

RehabWeek 2025 - Workshop Program - May 12, 2025

Hall Name	OHIO	MISSISSIPPI	ERIE	SUPERIOR A	ARKANSAS	SUPERIOR B	MICHIGAN B	COLORADO	MICHIGAN A	MISSOURI	EXHIBITION SPACE
08:15 - 09:45	<p>W01 From Signals to Solutions: EMG Applications in Neurorehabilitation</p> <p>Organizer: Jose Lopez Sanchez Speakers: Jose Lopez Sanchez, Cristina Vazquez Gonzalez, Daniel Jimenez Masa</p>	<p>W02 Robotic Therapy in Neurorehabilitation: Integrating Technology into Multidisciplinary Care</p> <p>Organizer: Sofia Straudi Speakers: Sofia Straudi, Giovanni Morone, Mariana Capecci, Federica Bressi, Maria Luisa Gandolfi</p>	<p>W03 Predictive Systems and Algorithms in Robot-Assisted Rehabilitation: Latest Developments and Challenges</p> <p>Organizer: Cristian Camardella Speakers: Cristian Camardella, Stefano Mazzoleni, Robert Rienen, Olivier Lamberty, Michelle Johnson, James Patton, Tetsuyou Watanabe, Robert Rienen</p>	<p>W04 Incorporating Lived Experience in Rehabilitation Engineering Research</p> <p>Organizer: James Samuel Sulzer Speakers: Rory Cooper, Mark Waschak, Ian Burkhardt, Maureen Linden, Melissa Miller, James Sulzer, Tracy Wheeler, James Samuel Sulzer</p>	<p>W05 Is Open-Source Hardware the Road Forward for Upper Extremity Rehab and Neuroscience?</p> <p>Organizer: Jeremy Delaine Speakers: Ashish Deshpande, Aaron Young, John Krakauer</p>	<p>W06 Leveraging Rehabilitation 4.0: Integrating Advanced Technologies for Personalised Patient Care</p> <p>Organizer: Zen KOH Speakers: Zen Koh, Denny Oetomo, Robert Rienen, Jose Pons</p>	<p>W07 Fesla Grasp: Revolutionizing Hand Rehabilitation with Innovative FES Technology</p> <p>Organizer: Aitor Martin Speakers: Aitor Martin, Odriozola</p>	<p>W08 Reimagining Mobility: Co-Design Approach to Service Delivery for Wheelchairs</p> <p>Organizer: Kahmin Ong Speakers: Kahmin Ong, Carmen DiGiovine</p>	<p>W09 Mentorship and Empowerment: Bridging the Gender Gap in Rehabilitation Research, Engineering, and Practice</p> <p>Organizer: Sangeetha Madhavan Speakers: Sangeetha Madhavan, Martina Spiess, Megan O'Brien, Ana Luisa Trejos</p>	<p>W10 OpenCap and AddBiomechanics: Tools for Large-Scale Biomechanics Studies</p> <p>Organizer: Matthew Petrucci Speakers: Nicholas Bianco, Carmichael Ong</p>	
09:45 - 10:30	Coffee Break										
10:30 - 12:00	<p>W11 Innovative approaches to assessing, intervening and implementing in rehabilitation: Integrating digital tools and gamified solutions to promote physical activity in older adults</p> <p>Organizer: Kim Daniels Speakers: Bruno Bonnehère</p>	<p>W12 Enhancing Sensorimotor Recovery through Robot-assisted Somatosensory Retraining: Perspectives, Challenges, and Opportunities</p> <p>Organizer: Quentin Sanders Speakers: Roger Gassert, David Reinkensmeyer, Jennifer Semrau, Sean Dukelow, Laura Marchal-Crespo, Jurgen Konczak, Nalin Seo</p>	<p>W13 Navigating the Challenges of Implementation and Integration of Rehabilitation Technologies in Publicly Funded Healthcare Services</p> <p>Organizer: Vicky Booth Speakers: Vicky Booth, Loureiro, Rui; NRC/UCL/Logan, Pip; UQ/MHN, Sagar, Sudhina, AIMS, Lakshmi, Sangeer, Central Armed Police Forces Institute of Medical Sciences, Clark, Dar; NIHR RehabHRC</p>	<p>W14 Involving Users to Increase Impact of Wearable Robots: Welcome to our World Café!