

#### WE ARE EXCITED TO ANNOUNCE A PACKED PROGRAMME WITH EXHIBITOR BOOTHS, WORKSHOPS, AND PRESENTATIONS WITH SPEAKERS APPEARING IN PERSON & VIRTUALLY FROM AROUND THE GLOBE!



Chris Miles Head of Clinical Services, AposHealth UK



Dr. Bob Eckles Medical Director Foot Science International



Sean McKale, CO, ATC Director of Clinical Education & Customer Support Becker Orhopedic



Brent Wright Co-Host The Prosthetics and Orthotics Podcast; Certified Clinician EastPoint Prosthetics & Orthotics, Inc.



Tamra Enbom Director and Clinical Orthotist Prosthetist Access Orthotics

Daily workshops

sponsored by:



Sean Tickner Team Lead/Clinical Orthotist Peke Waihanga



Hugh Sheridan Deliberate Consulting FZ LLC



Wendy Neilson Access Assessor, MNZM, Disability Advocate

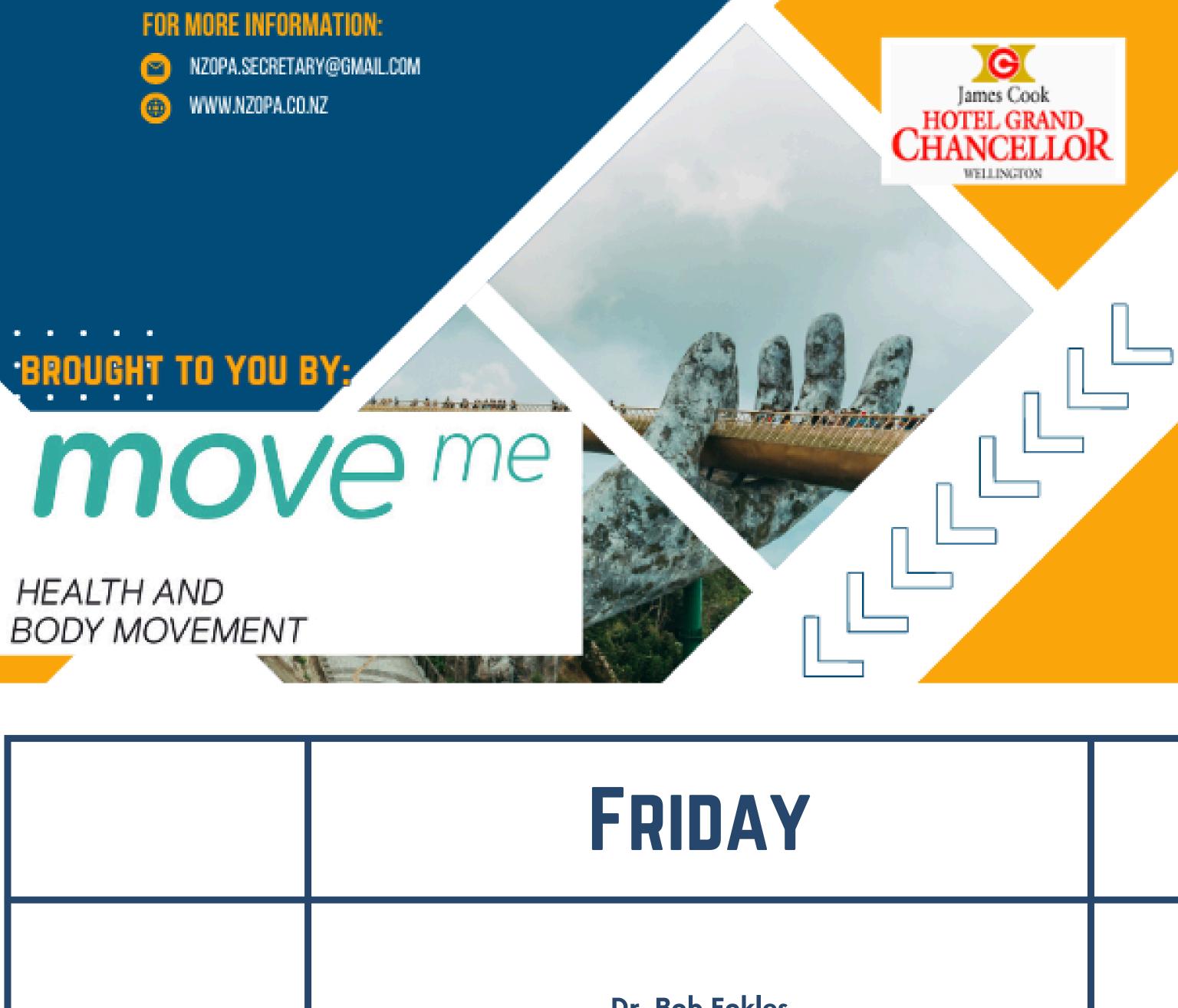












18:30

BRIDGING GAPS BUILDING CONNECTIONS

PERSPECTIVES
ON OEP CARE
6 - 8 SEPTEMBER 2024

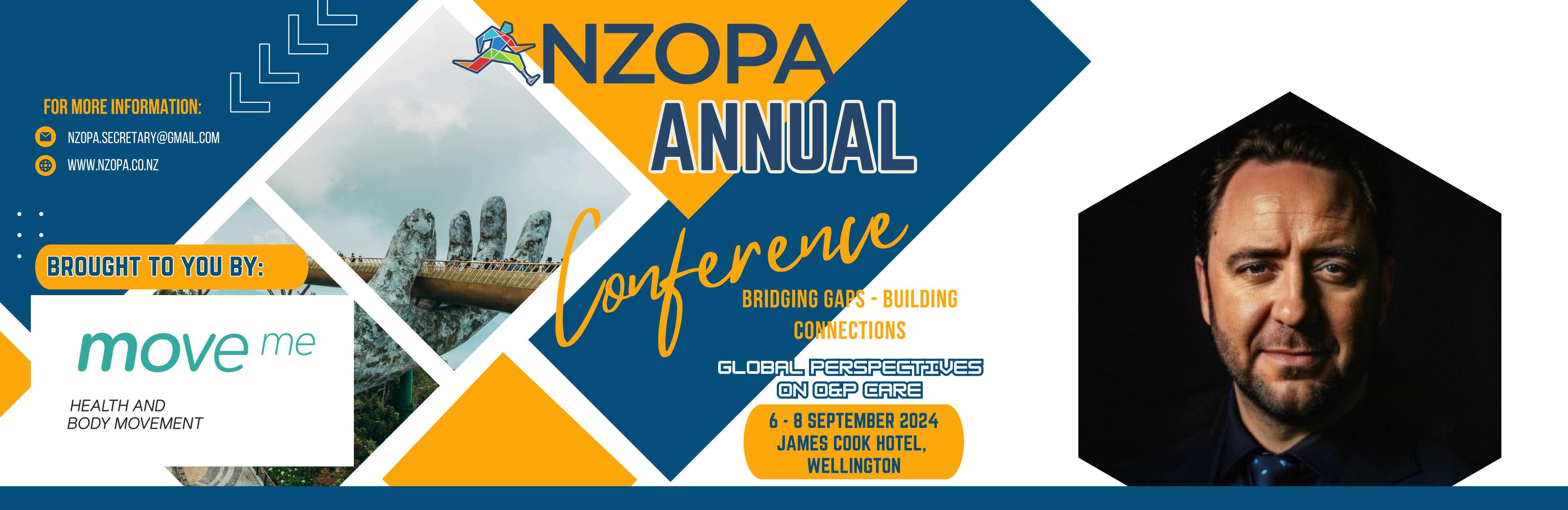
WELLTINGTON

NZOPA ANNUAL Merenwe

PROGRAME

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	FRIDAY	SATURDAY	SUNDAY	
8:30 - 9:45	Dr. Bob Eckles Medical Director, Foot Science International Total Knee Replacement (TKR) and Foot Posture	Chris Miles Head of Clinical Services, AposHealth UK Introducing Apos pods by AposHealth UK ~ appearing virtually ~	Sean McKale, CO, ATC Director of Clinical Education & Customer Support, Becker Orhopedic  Optimization of gait using Becker's Triple Action Ankle Joint.  ~ appearing virtually ~	
9:45 - 10:30	Sean Tickner Team Lead/Clinical Orthotist, Peke Waihanga  Digital workflow in orthotic services: Aotearoa New Zealand	MoveMe Sponsored Workshop  Thuasne OA Options Focus on Action reliever, Unireliever and Rebel Reliever  (mention of Spry KO and its 3 options)	Össur Sponsored Workshop New waterproof MPK solutions from Össur	
10:30 - 11:00	Morning Tea	Morning Tea	Morning Tea	
11:00 - 11:45	Tamra Enbom Director and Clinical Orthotist Prosthetist Access Orthotics Global trends of 3D Modelling and Printing in O&P	Brent Wright Co-Host The Prosthetics and Orthotics Podcast, Certified Clinician EastPoint Prosthetics & Orthotics, Inc.  MultiJet Fusion and Selective Laser Sintering - A Real Industrial Revolution  ~ appearing virtually ~	Ottobock Sponsored Workshop  Passion for Paralympics	
