EUR</b>
Full ticket, reduced <sup>1</sup>	<b>38.00 EUR</b>

<sup>1</sup> reduced tickets are valid for school children, students, trainees, pensioners, disabled persons and receivers of benefits. Proof is required.

The following table gives you an overview of additional events that you can attend with your ticket, as well as information on what is included in each type of ticket

	<b>OTWORLD COMPLETE TICKET</b>	<b>OTWORLD TRADE SHOW TICKET</b>
<b>World Congress</b>		
4 Keynotes by internationally renowned experts	✓	✗
35 symposia with a total of 150 lectures	✓	✗
14 sessions of free papers with over 70 contributions	✓	✗
More than 30 poster lectures	✓	✗
Workshops	✓	✓
Certification / CPD credits	✓	✗ <sup>2</sup>
<b>Trade Show</b>		
Trade show visit	✓	✓
Workshops	✓	✓
Free travel on public transport (LVB)	✓	✓

<sup>2</sup> German prosthetists and orthotists also receive CPD credits if they attend congress workshops during the trade show.







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- verschiedene Varianten vorhanden

### TICKET PRICES FOR THE YOUTH.ACADEMY TO



2-day ticket, early-bird (until 31 March 2024) **50.00 EUR**

2-day ticket, online (from 1 April 2024) **60.00 EUR**

**The ticket price for the Youth.Academy TO includes admission to the following:**

- Trade show on 16 and 17 May 2024
- Congress workshops on 17 May and selected congress presentations on 16 and 17 May 2024
- Meeting point in the Glass Hall, including snacks
- Events organised by the sponsors and OTWorld.campus events
- Party on Thursday evening

**Further information at**  
[www.ot-world.com/youthacademy](http://www.ot-world.com/youthacademy)



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# THE WORLD CONGRESS



The world congress at OTWorld provides further education for everyone from orthotists and prosthetists, orthopaedic footwear professionals and medical supply store staff to therapists and doctors. The central question is "How can we best apply orthopaedic treatment and care to improve the quality of life and social participation for patients?"

Current studies as well as national and international best-practice examples will be presented at the world congress, whereby the personal exchange of experiences will always be the main focus.

The world congress will bring together the full spectrum of further education opportunities. From keynotes, symposia and workshops to free papers, the programme provides all participants with additional knowledge.

Whether the topic is study results or best practice, exemplary orthopaedic treatment and care cases or interesting manufacturing techniques, OTWorld always means exchanging experiences among colleagues. Anyone can take part and everyone takes away insights that make a difference for their patients in everyday life.



## PROGRAMME AND WORKSHOP COMMITTEE

The focus of the congress programme will be set by the congress presidents Prof Dr Thomas Wirth and CPO Ingo Pfefferkorn (Dipl.-Ing. FH).

They are supported by a high-profile programme and workshop committee. This consists of members of various specialist associations and other experts working in the field of orthopaedic treatment and care, orthopaedic footwear technology and medical supply retail as well as medicine and therapy. The members represent both tradespeople and scientific organisations. This ensures the programme at the world congress meets the criteria for an interdisciplinary event.

Responsibility for organising the congress lies with Confirmed GmbH, Gesellschaft für Congressmanagement



Congress President  
Prof. Dr. Thomas Wirth  
Medical Director of the Orthopaedic Clinic,  
Olghospital, Klinikum Stuttgart



Congress President and  
CPO Ingo Pfefferkorn (Dipl.-Ing. FH)  
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## MEMBERS

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LVA Westfalia Muensterland Clinic/  
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**Michael Volkery**  
Michael Volkery Technical Orthopaedics

**Dr. Michael Wachowsky**  
Sana Clinic in Rummelsberg

**Stefan Woltring**  
motioncheck Orthopädie Schuhtechnik  
Stefan Woltring



# THE WORLD CONGRESS



## REVIEWERS

The free papers were subjected to an anonymised review process. Each abstract was independently evaluated by at least two reviewers. The programme committee and the congress office would like to thank the reviewers for their competent contributions to the process.

Merkur Alimusaj (Dipl.-Ing. FH)  
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 Ralph Bethmann  
 Julia Block (Dipl.-Ing. FH)  
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 Prof. Dr. Frank Braatz  
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 Norbert Stockmann  
 Maike Truelsén  
 Dr. Michael Wachowsky  
 Thomas Wetzelsperger  
 Klaus Wiese  
 Prof. Dr. Thomas Wirth  
 Stefan Woltring





## COOPERATIONS

We would like to thank the cooperating professional societies and associations for their support in designing the congress programme.

- Advanced Training Association for Orthopaedic Technology e.V. (FOT)
- Association of Paediatric Orthopaedics e.V. (VKO)
- Association for Quality Assurance in Arm Prosthetics e.V. (VQSA)
- Association of Technical Orthopaedics e.V. (VTO)
- Competence Centre for Orthopaedic Footwear Technology (KomZet O.S.T.)
- Federal German College for Orthopaedic Technology e.V. (BUFA)
- German Association for Feet and Ankles e.V. (D.A.F.)
- German Association of Orthopaedic Technology (BIV-OT)
- German Association for Physiotherapy (ZVK) e.V.
- German Association for Rehabilitation e.V. (DVfR)
- German Society for Foot and Ankle Surgery e.V. (GFFC)
- German Society for Interprofessional Treatment with Orthopaedic Devices e.V. (DGIHV)
- German Society for Orthopaedics and Trauma Surgery (DGOU), Rehabilitation & Physical Therapy Division
- German Society for Orthopaedics and Traumatic Sports Medicine e.V.
- German Society for Phlebology and Lymphology e.V. (DGPL)
- German Society for Physical Medicine and Rehabilitation e.V. (DGPMR)
- Initiative '93 Technical Orthopaedics
- Interdisciplinary Society for Orthopaedic & Accident Surgery and General Pain Therapy e.V. (IGOST)
- ISPO Germany e.V.
- ISPO International
- Medical-Technical Competence Centre for Orthopaedic Technology (MeTKo Centre)
- Study Association of Orthopaedic Footwear Technology e.V.
- The American Academy of Orthotists & Prosthetists (AAOP)

## CERTIFICATION

CPD credit points are available for doctors, prosthetists and orthotists, orthopaedic footwear technicians and physiotherapists attending the world congress. Applications for CPD credit points should be made to the following institutions:

- American Board for Certification in Orthotics, Prosthetics & Pedorthics (ABC)
- Working Group for Orthopaedic Footwear Technology (AGOS)
- German Physiotherapy Association (ZVK) e.V.
- Institute for Quality Assurance and Certification in Orthopaedic Technology (IQZ)
- State Chamber of Physicians of Saxony (SLÄK)
- Ortho Reha Suisse (ORS)

CPD credits from the State Chamber of Physicians of Saxony are recognised by the following institutions:

- Austrian Chamber of Physicians
- Swiss Orthopaedics

# THE WORLD CONGRESS

## CONGRESS STRUCTURE AND CONTENT

The future of orthopaedic treatment and care will be mapped out from 14 to 17 May 2024 at OTWorld in Leipzig at the largest and leading international get-together of professionals working in prosthetics and orthotics.

The OTWorld world congress is designed for the entire healthcare team from managing directors and owners, prosthetists, orthotists and orthopaedic footwear technicians to employees of medical supply stores, doctors and therapists. It covers topics across all areas of technical orthopaedics such as prosthetics, orthotics and rehabilitation, biomechanics, materials research, digitalisation and this year's central topic of paediatric/adolescent and neuro-orthopaedics. The congress is supported by some 30 specialist associations.

In keynote lectures and free papers as well as at symposia and workshops, more than 300 speakers will be facilitating the exchange of experience and knowledge and providing inspiration for interdisciplinary care in everyday life. Every single idea and every advance in knowledge can help to improve a patient's quality of life.



## NEW AT THE WORLD CONGRESS

For the first time, the OTWorld workshop programme will be fully integrated into the world congress and therefore also included in the congress ticket price. The workshops will demonstrate treatments, fabrication methods, materials and supplies as well as holding discussions with patients and attendees. For the first time, an entire training programme designed especially for staff working in medical supply retail will be available with daily workshops on the topic of lymphology and care in medical stores.

## EASY PROGRAMME SELECTION

- The most important content of the keynotes, symposia and workshops is already available in the congress programme in the form of a short take-home message.
- All exhibitor workshops are firmly integrated into the congress to ensure that visitors can benefit from maximum added value.





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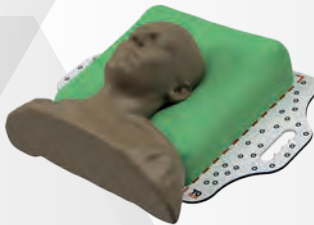
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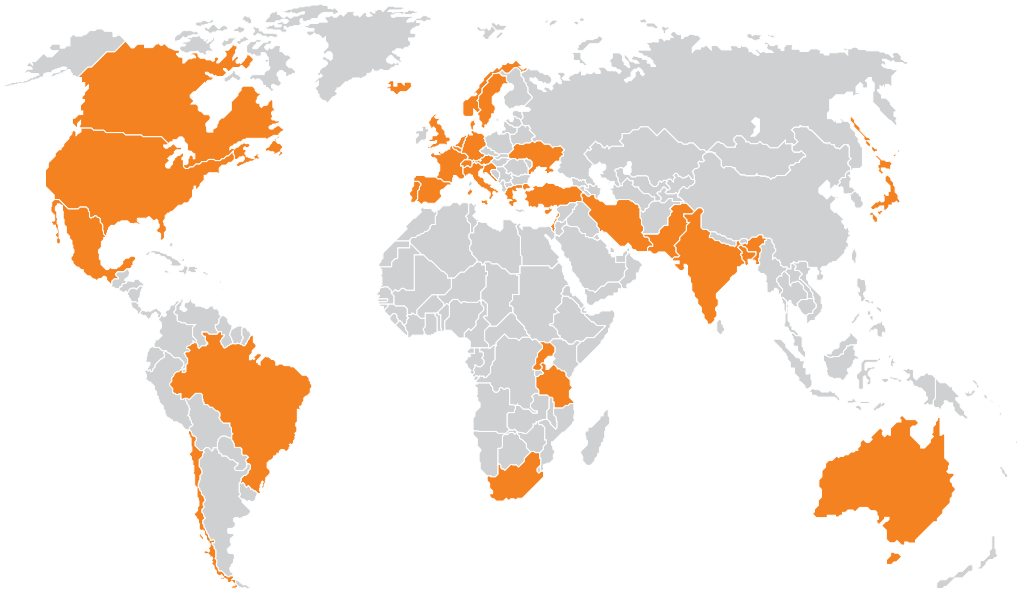
Numerous modules enable individual adaptation to the patient and facilitate the scanning of the upper extremity enormously.



# THE WORLD CONGRESS



## INTERNATIONAL SPEAKERS AT OTWORLD



## PICTOGRAMS AND COLOURS USED IN THE CONGRESS PROGRAMME



Meet the speaker!



Free for participants of the Youth.Academy TO



CME training for doctors



Workshops



No simultaneous interpretation, lecture in German



Keynote lectures



No simultaneous interpretation, lecture in English



**NEW** Workshops for employees of medical supply stores



# Innovationen & Verlässlichkeit

Wir freuen uns auf 2024 mit Ihnen.



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Baden-Württemberg



... aus Göppingen  
direkt zu Ihnen



... auch in  
bewegten Zeiten!

## TUESDAY, 14 MAY 2024

09:15 – 10:15 WORKSHOP

In Collaboration with KomZet OST

**Digital Treatment Processes in Technical Orthopaedics**

Chair: Dr. Annette Kerkhoff, Prof. Dr. Frank Braatz

- Digitalisation in Orthopaedic Footwear Technology – an Overview  
Speaker: Prof. Dr. Frank Braatz
- Quality Standards and Digitalisation  
Speaker: Michael Möller
- Application in Practice – From a 3D Scan to Printable Orthosis  
Speaker: Martin Jaeger

Digitalisation, new technologies and the shortage of skilled workers are future challenges in orthopaedic treatment and care as well as in orthopaedic footwear technology. Various technologies (such as scanning and fabrication methods) are already being used in the fitting process. Digitalisation also plays a role with regard to quality standards. Participants will learn about the advantages and disadvantages of technologies through critical observation, discussion and fitting examples on the basis of digital fitting processes. They will also learn how future technologies need to meet the requirements of the industry even more effectively to ensure the optimal fitting of patients with orthopaedic devices.

09:15 – 10:15 WORKSHOP

**Rehabilitation After Osseointegrative Implants (TOPS)**

Chair: Prof. Dr. Bernhard Greitemann, Harmen van der Linde

- Stoma Care  
Speaker: Dr. Jennifer Ernst
- Prosthesis Alignment and Adjustment  
Speaker: Ibo Eggers

- When and How Do You Build Up the Load During Rehab??  
Speaker: Prof. Dr. Bernhard Greitemann
- Clinical Evidence: What's the Situation Internationally?  
Speaker: Harmen van der Linde

Rehabilitation after osseointegration implant procedures requires specialised knowledge and is definitely just as important as the implantation technique itself. Long-term results are less favourable in the absence of a strict rehabilitation protocol based on biomechanical considerations. This encompasses topics such as stoma care, gradually increasing load bearing, prosthesis alignment and its adaptation in the rehabilitation process. Participants will gain insights into the current approach in Germany, supplemented by an overview of where things stand internationally.

09:15 – 10:15 WORKSHOP

**Potential of Manual Medicine in the Treatment of Congenital or Acquired Limb Loss**

Chair: Dr. Hein Schnell

- Longitudinal Dysmelia of Lower Limbs (Analogous to Amputation)  
Speaker: Sabine Drisch
- The Purpose of Sacroiliac Joint/Lumbar Spine Treatment (Hands-On)  
Speaker: Sabine Drisch
- Introduction to the (Bio)Mechanics in Prosthetic Treatment  
Speaker: Sabine Drisch
- Introduction to Neurophysiology (Pressure Point, Asymmetrical Loads – Reflective Imbalance)  
Speaker: Dr. Hein Schnell

Dysfunctions in the area of the pelvis and lower spine are common in the prosthetic care of patients who have lost a limb. Based on structured manual therapy examination and treatment methods, participants

TUESDAY, 14 MAY 2024

learn how asymmetries and imbalances can be identified and treated. This leads to recommendations that can be helpful to prosthetists and orthotists in providing the definitive prosthetic fitting.

10:30 – 11:45 SYMPOSIUM



In Collaboration with VKO

### Interaction of Conservative, Orthotic and Orthopaedic-Surgical Measures in the Treatment of Patients With Skeletal Dysplasia and Soft Bones

Chair: Prof. Dr. Thomas Wirth, Ingo Pfefferkorn (Dipl.-Ing. FH)

- Conservative Treatment of Early Onset Scoliosis in Patients With Skeletal Dysplasia, Syndromes or Soft Bones  
Speaker: Anna Hell
- Indications and Benefits of Orthotic Measures in Patients With Skeletal Dysplasia and Limb Deformities  
Speaker: Manuela Loos
- Indications for Surgical Axis Corrections in Children With Skeletal Dysplasia  
Speaker: Christine Engel
- Orthopaedic Surgical Deformity Correction of Limbs in Diseases with Soft Bones  
Speaker: Gabriel Mindler

Patients with skeletal dysplasias, syndromes involving the musculoskeletal system or soft bones develop numerous deformities on bones and joints or the spine. Treatment is difficult because of the accompanying short stature and requires the joint efforts of prosthetists and orthotists and orthopaedists. Participants learn about aspects of particular relevance for patients as well as treatment challenges. While the individual clinical pictures are rare, the patient group as a whole is large.

10:30 – 11:45 SYMPOSIUM



In Collaboration with Studiengemeinschaft OST e.V.

### Diabetic Foot Syndrome

Chair: Dr. Armin Koller, Tino Sprekelmeyer

- Differentiated Orthopaedic Footwear for Charcot Foot  
Speaker: Dr. Armin Koller
- Guidelines for Charcot Neuroarthropathy  
Speaker: Dr. Michael Eckhard
- Stage-Appropriate Fitting of Charcot Foot – from 2-Shell Orthosis to Orthopaedic Footwear  
Speaker: Martina Hennicke
- Biomechanical Background: How Do I Master Physical Parameters?  
Speaker: Dr. Annette Kerkhoff
- How Do I Prescribe Treatment that Will Be Approved by the Insurance?!  
Speaker: Dr. Dirk-Theodor Schraeder

Participants learn about stage-appropriate and guideline-compliant treatment of Charcot foot and diabetic neuropathic osteoarthropathy. A systematic treatment and fitting process is outlined. Participants gain insights into the latest fitting strategies and techniques.

10:30 – 11:45 SYMPOSIUM



### Movement Analysis in Prosthetics and Orthotics – what Is Specific, What Should Be Noted, How Is It Done Properly?

Chair: Prof. Dr. Harald Böhm, Dr. Thomas Schmalz

- 2D Video Analysis to Evaluate and Optimise Orthotic Treatment of Neuro-Orthopaedic Patients: What Needs to Be Considered during Application and Evaluation?  
Speaker: Sonia D'Souza (PhD)
- Introduction to the Foundations of the Standard 3D Gait Model and the Challenges in Application with Orthoses  
Speaker: Prof. Dr. Harald Böhm

## TUESDAY, 14 MAY 2024

- Limitations of Standard Models in Prosthetics and Presentation of a Problem-Adapted Solution with Initial Practical Results  
Speaker: Eva Pröbsting
- A New Marker Model for Prosthetic Movement Analysis – Results of a Multicentre Study to Test Robustness and Reliability  
Speaker: Dr. Michael Ernst
- What Must Be Observed when Assessing Mechanical Work and Performance of Prosthetics in 3D Gait Analysis?  
Speaker: Daniel Heitzmann (Dipl.-Ing. FH)

Providing proof of the functionality of medical devices is crucial in the context of the Medical Device Regulation. Instrumental 2D and 3D gait analysis is an important tool for providing clinical evidence. However, the established tools for this analysis are not always optimally suited for the evaluation of orthoses and prostheses. Participants will learn that a problem-oriented approach can be taken in orthotics and prosthetics, and that the effectiveness can be significantly increased in practice using such a method.

10:30 – 11:45 SYMPOSIUM 

In Collaboration with Studiengemeinschaft OST e.V.

### Orthotics and Orthopaedic Treatment and Care for Congenital and Acquired Paralysis

Chair: Dr. Ulrich Hafkemeyer, Michael Volkery

- Neuro-Orthopaedic Disorders – Different Treatment Options  
Speaker: Dr. Ulrich Hafkemeyer
- Orthopaedic Footwear for Paediatric Planovalgus Deformity  
Speaker: Michael Möller
- Surgical Treatment Management for Congenital and Acquired Paralysis  
Speaker: Dr. Frank Schiedel (PD)

- Orthotic Treatment – When an Orthopaedic Insole Is not Enough  
Speaker: Michael Volkery

Participants will learn about the complexity of medical device fittings in the area of congenital and acquired paralysis. In various medical and technical presentations, they will receive suggestions for stage-appropriate care.