</p> <p>Organizer: Gerdienke Prange Speakers: Erik Prinsen, Annika Rydgård, Stephanie Jansen-Kosterink, Gerdienke Prange</p>	<p>W15 Control Meets Visual Feedback: New Paradigms for a Better Rehabilitation Experience in Wearable Robotics</p> <p>Organizer: Bodo Giulia, Giannattasio Raffaele, Ceroni Indya, Quadrelli Debora, Lucaroni Andrea and Laffranchi Matteo</p>	<p>W17 Restorative Therapies - Empowering Recovery: Advanced Integrated FES and Neuromodulation with RT300 and Xcite2</p> <p>Organizer: April K. Luby Speakers: Gabriella Stiefbold, Jessie Huschart, Crystal Harvey, Laurie Magerfleisch, Stephanie Huber, Colleen Connaughton</p>	<p>W18 Enhancing Mobility Skills Through Simulators: Innovations in Driving and Wheelchair Rehabilitation</p> <p>Organizer: Naomi Gefen Speakers: Patrice Weiss, Philippe Archambault, Felix Chénier, Isabelle Gelinat</p>	<p>W19 Electrical Stimulation Exercise as Medicine for Individuals with Spinal Cord Injury</p> <p>Organizer: Ashraf Gorgey Speakers: Ashraf Gorgey, Hope Jervis Rademeyer, Ines Bensch-Portada, David Dobbow</p>	<p>W20 Beyond Clinical Walls: The Importance of Real-World Data and Community Monitoring in Modern Rehabilitation</p> <p>Organizer: Sara Nataletti Speakers: Arun Jayaraman, Ivan Sunghoon Lee, Allison Miller, Sara Nataletti</p>		
12:00 - 13:45	Lunch										
13:45 - 15:15	<p>W21 Gamified Electromyographic Biofeedback for Treating Neural Movement Impairments</p> <p>Organizer: R. James Cotton Speakers: R. James Cotton, Derek Kamper, Marc Slutzky, Douglas Weber, Dailyn Despradel Rimaldo</p>	<p>W22 Meeting Everyone's Needs: Integrating the "Best" Lower Limb Rehabilitation Technology to Meet the Diverse Needs of Patients in an In-Patient Complex Trauma Rehabilitation Setting.</p> <p>Organizer: Toria Chan Speakers: Toria Chan, Jamie Storey</p>	<p>W23 The Power of Assistive Technology: Clinical Application of AT for Power Wheelchair Users</p> <p>Organizer: Jill Baldessari Speakers: Sarah Lusto, Leslie McLachlan</p>	<p>W24 Are usable rehabilitation robots a trade-off between complexity and intelligence?</p> <p>Organizer: Lauren Chee Speakers: Laura Marchal-Crespo, Lorenzo Masia, Alessandra Pedrocchi, Olivier Lamberty, Michael Sommerhalder, Fabian Just</p>	<p>W25 Roboethics - Bioethical Issues in Robotic Development and Clinical Uptake</p> <p>Organizer: Moria Fisher Speakers: Moria Fisher, Bittmann, Preya Tarsney</p>	<p>W26 Robotize - The Future of Rehabilitation Robotics: Innovations, Applications, and Hands-On Experience</p> <p>Organizer: Zen KOH Speakers: Denny Oetomo, Robert Rienen, Jose Pons, Rui Loureiro, Hyung-Soon Park, Shingo Shimoda</p>	<p>W27 Hocoma - Optimizing Clinical Outcomes in Overground Gait Training Through Advanced Technologies</p> <p>Organizer: Bettina Studer Speakers: Bettina Studer, Pastore, José López, Christina Vasquez, Andrew Packer, Zachary Crump</p>	<p>W28 Barriers and Facilitators in FES Cycling: Bridging Clinical Insights and Technological Advances</p> <p>Organizer: Tania Olmo Fajardo Speakers: Tania Olmo-Fajardo, Juan C. Moreno, Clara B. Sanz-Moreno, Ines Bensch, Emilia Ambrosini, Christine Azevedo Coste</p>	<p>W29 Advancements in Non-Invasive