11:45 - 12:30	A Journey with Traditional and 3D printing with Evok3d and Massons	Massons Sponsored Workshop  Update on Prosthetic Liner Interfaces, Bionic knees and 3D  printed Technology	MoveMe Sponsored Workshop  SpryStep Technologies Focus on OTS AFO's New Product Launch in AFO category	
12:30 - 13:30	Lunch	Lunch	Lunch & Pack Up	
13:30 - 14:15	Ottobock Sponsored Workshop Innovations in Orthotic Joint Technology	Toomac Sponsored Workshop  To The World of Custom Made to Measure Features		
14:15 - 15:00	Toomac Sponsored Workshop  Made to Measure Lower Body Practical Workshop	Hugh Sheridan Global Perspective on O&P across the IMEA region ~ appearing virtually ~		
15:00 - 15:30	Afternoon Tea	Afternoon Tea		
15:30 - 16:15	Össur Sponsored Workshop  Microprocessor Controlled Orthotic Ankle Componentry	Tamra Enbom Director and Clinical Orthotist Prosthetist Access Orthotics  Tutorial in Prescription to Design in Oqton Freeform (Geomagic)		
16:15 - 17:00	Wendy Neilson Access Assessor, MNZM, Disability Advocate  My journey with Disability Services & Advocating for Attitude Change.	NZOPA Exec Planning Chat  A time for members to sit down with the Exec Team to talk about what you'd like to see from your Association.		
17:30		AGM		
18:00	Welcome Nibbles			

**NZOPA Conference Dinner** 



# Sean McKale, CO, ATC Director of Clinical Education & Customer Support, Becker Orthopedic

# Optimization of gait using Becker's Triple Action Ankle Joint.

Becker's Multifunctional Triple Ation Ankle joint can be used to optimize a patient's gait through alignment and resistance settings. In this course learn the systematic approach for making these adjustments and see understand the clinical impact this may have on your patient's kinematics during gait.