10:30 – 11:30 WORKSHOP **NEW**

In Collaboration with DGPL

### Onkologische tumor-assoziierte Lymphödeme mit Beteiligung der unteren Extremitäten

Chair: Prof. Dr. Gerd Lulay

- Diagnose Lymphödem:  
Welche Verfahren werden in der Medizin eingesetzt? Was sind mögliche Differenzialdiagnosen?  
Speaker: Peter Nolte
- Die Grundzüge der manuellen Lymphdrainage bei Lymphödem. Vorstellung und Durchführung von physiotherapeutischen Maßnahmen am Patienten  
Speaker: Henry Schulze
- Wirkungsvolle und qualifizierte orthopädietechnische Kompressionsversorgung – Beratung und Behandlungsempfehlung, Ausmessen, Kompressionsdruck und -materialien, Zusatzprodukte, Tipps und Tricks  
Speakers: Stephan Klör, Petra Menkel

Das Sanitätshaus bietet eine spezialisierte Versorgung für Patienten mit onkologischen Lymphödem der Beine (nach Tumoren des Unterbauches). Der Workshop vermittelt praxisnah medizinische Diagnoseverfahren und Grundlagen der lymphatischen Versorgung. Anhand von Fallbeispielen erfahren Teilnehmer die speziellen Anforderungen von Lymphpatienten, inklusive physiotherapeutischer Maßnahmen und Kompressionsversorgung. Sie erkennen Besonderheiten und entscheiden herstellerunabhängig über

TUESDAY, 14 MAY 2024

Auswahl von Produkten und sinnvolle Zusätze. Facharzt, Therapeut und Kompressionsexperte teilen ihr Wissen. Betroffene berichten, schärfen den Blick für Details. Der Workshop bietet einen umfassenden Einblick in die Versorgung von onkologischen Lymphödem der Beine – praxisnah, fundiert und sensibel.

11:00 – 11:45 EXHIBITOR WORKSHOP



UNYQ Design

**From Technology to Confidence – Innovation in Orthopaedics and Emotional Well-Being**

Speaker: Bogdan Olteanu





FAQ: alle Antworten auf Ihre Fragen



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## TUESDAY, 14 MAY 2024

11:00 – 11:45 EXHIBITOR WORKSHOP    
Formlabs GmbH

### 3D Printing Solutions in Orthopaedics: Injured Today, Individually Treated Tomorrow

Speakers: Shiden Yohannes, Marlou de Jong

Additive manufacturing offers medical supply companies and orthopaedic technology manufacturers a variety of benefits that can significantly increase the efficiency and flexibility of patient care. In this workshop, presented by Formlabs Healthcare, advanced applications of 3D printing technology in the medical field will be presented. In particular, the focus will be on personalized insoles, orthoses, prostheses and other medical aids. The event offers the opportunity to discuss challenges that companies face when implementing 3D printing technologies. In addition, participants will learn about strategies to seamlessly integrate additive manufacturing into the workflow and how 3D printing enables medical professionals to produce customised medical devices according to patient needs.

11:00 – 11:45 EXHIBITOR WORKSHOP    
Lohmann & Rauscher

### Medizinische Adaptive Kompressionssysteme – neue Behandlungsmöglichkeit in der Kompression: leitliniengerecht und vorteilhaft

Speaker: Claudia Bauer



Die Therapie von Patient:innen mit Ödemerkrankungen geriet in der Vergangenheit immer wieder an ihre Grenzen. In der Entstauungsphase der Therapie ergeben sich durch die medizinischen adaptiven Kompressionssysteme als Hilfsmittel neue Optionen der Versorgung und der Kundenbindung für den Sanitätsfachhandel. Das Seminar stellt die hinzugekommene Produktuntergruppe der Produktgruppe 17 im Hilfsmittelverzeichnis vor und zeigt Ihnen die neuen attraktiven Möglichkeiten, die sich daraus für Sie als Sanitätsfachhandel ergeben.

12:00 – 12:30 KEYNOTE 

### The Combination of Creativity and Perfection: Job Satisfaction in Medical Professions

Speaker: Prof. Dr. Ricarda Rehwaldt

Working in the field of medicine means more than just doing a job. It symbolises the combination of creativity and perfection with the goal of creating individual solutions for people. But does that make you happy? And what exactly is it that makes people happy at work? Prof. Dr Ricarda Rehwaldt has been researching this exciting question for over 15 years. She will provide some insight into her work and relate how happiness at work functions and what everyone can do to ensure their own happiness. Afterwards, she will be available to answer any questions, no matter how difficult.

12:00 – 13:00 WORKSHOP  

### Ablehnung – was nun?

Chair: Lars Jäger, Alexander Hesse

- Was sollte ich wissen – rechtliche Grundlagen  
Speakers: Nico Stephan, Mario Hommel
- Wie man eine Ablehnung vermeiden kann –  
Hinweise aus der Praxis  
Speaker: Michael Brühl
- Ablehnung – was ist zu beachten  
Speakers: Nico Stephan, Mario Hommel
- Die Rolle des Medizinischen Dienstes im Rahmen  
der Beantragung von medizinischen Hilfsmitteln der  
Gesetzlichen Krankenversicherung (GKV)  
Speaker: Dr. Tasja Brischmann
- Verwendung von Outcome Measures zur Unterstüt-  
zung in der Rückertattung von orthopädietechni-  
schen Versorgung  
Speaker: Arne Schlausch


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 OTWORLD

TUESDAY, 14 MAY 2024

Einreichung, Bewilligung oder Ablehnung eines Kostenvorschlags (KV). Die notwendigen Schritte und Inhalte eines KV werden in der Veranstaltung aus der Praxis heraus beschrieben, sodass Anregungen für den eigenen Betrieb übernommen werden können – auch und gerade bei Ablehnungen. Zusätzlich erhalten die Teilnehmenden Einblicke in die Arbeit des Medizinischen Dienstes. Das Verständnis für dessen Entscheidungsgrundlagen kann in die eigenen Prozesse überführt werden.

12:00 – 12:45 EXHIBITOR WORKSHOP



Bauerfeind AG

### Sport Performance – Athletenversorgung neu gedacht!

Speakers: Dirk Schwager, Dominik Klein

Informativ und spannend präsentiert dieser Workshop die Entwicklung der Versorgung von Sportlern mit medizinischen Hilfsmitteln – sei es präventiv oder nach

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TUESDAY, 14 MAY 2024

Verletzungen – als innovatives Unternehmenskonzept. Entdecken Sie, wie Bauerfeind als Ihr verlässlicher Partner Sie auf diesem Weg unterstützt. Dominik Klein, ehemaliger Handballprofi und TV-Experte, teilt wertvolle Einblicke in die Bedürfnisse der Sportler und ihre Erwartungen an eine zeitgemäße Versorgung.

13:15 – 14:15 SYMPOSIUM

Peer Counselling

Chair: Dieter Jüptner, Dr. Nils-Odd Tønnevoid

- 30 Years of Experience With Peer Counseling and Certification in the USA  
Speaker: Cassandra Isidro
- Care Giver Support – a New Model for Caring for Relatives in the USA  
Speaker: Ashlie White
- Establishment of a Peer Visit Programme in Côte d'Ivoire  
Speakers: Kadélé Elvige Vincent Bohou
- Experiences With Peer Counseling in Norway  
Speaker: Mark Miller
- Ausbildung und Qualifizierung von BMAB-Peers  
Speaker: Sylvia Wehde
- Social Media als Mittel zur Betreuung von Menschen mit Amputation der oberen Extremität  
Speaker: Lara Wilkin

In addition to interprofessional care, amputees benefit from the exchange with similarly affected patients. Their experiences point to paths that lead back to life. Participants will learn about best practice models of peer support from around the world and develop a better understanding of the different forms of peer support. The focus is on psychosocial issues and problems as well as quality of life.

13:15 – 14:15 WORKSHOP

Paralympics – Our Experiences and a Gain for Everyday Supplies

In a joint conversation with the former track and field athlete Heinrich Popow and the Paralympics CPO Ingo Pfefferkorn (Dipl.-Ing. FH), active Paralympic athlete Sebastian Dietz and Markus Rehm share their experiences with the competitions. Additionally, prosthetists, orthotists and physiotherapists provide insights into their work during the games.

13:15 – 14:15 WORKSHOP



Anatomie des Fußes und Funktionalität von Einlagen

Chair: Stefan Woltring

- Allgemeines zur Anatomie des menschlichen Fußes  
Speaker: Stefan Woltring
- Formen der Befundung / Untersuchung  
Speaker: Dr Casper Grim (PD)
- Palpation an einem Teilnehmer oder anderen Freiwilligen  
Speaker: Stefan Woltring
- Umsetzung in die Hilfsmittelversorgung in interdisziplinärer Abstimmung mit der Medizin  
Speaker: Dr Casper Grim (PD)

Sensomotorik oder Biomechanik? Wettkampf oder Regeneration? Welche Relevanz bekommen diese Faktoren im Falle einer möglichen Einlagenversorgung? Neben Beispielen aus dem Hochleistungssport bekommen die Teilnehmenden einen Triathlonprofi und Olympiateilnehmer des deutschen Nationalkaders für Paris 2024 in Bildern und Fakten vorgestellt.

## TUESDAY, 14 MAY 2024

13:15–14:15 WORKSHOP **NEW**

In Collaboration with DGFL

**Adipositas und Lymphödem**

Chair: Prof. Dr. Gerd R. Lulay

- Diagnose Lymphödem: Welche Verfahren werden in der Medizin eingesetzt? Was sind mögliche Differenzialdiagnosen?

Speaker: Dr. med. Gabriele Färber

- Die Grundzüge der manuellen Lymphdrainage bei Lymphödemen – Vorstellung und Durchführung von physiotherapeutischen Maßnahmen am Patienten

Speaker: Henry Schulze

- Wirkungsvolle und qualifizierte orthopädiotechnische Kompressionsversorgung – Beratung und Behandlungsempfehlung, Ausmessen, Kompressionsdruck und -materialien, Zusatzprodukte, Tipps und Tricks

Speakers: Petra Menkel, Stephan Klör

Sanitätshäuser spielen eine zunehmend wichtige Rolle in der Versorgung von Patienten mit Lymphödem und Adipositas. Der Workshop vermittelt praxisnah medizinische Diagnoseverfahren und Grundlagen der lymphatischen Versorgung. Anhand von Fallbeispielen erfahren Teilnehmer die speziellen Anforderungen von Lymphpatienten, inklusive physiotherapeutischer Maßnahmen und Kompressionsversorgung. Sie erkennen Besonderheiten und entscheiden herstellerunabhängig über die Auswahl von Produkten und sinnvolle Zusätze. Facharzt, Therapeut und Kompressionsexperte teilen ihr Wissen. Betroffene berichten, schärfen den Blick für Details. Der Workshop bietet einen umfassenden Einblick in die Versorgung von Lymphpatienten bei Adipositas – praxisnah, fundiert und sensibel.

14:30–15:45 FREE PAPERS

**Orthotics Lower Extremity**

- Functional Electrostimulation of Gluteal Muscles to Improve Gait in Neurological Patients  
Speaker: Lina Steinmeier
- Patient Case Studies With Scientific Clinical Benefits of a New Microprocessor Controlled KAFO  
Speaker: Dr. Vanessa Walters
- Improvement in Walking Speed and Reduction in Falls and Risk of Falling After MP-SSCO Fitting  
Speaker: Russ Lundstrom
- The Effect of Anterior Ankle-Foot Orthosis and Posterior Ankle-Foot Orthosis on Functional Ambulation in Stroke Patients  
Speaker: Dr. Reihaneh Zarezadeh
- Evaluation of Kinetic, Kinematic and Energy Cost With 2 Different Ankle-Foot Orthoses (Standard Carbon and Custom-Made Ankle-Foot Orthoses) in Patients With Hemiplegia Post-Stroke During Walking  
Speaker: Rosa Fojut

14:30–15:45 FREE PAPERS

**Rehabilitation**

- The Therapeutic Effect of Using an Assistive Soft-Robotic Glove at Home to Support People With Impaired Hand Function in Activities of Daily Living  
Speaker: Corien Nikamp (PhD)
- Can New Evidence Improve Clinical Practice Guidelines for Upper Limb Amputation Rehabilitation?  
Speaker: Prof. Laurent Frossard
- Sagittal Incision or Poster Flaps in Transtibial Amputation and How It Can Affect the Rehabilitation Outcome  
Speaker: Dr. Anton Johannesson

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- Initial Results From an Observational Study of Specialised Early Functional Rehabilitation After Transfemoral Amputation in Patients With Restricted Mobility  
Speaker: Dr. med. Johannes Schröter
  - What Do Users and Their Aiding Professionals Want From Future Devices in Upper Limb Prosthetics? A Focus Group Study  
Speaker: Dr. Eike Jakubowitz
- 

**14:30 – 15:45** SYMPOSIUM

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## Digitisation and IT Solutions in Analysis and Production

Chair: Henning Seide, Hans Georg Ahrens

- Digitalisation in Industry – Real-Life Processes in Everyday Use  
Speaker: Andreas Wettinger
- Handwerk!Plus – Autonomous Use of Digital Processes Today and in the Future  
Speaker: Henning Seide
- Plastics in Digitalised Orthopaedic Technology – It's Still a Craft  
Speaker: Prof. Dr. Gunnar Seide
- Area of Dispute: Medical Device Regulation and Additively Manufactured Devices  
Speaker: Hans Georg Ahrens
- Lattice: Soft and Airy From the Printer – Hype and Reality  
Speaker: Daniel Bachmann

Digitalisation has become unstoppable, especially in the healthcare sector. Participants will receive answers to questions such as these: How can digitalisation help compensate for the shortage of skilled workers in healthcare occupations and optimise complex processes? What IT solutions and application methods will be available to us in fabrication going forward?

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**WORLD PREMIÈRE OTWORLD 2024**

## TUESDAY, 14 MAY 2024

14:30 – 15:45 SYMPOSIUM

**Full-Body Neuromodulation: Innovations in the Treatment of Pain and Spastic Movement Disorders**

Chair: Dr. Andreas Hahn, Dr. Jennifer Ernst

- **Noninvasive Multisite Neuromodulation: the Effects of Wearable Technology on Functional Principles of Neural Activity**  
Speaker: Prof. Winfried Mayr
- **Practical Experience With a Soft Full-Body Neuromodulation Orthosis**  
Speaker: Mona Seifert-Maciejczyk
- **Effects of a Full-Body Electrostimulation Garment on Symptoms of Upper Motor Neuron Syndrome in a Cohort of Subjects With Cerebral Palsy, Multiple Sclerosis and Stroke**  
Speaker: Dr. Andreas Hahn
- **A Multisite Stimulation Approach on Motor Functions and Pain in Multiple Sclerosis (MS) and Fibromyalgia – the French Experience**  
Speaker: Prof. Samar Ayache
- **A Multisite Stimulation Approach – on Motor Functions in Stroke and Multiple Sclerosis (MS): the United Arab Emirates Experience**  
Speaker: Prof. Naji Riachi

Full-body neuromodulation is an innovative, rapidly developing additive approach to the treatment of spastic movement disorders and pain induced by spasticity. A new medical device will be presented to the participants. They will learn details about the underlying functional principle and gain insights into the current state of research results in this very rapidly developing field. Experiences from clinical practice complete the presentation.

15:00 – 15:45 EXHIBITOR WORKSHOP



Bauerfeind AG

**Pflaster drauf und gut? Medizinische Kompressionstherapie bei chronisch-venösen Wunden.**

Speakers: Nadine Fürup, Anna-Maria Hammacher

Chronische Beinwunden sind facettenreich und eine therapeutische Herausforderung. Erfahren Sie in diesem Workshop wie Bauerfeind Sie als Partner bei der Versorgung von Patienten mit Ulcus cruris venosum unterstützt und welche Möglichkeiten es innerhalb des Produktportfolios gibt.

15:00 – 15:45 EXHIBITOR WORKSHOP



OttoBock SE &amp; Co. KGaA

**Evanto – ein neuartiges Prothesenfußkonzept: Vorteile, Funktion und Anwenderprofil**

Speaker: Frederik Thiede

16:45 – 18:00 OPENING CEREMONY

**Opening Ceremony**

Round table with the President of the German Association of Orthopaedic Technology, the CEO of Leipziger Messe GmbH, the Lord Mayor of Leipzig, the Congress Presidents and further guests.

Moderation: Henning Quanz

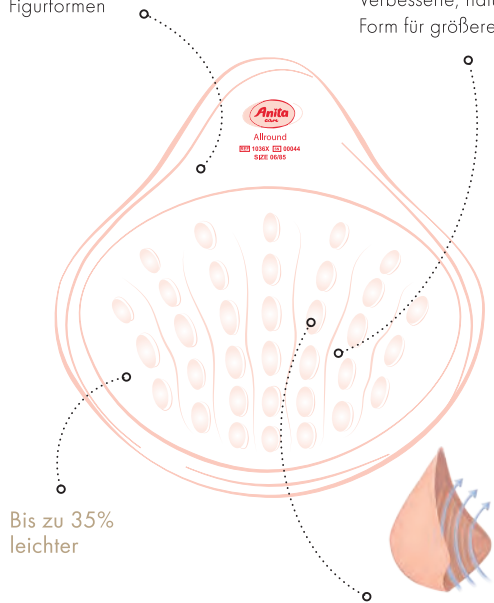


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## CONGRESS PROGRAMME

### WEDNESDAY, 15 MAY 2024

**09:15 – 10:15** WORKSHOP

In Collaboration with BUFA

#### Clinical Examination and Orthotic Device Fitting in Upper Limbs

Chair: Bernd Sibbel

- Clinical Examination Techniques for Upper Limb Joints  
Speaker: Dr. med. Melanie Horter
- Orthotic Treatment for Contractures and Spasticity in Upper Limbs  
Speaker: Günther Bieschinski
- Neuro-Orthopaedic Aspects in Orthotic Treatment of the Upper Limbs  
Speaker: Jochen Schickert
- Custom Orthoses After Lesions of the Brachial Plexus  
Speaker: Michael Leßke

The purpose of an orthosis is to ease, stabilise or guide the movement of muscles, bones or joints. It can be adjusted to permit controlled movements up to a predetermined limit (stop). It can also restrict the range of motion all the way to total immobilisation. The diversity of indications demands in-depth knowledge of the anatomical foundations, pathophysiological mechanisms and biomechanical principles. An overview of the aspects involved in fabricating a custom orthosis will be provided according to the specific indication and the fitting levels. Participants will also receive valuable patient care tips.

