2018 UCSF ORTHOTIC AND PROSTHETIC INNOVATIVE TECHNOLOGIES CONFERENCE

CONFERENCE CHAIR

Matthew Garibaldi, MS, CPO Associate Clinical Professor University of California, San Francisco

ASSOCIATE CHAIR

Chrysta Irolla, MS, MSPO, CPO
Clinical Manager
UCSF Mission Bay Hospital/Gateway Medical Center

Presented by the UCSF Department of Orthopaedic Surgery, Division of Orthotics and Prosthetics, this conference aims to foster emerging technologies that can advance patient care and have a transformative impact on the field of orthotics and prosthetics.

Conference Aims: Educate, Stimulate, Unite

Friday, May 11, 2018 7:30-8:00 **Registration and Continental Breakfast Opening Remarks and Introduction** Matthew Garibaldi, MS, CPO 8:00-8:15 University of California, San Francisco INNOVATIVE CARE MODELS 8:15 - 8:45LimbForge: A Scalable System for Person-Andreas Bastian, Engineer **Centered Prosthetics** Autodesk/LimbForge **Ability Prosthetics and Orthotics: A Patient Centric** Eric Shoemaker, MS, CPO 8:45 - 9:15Care Model Ability Prosthetic & Orthotic 9:15 - 9:45The Role of Athletic Trainers in Clinical Practice Tim Baldwin, MA, ATC, CFo University of California, San Francisco The Role of Money in Orthotics and Prosthetics Sean Zeller, MBA, MSPO, CPO 9:45 - 10:15University of Rochester 10:15 - 10:45 **Panel Discussion**

KEY NOTE ADDRESS

11:15 – Noon The Renaissance in Prosthetics & Orthotics

Sir Saeed Zahedi, PhD, OBE, RDI, FRAEng

Chas A Blatchford & Son

Noon – 1:00 Lunch

3D PRINTING IN O&P		
1:00 – 1:30	Printing Prostheses and Assistive Devices	Evan Kuester, Designer 3D Systems
1:30 - 2:00	The Digital Practice: 2018 & Beyond	Jeff Huber, Co-Founder, CEO Standard Cyborg
2:00 – 2:30	Development of an Affordable, Multifunctional, Upper-Limb Prosthesis with 3D Printing and Scanning Technologies	Nikolai Dechev, PhD, PEng University of Victoria
2:30 – 2:55	Panel Discussion	

2:55 – 3:25 Afternoon Session with Exhibitors / Break

ADVANCEMENTS IN UPPER EXTREMITY PROSTHESES		
3:25 – 3:50	Why the FDA Interest in Patient Preference?: Weighing Risks and Benefits of Prosthetics	Leslie Wilson, PhD University of California, San Francisco
3:50 – 4:15	Upper Limb Prosthetic Research at Liberating Technologies / College Park: Control, Mechanisms, Sensors, and Training	Todd Farrell, PhD Liberating Technologies / College Park
4:15 – 4:40	Finger-by-Finger Control of Prosthetic Hands Using Ultrasound Sensing	Gil Weinberg, PhD Georgia Institute of Technology
4:40 – 4:55	Panel Discussion	
4:55 – 5:00	Closing Remarks	Matthew Garibaldi, MS, CPO <i>University of California, San Francisco</i>

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Saturday, May 12, 2018

7:30-8:00	Registration and Continental Breakfast	
8:00-8:15	Conference Remarks	Matthew Garibaldi, MS, CPO University of California, San Francisco

EXOSKELETON DESIGN		
8:15 – 8:45	Does Powered Assistance Improve Gait in Children with Cerebral Palsy?	Zachary Lerner, PhD Northern Arizona University
8:45 – 9:15	Human-in-the-Loop Optimization of Powered Orthosis Design	Steven H. Collins, PhD Stanford University
9:15 – 9:45	Powerful and Affordable Exoskeletons	Tim Swift, PhD, Co-Founder, CEO Roam Robotics
9:45 – 10:15	Soft Robotic Exosuits for Gait-Restorative Assistance and Rehabilitation After Stroke	Lou Awad, PT, DPT, PhD Boston University / Harvard University Spaulding Rehabilitation Hospital
10:15 – 10:40	Panel Discussion	

10:40-11:10 Morning Session with Exhibitors / Break

AOPA UPDATE		
11:10 – 11:40	AOPA Initiatives: On the Horizon and Beyond	Ashlie White, MA American Orthotic and Prosthetic Assoc.

11:40 - 12:40 Lunch

NEURAL FEEDBACK AND INSTRUMENTATION		
12:40 – 1:05	Dynamic Scoliosis Bracing	Sigurd Berven, MD University of California, San Francisco Jamie Haggard, CEO Green Sun Medical
1:05 – 1:30	Walking Performance in Persons With Transtibial Amputation Using a Powered Prosthesis with Typical Clinical Tuning	Jeff Wensman, CPO University of Michigan
1:30 – 1:55	Perceptual Integration of Illusory Kinesthetic Sensation in Bionic Prosthetic Hands	Jonathon Schofield, MSc, PhD Courtney Shell, MS, PhD Cleveland Clinic
1:55 – 2:20	Enhancing Biomechanics of Prosthetic Walking with the Powered Transfemoral Prosthesis	Pilwon, Hur, PhD Texas A & M University
2:20 – 2:45	Panel Discussion	

2:45 – 3:15 Afternoon Session with Exhibitors / Break

OSSEOINTEGRATION CLINICAL TRIAL AT UCSF		
3:15 – 3:40	Osseointegration Surgical Techniques and Preliminary Research Findings at UCSF	Rosanna Wustrack, MD University of California, San Francisco
3:40 - 4:05	Rehab Considerations for the OPRA Implant System	Rami Weinberg, PT, DPT, OCS, CSCS University of California, San Francisco
4:05 – 4:30	Transfemoral Percutaneous Osseointegration OPRA Implant System – Prosthetic Considerations	Matthew Garibaldi, MS, CPO University of California, San Francisco
4:30 – 4:55	Panel Discussion	
4:55 – 5:00	Closing Remarks	Matthew Garibaldi, MS, CPO University of California, San Francisco