Sean McKale, CO, ATC is the director of education and customer support for Becker Orthopedic. He has over 20 years of clinical experience in the field of Orthotics, ranging from acute care, pediatrics, spinal cord injury, and many other neurological conditions. He has served on the Charcot-Marie-Tooth Association as an advisory board member and been an invited speaker at the Spina Bifida Association physician and family conference. He has also presented at numerous O&P conferences on various topics, however, is primarily focused on lower extremity orthotic management.



# Dr. Bob Eckles Medical Director, Foot Science International Total Knee Replacement (TKR) and Foot Posture

- What is the current epidemiology of knee OA and TKR?
- How is foot posture related to knee OA?
- Is the opposite also true, e.g., does knee OA cause pes valgus?
- What are the effects of pes valgus on the success of TKR?
- And again, is the opposite also true, e.g., can TKR improve foot posture?
- Where and how may clinicians intervene?
- Is there reason to exercise caution when dealing with these patients?

Dr Eckles was Associate Dean and the Director of the 3-year post-graduate Foot and Ankle Surgery Residency Program at the New York College of Podiatric Medicine. He joined the faculty in 2003 and was there until 2021 when he and his wife moved to New Zealand, having previously lived and worked in New Zealand.

Dr. Eckles first trained as a podiatrist at the California College of Podiatric Medicine in 1983, having already completed a BA and a Masters in Public Health. He was a board member of the American Board of Podiatric Medicine, and a Certified Wound Care Specialist (CWS) for the American Academy of Wound Management. He was also chair of the Podiatrists Board for the New York State Department of Education from 2013-2019. He is currently an Adjunct Professor in the Department of Orthopedic Sciences at New York College of Podiatric Medicine and has been the Medical Director at Foot Science International, since 2021.



# Chris Miles Head of Clinical Services AposHealth UK

## Introducing Apos pods by AposHealth UK

Apos is an innovative solution to help the body help itself relieve chronic knee, hip, or back pain effortlessly while wearing just 1 hour a day in the comfort of one's home.