**09:15 – 10:15** WORKSHOP

In Collaboration with IGOSt

#### Differential Diagnosis Pain

Chair: Dr. Stefan Middeldorf, Markus Schneider

- What We Mean by Pain Chronification and How to Detect It  
Speaker: Prof. Dr. Hans-Raimund Casser

- Complex Regional Pain Syndrome (CRPS) – a Pain Diagnosis  
Speaker: Dr. Stefan Middeldorf
- Lumbar Facet Syndrome  
Speaker: Markus Schneider
- Amputation, Prosthesis and Pain  
Speaker: Prof. Dr. Bernhard Greitemann

In addition to biological, functional changes, mental aspects and consequently also contextual factors play a role in (chronic) pain. Their appropriate and directed positive development is an objective of multimodal therapy. Participants will be provided with information about the role played by acceptance and consent from the perspective of pain-related behaviour and also learn how the search for a nociceptor can help address the cause in specific cases. Technical orthopaedics is indispensable for this interdisciplinary therapy approach.

**09:15 – 10:15** WORKSHOP



#### Movement Analysis / Gait Analysis – Treatment Objectives and Indicators for Insole Fittings

Chair: Stefan Woltring

- General Information on Movement Analysis  
Speakers: Stefan Woltring, Steven Simon
- Range of Possibilities in Movement Analysis – Target Group Oriented  
Speakers: Steven Simon, Stefan Woltring
- Scientific Aspects of Movement Analysis Relevant to Technical Implementation  
Speakers: Stefan Woltring, Steven Simon
- Treatment Targets for the Orthopaedic Trade  
Speakers: Steven Simon, Stefan Woltring
- Field Reports  
Speakers: Stefan Woltring, Steven Simon

WEDNESDAY, 15 MAY 2024

10:30 – 11:45 SYMPOSIUM



In Collaboration with Initiative '93 Technical Orthopaedics

Neuro-Orthopaedics, Soft Orthoses and FES – Update 2024

Chair: Ingo Pfefferkorn (Dipl.-Ing. FH), Prof. Dr. Frank Braatz

- The Gentle Force of Advanced Pliable Mechanisms in Orthopaedics as a Partner for Human and Technical Information Processing  
Speaker: Prof. Dr. Hartmut Witte

- Full-Body Electrostimulation: Practical Experience  
Speaker: Thomas Wetzelsperger

- Dynamic Input Orthosis – Functional Electrical Stimulation (FES) – Soft Full-Body Neuromodulation Orthosis: Promising Addition or Overtreatment?  
Speaker: Jochen Schickert

- Effects of Functional Electrostimulation (FES) on Gait and Dual-Task Ability  
Speaker: Niklas Bleichner (M.Sc.)

Soft orthoses and functional electrostimulation have become established in the treatment of neuro-orthopaedic movement and postural disorders. Participants will learn about new and expanded fields of application covered by today's orthopaedic devices. What are things to watch out for in their application? Indications and possible contraindications will be discussed.

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## CONGRESS PROGRAMME

### WEDNESDAY, 15 MAY 2024

10:30 – 11:45 SYMPOSIUM



#### Innovations in Amputation – Surgery, P&O and Rehabilitation

Chair: Dr. Jennifer Ernst, Lars Jäger

- What's New? TMR and Osseointegration  
Speaker: Dr. Jennifer Ernst
- TMR and Osseointegration From an Orthopaedic Perspective  
Speaker: Bernhard Oelßner
- TSR-Impact of Vibrotactile Feedback on Walking Ability and Pain  
Speaker: Dr. med. Alexander Gardetto (PD)
- Integration of Vibrotactile Feedback From an Orthopaedic Perspective  
Speaker: Lutz Niehage
- Augmented, Virtual, Mixed Reality and Tele-Ergo – What Works and Where Do We Really Want to Be?  
Speaker: Ilja Michaelis
- To Amputate or Not in Cases of Complex Regional Pain Syndrome (CRPS)-Type 1  
Speaker: Prof. Dr. Jan Geertzen

TMR, TSR, osseointegration and their combination in the surgical treatment of amputees as well as their processing by the attending orthopaedic technician are viewed as innovative methods. Participants will learn what's behind them and gain insights into the possibilities of and experiences with the use of augmented and virtual reality in rehabilitation.

10:30 – 11:45 FREE PAPERS



#### Indications for Orthotic and Surgical Treatment in Neuroorthopaedics

- Dynamic Hip Abduction Orthosis in 3D Printing Processes for Pathologically Modified Hips in Neuro-Muscular Conditions in Paediatric Orthopaedics  
Speaker: Sophia Rauch

- Limits of Hip Reconstruction in Patients With Cerebral Palsy (CP)  
Speaker: Dr. Franz Landauer (OA)
- Effects of Long-Term Orthotic Treatment on Tone Regulation in Children With Spastic Equinus Deformity  
Speaker: Prof. Dr. Harald Böhm
- Children With Trisomy 21: Using Gait Analysis for Effective Treatment With Footwear and Orthosis  
Speaker: Dr. Juliane Wühr
- Retrospective Review of Pediatric Prosthetic Care Management by a Nigerian Non-Governmental Organisation From 2012 to 2023: Single Center Experience  
Speaker: Crystal Chigbu
- Prosthetics for Children and Adolescents in Developing Countries – Case Study of Dysmelia  
Speaker: Daniel Müller

10:30 – 11:45 FREE PAPERS



#### Optimisation of Sports & Orthopaedic Shoe Design

- The Comparison of the Energy Consumption of Three Different Running Shoes in Runners  
Speaker: Yuparat Premprasopchok
- Footwear and Insole Design to Prevent Diabetic and Neuropathic Plantar Forefoot Ulcers – Findings From a Series of N-of-1 Trials  
Speaker: Dr. Sayed Ahmed
- Fully 3D-Printed Orthopaedic Footwear for a Patient With Bilateral Ankle Rigid Equinus – a Case Study Based on Pedorthic Information Modeling Concept  
Speaker: Daniel Petcu (PhD)
- Advancement of Intelligent Offloading Footwear for the Prevention of Ulcers and Amputations in People With Diabetes  
Speaker: Sarah Hemler (PhD)



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WEDNESDAY, 15 MAY 2024

10:30–11:30 WORKSHOP **NEW**

In Collaboration with DGPL

### Adipositas und Lymphödem

Chair: Prof. Dr. Gerd R. Lulay

- Diagnose Lymphödem: Welche Verfahren werden in der Medizin eingesetzt? Was sind mögliche Differenzialdiagnosen?

Speaker: Dr. med. Gabriele Färber

- Die Grundzüge der manuellen Lymphdrainage bei Lymphödemen – Vorstellung und Durchführung von physiotherapeutischen Maßnahmen am Patienten

Speaker: Henry Schulze

- Wirkungsvolle und qualifizierte orthopädietechnische Kompressionsversorgung – Beratung und Behandlungsempfehlung, Ausmessen, Kompressionsdruck und -materialien, Zusatzprodukte, Tipps und Tricks

Speakers: Petra Menkel, Stephan Klör

Sanitätshäuser spielen eine zunehmend wichtige Rolle in der Versorgung von Patienten mit Lymphödem und Adipositas. Der Workshop vermittelt praxisnah medizinische Diagnoseverfahren und Grundlagen der lymphatischen Versorgung. Anhand von Fallbeispielen erfahren Teilnehmer die speziellen Anforderungen von Lymphpatienten, inklusive physiotherapeutischer Maß-



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WEDNESDAY, 15 MAY 2024



nahmen und Kompressionsversorgung. Sie erkennen Besonderheiten und entscheiden herstellerunabhängig über die Auswahl von Produkten und sinnvolle Zusätze. Facharzt, Therapeut und Kompressionsexperte teilen ihr Wissen. Betroffene berichten, schärfen den Blick für Details. Der Workshop bietet einen umfassenden Einblick in die Versorgung von Lymphpatienten bei Adipositas – praxisnah, fundiert und sensibel.

11:00 – 11:45 EXHIBITOR WORKSHOP    
Invent Medical Group s.r.o.

**3D Printing in Paediatric Orthotics: AFO, SMO, CRO**

Speaker: Claire Repisky



Practical and simple steps to start utilising 3D printed devices and digital workflow with your paediatric patients today. Learn more about benefits, challenges, 3D scanning options, real patient cases and risk-free trials. This workshop will focus on ankle and foot orthoses and the revolutionary 2in1 cranial orthosis.

11:00 – 11:45 EXHIBITOR WORKSHOP    
College Park

**Icon: A New Microprocessor Knee Solution From College Park**



Speaker: Jonathan Cook

This workshop will cover the features and clinical benefits of the new Icon microprocessor knee from College Park. The straightfoward Stride Studio App will be reviewed including custom mode features and a demonstration.

11:00 – 11:45 EXHIBITOR WORKSHOP    
VINCENT Systems GmbH

**Myoelektrische Hand- und Partialhandsysteme**



Speaker: Dr. Stefan Schulz

11:00 – 11:45 EXHIBITOR WORKSHOP    
Bauerfeind AG

**Kniebandverletzungen: Hat der traditionelle Hartrahmen ausgedient?**

Speaker: Maximilian Poetzschner



Lernen Sie in diesem Workshop die erste flexible Rahmenorthese von Bauerfeind – SecuTec Genu Flex – kennen. Wir zeigen Ihnen die Vorteile dieser neuartigen Orthese im Vergleich zum traditionellen Hartrahmen. Beschreiten Sie mit uns neue Wege in der modernen Knietherapie.

11:00 – 11:45 EXHIBITOR WORKSHOP    
Rebel Bionics Ltd.

**Rebel Bionics Limited**

Speaker: Ted Varley

Introduction to the new Rebel hand, a waterproof multi articulated hand designed for small adults.

11:00 – 11:45 EXHIBITOR WORKSHOP    
OttoBock SE & Co. KGaA



**Optimierungspotenziale erkennen und nutzen: Ein neuer Weg zu Ihrem effizienten und zukunftsfähigen Betrieb**

Speakers: Denise König, Jan-Niklas Grotrian, Dr Falk Berster

Die OT-Branche steht vor großen Herausforderungen: Fachkräftemangel, steigende Patientenzahlen bei sinkenden Erstattungsmargen und der Digitalisierung des Fachs. Betriebe und Fachkräfte müssen sich diesen neuen Herausforderungen anpassen, um fit für die Zukunft zu sein und weiterhin effektiv und effizient Patienten zu versorgen. In diesem Workshop erfahren Sie, wie Sie das Beratungsteam von ottoBock unterstützen kann, Ihr Unternehmen umfangreich zu analysieren und individuell abgeleitete Maßnahmen und Lösungskonzepte für Ihren Betrieb zu finden.

## CONGRESS PROGRAMME

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**11:00 – 11:45** EXHIBITOR WORKSHOP    
BionIT Labs

#### Adam's Hand Certification (Part 1/2 – Theoretical Training)



Speaker: Giovanni Antonio Zappatore

**12:00 – 12:30** KEYNOTE  

#### Co-Adaptation: the Key to a New Generation of Assistive Robots

Speaker: Prof. Dr. Claudio Castellini



Orthopaedic treatment and care devices (prostheses, exoskeletons, rehab robots, etc.) are intended to alleviate rising demands in the care and rehabilitation of patients with motor disorders. However, they have not yet been established as the standard in hospitals. Co-adaptation is the key to improving their acceptance and effectiveness. Participants will learn about the effectiveness of measuring and promoting the mutual adaptation of the user and robot through intent recognition, somatosensory feedback and structured human-robot interaction.

**12:00 – 12:45** EXHIBITOR WORKSHOP    
Basko Healthcare

#### How Stance Control Orthosis (Swing Phase Lock) Activates Patients During Rehabilitation & Beyond

Speaker: Flora Versyck



The decision to use a stance control orthosis is often made too late or too conservatively due to a lack of knowledge about the possibilities the orthosis can offer in the clinical rehabilitation process or because of the cost of the orthosis not being properly considered in the overall rehabilitation process. This workshop will show why patients can improve faster with a Swing Phase Lock system in order to gain in functionality and body activity.

**12:00 – 12:45** EXHIBITOR WORKSHOP    
druckerfachmann.de GmbH & Co. KG

#### Ihr Weg in die additive Orthesenfertigung

Speakers: Shiden Yohannes, Dominik Heinz, Dennis Opielka



Als Geschäftsführung sehen Sie täglich eine starke Belastung des Personals in Ihrer Werkstatt. Sie hatten bisher keine Zeit, sich mit einer eigenen digitalen Werkbank zu beschäftigen zur Entlastung Ihres konventionellen Prozesses. In unserem Workshop zeigen wir, welche Schritte benötigt werden, um dies in Ihrem Unternehmen umzusetzen.

**12:00 – 12:45** EXHIBITOR WORKSHOP    
Bauerfeind AG

#### Xtern bei Fußheberschwäche: Die innovative AFO für ein selbstsicheres und natürliches Ganganbild

Speaker: John Fleming

Entdecken Sie mit uns die neue Xtern Fußheberorthese die, anders als viele bekannte Versorgungen, außen am Schuh befestigt wird und dem Anwender dadurch Freiheiten im Hinblick auf Bewegung, Alltag und Schuhwahl schenkt.


**12:00 – 12:45** EXHIBITOR WORKSHOP    
HP Deutschland GmbH

#### Improving Patient Outcomes With Digital Workflows

Speaker: Ayelén Fernández


Are you struggling to reduce lead times, or to scale your production efficiently? Do you want to streamline your flow, reducing manual intervention, whilst at the same time improving patient outcomes? Then this workshop is the right one for you. Together with real-life customer examples and experience from the industry, we can guide you through this process and provide you with tricks and tips on how to keep your company at the forefront of innovation.

WEDNESDAY, 15 MAY 2024

12:00 – 12:45 EXHIBITOR WORKSHOP   
Dreve/Innovation MediTech GmbH

**Patientenindividuelle Versorgung mittels  
3D-Druck: Industriell gefertigt, sicher und  
maximal flexibel**

Speaker: Gregory Lenzen

12:00 – 12:45 EXHIBITOR WORKSHOP   
MOWA Healthcare AG

**MOWA – a Trendsetting 4.0 Orthotic System**

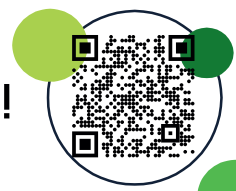
Speakers: Jan-Hagen Schröder, Manuel Westervelt

MOWA is a new, customised, dynamic 4.0 orthosis system for the treatment of paralysis in the lower extremities, from infants to adults.

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The Kompetenzzentrum Orthopädieschuhtechnik is funded by the states of Hessen, Niedersachsen and Sachsen and by the Bundesrepublik Deutschland with funds from the Bundesministerium für Wirtschaft und Klimaschutz (BMWK). The project is also supported by the Verein zur Förderung des Forschungs- und Bildungsmanagements für die Orthopädieschuhtechnik in Deutschland e.V. (Association for the Promotion of Research and Education Management for Orthopaedic Shoe Technology in Germany).



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## CONGRESS PROGRAMME

### WEDNESDAY, 15 MAY 2024

12:00–12:45 EXHIBITOR WORKSHOP



Thuasne

#### Improving Custom Bracing Through Developments in Composite Science

Speakers: Rosa Fojut, Sean Adams

This session will focus on how advances in composite materials are impacting orthotics science. Owing to pre-impregnated materials becoming mainstream and the increasing variety of fibres that are adapted to orthotics applications, the ability of orthotists to offer lower-weight and higher-strength devices to their patients is improving. Through a focus on the KAFO applications, we will discuss how the use of advanced composite materials can positively impact patient outcomes and in some cases simplify designs. This session will include a review of a few case studies.

12:30–13:30 EPOSTER PRESENTATION

#### Poster Presentations: Orthotics, Digitalisation, Open Topics and Rehabilitation

- Advancing the Next Generation of Diagnostic Devices to Sustain Residuum Health of Individuals With Limb Absence  
Speaker: Prof. Laurent Frossard
- A Comparative Review of Traditional vs Additive Manufacturing Workflows for the Production of Prosthetic Trans Tibial Sockets  
Speaker: Erika Dagge
- Dynamic Step AFO  
Speaker: Maria Jose Salgado Fonseca
- Improved Proprioception of Patients with a Knee Proprioceptive Deficit While Wearing an Elastic Brace: CAPROG STUDY  
Speaker: Elise Boulgakoff
- Positive Impact of a New Compressive Garment in Patients With Genital Lymphedema: OLYMPY STUDY  
Speaker: Rachel Ferrand

12:30–13:30 EPOSTER PRESENTATION

#### Poster Presentations With Short Lectures: Orthotics, Digitalisation, Open Topics and Rehabilitation

- Designing a Delphi Study for the Evaluation of Needs of People With Toe Brachial Pressure Index (TBPI)  
Speaker: Veronika Hofmann
- Unabhängige Qualitätsnachweise für orthopädische Hilfsmittel und deren Nutzen für den Vergleich von Produkten auf dem Markt  
Speaker: Dr. Timo Hammer
- MRI Measured Muscle Volume and Fat Fraction Adaptation in Patients With Transfemoral Bone-Anchored Prosthesis: A 1-Year Follow-Up Study  
Speaker: Dr. Ruud Leijendekkers
- Einfluss einer angerauten Titanoberflächenstruktur auf die Osseointegration von humanen gesunden u. osteoporotischen Osteoblasten im in-vitro-Modell  
Speaker: Katharina Tscheu
- Geschlechtsspezifische Orthopädietechnik  
Speaker: Kristin Stahl
- Medizinkonforme Umsetzung des FFF 3D-Drucks in der Orthopädietechnik: Ein Leitfaden nach DIN SPEC 96017  
Speaker: Tino Jacobi
- Development of a Study Design to Evaluate the Relative Importance of Shoulder Degrees of Freedom (DOF) for the Execution of Bimanual Activities of Daily Living (ADLs)  
Speaker: Veronika Hofmann
- Randomisiert-kontrollierte Studie zur Evaluation einer 12-wöchigen m-Health-basierten Trainingsintervention (re.flex) bei Patienten mit Gonarthrose  
Speaker: Valerie Dieter
- In-vitro Biokompatibilität – Möglichkeiten und Anwendungsbeispiele aus der Praxis  
Speaker: Sanja Savić

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## CONGRESS PROGRAMME

### WEDNESDAY, 15 MAY 2024



- Natural Zinc Ion Based Non-Skin Irritation Nylon Technology for Next Generation Compression and Wound Care Devices  
Speaker: Dr. Rajib Mondal (PhD)
- Electromyography Analysis for Enhanced Sitting Positions in Paralympic Cross-Country Skiing: A Path to Performance Excellence  
Speaker: Hatim Barioudi
- Preliminary Effectiveness of 3D-Printed Orthoses on Daily Activities, Satisfaction, Production Time and Costs in Persons With Chronic Hand Conditions  
Speaker: Tanja Oud
- Akustisch-kinetische Prüfung bei einseitig Beinamputierten zur Früherkennung der Knieschädigung des erhaltenen Beins bei der prothetischen Versorgung  
Speaker: Prof. Dr. Jörg Subke
- Towards Automating the Design Workflow of Personalized Cuffs for Exoskeletons  
Speaker: Tom Saey
- Computergestützte Modellierung und Simulation im Zulassungsprozess: Anwendung der ASME V&V 40 am Bsp. einer 3D-gedruckten Handgelenkorthese  
Speaker: Ann-Kathrin Carl
- In-House 3D-Printed Custom Splints for Non-Operative Treatment of Distal Radial Fractures: A Randomised Controlled Trial  
Speaker: Marco Keller

**13:00 – 13:45** EXHIBITOR WORKSHOP    
Bauerfeind AG

#### Therapie bei Achillessehnenbeschwerden: Wieviel Physiotherapie steckt in einer Bandage?



Referenten: Bianca Giaquinto, Anika Stöhr

Erfahren Sie in diesem Workshop wie die AchilloTrain von Bauerfeind als Therapiebaustein die physiotherapeutische Behandlung bei Achillessehnenbeschwerden ergänzt und die Patienten im Alltag unterstützt.

