Rehabilitation Engineering Research Center (RERC)

on

Technologies for Children with Orthopedic Disabilities

U.S. Department of Education H133E100007

Annual Meeting Marquette University Discovery Learning Complex Innovation Lab Corner of 16th and Wisconsin Avenues Milwaukee, WI

2:00 PM – 2: 15 PM	Welcome & Introductions	Dr. Robert Bishop , Opus Dean, College of Engineering,
		Marquette University
		Dr. Kristina Ropella, Chair, Biomedical Engineering, Marquette
		University
		Dr. Gerald Harris, Professor and Director, Biomedical
		Engineering, Marquette University, RERC Director
2:15 PM – 2:30 PM	RERC Overview and Progress	Dr. Gerald Harris
2:30 PM – 3:00 PM	A Closer View – Research Project	Dr. Brian Schmit, Professor, Biomedical Engineering,
	R2: Diffusion Tensor Imaging and Restoration of	Marquette University, R2 Lead Investigator
	Upper and Lower Limb Function in Children with	Dr. Michelle Johnson, Associate Professor, Medical College of
	Cerebral Palsy	Wisconsin, R2 Lead Investigator
3:00 PM - 3:15 PM	A Closer View – Development Project	Dr. Ming Wu, Research Assistant Professor, Department of
	D2: 3D Pediatric Robotic Gait Training Improves	Physical Medicine and Rehabilitation, Northwestern University;
	Locomotor Function in Children with Cerebral	Research Scientist, Sensory Motor Performance Program,
	Palsy	Rehabilitation Institute of Chicago, D2 Lead Investigator
3:15 PM – 3:30 PM	Perspectives on the Website Development	Dr. Roger O. Smith, Professor, Department of Occupational
	Demonstration of <u>www.tech4pod.org</u>	Science & Technology, College of Health Sciences Director,
		Rehabilitation Research Design & Disability (R2D2) Center,
		RERC Training & Dissemination
		Ms. Melissa R Lemke, Senior Research Specialist,
		Rehabilitation Research Design and Disability (R2D2) Center,
		College of Health Sciences, UW Milwaukee, RERC Training &
		Dissemination

3:30 PM – 4:00 PM	A Look Forward: RERC Plans for Year 2 R1: Nano- and Microstructural Tissue Characterization for Improved Care of Children with Osteogenesis Imperfecta (OI) and Severe Clubfoot Deformity	Dr. Gerald Harris, R1 Lead Investigator
	R3: Home-Based Robot-Assisted Therapy and Tele-Assessment for Joint Impairment in Children with Cerebral Palsy	Dr. Yupeng Ren , Research Associate & Post Doctoral Fellow, Rehabilitation Institute of Chicago, R3 Lead Investigator
	R4: Advanced Mobility Modeling to Improve Function and Longer Term Transitional Care of Children with Orthopedic Disabilities	Dr. Brooke Slavens , Assistant Professor, Department of Occupational Science & Technology, UW-Milwaukee, R4 Lead Investigator Dr. Gerald Harris, R4 Lead Investigator
	D1: Developing a Pivoting-Sliding Elliptical Machine to Improve Neuromuscular Control and Stability in Axial and Frontal Planes for Children with Orthopedic Disabilities	Dr. Yupeng Ren, D1 Lead Investigator
	D3: Biplanar Fluoroscopic System for Dynamic, <i>in vivo</i> Foot and Ankle Motion Analysis	Dr. Taly Gilat-Schmidt , Assistant Professor, Biomedical Engineering, Marquette University, D3 Lead Investigator
	Training Activities	Dr. Roger Smith, Chair of the Training and Dissemination Committee