Apos® works on biomechanical and neuromuscular levels. Using a patented, foot-worn device as part of a daily treatment programme, Apos® is designed to address the underlying causes of pain by temporarily shifting pressure from affected areas.

The neuromuscular re-education of the muscles results in a healthier walking pattern, even when not actively wearing the device.

The pods' convexity creates micro-instability that increases proprioception and re-educates neuromuscular pathways. Custom positioning changes the patient's biomechanics, improves their gait, and directs forces away from unhealthy joint compartments.

Chris Miles has a diverse professional background, holds a BSc in Physiotherapy from the University of East London and an MSc in Biomechanics, University of Roehampton. He now specialises in chronic MSK condistions. Chris has published articles around OA and biomechanical interventions



# Tamra Enbom Director and Clinical Orthotist Prosthetist Access Orthotics

#### Global trends of 3D Modelling and Printing in O&P

O&P 3D workflow options have changed over the past 2yrs and will keep changing. There are a lot more commercial options promoting cheaper, easier, faster to learn and use. How do you choose? I will provide guidance from a clinician's perspective and highlight global trends in 3D modelling and printing that I feel show promise for improving our patient care.

# Tutorial in Prescription to Design in Oqton Freeform (Geomagic)

Improved design and patient care is at the core of my decisions and digital workflow. I will share how we create our patient's prescriptions completely in Freeform, the tools we use and the dynabots we have created. I will apply these features to a few specific patient cases to demonstrate how we as clinicians can stay the makers in a digital landscape.

Tamra is a prosthetist/orthotist lead Clinician and Director at Access Orthotics, NSW Australia. She graduated from the National Center for Prosthetics and Orthotics as La Trobe University, Australia in 1998. Tamra has worked in both prosthetic and orthotic fields, within private and public facilities across Australia (VIC, QLD, SA & NSW). Her heart is for Country. Lived and worked rural and remote for 15yrs, providing mobile care to communities of the Eyre Peninsular and Flinders Rangers.

After 20yrs of hand carving and making, Tamra has now transitioned into full digital workflow of 3D scanning, modelling, and printing. Founder and Lead Clinician at Access Orthotics. State of the art clinical facility, linking vector gait plate and measurable outcomes back into 3D design and printing.

Tamra is a strong advocate for continual professional advancements and open collaboration. Over the past 10yrs she has presented and hosted panels at the Australian Orthotic and Prosthetic Association Congresses, attended international ISPO conferences, OT World and Design Symposiums. Since 2014 she has supported undergraduate education with lecture presentations for O&P (LaTrobe, UniSC) and BioMedical Engineer (UOW). Access Orthotics also hosts student Honor and Thesis projects and employs BioMedical Eng. interns for industry experience. Her business and professional focus is on excellence in evidence-based patient-centered care.



## Co-Host The Prosthetics & Orthotics Podcast Certified Clinician EastPoint Prosthetics & Orthotics, Inc. Partner & Designer at Advanced 3D

## <u>MultiJet Fusion and Selective Laser Sintering -</u> A Real Industrial Revolution

W Brent Wright, CP, BOCO, is a Partner and Designer at Advanced 3D, and a clinician for patients on the ground at Eastpoint Prosthetics and Orthotics in Raleigh, NC. Brent began his career in prosthetics and orthotics as a technician at the age of 16. He has watched the tide turn toward additive technology in prosthetics and orthotics both locally in the USA and internationally. While he has a background with Fused Deposition Modeling (FDM), Brent has been utilizing new methods using MultiJet Fusion and Selective Laser Sintering lately, looking to create prostheses that are not only functional but light and flexible. He is playing an essential role in what he lovingly calls 'a real industrial revolution', especially as more focus is given to improving patient outcomes by designing personapersonalized, patient-specific solutions. He is passionate about his life's work and the ways it is improving patient outcomes around the world.



# Sean Tickner Team Lead/Clinical Orthotist, Peke Waihanga

#### <u>Digital workflow in orthotic services: Aotearoa New Zealand</u>

#### Background:

Orthotic devices play a crucial role in enhancing mobility and quality of life for individuals with musculoskeletal conditions. Traditionally, the fabrication of orthoses has been a manual, labour- intensive process - the emergence of digital technology has revolutionized design, prodution, and clinical implementation.

#### Objective:

This presentation aims to explore the impact of digital workflows in orthotic practice, orthotic design, fabrication, and patient care within the unique cultural context of Aotearoa New Zealand. We delve into the benefits, challenges, and opportunities associated with transitioning from conventional methods to digital approaches.