**13:00 – 13:45** EXHIBITOR WORKSHOP    
FIOR & GENTZ GmbH

#### Ein Konzept zur orthetischen Versorgung von Patienten mit Morbus Charcot-Marie-Tooth



Speaker: Daniel Sabbagh

**13:00 – 13:45** EXHIBITOR WORKSHOP    
Aether Biomedical SP z.o.o.

#### Zeus – the Strongest Bionic Hand in the Market

Speaker: Dhruv Agrawal

Aether Biomedical's CEO will introduce Zeus – the strongest bionic hand in the world, available at a lucrative price level. Zeus is equipped with the Aether digital platform, a revolutionary web-based software that connects the Zeus hand to the digital ecosystem, allowing for remote configuration, device usage monitoring, as well as remote patient monitoring. Come see how the integration of machine learning, AI, and IoT technology can help clinicians deliver the next generation of patient care. Our workshops will provide an in-depth look at both the Zeus hand and the Aether Digital Platform, and how they work together to deliver outcome-driven care.

**13:00 – 13:45** EXHIBITOR WORKSHOP    
Ofa Bamberg GmbH



#### Umgang mit schwierigen Kunden: Was kann helfen?

Speaker: Michaela Lundius

Der Umgang mit schwierigen Situationen im medizinischen Fachhandel erfordert nicht nur Fachwissen, sondern auch eine einfühlsame und effektive Kommunikation. In diesen besonderen Zeiten müssen Sie sich mit besonderen Herausforderungen auseinandersetzen. Der Vortrag gibt praktische Empfehlungen mit Umgang mit diesen Anforderungen.





WEDNESDAY, 15 MAY 2024

13:00 – 13:45 EXHIBITOR WORKSHOP    
albrecht GmbH

**Neue Anwendungsmöglichkeiten der INDIVIDUAL-Serie im Werkstattalltag**

Speaker: Johannes Willeitner, Stefan Rudolph



Durch die Verwendung von exemplarischen Fallbeispielen wird das Produktportfolio der albrecht INDIVIDUAL Serie im Kontext des Werkstattalltags veranschaulicht. Die repräsentativen Fallbeschreibungen von Sprung-, Knie- und Handgelenk werden in Verbindung mit der Fertigung und unter Einsatz der albrecht CDS® Richtsätze, CDS® Positionierhilfen und CDS® Platzhalter vor Ort präsentiert. Die Versorgungsbeispiele umfassen die albrecht CDS® Gelenke sowie das CDS® lock Gelenk INDIVIDUAL. Die Ergebnisse der einzelnen Fallbeispiele werden in prägnanten Videodokumentationen erläutert.

13:00 – 13:45 EXHIBITOR WORKSHOP    
Spentys NV

**End-To-End Digital O&P Workflows: How Spentys Technology Simplifies Automation & Customization of Digital Manufacturing Workflows in O&P – Use Case**

Speaker: Louis-Philippe Broze

Discover through a practical use case how our technology streamlines the entire orthosis fabrication process, from patient data acquisition to delivering a perfectly fitting device for the patient. This hands-on experience will demonstrate the seamless integration of our technology into your current workflow, highlighting the ease of transitioning from traditional, manual methods to a fully digital, efficient system. Our workshop will feature an interactive Q&A, including a case study from a leading O&P company that has successfully integrated Spentys technology.

13:00 – 13:45 EXHIBITOR WORKSHOP    
OttoBock SE & Co. KGaA


**Evanto – ein neuartiges Prothesenfußkonzept: Vorteile, Funktion und Anwenderprofil**

Speaker: Frederik Thiede

14:00 – 15:00 FREE PAPERS 

**Neuromodulation und multilokuläre Stimulation in der rehabilitativen Therapie**

- Netzwerk interagierender Implantate – technische Realisierung und rehabilitative Möglichkeiten  
Speaker: Prof. Dr.-Ing. Klaus-Peter Hoffmann
- Individuelle Anpassung von Neuroprothesen zur Schaffung von Voraussetzungen für eine personalisierte Medizin  
Speaker: Prof. Dr.-Ing. Klaus-Peter Hoffmann
- Phantom Limb Pain Treatment Using Remotely Administered Phantom Motor Execution Therapy  
Speaker: Levi Hargrove (PhD)

14:00 – 15:00 WORKSHOP 

**Functional Electrical Stimulation (FES) of Lower Limbs – Compact**

Chair: Lars Jäger, Michael Volkrey

- Introduction – Overview  
Speaker: Amelie Dorl
- From the Practice for the Practice – Case Studies  
Speaker: Michael Hammes
- Limits of Functional Electrostimulation (FES) Treatment – Case Studies  
Speaker: Sonia D’Souza (PhD)
- Functional Electrostimulation (FES) in Combination With Other Devices – Case Studies  
Speaker: Günter Bieschinski

A stroke, traumatic brain injury, multiple sclerosis or infantile cerebral palsy can cause damage to the central nervous system and affect the muscles of

## CONGRESS PROGRAMME

### WEDNESDAY, 15 MAY 2024

the extremities. The affected persons are only able to move their hands or feet in a limited way or not in a targeted manner at all. Functional electrical stimulation (FES) can help. Participants will receive an overview of the functioning and indications of FES care. On the basis of case studies, they get a practical presentation of different systems, their limits, as well as the combination with other tools.

**14:00 – 15:00** WORKSHOP



In Collaboration with VTO

#### Amputation: What Standard Operating Techniques Are Used When – What's New?

Chair: Prof. Dr. Frank Braatz

- Transfemoral (TF) Amputation  
Speaker: Dr. Jennifer Ernst
- Knee Disarticulation  
Speaker: Dr. med. Ralf-Achim Grünther
- Transtibial (TT) Amputation  
Speaker: Prof. Dr. Frank Braatz

Various standard surgical procedures are used on the lower limbs. Participants will learn about important factors that pertain to amputation levels and things to watch for in the fitting process in order to avoid pitfalls. They then will have the opportunity to pose their questions directly to experienced operators.

**14:00 – 15:00** WORKSHOP **NEW**



#### Wenn einen der Schlag trifft – Einführung in das Krankheitsbild, physiotherapeutische Frühbehandlung und orthopädietechnische Versorgung der Folgen

Chair: Petra Menkel

- Medizinische Einführung in das Thema  
Speaker: Dr. Rupert Sandbrink
- Physiotherapeutische Frührehabilitation bei Schlaganfallpatienten  
Speaker: Fabienne Grugel

- Anwendung in der Praxis: Welche Hilfsmittel gibt es? Wo liegen ihre Grenzen? Was ist die Maximalversorgung?  
Speaker: Fabienne Grugel

Was genau passiert eigentlich bei einem Schlaganfall im Körper? Warum zählt jede Minute? Neben Antworten auf diese Fragen erhalten die Teilnehmenden Einblick in die Arbeit der physiotherapeutischen Frühbehandlung und lernen die wichtigsten Hilfsmittel kennen, die einige Folgen des Schlaganfalls abmildern.

**15:00 – 15:45** EXHIBITOR WORKSHOP



Coapt LLC

#### The Original Myoelectric Pattern Recognition for Prosthetic Arms and Hands

Speaker: Blair Lock

Myoelectric Pattern Recognition for the control of upper limb powered prostheses has now been available for more than 10 years. This workshop will explore how the latest in machine learning allows prostheses users incredible personalisation and powerful, modern training tools. The Coapt control system will be detailed and your questions will be answered.

**15:00 – 15:45** EXHIBITOR WORKSHOP

TASKA Prosthetics GmbH

#### Product Innovation for Improved User Experience

Speakers: Neil Stephen, Niklas Immink

“At TASKA we are all driven by the same thing. Developing a prosthetic hand that is not just a little better, but hugely better.” Mat Jury, TASKA founder. TASKA’s design philosophy leads to a greater focus on the customer. In this workshop, the TASKA team will demonstrate how innovative product design leads to better outcomes for both the prosthetist and the patient.



# Varomed




📍 **Hall 1 - Stand B24**



## CONGRESS PROGRAMME



### WEDNESDAY, 15 MAY 2024

15:00–15:45 EXHIBITOR WORKSHOP  

Orthoservice AG

#### “Agilik” Active Knee Joint – Stand Taller, Walk Stronger


Speaker: Luca Speroni

15:00–15:45 EXHIBITOR WORKSHOP  

Premsilia SRL

#### Mia Hand: The First Fully Customisable Hand Prosthesis on the Market



Speaker: A. Morandi, N. Motzo

15:00–15:45 EXHIBITOR WORKSHOP  

Rodin4D

#### Beyond Boundaries: Exploring Endless Insole Possibilities With Our Advanced Podiatry Solution



Eqwal Digital Division unites Rodin4D, Vorum, and Techmed3D, merging specific areas of expertise to revolutionise O&P care. Together, we combine our extensive experience in the orthopaedic field, aiming to advance digital solutions and innovations tailored to the evolving needs of the podiatry industry. Our commitment is unwavering – to lead with cutting-edge digital solutions, precisely tailored to O&P industry needs, enhancing patient care and innovation.

15:00–15:45 EXHIBITOR WORKSHOP  

Ottobock SE & Co. KGaA

#### Evanto – a Novel Prosthetic Foot Concept: Benefits, Function and User Profile

Speaker: Allen Ingersol

15:00–15:45 EXHIBITOR WORKSHOP  

Steeper, part of Eqwal Group

#### Latest Upper Limb Prosthetic Innovation

Speaker: Brian McLaughlin

15:15–16:30 SYMPOSIUM 

#### Therapy of Juvenile Scoliosis: Today and in the Future

Chair: Bernd Urban

- The New S2k Guideline for Scoliosis  
Speaker: Prof. Florian Geiger
- Treatment Standards in Physiotherapy  
Speaker: Udo Roevenich
- Physiotherapy and Brace Therapy: A Closed System?  
Speaker: Sebastian Hoebink
- Limits of Conservative Treatment  
Speaker: Dr. med. Sven Nagel
- Prospect on the Treatment of Scoliosis  
Speaker: Florian Völlner

Interdisciplinary cooperation is crucial to the success of scoliosis therapy. The new S2k guidelines for adolescent idiopathic scoliosis provide an overview of the main areas of treatment along with recommendations and evidence-based facts for orientation. Participants will learn how their patients feel well cared for through the interplay of physiotherapy, brace treatment and possible surgery when the entire team speaks the same language. They will also learn about the future of scoliosis therapy: How can we help optimise the treatment possibilities without overtaxing the patient?

15:15–16:30 SYMPOSIUM 

In Collaboration with AAOP

#### Modern Treatment and Innovations for Patients With Spina Bifida – US-German Exchange: Pediatric O&P

Chair: Merkur Alimusaj (Dipl.-Ing. FH), Lauren Levey

- US Approach to Orthotic Care in the Pediatric Spina Bifida Population: Collaborative Clinic Perspective  
Speaker: Lauren Levey

## WEDNESDAY, 15 MAY 2024

- Sensory Motor Challenges, Tethered Cord and Spinal Complications in the Pediatric Spina Bifida Population  
Speaker: Dr. Gregory Heuer (PhD)
- Surgical Aspects in Patients With Spina-Bifida From an Orthopaedic Perspective in Germany  
Speaker: Prof. Dr. Frank Braatz
- Spina-Bifida: Orthotic Treatment From a Conservative, Functional Perspective in Germany  
Speaker: Merkur Alimusaj (Dipl.-Ing. FHJ)
- The Approach to Interdisciplinary Care for the Spina Bifida Population in Germany  
Speaker: Prof. Dr. Stephan Martin

Participants will gain a comprehensive understanding of the treatment of patients with spina bifida from infancy to young adulthood. They will learn about conservative and surgical treatment strategies as well as physiotherapy, orthopaedic, neurological and rehabilitative considerations, patient care and supplementary orthopaedic measures. Experts from paediatric hospitals and orthopaedic treatment and care institutions in the USA and Germany will present innovative clinical treatment approaches and examine specific patient pathologies.



### Zukunftssicher

## Digitale Lösungen für meine individu- elle Situation

Die opta data Gruppe unterstützt jeden Hilfsmittelanbieter dort, wo es wirklich zählt. Die Expert:innen für Digitalisierung treiben Wandel und Veränderungen mit neuen Ideen voran.

Sie finden die opta data Gruppe mit einem Messestand auf der OTWorld.

[www.optadata-gruppe.de](http://www.optadata-gruppe.de)

Einen Schritt voraus. **opta data**  
GRUPPE

## CONGRESS PROGRAMME

### WEDNESDAY, 15 MAY 2024

15:15 – 16:30 FREE PAPERS



#### Socket and Osseointegration

- Humidity Measurements Within a Prosthetic Interface During Activity  
Speaker: Margrét Sól Ragnarsdóttir
- A Biomechanical Explanation of Bone Loss in Transfemoral Prosthesis Users: How Our Everyday Decisions Can Influence Bone Behaviour  
Speaker: Jose Zavaleta Ruiz
- Vented Suction Suspension Prosthetic Interface Reduces Humidity on Transfemoral Amputee's Residual Limb  
Speaker: Jóna Valgerður Kristjánsdóttir
- Standardisierte Testmethoden für individuelle Prothesenschäfte  
Speaker: Andreas Leiniger
- Evidence-Based Fitting of Transfemoral Bionic Bone-Anchored Prostheses: Efficacy and Safety of State-of-the-Art Knees  
Speaker: Prof. Laurent Frossard
- 10 Years of Complications and Reoperations After Osseointegration  
Speaker: Dr. William Lu

15:15 – 16:30 SYMPOSIUM



#### Requirements for an Innovative Contemporary Socket Design in Transfemoral Prosthetics

Chair: Michael Schäfer

- Transfemoral Sockets – Proximal Brim and Alignment for Upper Body Stabilization  
Speaker: Prof. Dr. Malte Bellmann
- Evidence-Based Clinical Practice Guidelines and Novel Approaches to Transfemoral Socket Interface Design  
Speaker: Jason Kahle
- M.A.S. Socket Design 2.0 – Digital Socket Design in Transfemoral Prosthetics  
Speaker: Marlo Ortiz

- Experiences and Approaches in the Individual Socket Design of AK-Prosthetics  
Speaker: Olaf Gawron

More than 20 % of people living with the loss of a limb have been amputated above the knee. An uncomfortable socket is considered the most common complaint of prosthesis wearers. That makes adapting the socket bedding to the respective needs the most important requirement. Biomechanical influences also play an important role. They need to be compensated and handled by an appropriate prosthetic socket so the user obtains the best possible control of the prosthesis. Participants will learn about the characteristics of soft tissue conditioning as well as important measures for implementing successful prosthetic socket technology.

15:15 – 16:15 WORKSHOP **NEW**



In Collaboration with DGPL

#### Onkologische tumor-assoziierte Lymphödeme mit Beteiligung der unteren Extremitäten

Chair: Prof. Dr. Gerd R. Lulay

- Diagnose Lymphödem: Welche Verfahren werden in der Medizin eingesetzt? Was sind mögliche Differenzialdiagnosen?  
Speaker: Peter Nolte
- Die Grundzüge der manuellen Lymphdrainage bei Lymphödem – Vorstellung und Durchführung von physiotherapeutischen Maßnahmen am Patienten  
Speaker: Henry Schulze
- Wirkungsvolle und qualifizierte orthopädietechnische Kompressionsversorgung – Beratung und Behandlungsempfehlung, Ausmessen, Kompressionsdruck und -materialien, Zusatzprodukte, Tipps und Tricks  
Speakers: Petra Menkel, Stephan Klör

Das Sanitätshaus bietet eine spezialisierte Versorgung für Patienten mit onkologischen Lymphödem der Beine (nach Tumoren des Unterbauches). Der Workshop vermittelt praxisnah medizinische Diagnoseverfahren

WEDNESDAY, 15 MAY 2024

und Grundlagen der lymphatischen Versorgung. Anhand von Fallbeispielen erfahren Teilnehmer diespeziellen Anforderungen von Lymphpatienten, inklusive physiotherapeutischer Maßnahmen und Kompressionsversorgung. Sie erkennen Besonderheiten und unterscheiden herstellerunabhängig über Auswahl von Produkten und sinnvolle Zusätze. Facharzt, Therapeut und Kompressions-Experte teilen ihr Wissen. Betroffene berichten, schärfen den Blick für Details. Der Workshop bietet einen umfassenden Einblick in die Versorgung von onkologischen Lymphödemen der Beine – praxisnah, fundiert und sensibel.

16:45 – 18:00 FREE PAPERS

Biomechanics

- Walking Ability of Transfemoral Amputees With Transcutaneous Osseointegrated Prosthesis Compared to Socket Prosthesis and Patients With Hip Endoprosthesis  
Speaker: Prof. Dr. Siegmur Blumentritt
- Biomechanical Performance Analysis of Ankle Foot Orthoses Using a Computational Human Lower Leg Model  
Speaker: Armagan Can Yildiz



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14.05. 11:00–11:45 Uhr Raum M22, Ebene 0

**Versorgung von Schwangeren mit Hilfsmitteln:**

Wie binde ich eine attraktive Zielgruppe an mein Sanitätshaus?

16.05. 12:00–12:45 Uhr Raum M24, Ebene -1

## CONGRESS PROGRAMME

### WEDNESDAY, 15 MAY 2024

- Comparison of Kinetics and Upper Ankle Joint Kinematics of Walking in Patients With Minor Foot Amputations and a Healthy Control Group  
Speaker: Darja Nesterovica-Petrikova
- Gait Stride Variability as a Predictive Risk Factor for Musculoskeletal Injuries During Barefoot and Shod Walking Among Military Personnel  
Speaker: Frithjof Doerks

**16:45 – 18:00** SYMPOSIUM



In Collaboration with GFFC und D.A.F.