Neuromodulation: Techniques and Applications for Neurorehabilitation</p> <p>Organizer: Arun Jayaraman Speakers: Arun Jayaraman, Ronan Mooney, Sangeetha Madhavan, Shira Cohen-Zimmerman, Gail Forrest</p>	<p>W30 Who's Missing from Our Dataset? A Practical Workshop on How to Grow Your "n" by Including and Supporting Individuals with Communication Disabilities in Research</p> <p>Organizer: Elissa Larkin Speakers: Stacy Chrazostowski, Rosalind Hunwitz, Laura Kinsey, Matthew Sayers</p>	<p>Certificate Program in Advanced Neurorehabilitation Technology - Hands-On Practical Session PART I</p>
15:15 - 16:00	Coffee Break										
16:00 - 17:30	<p>W31 Raising the Bar: Successful Technology Implementation Across the Continuum of Care</p> <p>Organizer: Jessica Vaught Speakers: Jessica Vaught, Caitlin Wright, Cait Larkins, Ali Holmes</p>	<p>W33 KITE Research Institute - Innovative Collaborations in Rehabilitation: Bridging Research, Technology and Patient-Centre Care</p> <p>Organizer: Zen Koh Speakers: Milos Popovic, Zen Koh, Johannes Michels, Felix Schmidt</p>	<p>W32 Robot-Mediated Physical Human-Human Interaction in Neurorehabilitation</p> <p>Organizer: Lorenzo Vianello Speakers: Lorenzo Vianello, Julia Mancuzrowsky, Simone Kager, Lorenzo Vianello</p>	<p>W34 Low-Cost Neurorehabilitation Solutions For Low- And Middle-Income Countries (LMICS)</p> <p>Organizer: Nirmal Surya Speakers: Nirmal Surya, Hitav Someshwar, Chandan Kumar Jha, Pushkaraj Mame, Ajinkya Belsare</p>	<p>W35 Affordable Rehabilitation Robotics and Assistive Technologies for Africa: Challenges and Opportunities</p> <p>Organizer: Michelle Jillian Johnson Speakers: Michelle Mendonca, Chidebele Ojivwa, Samuel A. Otunju, Valery Tsinda Labou, Robert Reiner, Elisha Didam Markus, Karla Bustamante-Vallés, Danyella del Rio, Maria Alejandra Jacquez Graf, Rui C.V. Loureiro, Tetsuyou Watanabe, Mohamed Bouri, Hao Su, Aloys Johnson</p>	<p>W36 There Is No Place Like Home - Closing The Gap Between Evidence And Reality Of Digital Technology Solution For Remote Neurorehabilitation</p> <p>Organizer: Christoph Bauer Speakers: Christoph Bauer, Olivier Lamberty, Ryan Roemmich, Wala Jaser Mahmoud, Juan Camilo Cortez</p>	<p>W37 Dessintey - Action Planning in Neurorehabilitation</p> <p>Organizer: Davy Luneau Speakers: Joel Stein, Jelka Jansa, Mooyeon Oh-Park, Eleonora Guanziroli</p>	<p>W38 Kilohertz Carrier Frequencies for Transcutaneous Spinal Cord Stimulation: What's All The Buzz About?</p> <p>Organizer: Ashley Dalrymple Speakers: Ismael Seañez, Jane Butler, Dimitry Sayenko, Parag Gad</p>	<p>W39 Empowering Balance Control Through Non-Invasive Neuroenhancement Approaches</p> <p>Organizer: Cristina Bayón Speakers: Maura Evidel, Nick Fey, Aaron J. Young, Herman van der Kooij, Eduardo Rocon</p>	<p>W40 Data Driven Therapy: Using Exoskeleton Data To Measure Therapy Progress For Neuro-Muscular Rehabilitation</p> <p>Organizer: Nicolaus Klinger Speakers: Nicolaus Klinger</p>	<p>Certificate Program in Advanced Neurorehabilitation Technology - Hands-On Practical Session PART II</p>

Application and clinical integration
Development of Technology
Telerehabilitation

Application of Technology
Assistive Technology

Industry
Neuromodulation

Research
Education