#### **Key Points:**

- Digital Workflow: We discuss how digital workflows streamline the entire orthotic process, from assessment and design to fabrication and fitting.
- 3D Printing: We highlight the role of add itive manufacturing in creating customized orthotic devices. 3D printing allows for intricate designs, patient-specific adaptations, and rapid prototyping.
- Clinical Implementation: We explore challenges faced during the transition to digital workflows, including training, cost considerations, and integration into existing practices.
- Patient-Centric Approach: Digital workflows empower practitioners to tailor orthoses to individual needs, improving patient outcomes and satisfaction.

#### Conclusion:

Embracing digital workflows in orthotics holds immense promise. By leveraging technology, we can enhance precision, efficiency, and accessibility in orthotic care. This presentation encourages practitioners to explore the digital frontier and contribute to advancing orthotic practice here in Aotearoa New Zealand. To strive for world-class orthotic care, ensuring that all individuals receive personalized, effective, and culturally sensitive solutions. References available on request.

I completed my studies in orthotics and prosthetics at the Department of Sport, Rehabilitation and Dental Sciences at the Pretoria Technikon, South Africa and qualified in 2003. Completing my internship at an accredited centre in Durban, I continued working in this field for six years before moving to Cape Town to further my career for nearly 10 years and becoming a partner at a thriving private P&O practice. I then moved to New Zealand and am now happily part of the Peke WaihangaOrthotic Service team here in Tauranga.



# Access Assessor, MNZM, Disability Advocate

## My journey with Disability Services & Advocating for Attitude Change.

I was born with the disability Arthrogryposis Multiplex Congenita. I have had many corrective operations that have made a considerable improvement to my mobility. I am unable to buy footwear that will fit my feet so all my shoes and boots are made by Orthotics. My shoes and boots are very important and highly valued by me for my independence and mobility.

I have been very active in disability issues, attitude change and advocacy at a national and local level for many years. This includes the New Zealand Arthrogryposis Multiplex Congenita Group (TAGNZ) a Charitable Trust that has been meeting regularly for over 30 years

I have a life time of advocacy in the disability sector. I am a trained teacher and have taught at primary, secondary, polytechnic and university levels. I have also worked for ACC, Dept of Social Welfare and the Hillary Commission where I was the Inaugural Programme Manager advocating for the importance of those with disability to be involved in sport and recreation. For many years I was on the Workbridge Council and Disabled Persons Assembly including time as Chair of both.

I am an Access Assessor and have worked as a consultant to Tauranga City Council (TCC) and other organisations advising them on NZ Building Code access requirements. I have run Disability Awareness workshops over many years. I was a Government appointed lay member of the Podiatrist Board for about 5 years. I have been a Justice of the Peace for 28 years. In the 2009 New Year Honours I was awarded the MNZM for service to the disability sector.

In retirement I volunteer on a number of Community Boards including Citizens Advice Bureau, WBOP Disability Support Trust, the Arthrogryposis Multiplex Congenita Board (TAGNZ) and a member of TCCs Positive Aging Advisory Forum. I have also been a member of the TCC's Disability Advisory Group. I have two adult children. My son (an art teacher) and daughter (a policewoman) both have children in their late teens and early 20s.



Hugh Sheridan

Deliberate Consulting FZ LLC

## Global Perspective on O&P across the IMEA region

Our mission at Deliberate is to de-risk growth for startups and businesses within the Digital Health, Foot Health, Orthotics & Prosthetics & Rehabilitation Sectors across IMEA

We are based in UAE and Saudi Arabia with a strong focus on the fastest growing healthcare market in the world - IMEA - India, Middle East and

Africa.

A hugely experienced innovative leader within the global Med-Tech industry and specifically the verticals of Digital Health, Orthotic & Prosthetics, Orthopedic, Rehabilitation, Diabetes & Medical Device 3D Printing.