#### Ankle – Conservative/Surgical

Chair: Dr. Hartmut Stinus

- Causes of Ankle Osteoarthritis  
Speaker: Dr. Hartmut Stinus
- Orthopaedic Options for Ankle Osteoarthritis  
Speaker: Michael Möller
- Surgical Joint-Preserving Therapy  
Speaker: Prof. Dr. Christina Stukenborg-Colsman
- Surgical Therapy – Prosthesis vs. Arthrodesis  
Speaker: Prof. Dr. Markus Walther

Participants will gain insights into diagnostics and stage-appropriate therapy for osteoarthritis of the ankle. For slight to moderate osteoarthritis, good treatment success can be achieved through conservative therapy with insoles, supports, inner shoes, anti-inflammatory medications and osteoarthritis-modulating infiltrations – with hyaluronan, for example. When conservative treatment fails, there are stage-appropriate surgical treatment options such as arthroscopy techniques and cartilage replacement methods as well as axis correction / repositioning surgery. Arthrodesis or prosthesis implantation are available as a last resort.

**16:45 – 18:00** FREE PAPERS

#### Digital – Scan – Additive. What Works?

- Technical Assessment of Scan Solutions  
Speaker: Dr. Briac Colobert
- A New 3D-Scanning-Textile for Orthotics and Prosthetics That Enables Instant Shape Acquisition of Limbs Under Manual Correction and / or Palpation  
Speaker: Ralf Schumacher
- Methodological Development and Validation of an Additively Manufactured, Highly Dynamically Loaded Lower Leg-Foot Orthosis  
Speaker: Carsten Diltthey
- Integration of 3D Scans Using Smartphone Video and AI in Digital Workflows for Orthopaedic Technicians in 3D-Printed Orthoses  
Speaker: Tino Jacobi
- Prosthetist-Specific Digital Rectification Templates for Custom-Made Sockets  
Speaker: Dr. Andrea Giovanni Cutti (PhD)

**16:45 – 18:00** FREE PAPERS



#### Lower Limb Prosthetics 1

- Einfluss der individuellen Versorgung auf das Gangverhalten von aktiven Patienten mit einer unilateralen Vorfußamputation  
Speaker: Frithjof Doerks
- Caesar Foot: Design and Clinical Evaluation of a Bimodal Run-Walk Prosthetic Foot  
Speaker: Todd Farrell (PhD)
- Can Machine-Based Tests Predict Prosthetic Foot Performance Outcomes and User Experience?  
Speaker: Felix Starker
- Biomechanical Evaluation of Functionally Demanding Gait Tasks, Comparing a Novel Prosthetic Foot to a Conventional ESAR Prosthetic Foot  
Speaker: Anna Ármannsdóttir



# So wird ein Schuh draus!

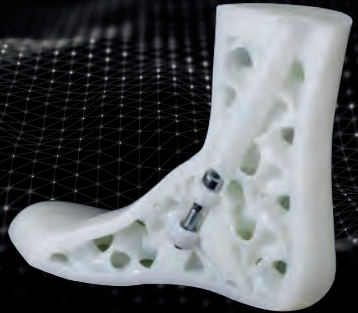
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Halle 1 – Stand G34

Dreve

- 
- A Novel Prosthetic Foot Addressing Both High Activity and Everyday Use: A Case Report  
Speaker: Prof. Dr. Sebastian Wolf
  - Designing Prostheses to Meet User Needs or to Meet Test Requirements? New ISO10328 Dynamic Loads Could Serve Both  
Speaker: Dr. Julius Thiele
-

## THURSDAY, 16 MAY 2024

09:15 – 10:15 WORKSHOP



In Collaboration with DGIHV

**Lower Leg/Thigh Prosthetics: How Do I Verify the Fit of the Socket? What Are the Acceptance Criteria?**

Chair: Olaf Gawron

- Checking the Fit of Lower Leg Prostheses  
Speaker: Timo Dambeck
- Checking the Fit of Upper Leg Prostheses  
Speaker: Samuel Wiedmann
- Removal Criteria for Lower and Upper Leg Prostheses  
Speaker: Johannes Siegel

Participants will get to know the design features and functionality of lower leg and upper leg prosthesis sockets, including practical approaches to checking the fit. They will also learn how a lower leg or upper leg prosthesis functions as a whole. A description of the acceptance criteria and their implementation completes the training.

09:15 – 10:15 WORKSHOP



In Collaboration with FOT

**Osseointegration: An Alternative to Exoprosthetics?**

Chair: Prof. Dr. Thomas Mittlmeier, Ingo Pfefferkorn (Dipl.-Ing. FH)

- From Implant to a Transcutaneous Osseointegrated Prosthetic System (TOPS) – Update 2024  
Speaker: Dr. med. Marko Saß
- Transcutaneous Osseointegrated Prosthetic Systems (TOPS) – From Surgery to Results. Risks and Opportunities – Step 1  
Speaker: Dr. med. Horst-Heinrich Aschoff
- TOPS – From Surgery to Results. Risks and Opportunities – Step 2  
Speaker: Ralph Scharpenberg

Since the 1990s, transcutaneous osseointegrated prosthetic systems (TOPS) have been continuously developed for people with arm or leg amputations. Participants will get to know the state of development and which criteria are medically, therapeutically and orthopaedically important. They will learn from practical examples for use in their own practice what advantages this type of care offers compared to a conventional shaft prosthetic system and to which type of patients the risks and opportunities of this prosthetic care technology apply.

09:15 – 10:15 WORKSHOP **NEW****Brustprothesen im Spannungsfeld zwischen Diagnose Krebs, Kostendruck und psychischer Belastung aller Beteiligten**

Chair: Petra Menkel

- Medizinische Einführung in das Thema: Fakten zum Brustkrebs, aktuelle OP-Methoden  
N.N.
- Welche Hersteller gibt es? Wo liegen die Unterschiede? Wo sind die Grenzen einer vorgefertigten prothetischen Versorgung? Ab wann müssen Maßprothesen hergestellt werden?  
Speaker: Kristina Böhm
- Psychoonkologischer Einblick in beide Seiten der Versorgung: Patientin und Sanitätshausangestellte  
N.N.

Nach der Vorstellung der wichtigsten Fakten zum Thema Brustkrebs und der aktuellen OP-Methoden erhalten die Teilnehmenden einen Überblick über die gängigsten Brustprothesen. Sie gewinnen Sicherheit im Umgang mit ihren Kundinnen und erlernen die wichtigsten Strategien zur Stressbewältigung, auch damit sie sich abgrenzen können.



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## THURSDAY, 16 MAY 2024

10:30 – 11:45 SYMPOSIUM



### Medical and Orthopaedic Aspects of Childhood Amputations and Dysmelia – Therapy Plan and Complication Management

Chair: Merkur Alimusaj (Dipl.-Ing. FH)

- Surgical Measures and Complication Surgery in Childhood  
Speaker: Cornelia Putz
- Orthopaedic Approaches for Excess Bony Growth  
Speaker: Merkur Alimusaj (Dipl.-Ing. FH)
- Surgical and Non-Surgical Treatment of Toddlers With Reduction Defects in Lower Limbs  
Speaker: Dr Bjoern Vogt, Dr med. Adrien Frommer
- Initial Findings of a Prospective Study into Recording the Quality of Life of Patients With Reduction Defects in Lower Limbs in Adolescence and Adulthood  
Speaker: Dr. med. Adrien Frommer, Dr. Bjoern Vogt
- Walking Together – the Significance of Orthopaedic Treatment and Care for the Lives of Those Affected  
Speaker: Dr. Dorothea Voss

In the context of amputation procedures, including those for congenital deformities, the focus is also on orthopaedic treatment and care approaches to regulating excessive osseous growth in children with lower limb amputations. Non-surgical treatment methods for patients with reduction defects will be presented, including the initial results of a study on their quality of life. Participants will gain comprehensive insights into aspects of treatment from childhood to adulthood involving orthopaedic challenges where the personal perspective of those affected is taken into account.

10:30 – 11:45 SYMPOSIUM



In Collaboration with VKO

### Options and Limitations in the Orthotic Treatment of Spinal Deformities in Growing Children

Chair: Alexandra Reim, Ingo Pfefferkorn (Dipl.-Ing. FH)

- The Spinal Column in Focus – an Overview  
Speaker: Dr. Madlaina Schöni
- Orthotic Treatment From the Perspective of Evidence-Based Medicine  
Speaker: Dr. Franz Landauer (OA)
- Compliance in the Conservative Treatment of Scoliosis  
Speaker: Lukas Kemper
- Possibilities and Limitations from the Physiotherapeutic Viewpoint  
N.N.

Conservative treatment methods versus surgical measures are always being debated. Treatment with a brace is currently being reevaluated in the scientific community. The results are surprisingly good, which means the success story of brace treatment will continue into the future. Participants will learn how to slow and reverse constant deviations of the spine from the plane of symmetry during the growth phases in terms of optimal orthotic fitting.

10:30 – 11:45 SYMPOSIUM



In Collaboration with VTO

### Provision of Medical Aids in a Crisis Area – What Are the Challenges?

Chair: Prof. Dr. Frank Braatz

- Prosthetic Fitting and Solutions in Ukraine – Superhumans Team  
Speaker: Andrii Vilenskyi

THURSDAY, 16 MAY 2024

- Provision of Rehabilitation Services in War Zones: What Are the Challenges?  
N.N.
- How the UNBROKEN Team Solves the Needs of Physical Rehabilitation and Orthopaedic Aids in Ukraine  
Speaker: Maryana Svirchuk
- The Human Study Training Programme in Ukraine  
Speaker: Christian Schlierf

- How the Aurora Project Supports Ukrainian Rehabilitation Workers

Speaker: Sebastian Kurras

Supplying medical devices to crisis regions and war zones – Ukraine being a current example – poses a tremendous challenge regarding the supply of resources as well as training and the transfer of knowledge. Participants will learn about current and proven solution concepts based on specific examples.

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## THURSDAY, 16 MAY 2024

## 10:30 – 11:45 SYMPOSIUM

## More Than 30 Years of Osseointegration

Chair: Dr. Jennifer Ernst

- The Swedish Experience  
Speaker: Rickard Brånemark
- Transcutaneous Osseointegrated Prosthetic Systems (TOPS) – Step-Child or “Game Changer” in Post-Limb Loss Rehabilitation  
Speaker: Dr. med. Horst-Heinrich Aschoff
- Neuromusculoskeletal Prostheses: Using Osseointegration to Enable Neural Control  
Speaker: Max Ortiz-Catalan
- 30 Years of Implant Design  
Speaker: Alexander Thesleff
- Osseointegration – Added Value Through High-Quality Prosthetic Components?  
Speaker: Hans Oppel

Osseointegration has been practised in orthopaedic technology for more than 30 years. Where do we stand today, and what is the future of osseointegration in orthopaedic technology? Participants will learn about implant design, complication rates, component compatibility, pitfalls in surgery and orthopaedics, and innovation prospects.

10:30 – 11:30 WORKSHOP **NEW**

In Collaboration with DGPL

## Primäres Lymphödem

Chair: Prof. Dr. Gerd R. Lulay

- Diagnose Lymphödem: Welche Verfahren werden in der Medizin eingesetzt? Was sind mögliche Differenzialdiagnosen?  
Speaker: Dr. Dr. René Hägerling
- Die Grundzüge der manuellen Lymphdrainage bei Lymphödemen – Vorstellung und Durchführung von physiotherapeutischen Maßnahmen am Patienten  
Speaker: Henry Schulze

- Wirkungsvolle und qualifizierte orthopädietechnische Kompressionsversorgung – Beratung und Behandlungsempfehlung, Ausmessen, Kompressionsdruck und -materialien, Zusatzprodukte, Tipps und Tricks  
Speakers: Stephan Klör, Petra Menkel

Das Sanitätshaus bietet eine umfassende Versorgung für Patienten mit primären Lymphödemen. Der Workshop vermittelt praxisnah medizinische Diagnoseverfahren und Grundlagen der lymphatischen Versorgung bei primären Lymphödemen. Anhand von Fallbeispielen erfahren Teilnehmer die speziellen Anforderungen von Lymphpatienten, inklusive physiotherapeutischer Maßnahmen und individueller Kompressionsversorgung. Sie erkennen Besonderheiten und entscheiden herstellerunabhängig über die Auswahl von Produkten und sinnvolle Zusätze. Facharzt, Therapeut und Kompressionsexperte teilen ihr Wissen. Betroffene berichten, schärfen den Blick für Details. Der Workshop bietet einen umfassenden Einblick in die Versorgung von primären Lymphödemen – praxisnah, fundiert und sensibel.

## 11:00 – 11:45 EXHIBITOR WORKSHOP



Formlabs GmbH

3D-Druck-Lösungen für die Orthopädietechnik:  
Heute verletzt, morgen individuell versorgt

Speakers: Shiden Yohannes, Marlou de Jong

Die additive Fertigung bietet Sanitätshäusern und Herstellern von Orthopädietechnik eine Vielzahl von Vorteilen, welche die Effizienz und Flexibilität der Patientenversorgung erheblich steigern können. In diesem Workshop, präsentiert von Formlabs Healthcare, werden fortschrittliche Anwendungen der 3D-Druck-Technologie im medizinischen Bereich vorgestellt. Besonders im Fokus stehen personalisierte Einlagen, Orthesen, Prothesen und weitere Hilfsmittel. Die Veranstaltung bietet die Gelegenheit, Herausforderungen zu diskutieren, denen Unternehmen bei der Implementierung von 3D-Druck-Technologien gegenüberstehen.

# SO HERE WE GO!



## Mobile pressure measurement system for gait analysis and load diagnoses under the feet

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The transport case contains the application-specific sensors (e.g. measuring soles), wireless data acquisition units, a receiver unit for the PC and the „VisuPress“ software. This software, designed for Windows 10/11, impresses with its intuitive interface design and extensive analysis functions as well as the wireless measurement of both feet at the same time.



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TECHNOLOGIES

## CONGRESS PROGRAMME

### THURSDAY, 16 MAY 2024

Darüber hinaus lernen Sie Strategien kennen, um additive Fertigung nahtlos in den Arbeitsablauf zu integrieren und wie 3D-Druck medizinischem Fachpersonal ermöglicht, individuell angepasste Medizinprodukte gemäß den Bedürfnissen der Patienten herzustellen.



11:00 – 11:45 EXHIBITOR WORKSHOP  

Basko Healthcare

#### The Need for Dynamic Contraction Management and Prevention Following LLPS in Order to Correctly Align AFO's

Speaker: Flora Versyck

During walking, ROM limitation in the ankle can lead to severe knee hyperextension in stance and gait. This contracture restricts joint mobility and can be effectively treated with the Low Load Prologned Stretch (LLPS) method with a Dynamic MultiMotion joint. After gaining PROM, a customised and well-aligned AFO can increase walking speed and functionality as well as limiting knee hyperextension, provided there is adequate dorsal flexion PROM and a minimum Quadriceps force (MRC4). This workshop will show how easy dynamic contracture management is and how this can simplify the application of an alignable AFO.



11:00 – 11:45 EXHIBITOR WORKSHOP  

Bauerfeind AG

#### Kompressionsversorgung leichtgemacht: Ein Workshop mit fruchtigem Touch

Speakers: Kristin Werth, Astrid Basson



Was hat Obst mit unserem Bindegewebe gemeinsam? Erfahren Sie in diesem Workshop wie Sie mit dem Kompressionsstrumpf-Portfolio von Bauerfeind die unterschiedlichsten Bindegewebstypen fachgerecht versorgen können. Nicht jeder Strumpf passt an jedes Bein – aber für jedes Bein haben wir den passenden Strumpf.

11:00 – 11:45 EXHIBITOR WORKSHOP  

Thuasne

#### Lymphoedema Management With Mobiderm Autofit – Intensive and Maintenance Phases

Presentation of two studies and fitter / patient experience



11:00 – 11:45 EXHIBITOR WORKSHOP  

Becker Orthopedic Appliance Co.

#### Optimising Gait Kinematics With High Performance Orthotic Ankle Components

Speaker: Sean McKale

This clinical workshop will demonstrate how the Triple Action and MILINE high performance ankle components from Becker Orthopedic can be utilised as effective tools to improve gait kinematics by reducing gait deviations without over-restriction of ankle ROM. Attendees will learn how to improve the quality of an individual's gait utilizing a systematic tunning approach.

11:00 – 11:45 EXHIBITOR WORKSHOP  

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## THURSDAY, 16 MAY 2024

11:00–11:45 EXHIBITOR WORKSHOP    
Click Medical LLC

### Optimising Orthotic & Prosthetic Devices With Adjustability

Speaker: Joe Mahon

Join us for an in-depth look at adjustability and how it can be added to new and existing orthotic and prosthetic devices. Clinicians and technicians can learn how to optimize their designs and devices for the best patient experience and outcome. Come and learn about the adjustable technology that's changing lives and leading the industry.

12:00–12:30 KEYNOTE   

### Green Carbon Fiber – a Sustainable Material for High Performance Applications in Medical Technology

Speaker: Prof. Dr. Thomas Brück

The use of sustainable, greenhouse gas-neutral, high-performance materials is becoming increasingly important in the plastics sector. Participants will learn about new bio-based methods for the production of "green" bio-based carbon fibres. These high-performance lightweight materials can be used in the production of plastics. They are an alternative to the production methods with conventional carbon fibres currently in use.

12:00–13:00 EPOSTER PRESENTATION

### Poster Presentation – Prosthetics and Pediatric/Adolescent and Neuroorthopaedics

- The Item-Menu-List for Amputee Patients, an Instrument for Giving Relevant and Timely Patient Information  
Speaker: Dr. Erwin C.T. Baars

12:00–13:00 EPOSTER PRESENTATION

### Poster Presentations With Short Lectures – Prosthetics and Pediatric/Adolescent and Neuroorthopaedics

- Literature Review – Significance of the Outcomes Measure for the Above Knee Amputees to Evaluate the Best Prescription to Improve Quality of Life (QoL) After Amputation  
Speaker: Sandeep Uppal
- Comparison of the Effectiveness of Robotic Rehabilitation and Conventional Therapy for Upper Extremity Function in Children With Hemiplegic Cerebral Palsy: A Literature Review  
Speaker: Maryam Maleki (PhD)
- Hilfsmittelmatrix Cerebralparese 2.0 – ein Update der Orientierungshilfe für interdisziplinäre Expertenteams  
Speaker: Peter Fröhlingendorf
- Versorgungsreihe zeigt: Das VPS-System überzeugt als neuer subschialer Prothesenschaft mit vielen Vorteilen  
Speaker: Tobias Vogel
- Hand Surgeon Understanding of Partial Hand Protheses: Results of a National Survey Study  
Speaker: Chris Baschuk
- Wireless Implantable Myoelectric Sensors (IMES) for Enhanced Prosthetic Hand Control: Clinical Experience and Interim Trial Data  
Speaker: Vincent MacEachern
- ISO/DIS 22675:2021 – Einführung von Bewegungsprofilen in Abhängigkeit der vorgesehenen Verwendung  
Speaker: Sandra Voßler
- A Clinical Trial Protocol Exploring the Impact of Lower Limb Loss on Brain Neuroplasticity and Functional Performance  
Speaker: Elke Lathouwers
- Gebrauchsvorteile in der Prothesenversorgung – welche konkrete Nutzenrelevanz ergibt sich aus dem Einsatz aktiv motorunterstützter Kniegelenke?  
Speaker: Dr. med. Johannes Schröter



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## CONGRESS PROGRAMME

### THURSDAY, 16 MAY 2024



- Neues Orthesenkonzept zur Verbesserung der frontalen Beweglichkeit bei Unterschenkelorthesen mit ringförmiger Fußfassung  
Speaker: Thomas Wetzelsperger
- Scoping Review of the Evidence on Powered Prosthetic Ankle-Foot Components  
Speaker: Dr. med. Andreas Kannenberg
- Safety and Effectiveness of the Bone Anchoring Device for Artificial Limbs in Individuals With Transtibial Amputation: A Two-Year Follow-up Study  
Speaker: Jamal Mohamed (MD)
- Pioneering a Non-Conventional Design of a Simple Ortho-Prosthesis for a Juvenile Hemi-Pelvectomy Amputation Case  
Speaker: Youssef Salam
- Developing an Exoskeletal Light-Weight Forequarter Amputation Prosthesis Utilising Minimum Components for a Sarcoma Case Under Covid Restrictions  
Speaker: Youssef Salam
- Ein neu entwickeltes Outcome Measurement Instrument zur Bewertung von Prothesenkomponenten: Erster Praxistest  
Speaker: Annika Dlugoszek

**12:00 – 12:45** EXHIBITOR WORKSHOP    
Ofa Bamberg GmbH

#### Better together – Versorgungsmöglichkeiten nach Brustkrebs



Speakers: Michaela Lundius, Claudia Horrer

Im Rahmen der Kooperation ‚better together‘ von Ofa und Amoena vermitteln wir Ihnen speziell angepasste Kenntnisse in den Bereichen Brustprothetik und Lymphologie.

**12:00 – 12:45** EXHIBITOR WORKSHOP    
spektramed GmbH



#### Modulare Wirbelsäulen-Orthesen-Versorgung im Klinikalltag

Speaker: Maximilian Schreinemacher

**12:00 – 12:45** EXHIBITOR WORKSHOP    
TIGGES – Zours GmbH

#### Indikationen und biomechanische Wirkweise eines Knieorthesensystems mit Mobilisierungsfunktion



Speaker: Prof. Dr. med. Joachim Grifka (Dr. h. c. mult.)

**12:00 – 12:45** EXHIBITOR WORKSHOP    
Bauerfeind AG

#### Die nackte Wahrheit hinter dem Rezept! Ortho meets Compression



Referenten: Nadine Fürup, Alexander Lehle

Kompression hilft (fast) immer: Die Vorteile einer Kompressionstherapie werden immer häufiger auch im orthopädischen Bereich gesehen und genutzt. Zum Beispiel kommt es postoperativ häufig zu Schwellungen, die mit Kompression reduziert werden können. Erlangen Sie in diesem Workshop Kenntnisse über den Tellerrand hinaus, wann sich orthopädische mit phlebologischen bzw. lymphologischen Versorgungen sinnvoll ergänzen.

**12:00 – 12:45** EXHIBITOR WORKSHOP    
BionIT Labs

#### Adam’s Hand Certification (Part 2/2 – Practical Training)

Speaker: Giovanni Antonio Zappatore

**12:00 – 12:45** EXHIBITOR WORKSHOP    
Ottobock SE & Co. KGaA

#### Evanto – ein neuartiges Prothesenfußkonzept: Vorteile, Funktion und Anwenderprofil

Speaker: Frederik Thiede

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## CONGRESS PROGRAMME



### THURSDAY, 16 MAY 2024

**12:00 – 12:45** EXHIBITOR WORKSHOP    
Lohmann & Rauscher

#### Versorgung von Schwangeren mit Hilfsmitteln: Wie binde ich eine attraktive Zielgruppe an mein Sanitätshaus?

Speaker: Anne Ratajczak, Axel Gundlach



Die Schwangerschaft ist für viele Frauen eine schöne Zeit, die aber auch zahlreiche Belastungen mit sich bringen kann, insbesondere für den Rücken und die Bein-Venen. Es ist ein dankbares Betätigungsfeld für den Sanitätsfachhandel, die Schwangeren während dieser Zeit mit Produkten und Beratung zu begleiten, Beschwerden zu lindern und sich dadurch bei einer attraktiven Zielgruppe zu profilieren. Das Seminar gibt Tipps, wie Sie Schwangere erreichen und mit überzeugenden Produkten und Leistungen begeistern und zu dankbaren Kundinnen machen können. Attraktive Versorgungsbeispiele mit speziellen Schwangerschaftsrückenorthesen und modischen Kompressionsstrümpfen runden das Seminar ab.

**13:00 – 13:45** EXHIBITOR WORKSHOP    
Aether Biomedical SP z.o.o.

#### Zeus – the Strongest Bionic Hand in the Market

Speaker: Dhruv Agrawal



Aether Biomedical's CEO will introduce Zeus – the strongest bionic hand in the world, available at a lucrative price level. Zeus is equipped with the Aether digital platform, a revolutionary web-based software that connects the Zeus hand to the digital ecosystem, allowing for remote configuration, device usage monitoring, as well as remote patient monitoring. Come see how the integration of machine learning, AI, and IoT technology can help clinicians deliver the next generation of patient care. Our workshops will provide an in-depth look at both the Zeus hand and the Aether Digital Platform, and how they work together to deliver outcome-driven care.

**13:00 – 13:45** EXHIBITOR WORKSHOP    
Invent Medical Group s.r.o.

#### 3D Printing in Prosthetics: Benefits, Considerations & Steps to Start



Speaker: Claire Repisky

Practical steps to start utilising 3D printing in prosthetics today. Learn more about benefits, challenges, 3D scanning options, real patient cases and risk-free trials. This workshop will focus on the efficient end-to-end process for printing both test and definitive below-knee sockets in-house or at outsourced locations.

**13:00 – 13:45** EXHIBITOR WORKSHOP    
VINCENT Systems GmbH

#### Myoelektrisches Exoskelett neo1 mit VR-Trainingsssystem



Speaker: Simon Rosewich

**13:00 – 13:45** EXHIBITOR WORKSHOP    
Ofa Bamberg GmbH

#### Better together – Versorgungsmöglichkeiten nach Brustkrebs

Speakers: Michaela Lundius, Claudia Horrer

Im Rahmen der Kooperation ‚better together‘ von Ofa und Amoena vermitteln wir Ihnen speziell angepasste Kenntnisse in den Bereichen Brustprothetik und Lymphologie.

**13:00 – 13:45** EXHIBITOR WORKSHOP    
Orthoservice AG

#### „Agilik“ Active Knee Joint – Stand Taller, Walk Stronger

Referent: Luca Speroni

13:00 – 13:45 EXHIBITOR WORKSHOP



MOWA Healthcare AG

### MOWA – ein zukunftsweisendes 4.0-Orthesensystem

Speakers: Jan-Hagen Schröder, Manuel Westervelt

Bei MOWA handelt es sich um ein neuartiges, individuell angepasstes, dynamisches 4.0 Orthesensystem für die Versorgung bei Lähmungen in den unteren Extremitäten vom Kleinkind bis zum Erwachsenen.

13:30 – 14:45 FREE PAPERS

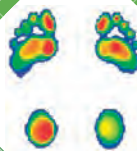


### Upper and Lower Limb Prosthetics

- First Experiences With the Feeling Hand Prosthesis (FEELIX) After TSR Surgery for Prevention and Treatment of Phantom Limb Pain and Neuropathic Pain  
Speaker: Dr. med. Alexander Gardetto (PD)
- Targeted Muscle Reinnervation Surgery Combined With Signal Processing for Intuitive Prosthesis Control  
Speaker: Levi Hargrove (PhD)
- Comparison of Functional Performance of Two Passive Adjustable Prosthetic Hands, With Self-Grasping Mechanism  
Speaker: Dr. Gerwin Smit
- Biologisch technische Interfaces für bionische Handprothesen  
Speaker: Prof. Dr.-Ing. Klaus-Peter Hoffmann
- Ratcheting Prosthetic Fingers Significantly Improve Outcomes for People With Partial Hand Amputation  
Speaker: Chris Baschuk
- Improved Myoelectric Control With Sensory Feedback for Powered Knee Prostheses  
Speaker: Myrthe Tilleman

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## THURSDAY, 16 MAY 2024

13:30 – 14:30 WORKSHOP



In Collaboration with BUFA

### Hilfsmittelversorgung zwischen Wunsch und Wirklichkeit

Chair: Alexandra Reim

- Orthopädietechniker:innen: High-Performer zwischen Erwartungsdruck und Versorgungsrealität  
Speaker: Samuel Schiel
- Zwischen Therapieassistentz und Hightech-Nerd: Zielvereinbarung und Prüfparameter in der Hilfsmittelversorgung  
Speaker: Maik Pollmeyer
- Vom Wunsch zur Wirklichkeit: Möglichkeiten zur Bewertung des Versorgungserfolgs  
Speaker: Dr. Ulrich Hafkemeyer
- Alles gut? Wir arbeiten dran: Hilfsmittelversorgung als Prozess  
Speaker: Christopher Berkholtz
- Resilienz: Strategien für einen erfüllten Arbeitsalltag  
Speaker: Luzie Hoppe

Die vielfältigen Einflüsse und Erwartungen, die an eine Hilfsmittelversorgung gestellt werden, erfordern von den Leistungserbringern ein komplexes Fachwissen zur Situation der Patienten, den Zuständigkeitsbereichen der Beteiligten, vom Verordner bis zum Kostenträger sowie der Bewertung von Versorgungsergebnissen. Auch die Patientinnen und Patienten tragen ganz unterschiedliche Erwartungen an die Fachkräfte heran. Die Teilnehmenden erfahren, wie eine transparente Arbeitsweise Voraussetzungen für eine Bewältigung von Zielkonflikten und zur Stärkung der eigenen Resilienz schafft.

13:30 – 14:30 WORKSHOP



In Collaboration with BUFA

### Leitliniengerechte Versorgung von Jugendlichen mit jugendlicher idiopathischer Skoliose (AIS) und deren individuelle, praktische Umsetzung

Chair: Silke Auler, Andreas Würsching

- Die Schroth-Therapie bei jugendlicher idiopathischer Skoliose (AIS)  
Speaker: Udo Roevenich
- Die Korsettversorgung bei jugendlicher idiopathischer Skoliose (AIS): Von der Formerfassung zum korrigierten Modell eines modernen Châneau-Korsetts  
Speaker: Jan Jurkoweit
- Digitale Korsettfertigung bei jugendlicher idiopathischer Skoliose (AIS): Nutzen, Möglichkeiten und Herausforderungen für Patienten und Techniker  
Speaker: Andreas Würsching

Die konservative Therapie der adoleszenten idiopathischen Skoliose (AIS) besteht aus dem Zusammenspiel von krümmungsspezifischer Physiotherapie und Korsettbehandlung. Dabei sind Klassifikationen der Krümmungsmuster, z. B. nach Schroth und Rigo, Wegweiser zur bestmöglichen Versorgung von AIS-Patienten. Die CAD-CAM-Technologie bietet Hilfe zur Reproduzierbarkeit der Konstruktionsergebnisse, Additive Fertigung von Rumpforthesen ermöglicht präzise und individuelle Ergebnisse. Die Teilnehmenden erfahren anhand von Praxisbeispielen, wie die Verzahnung von Physiotherapie und Korsettversorgung den Erfolg der konservativen Therapie beeinflusst.





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## THURSDAY, 16 MAY 2024

13:30–14:30 WORKSHOP



In Collaboration with Physio-Deutschland

**Differenzierte Betrachtung von Beinverkürzungen bis 3 cm**

Chair: Michael Volkery, Michael Maiwald

- Differenzierte Betrachtung von Beinlängendifferenzen und orthopädischschuhtechnischen Versorgungsoptionen

Speaker: Franz Fischer

- Untersuchungstechniken knöcherner oder muskulärer/funktionelle Beinverkürzungen

Speaker: Claudia Dahlmann

Funktionelle Längenunterschiede der Beine werden vor allem durch Kontrakturen der Gelenke, des Kapselbandapparates oder der Muskeln sowie durch Fehlstellungen des Hüftgelenks verursacht. Dabei sind klassische Höhenausgleiche häufig kontraindiziert. Anhand von Untersuchungs- und Messtechniken erhalten die Teilnehmenden Perspektiven auf die Versorgung mit sensomotorischen Einlagen (SMFOs). Insbesondere Untersuchung (Anamnese, Palpation, Inspektion) und statische Vermessung des Patienten sind essentiell. Der Einsatz von 3D- und 4D-Rückenvermessung sowie die Körperschwerpunktmessung ermöglicht Aussagen zur Ausprägung der kompensatorischen Fehlhaltung und der Wirkung der SMFO auf diese.

13:30–14:30 WORKSHOP **NEW**

In Collaboration with DGPL

**Lymphödem und Ulcera crurum – offene Beine und Wundrosen**

Chair: Prof. Dr. Gerd R. Lulay

- Diagnose Lymphödem: Welche Verfahren werden in der Medizin eingesetzt? Was sind mögliche Differenzialdiagnosen?

Speaker: Dr. Erika Mendoza

- Die Grundzüge der manuellen Lymphdrainage bei Lymphödemen – Vorstellung und Durchführung von physiotherapeutischen Maßnahmen am Patienten  
Speaker: Henry Schulze

- Wirkungsvolle und qualifizierte orthopädietechnische Kompressionsversorgung – Beratung und Behandlungsempfehlung, Ausmessen, Kompressionsdruck und -materialien, Zusatzprodukte, Tipps und Tricks  
Speakers: Stephan Klör, Petra Menkel

Das Sanitätshaus bietet eine spezialisierte Versorgung für Patienten mit Lymphödem und Ulcera crurum. Der Workshop vermittelt praxisnah medizinische Diagnoseverfahren und Grundlagen der lymphatischen Versorgung bei offenen Wunden. Anhand von Fallbeispielen erfahren Teilnehmer die speziellen Anforderungen von Lymphpatienten, inklusive physiotherapeutischer Maßnahmen und individueller Kompressionsversorgung. Sie erkennen Besonderheiten und entscheiden herstellerunabhängig über die Auswahl von Produkten und sinnvolle Zusätze. Facharzt, Therapeut und Kompressionsexperte teilen ihr Wissen. Betroffene berichten, schärfen den Blick für Details. Der Workshop bietet einen umfassenden Einblick in die Versorgung von Lymphödemen bei offenen Beinen – praxisnah, fundiert und sensibel.

15:00–15:45 EXHIBITOR WORKSHOP



Vogel Orthopädie Technik

**VPS System**

Speaker: Tobias Vogel

Das neue VPS-System (Vacuum-Pressure-Socket System) von Vogel Orthopädie Technik ist seit 2022 auf dem Markt. Die Auswertung von 30 Fragebögen zeigt: Die Anwender profitieren von Beginn an erheblich von den Vorteilen dieses subischialen Schaftsystems.

15:00–15:45 EXHIBITOR WORKSHOP



Ottobock SE &amp; Co. KGaA

**Evanto – a Novel Prosthetic Foot Concept: Benefits, Function and User Profile**

Speaker: Allen Ingersol

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## CONGRESS PROGRAMME

### THURSDAY, 16 MAY 2024

15:15–16:15 WORKSHOP



#### Patientenführung in der Hilfsmittelversorgung: Verantwortung und Grenzen

Chair: Alexandra Reim

- Orthopädie und Technik: Kompetenzen in der interprofessionellen Zusammenarbeit  
Speaker: Dr. Ulrich Hafkemeyer
- Orthopädietechnik zwischen Wunsch und Wirklichkeit  
Speaker: Alexandra Reim
- Resilienz: Strategien für einen erfüllten Arbeitsalltag  
Speaker: Luzie Hoppe

Der Alltag in der Orthopädietechnik bietet Herausforderungen, die neben handwerklichen und versorgungstechnischen Kompetenzen auch soziale Fähigkeiten fordern. Die Fachleute arbeiten mit Menschen, die sich einen Ausgleich ihrer Behinderung erhoffen und oft auch Wegbegleitung bei der Verarbeitung ihres Traumas suchen. Klare Kommunikation und Zielsetzung sind essenziell für eine gute Versorgung. Dabei müssen alle Beteiligten die gleiche Sprache sprechen und schon in der Anamnese wissen, was technisch, therapeutisch und wirtschaftlich möglich ist. Die Teilnehmenden erwerben Strategien von Alltagshelden, all das unter einen Hut zu bekommen und dabei die eigene Resilienz nicht zu vergessen.

15:15–16:15 SYMPOSIUM



In Collaboration with DGIHV

#### Paediatric Orthopaedics: 3D-Printing – New Options for Orthopaedic Treatment and Care?

Chair: Dr. Jennifer Ernst, Prof. Dr. Wolfram Mittelmeier

- Who Grows Quicker, the Child or the Orthosis?  
Speaker: Frank Naumann
- Concept 4D-Orthosis in Children With Obstetric Brachial Plexus Palsy  
Speaker: Stefan Kunz

- SIMBrace/ Hand

N.N.

- 3D Printing – Custom Treatment Options for Young and Old?

Speaker: Prof. Dr. Georg Osterhoff

- Use of Dynamic 3D Printing in Socket Fittings for Small Children

Speaker: Prof. Dr. Wolfram Mittelmeier

Short fabrication times, low production costs, sustainability and a high degree of customisation and design freedom are key aspects of 3D printing. Participants will learn how to best utilise the advantages of additive manufacturing in paediatric orthopaedic treatment and care for the benefit of growing patients.

15:15–16:15 SYMPOSIUM



In Collaboration with a Study Association of OST e.V., D.A.F. und GFFC

#### Orthopaedic and Footwear Technologies for Severe Foot Deformities in Children and Adolescents

Chair: Dr. Hartmut Stinus, Tino Spreklemeyer

- Surgical Treatment of Paediatric Planovalgus Foot Deformity – What Are the Limits of Conservative Orthopaedics?

Speaker: Dr. Hartmut Stinus

- Spiraldynamik as an Element of Treatment of the Paediatric Foot

Speaker: Dr. Jens Wippert

- Complex Surgical Adjustments of the Paediatric Foot

Speaker: Dr. Frank Schiedel (PD)

- Orthopaedic Footwear and Orthotic Fitting After Complex Rear Foot Operations

Speaker: Johannes Pröbsting

What can orthopaedic footwear technology accomplish with regard to severe foot deformities in children and during the growth phase? In addition to the functional limitation – the disability caused by the foot deformity

THURSDAY, 16 MAY 2024

– the acceptance of the medical device and its speedy fabrication are also important. These issues will be illustrated for the participants based on different indications.