Hugh leads a team of specialists in Strategy, Branding, Commercializing Products, Establishing Global G2M, Building Global Sales & Marketing Teams,

#### Previous projects:

- Built Rehabilitation focused Medical Device Manufacturer from \$3m to \$20m revenue over 4 years
- Built 3d printing startup US focused sales pipeline of \$25m within 6 months of market entry
- Generated \$10m revenue with 65% GM within 3 years hiring a team of 5 sales leaders for the Middle East Rehabilitation market
- As CEO grew a team of over 100 rehabilitation experts by 50% across 5 subsidiaries, Joint ventures and sales offices



### <u>Microprocessor Controlled Orthotic Ankle</u> <u>Componentry</u>

#### Tim Amor (Orthotist- BHS/MCPO, cOP-AOPA) -BDM Neuro Orthotics-Ossur Australia

Introducing the world's first microprocessor controlled orthotic ankle component. The NeuroSwing R+ by Fior & Gentz represents a significant advancement in ankle-foot orthosis (AFO) technology, providing enhanced options, mobility and stability for individuals with gait impairments. By incorporating advanced sensors and adaptive mechanisms, the NeuroSwing R+ user can adapt their AFO alignment handsfree to different heel heights, sloping terrain and stairs- addressing some of the common challenges faced by AFO users

This dynamic adjustment allows for a more natural gait, reducing the risk of trips and falls and strain on other joint segments. The device's ability to seamlessly adapt to varying conditions enables users to walk with greater confidence and less effort, promoting greater independence and quality of life. This presentation outlines the key features, mechanisms of action, and clinical benefits of the NeuroSwing R+, highlighting its potential to transform the standard of care for individuals requiring orthotic support.

#### New waterproof MPK solutions from Össur

#### Sarah Mulroy-Lang & Wolfgang Uken

Össur are excited to reveal a new, exciting waterproof MPK, removing barriers for users wanting to swim in the ocean or pool, living life without limitations.

The new MPK features improved consistency and predictability on stairs and ramps, and expanded functional training to empower the user to get the most out of their prosthesis.

Attend this workshop to find out more about this new technology, alongside other exciting reveals...





# Made to Measure Lower Body Practical Workshop

Join us for this workshop as we explore step-by-step techniques for measuring custom-made Juzo compression garments for the treatment of Lymphoedema, Venous insufficiencies, Lipoedema, Scars and more. You will learn how to accurately measure for several lower body garment styles.

Presented by Rebecca and Susan of Toomac Solutions

## To The World of Custom Made to Measure Features

As we strive to improve clinical outcomes and encourage patient compliance, we will delve deeper into the diverse range of additional features of custom-made garments. These enhancements not only optimize treatment efficacy but also enhance patient comfort.

Presented by Rebecca and Susan of Toomac Solutions





#### <u>Innovations in Orthotic Joint Technology</u>

Join us at the NZOPA conference, where Ottobock will present on a significant publication of the largest kafo study in history and the first-ever international, multicentre, randomized cross over orthotics study. We will also unveil the latest updates to the C-Brace.

#### Passion for Paralympics

With the NZOPA conference falling over the 2024 Paris Paralympics, Ottobock are excited to bring you an inside look at the event.

#### Topics Covered:

- We will provide an overview of Ottobock's long standing partnership with the Paralympics
- Our Australian colleagues Adam & Amy will provide an exclusive tour of our onsite facility at the Olympic village
- What are they wearing? We will give insight into highlighted components used by our top athletes across the Prosthetic and Neuromobility sectors
- An introduction to our top Ottobock athletes from around the world and an exclusive look at some of our NZ athletes to catch on the field
- An opportunity to win yourself some exclusive Paralympic merchandise



### A Journey with Traditional and 3D printing with Evok3d and Massons

### <u>Update on Prosthetic Liner Interfaces, Bionic knees</u> <u>and 3D printed Technology</u>

Massons Healthcare in a family owned company headquartered in Melbourne Australia. Massons distributes a range of prosthetic and orthotic products, including WillowWood, Reboocon Bionics and Invent Medical in Australia, New Zealand Singapore and other surrounding countries. Massons Healthcare also supports industry providing CFAB including

3D printing, 3D design services and education services.

The WillowWood Alpha Liner was the first fabric covered gel interface, introduced in 1996, and today Alpha Liners include multiple interface materials, providing the latest in comfort and liner technology. The Intuy Knee, by Reboocon Bionics, is an intuitive motorized knee for transfemoral amputees that provides active propulsion, including stair and slopes climbing. Invent Medical is a global leader in 3D printed Orthotic and Prosthetic products, providing a new generation of orthotic and prosthetic products and efficient processes making technology accessible to improve patient comfort and outcomes.



#### Thuasne OA Options

Focus on Action reliever, Unireliever and Rebel Reliever (mention of Spry KO and its 3 options)

Presented by: Sean Adam - Thuasne.

### SpryStep Technologies

Focus on OTS AFO's New Product Launch in AFO category

Presented by: Sean Adam - Thuasne.