15:15 – 16:15 FREE PAPERS



Orthotic Support for Severe Physical Dysfunctions

- Double-Sided Partial Manual Fitting With Naked Prosthetics  
Speaker: Ralf-Thomas Münch
- Preliminary Analysis of a Powered Hip Joint  
Speaker: Prof. Edward Lemaire

- Design and Manufacturing of Multi-Material Orthoses for a Sitting Volleyball Athlete With Scleroderma  
Speaker: Dr. Maria Grazia Santi
- Mechanical Stance Control Orthosis for Restoring Gait in a Post-COVID 19-Patient: A Case Study  
Speaker: Flora Versyck
- The Effect of Early COVID-19 Policy on a Multinational Cohort of Individuals Dependent on Knee-Ankle-Foot Orthoses for Ambulation  
Speaker: Russ Lundstrom



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## THURSDAY, 16 MAY 2024

15:15 – 16:15 SYMPOSIUM

**Assistive Health Technologies for Therapists and People with Physical Limitations**

Chair: Christian Sturm, Dr. Christoph Korallus

- **Robotic Support in Occupational Therapy of the Upper Extremity – an Overview**  
Speaker: Matthias Hör
- **Neuromodulation Suit Reduces Spasticity, Activates Muscles**  
Speaker: Alexander Hardt
- **Technical Possibilities in the Home Environment**  
Speaker: Heike Clauss
- **Update: Modern Orthopaedic Treatment and Care for the Lower Extremity**  
Speaker: Prof. Dr. Malte Bellmann
- **Robotic Gait Systems: Do Lokomat and Co. Really Help?**  
Speaker: Alexis Brinkemper

Technology is becoming more and more important and the field of medicine is no exception. Experts discuss questions that affect us all: What quality improvements can be achieved through technology? How can technology make work easier for treatment providers? What tools can we use for the benefit of our patients without losing sight of human contact? What has been proven, what remains experimental? What options exist for people with physical impairments and what technical devices can make daily living easier? Is artificial intelligence an opportunity but also a risk? What are some realistic fields of application?

16:45 – 18:00 SYMPOSIUM



In Collaboration with VQSA

**Specific Requirements and Possibilities in Treating Children and Adolescents With Arm Prostheses**

Chair: Merkur Alimusaj (Dipl.-Ing. FH), Michael Schäfer

- **Prosthesis Indication According to Biomechanical and Cognitive Parameters in Children and Adolescents**  
Speaker: Wolfgang Gröpel

- **Detecting Motivational Barriers, Adjusting Treatment Goals**  
Speaker: Fabian Kastrup
- **FIRST – Experiences With a Novel Prosthetic Concept for the Initial Treatment of Children With Congenital Malformations**  
Speaker: Michael Schäfer
- **Passively Very Active – Task-Specific Device Solutions for Active Participation**  
Speaker: Boris Bertram
- **Children and Adolescents: Age-Appropriate Therapy Approaches to Training Prosthesis Use**  
Speaker: Prof. Dr. Robin Bekrater-Bodmann

Upper limb prosthetics for children and adolescents is a highly complex and sensitive field. A prosthesis needs to be functional while also promoting the child's self-confidence and social integration. Adaptability, mobility and fine motor skills are important aspects for a prosthesis. Participants will learn why a (myo)electric prosthesis is not always necessarily the right choice. Alternative medical devices and strengthening the child's own skills take centre stage in close cooperation between experts, parents and the child. Participants will learn how to work out decision criteria for the fitting and rehabilitation of these patients on the basis of case studies.

16:45 – 18:00 SYMPOSIUM



In Collaboration with VTO

**Shortage of Skilled Workers – Is International Training or Academisation the Solution?**

Chair: Prof. Dr. Frank Braatz

- **Presentation of the Erasmus/Deutscher Akademischer Austauschdienst (DAAD) Funding Project: "PROMOTE"**  
Speaker: Markus Müller
- **Courses and Master Technician Training in Austria**  
Speaker: Prof. Dr. Walter Strobl

THURSDAY, 16 MAY 2024

- History and Future of Sirindhorn School of Prosthetics and Orthotics (SSPO) in Bangkok  
Speaker: Prof. Dr. Gulapar Srisawasdi
- Presentation of the LokoAssist Research Programme  
Speaker: Prof. Dr. Sebastian Wolf
- Practice Educators Perceptions of Student Attributes and Experience of Supporting Prosthetics and Orthotics Students on Practice Placement  
Speaker: Laura Murray

Training opportunities in technical orthopaedics are a topic of great relevance for the entire industry today. They are also very diverse and somewhat different in every country around the world. Participants will find out what our neighbours are doing and which education and training models work particularly well. Is our model in Germany still up to date, or is there a need for improvements? These and other questions are subsequently discussed.

16:45 – 18:00 SYMPOSIUM 

In Collaboration with VKO

**Mutual Interaction Between Orthotic and Surgical Treatment Options for the Lower Extremity in Children With Underlying Neurological Diseases**

Chair: Dr. med. Michael Wachowsky, Prof. Dr. Thomas Wirth

- Possibilities and Limitations of Orthotic Care for Flexible and Semi-Flexible Neurogenic Foot Deformities  
Speaker: Pia Niesner
- Orthopaedic Operations to Create a Plantigrade and Resilient Foot in Case of Neurogenic Foot Deformities  
Speaker: Dr. med. Michael Wachowsky
- Influence on the Neurologically Determined Crouch Gait by Differently Attacking Orthosis Systems  
Speaker: Gerhard Biber
- Soft Tissue and Bone Surgery for Improving Neurogenic Crouch Gait  
Speaker: Dr. Richard Doepner

In staged therapy systems, deformities and functional limitations of varying severity can be treated using a multitude of orthoses as well as orthopaedic-surgical measures. The goal is to improve the shape – ideally a normalisation of the deformity and thus optimisation of function. Using the foot and crouch gait as examples, participants will learn about current orthotic and surgical measures and their mutual interactions, with the goal of obtaining the optimal functional result for the patient.

16:45 – 18:00 FREE PAPERS 

**Orthotics for Spinal and Head Deformities**

- Effectiveness of a 3D-Printed Cranial Orthosis and Parent's Satisfaction: A Post-Market Clinical Follow-Up Study Conducted on 452 Infants  
Speaker: Pauline Seniw
- Cranial Remoulding Orthoses for Infants – Objective Outcome and Presentation of a Therapy Matrix  
Speaker: Christian Grasl
- Effectiveness of Cranial Orthoses in Recovery of Plagio and Brachycephaly  
Speaker: Dr. Sara Marques
- Review of Studies on Application of Spinal Orthoses in Adults with Non-Operated Scoliosis  
Speaker: Dr. Babak Hassan Beygi
- Orthotic Treatment Impact of Two Variants of Modified Cheneau Design Braces on Curve Correction, Cardio-Respiratory Functions, and Postural Sway in AIS  
Speaker: Prof. Hasan Md Arif Raihan

## CONGRESS PROGRAMME

### FRIDAY, 17 MAY 2024

09:15–10:15 WORKSHOP



#### A Prosthesis That Stands and Walks? – Correct Identification of Lower Leg Prosthesis Alignment Errors

Chair: Alexandra Reim, Jan Lentjes

- Workshop Assembly of a Lower Leg Prosthesis  
Speaker: Jan Lentjes
- Presentation of Patients  
Speaker: Alexandra Reim

A lower leg prosthesis simply means adding a connector? As if! The statics of the lower leg prosthesis are dynamically influenced by not one but two joints in the lower limb. Often the prosthesis is adjusted based on experience (gut feeling). Participants will learn about the biomechanical relationships between the joints, including the torso. What is actually causing a pressure point? Does the end of the tibia need more room, or is the flexion position incorrect? A small degree of ML shifting is normal, isn't it? Two patients demonstrate how the most common alignment errors can be identified in the gait pattern.

09:15–10:15 WORKSHOP



In Collaboration with GOTS

#### Damage due to Excessive Strain While Running – Development, Diagnosis, Therapy and Prevention

Chair: Dr Casper Grim (PD), Thilo Hotfiel

- Runner's Knee  
Speaker: Prof. Dr. Martin Engelhardt
- Runner's Foot Stress Fractures – Development, Therapy, Prevention  
Speaker: Dr Casper Grim (PD)
- Achilles and Heel Pain in Runners  
Speaker: Thilo Hotfiel
- Turf Toe Injury and Sesamoiditis in Running  
Speaker: Dr. med. Christian Plaaß (PD)

Running is the most common recreational sport in Germany. The number of runners is said to be in the range of 10-17 million. The running technique, axis malpositions, unsuitable footwear and fatigue or pathological muscle changes can lead to damage due to excessive strain. Acute injuries are rare in the sport of running. On the other hand, consequences of improper strain are common, affecting the lower limbs in more than 80 % of cases. Participants will work through the leading problems experienced by runners (runner's knee, Achilles tendon and heel pain, stress fractures and problems with the first metatarsophalangeal joint) using practical examples and on the patient.

09:15–10:15 WORKSHOP



In Collaboration with FOT

#### Material Compounds, Compound Constructions, Connection Techniques, Adhesion Techniques – 2024 Update on Joining Procedures

Chair: Ingo Pfefferkorn (Dipl.-Ing. FH), Raphael Giese

- Joining of Fibre Composite Constructions  
Speaker: Marc Siebert
- Elastomers in Composites: What's Possible?  
N.N.
- Joining of Plastics  
Speaker: Juliane Troschitz (Dipl.-Ing.)

Combining materials is indispensable in orthopaedic treatment and care. It also constitutes a challenge since the material properties and ultimately the device fitting that is constructed must not be impaired. Participants will be familiarised with various established and novel joining techniques using a selection of materials and material combinations and a practical approach.



# BIV *Café*

Come by  
hall 3, booth  
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## Coffee and factual snacks in the BIV Café

Enjoy good coffee and get to know the experts of the German top association of orthopaedic technology who will give you short factual snacks on the hot topics in the industry.



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We look forward to welcoming you to the BIV Café.



## CONGRESS PROGRAMME

### FRIDAY, 17 MAY 2024

09:15 – 10:15 WORKSHOP **NEW**



#### Wie erkenne ich die Grenzen einer Versorgung mit konfektionierten Orthesen und ab wann geht nur noch Maßanfertigung?

Chair: Petra Menkel

- Vorgefertigte Orthopädie-Technik: Grenzen und Möglichkeiten  
Speaker: Stephan Schildhauer
- Fallbeispiel: Versorgung eines Patienten mit MS  
Speakers: Stephan Schildhauer, Annette Küntzel

Die komplexen Aufgaben lassen Mitarbeitenden von Sanitätshäusern kaum Zeit, sich in Versorgungsbereiche so tief einzuarbeiten, dass sie sämtliche Hilfsmittel aller Hersteller kennen und einsetzen können. Oft stehen sie vor Fragen wie: Was will mir der Arzt mit der Verordnung sagen? Passt die Diagnose überhaupt zum Hilfsmittel und das rezeptierte Hilfsmittel zum Patienten? Darf ich ein vorgefertigtes Hilfsmittel verändern? Wann wird eine Versorgung unwirtschaftlich? Sie lernen an Fallbeispielen, wann sie mit vorgefertigten Artikeln arbeiten können und ab wann sie die Kollegen aus der Werkstatt ins Boot holen sollten.

10:30 – 11:45 SYMPOSIUM



#### Ukraine – Treatment of War Victims and Training in Crisis Regions

- War-Related Amputations – my Experience From Ukraine  
Speaker: Rickard Bränemark
- Feasibility of Digitally Enabled Treatments in Ukraine  
N.N.
- Combat Surgery and Rehabilitation  
Speaker: Jason Souza
- Ukrainian Patients in Germany – Lessons Learned Medically and Organisationally  
Speaker: Prof. Dr. Benedikt Friemert

Providing fittings for war invalids has been an issue long before the war in Ukraine. Medical professionals

and prosthetists and orthotists are sometimes faced with new challenges. A holistic, multidisciplinary fitting process encompasses innovative technologies as well as proven medical practices. The goal is to effectively improve participation and the quality of life. Participants will learn about the experiences and challenges of medical professionals providing treatment in Ukraine, about organisational, logistical and medical aspects from the perspective of the German armed forces and about the approach in the US to the treatment and rehabilitation of war veterans.

10:30 – 12:00 SYMPOSIUM



In Collaboration with DGUV – Division Rehabilitation

#### Interface Problems and Rehabilitation Gaps Following Amputation

Chair: Prof. Dr. Bernhard Greitemann

- Early Rehabilitation in Hospital  
Speaker: Dr. Max Liebl
- Rehabilitation After Traumatic Amputation  
Speaker: Dr. Stefan Simmel
- Rehabilitation of Geriatric Patients After Amputation  
Speaker: Prof. Dr. Karsten Dreinhöfer
- Transition to Everyday Life, Where Is Participation Difficult?  
Speaker: Dr. med. Matthias Schmidt-Ohlemann
- Devices for Improving Participation: Where's the Problem?  
Speaker: Alf Reuter

Even though Germany's healthcare system is recognised as outstanding around the world, identifiable gaps in care do exist – especially for people with disabilities. The concept of participation does not appear to be strictly implemented yet. Participants will be familiarised with various prototypical problem areas and learn about possible solutions.

FRIDAY, 17 MAY 2024

10:30 – 11:45 SYMPOSIUM



In Collaboration with GOTS

### The Unstable Joint – Prevention and Therapeutic Options in Orthopaedic Technology Care

Chair: Prof. Dr. Martin Engelhardt, Victor Prof. Dr. Valderrabano

- Shoulder Joint Instability – Origins and Treatment  
Speaker: Prof. Dr. Pierre Hepp
- Elbow Joint Instability  
Speaker: Dr Casper Grim (PD)
- Knee Joint Instability  
Speaker: Prof. Dr. Martin Engelhardt
- Ligament Instability in the Ankle Joint  
Speaker: Prof. Dr. Victor Valderrabano
- Orthopaedic Treatment of Unstable Joints in Sport  
Speaker: Tino Sprekelmeyer

Epidemiology data tell us that about 40 % of the positive impact of sports is negated by accidents and damage due to excessive strain. Avoiding injuries and damage due to excessive strain is therefore a key objective in sports. An unstable joint increases the risk of subsequent injuries and frequently leads to long-term, severe joint damage. Participants learn how joint instability can be prevented using orthopaedic technology measures and how to appropriately identify and treat injuries that lead to instability.

10:30 – 11:45 SYMPOSIUM



In Collaboration with DGIHV

### Guaranteeing Patient Care and How Register Research Helps With That: An International Perspective

Chair: Merkur Alimusaj (Dipl.-Ing. FH), Dr. Urs Schneider

- Overview of Current Prosthetic Treatment in Germany  
Speaker: Olaf Gawron
- How Assessment Tools Help in Daily Care  
Speaker: Robert Gailey

- Evolution of the Limb Loss and Preservation Registry in the USA  
Speaker: Prof. Dr. Kenton Kaufman
- SwedeAMP – Learnings From the Country of Evidence  
Speaker: Bengt Söderberg
- On Developing a German Registry for Amputee Care  
Speaker: Julia Block (Dipl.-Ing. FH)

Current clinical pathways and future treatment innovations are underpinned by evidentiary basic data from clinical care. Participants will be familiarised with international initiatives that are establishing viable data collection structures. Approaches and synergies will be discussed in this context along with the surprises that are unavoidable in the course of implementation.

10:30 – 11:30 WORKSHOP **NEW**



In Collaboration with DGPL

### Lymphödem und Ulcera crurum – offene Beine und Wundrosen

Chair: Prof. Dr. Gerd R. Lulay

- Diagnose Lymphödem: Welche Verfahren werden in der Medizin eingesetzt? Was sind mögliche Differenzialdiagnosen?  
Speaker: Dr. Erika Mendoza
- Die Grundzüge der manuellen Lymphdrainage bei Lymphödemen – Vorstellung und Durchführung von physiotherapeutischen Maßnahmen am Patienten  
Speaker: Henry Schulze
- Wirkungsvolle und qualifizierte orthopädietechnische Kompressionsversorgung – Beratung und Behandlungsempfehlung, Ausmessen, Kompressionsdruck und -materialien, Zusatzprodukte, Tipps und Tricks  
Speakers: Stephan Klör, Petra Menkel

Das Sanitätshaus bietet eine spezialisierte Versorgung für Patienten mit Lymphödem und Ulcera crurum. Der Workshop vermittelt praxisnah medizinische Diagnoseverfahren und Grundlagen der lymphatischen Versorgung bei offenen Wunden. Anhand von Fall-

## CONGRESS PROGRAMME

### FRIDAY, 17 MAY 2024

beispielen erfahren Teilnehmer die speziellen Anforderungen von Lymphpatienten, inklusive physiotherapeutischer Maßnahmen und individueller Kompressionsversorgung. Sie erkennen Besonderheiten und entscheiden herstellerunabhängig über die Auswahl von Produkten und sinnvolle Zusätze. Facharzt, Therapeut und Kompressions-Experte teilen ihr Wissen. Betroffene berichten, schärfen den Blick für Details. Der Workshop bietet einen umfassenden Einblick in die Versorgung von Lymphödemen bei offenen Beinen – praxisnah, fundiert und sensibel.

**11:00 – 11:45** EXHIBITOR WORKSHOP



Formlabs GmbH

#### Vom Scan zur 3D-gedruckten Orthese: Die Digitalisierung der Orthopädietechnik

Speakers: Shiden Yohannes, Marlou de Jong

Die additive Fertigung bietet Sanitätshäusern und Herstellern von Orthopädietechnik eine Vielzahl von Vorteilen, welche die Effizienz und Flexibilität der Patientenversorgung erheblich steigern können. In diesem Workshop, präsentiert von Formlabs Healthcare, werden fortschrittliche Anwendungen der 3D-Druck-Technologie im medizinischen Bereich vorgestellt. Besonders im Fokus stehen personalisierte Einlagen, Orthesen, Prothesen und weitere Hilfsmittel. Die Veranstaltung bietet die Gelegenheit, Herausforderungen zu diskutieren, denen Unternehmen bei der Implementierung von 3D-Druck-Technologien gegenüberstehen. Darüber hinaus lernen Sie Strategien kennen, um additive Fertigung nahtlos in den Arbeitsablauf zu integrieren und wie 3D-Druck medizinischem Fachpersonal ermöglicht, individuell angepasste Medizinprodukte gemäß den Bedürfnissen der Patienten herzustellen.

**11:00 – 11:45** EXHIBITOR WORKSHOP



Ottobock SE & Co. KGaA

#### Evanto – a Novel Prosthetic Foot Concept: Benefits, Function and User Profile

Speaker: Allen Ingersol

**11:00 – 11:45** EXHIBITOR WORKSHOP

Kokochii – 3D soles GmbH

#### Probably the Thinnest Insole in the World

Speaker: Dr. Kerstin Lauer

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**11:00 – 11:45** EXHIBITOR WORKSHOP



Bauerfeind AG

#### Kunde, lass doch mal die Hosen runter! Einlagen meets Compression

Speakers: Nadine Fürup, Stefan Schlegel

Genaueres Hinsehen lohnt sich: Nicht selten hat ein Ödem-Patient auch Probleme mit den Füßen – oder es fällt auf, dass bei einem Patienten mit einem Einlagenrezept eine behandlungsbedürftige Ödem-Erkrankung vorliegt. Erkennbar wird beides erst bei genauer Begutachtung unter der Hose. Wie Sie den ganzheitlichen Blick für Ihre Patienten schulen, erfahren Sie in diesem Workshop.

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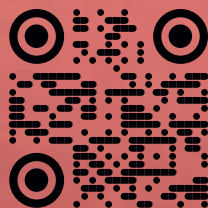
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## CONGRESS PROGRAMME

### FRIDAY, 17 MAY 2024

12:00–13:00 WORKSHOP



In Collaboration with DGIHV

#### Patientenerhebungen in der Orthopädie Technik und wie ich diese im Alltag ein- und umsetze

Chair: Merkur Alimusaj (Dipl.-Ing. FH), Olaf Gawron

- Assessments in der Technischen Orthopädie: Was kann ich am und mit dem Patienten erheben?  
Speaker: Urban Daub
- Amputationsregister (AMP Register) und die AMP-Kompass-App: Eine digitale Profilerhebung von Patienten mit Beinamputation  
Speaker: Julia Block (Dipl.-Ing. FH)
- Live-Demonstration einer strukturierten digitalen Patientenerhebung  
Speaker: Tobias Kuhn

Klinische Untersuchungen, Profilerhebungen und Assessments spielen eine zentrale Rolle bei der Hilfsmittelversorgung mit Prothesen und Orthesen. Durch diese Verfahren wird eine umfassende Bewertung der individuellen Bedürfnisse, Fähigkeiten und körperlichen Gegebenheiten des Patienten ermöglicht. Dies führt zu einer maßgeschneiderten Versorgung, die die Funktionalität und den Nutzen der Prothesen und Orthesen optimiert. Dieser Workshop soll den Teilnehmenden Hintergründe und inhaltliche Erläuterungen bieten, wie eine Zustandserhebung erfolgt und sich in den Alltag integrieren lässt.

12:00–13:00 WORKSHOP **NEW**



In Collaboration with DGPL

#### Primäres Lymphödem

Chair: Prof. Dr. Gerd R. Lulay

- Diagnose Lymphödem: Welche Verfahren werden in der Medizin eingesetzt? Was sind mögliche Differenzialdiagnosen?  
Speaker: Dr. Dr. René Hägerling

- Die Grundzüge der manuellen Lymphdrainage bei Lymphödemen – Vorstellung und Durchführung von physiotherapeutischen Maßnahmen am Patienten  
Speaker: Henry Schulze
- Wirkungsvolle und qualifizierte orthopädietechnische Kompressionsversorgung – Beratung und Behandlungsempfehlung, Ausmessen, Kompressionsdruck und -materialien, Zusatzprodukte, Tipps und Tricks  
Speakers: Stephan Klör, Petra Menkel

Das Sanitätshaus bietet eine umfassende Versorgung für Patienten mit primären Lymphödemen. Der Workshop vermittelt praxisnah medizinische Diagnoseverfahren und Grundlagen der lymphatischen Versorgung bei primären Lymphödemen. Anhand von Fallbeispielen erfahren Teilnehmer die speziellen Anforderungen von Lymphpatienten, inklusive physiotherapeutischer Maßnahmen und individueller Kompressionsversorgung. Sie erkennen Besonderheiten und entscheiden herstellerunabhängig über die Auswahl von Produkten und sinnvolle Zusätze. Facharzt, Therapeut und Kompressions-Experte teilen ihr Wissen. Betroffene berichten, schärfen den Blick für Details. Der Workshop bietet einen umfassenden Einblick in die Versorgung von primären Lymphödemen – praxisnah, fundiert und sensibel.

12:00–12:30 KEYNOTE



#### Back in the Air With One Leg

Speaker: Alexander Böhmer

No can do? – No such thing! If there is anyone who embodies this concept, it is Alexander Böhmer, 25, a flight attendant by profession. Cancer may have taken away his leg, but not his positive attitude to life and his desire to continue pursuing his dream job. Böhmer takes participants on a (plane) journey through his story and along his path back on board. One of his goals is to sensitise people to the importance of a patient's life situation and patient-specific care. He answers questions such as: What roles do doctors, technicians and therapists play? What challenges did he face with regard to health insurance, therapy and care?

FRIDAY, 17 MAY 2024

13:00 – 14:30 SYMPOSIUM



In Collaboration with Physio-Deutschland

### Physiotherapie in der Hilfsmittelversorgung am Bsp. der Prothetik und der Korsettversorgung

Chair: Prof. Dr. Michael Maiwald, Prof. Dr. Frank Braatz, Maike Truelsen

- Auswirkungen der Hilfsmittelversorgung auf das Gangbild – Daten aus dem Ganglabor  
Speaker: Sonia D'Souza (PhD)
- Prinzipien der Prothesenversorgung nach Amputation an der unteren Extremität  
Speaker: Merkur Alimusaj (Dipl.-Ing. FH)

- Physiotherapie nach Amputation und Prothesenversorgung an der unteren Extremität  
Speaker: Lisan Scheepers
- Prinzipien der Korsettversorgung  
Speaker: Dr. med. Omar Zabar
- Physiotherapie nach Korsettversorgung  
Speaker: Udo Roevenich
- Auswirkungen von Prothesen auf das Gangbild  
Speaker: Prof. Dr. Malte Bellmann

Physiotherapie ist in der Hilfsmittelversorgung ein entscheidender Teil im interdisziplinären Setting. Welche Möglichkeiten und Grenzen hat sie dabei und wie



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## CONGRESS PROGRAMME

### FRIDAY, 17 MAY 2024

sieht die Zukunft der Hilfsmittelversorgung aus? Welche Maßnahmen können eingesetzt werden, um Hilfsmittel anzupassen, mit diesen zu trainieren und eine bestmögliche Wiedereingliederung in das alltägliche Leben zu erreichen? Die Basis der erfolgreichen Behandlung ist die gute Kooperation der einzelnen Disziplinen. Am Beispiel der Prothesen- und Orthesenversorgung erhalten die Teilnehmenden Anregungen für das interdisziplinäre Vorgehen. Anerkennung durch die Deutsche Gesetzliche Unfallversicherung (DGUV).

Die Veranstaltung ist als Fortbildung Reha-Medizin/ Reha-Management im Sinne der Ziffer 5.12 der Anforderungen der gesetzlichen Unfallversicherungsträger nach § 34 SGB VII zur Beteiligung am Durchgangsarztverfahren anerkannt.

#### 13:15 – 14:30 SYMPOSIUM



In Collaboration with FOT

#### Materials Research

Chair: Dr. Matthias Priemel (PD), Ingo Pfefferkorn (Dipl.-Ing. FH)

- Digital Production and E-Textiles in Device Design  
Speaker: Adriana Cabrera
- Automated Series Processes for One Part? New Production Possibilities With Thermoplastic Fibre Composites  
Speaker: Alexander Liebsch (Dipl.-Ing.)
- Fibre-Reinforced Thermoplastics in Orthopaedic Technical Designs  
Speaker: Dr. Markus Brzeski
- Carbon Fibre Reinforced Plastic (CFRP): Material for Orthopaedic and Rehabilitation Technology  
Speaker: Marc Siebert
- Appropriate Ratio Selection for CMI Production From Coconut Fiber for Patients With Flatfeet  
Speaker: Dr. Muhammad Nouman

The range of materials in orthopaedic treatment and care has grown steadily. New possibilities have opened up in the fabrication of modern medical

devices through the intelligent and efficient use of existing and new materials. Participants will receive answers to material-specific questions such as these: What's new? What about ecological aspects or sustainability, for example?

#### 13:15 – 14:30 SYMPOSIUM

In Collaboration with ISPO international

#### Soft Tissue and Bone Surgery for Improving Neurogenic Crouch Gait

Chair: Claude Tardiff

#### 13:15 – 14:30 SYMPOSIUM

In Collaboration with Study Association OST e.V.

#### Sensorimotor Functions – Indications and Limits of Treatments

Chair: Prof. Dr. Bernhard Greitemann, Thomas Stief (Dipl.-Ing.)

- Status Quo – Current Treatment With Sensorimotor Foot Orthoses (SMFO)  
Speaker: Dr. Manuel König
- Indications and Limits of Sensorimotor Insoles  
Speaker: Prof. Dr. Bernhard Greitemann
- What Are the Requirements for a Standardised Sensorimotor Foot Orthosis (SMFO)  
Speaker: Thomas Stief (Dipl.-Ing.)

The sensorimotor foot orthosis has been in use by children and adults for more than 20 years. Participants will learn how existing fittings are carried out according to the current state of knowledge and today's training concepts, and why standardisation is useful for developing future training concepts in order to provide a successful fitting with sensorimotor foot orthoses (SMFO). They will also get to know the prerequisites for planning a fitting for a more differentiated indication and achieving the fitting objective.



FRIDAY, 17 MAY 2024

14:45 – 16:00 FREE PAPERS



### Lower Limb Prosthetics 2

- Within- and Between-Session Variability of Gait of Individuals With a Transfemoral Amputation  
Speaker: Dr. Erik Prinsen
- Prosthetic Users' Daily Activity: The Significance of Contextual Understanding  
Speaker: Vanessa Carvalho
- SenseBal Study Results – Is There a Connection Between Residual Limb Sensitivity and Functional Balance?  
Speaker: Daniel Heitzmann (Dipl.-Ing. FH)
- Assessment of the Reliability and Validity of the Falls Efficacy Scale-International in People With Lower Limb Amputation  
Speaker: Dr. Cleveland Barnett
- A New Knee-Ankle Prosthetic System: a Multicenter Randomized Cross-Over Trial to Assess Biomechanical Functions and Quality of Life  
Speaker: Clement Duraffourg
- Improving Quality of Life for Above Knee Amputees over 65 Years Old, After Fitting the Microprocessor Prosthetic Knees (MPK's) – a Review  
Speaker: Sandeep Uppal

14:45 – 16:00 FREE PAPERS



### Orthotics

- Strain on the Lower Back When Lifting Loads: Effect of an Exoskeleton and Different Lifting Strategies  
Speaker: Dr. Thomas Schmalz
- Clinical Evaluation of Functionality, Quality of Life and Pain After Fitting a Sensor-Controlled Orthosis After Brachial Plexus Lesions  
Speaker: Tugce Yildirim
- Test Engineering-Based Development of 3D Printable Orthoses  
Speaker: Prof. Dr.-Ing. David Hochmann

- Orthoses for Patients with Complex Weakness of the Lower Leg Muscles: Biomechanical Comparison of Different Concepts of the Academy of Osteopathy (AFO)  
Speaker: Dr. Thomas Schmalz
- Design and Application of a Custom-Made Carbon-Fiber Ankle Foot Orthosis for Sprinting and Long Jump  
Speaker: Francesca Gariboldi
- The Effect of a Custom-Made Thumb-Carpometacarpal Orthosis on Pain, Function and Grip in Females Versus Males With Basilar Arthritis  
Speaker: Zeinab Gasavinezhad

14:45 – 16:00 SYMPOSIUM



### Microprocessor Stance and Swing Phase Controlled Orthotics (MPSSCO): The Current State of the Evidence

- Microprocessor-Controlled Swing and Standing Orthosis: an Overview of the Evidence  
Speaker: Dr. Andreas Hahn
- Microprocessor Stance and Swing Control Orthosis Improves Walking in Knee-Ankle-Foot-Orthosis Users: Results of a Randomized Crossover Trial  
Speaker: Prof. Dr.-Ing. Rüdiger Rupp
- Use and Benefits of a Microprocessor-Controlled Orthotic Knee Joint for Patients With Neurologically Induced Knee Extensor Deficiency: A Case Report  
Speaker: Merkur Alimusaj (Dipl.-Ing. FH)
- To Participate or Not to Participate: That Is the Question  
Speaker: MD, PhD Bea Hemmen
- Use of Outcomes to Achieve the "Impossible" in the U.S. Healthcare System: Approval of Microprocessor Knees for Patients With Mobility Grade 2.  
Speaker: Dr. med. Andreas Kannenberg

Microprocessor-controlled stance and swing phase orthoses contribute significantly to improving the quality of life for patients with lower limb paralysis. This expe-

## CONGRESS PROGRAMME

### FRIDAY, 17 MAY 2024

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rience, which is known from everyday use, is strikingly confirmed by the latest clinical evidence. Participants will learn about significant, clinically relevant improvements in the risk of falling, number of falls, mobility and quality of life in an international multi-centre, randomised crossover study with a cohort of 108 patients.

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# OTWORLD 2024 – INTERNATIONAL TRADE SHOW

## ABOUT OTWORLD

OTWorld is the largest and leading international industry get-together for all manufacturers, dealers and service providers in the field of modern orthopaedic treatment and care. In a globally growing market, the event brings together the professionals providing products and services at the interface between people and technology. With its unique combination of world congress and world-leading trade show, OTWorld attracts experts and interested parties from all five continents every two years. As the most important platform for innovation and dialogue, it also sets the standards in the various treatment areas.

At the world's leading trade show, all major national and international companies presenting products and services in the field of technical orthopaedics will be exhibiting. This makes it the ideal platform to discover new products and innovations, expand your personal industry network and find business partners for the future.

## FOCUS TOPICS AND HIGHLIGHTS

Special shows and themed worlds ensure the event will be a valuable experience for everyone who attends. It provides an overview of the industry's newcomers, national and international training programmes and insights cutting-edge topics such as the e-prescription or 3D technology – there is something for everyone!



### OTWORLD.SHOE-TECHNOLOGY

OTWorld 2024 is the leading international get-together for orthopaedic footwear technicians. The OTWorld.shoe-technology area offers attendees a comprehensive overview and globally unique insights into related fields.



### OTWORLD.3D

Manufacturing using 3D printing is creating new possibilities and changing the industry. The most significant innovations will be on display in the special OTWorld.3D area.



### SPOTLIGHT ON STROKE CARE

In cooperation with the conceptual partners rehaVital Gesundheitservice GmbH and the German Stroke Aid Foundation, this spotlight demonstrates how conservative assistive technologies can improve the lives of patients and help them enhance their quality of life.



## REHABILITATION TECHNOLOGY

Mobility is the key: from wheelchairs and stairlifts to mobility aids. Find out all about the most important trends in individualised and optimal care for the severely disabled.



## OTWORLD.CAMPUS

Universities, universities of applied science and technical colleges from all over the world will be showcasing the latest programmes for further education and training without borders at OTWorld campus. Training programmes in prosthetics and orthotics will be presented in a relaxed atmosphere.



## OTWORLD.START-UPS

A breath of fresh air for the industry! Young, innovative companies show how developments and trends can change the future and which business ideas will influence the market.



## OTWORLD.FRIENDS

Numerous national and international associations and professional societies will be present in the OTWorld.friends area. The ideal place to gather information, network and make new contacts.



## OTWORLD.FIRST-TIMERS

New products, new topics and new faces – here in this joint area, first-time exhibitors will be presenting themselves. Welcome to the OTWorld family!



## YOUTH.ACADEMY TO

ON 16 AND 17 MAY 2024



Under the motto EDUCATION – EXCHANGE – CELEBRATE, participants can expect an extensive programme with numerous highlights including events by selected manufacturers, free admission to keynote and congress presentations, congress workshops, a party in the pocket park and much more.

## PARTNER COUNTRY FRANCE



### FRANCE IN FOCUS AT OTWORLD 2024 – BONJOUR ET BIENVENUE!

France has particular expertise in the development of modern treatments and the care of people with special needs. The country is considered one of the most important markets in the European healthcare sector. For years now, Franco-German cooperation has been regarded as an “innovation driver” in the industry.

OTWorld connects – with its international reach, OTWorld provides a perfect platform for France as its partner country. At the event, France can present its strengths, expertise and innovative power in the supply of orthopaedic treatment and care to a global audience and intensify cooperation with Germany and other countries across the world.



### Visitors can look forward to numerous highlights and a varied partner country programme:

- More than 25 French exhibitors, including leading industrial companies, small and medium-sized enterprises, start-ups, associations and other institutions, will present a wide range of innovations in orthopaedic treatment and care. By visiting individual stands as well as the large joint French pavilion organised and supervised by the German-French Chamber of Industry and Commerce, visitors can be inspired by new ideas and make interesting contacts.
- Selected content and highlights relating to the Paralympic and Olympic Games will offer a taste of the Games in Paris in the summer of 2024.
- French experts will provide insights into new treatment and care concepts. Special exhibitor workshops and congress content create a perfect environment for exchange and new perspectives on everyday care.
- Our French café in the centre of Hall 5 will invite you to linger and network.



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### ENJOY YOUR STAY IN LEIPZIG

Charming, cosmopolitan and a great experience. Anyone coming to OTWorld in this traditional trade fair city can look forward to a lively metropolis offering a wide variety of cultural and leisure activities. You can find a selection of cultural highlights in and around Leipzig at [english.leipzig.de](http://english.leipzig.de)





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**OTWorld**

14-17 May 2024 in Leipzig  
Hall 3

## SOCIAL EVENTS



### OTWORLD OPENING CEREMONY

Traditionally, the official opening ceremony takes place on the first day of OTWorld in Leipzig. Numerous well-known representatives of the industry from Germany and abroad will come together on **14 May 2024 at 4:45 p.m. in the Congress Center OTWorld in exhibition hall 3**. It is a festive ceremony to which visitors, exhibitors and speakers are once again cordially invited.

Don't miss out on this highlight and come to the opening ceremony at OTWorld 2024!

### OTWORLD PARTY

**Tuesday, 14 May 2024, from 6 p.m.**  
in the Glass Hall at Leipziger Messe

#### LA FÊTE DE L'OTWORLD

French specialities, good wine, music and "savoir vivre" – at the OTWorld party, exhibitors, customers, colleagues and friends can get together in a relaxed atmosphere.

You can order your party ticket in advance via our online ticket shop at [www.ot-world.com/tickets](http://www.ot-world.com/tickets)

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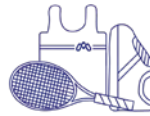
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A Module weighs between 30 g and 90 g.



### cost-efficient

The Cuff is available in 6 sizes. The system offers the option of on-site testing. This not only saves time, but also increases reliability in cost planning and customer satisfaction.



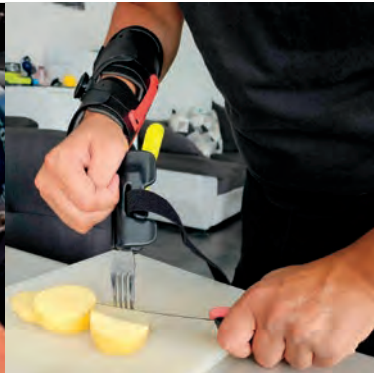
### modular

The adaptable Cuff design, force transmission to the forearm, easy handling and interchangeable Modules allow different user profiles and activities.



### customisable

The compatibility of the Link Modules can be achieved either by using the Link Cuff in a standard size or by integrating the Link Interface into the self-manufactured orthosis.





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