Day One:  
Wednesday, May 25, 2016

8:00 a.m.  
Registration

8:30–8:45 a.m.  
Welcome: Plan for Conference  
(TBD)

8:45–9:00 a.m.  
Relevance and Importance of Rehabilitation to NIH and Introduction of Keynote  
(TBD)

9:00–10:00 a.m.  
Consumer Keynote  
Same Sky Project

10:00–10:30 a.m.  
Break and Poster Session

Rehabilitation Across the Lifespan  
Innovative Models of Rehabilitation: Toward Evidence-Based Rehabilitation

10:30–10:45 a.m.  
Moderator Overview  
Alan Jette, Ph.D., Boston University

10:45–11:15 a.m.  
Panel Discussion  
Andrea Cheville, M.D., Mayo Clinic  
Jonathan Bean, M.D., Harvard Medical School  
Shari Wade, Ph.D., Cincinnati Children’s Hospital Medical Center

11:15–11:30 a.m.  
Q&A
Technology in Rehabilitation
*From Cutaneous to Implanted: Innovations Driving Development Examples from Cochlear Implants, Functional Electrical Stimulation, Brain Computer Interface, and Prosthetics*

11:30–11:45 a.m. **Moderator Overview**
Ranu Jung, Ph.D., *Florida International University*

11:45 a.m.–12:15 p.m. **Panel Discussion**
Leigh Hochberg, M.D., Ph.D., *Harvard University*
Reggie Edgerton, Ph.D., *University of California, Los Angeles*
Joseph Rizzo, M.D., *Harvard University*
Mario Svirsky, Ph.D., *New York University*

12:15–12:30 p.m. **Q&A**

12:30–1:30 p.m. **Lunch**

Mechanisms and Markers of Activity and Function
*Exercise, Plasticity, and Mechanism: How Is Rehabilitation Happening?*

1:30–1:45 p.m. **Moderator Overview**
Keith Tansey, M.D., Ph.D., *Shepherd Center*

1:45–2:15 p.m. **Panel Discussions**
Rick Lieber, Ph.D., *Rehabilitation Institute of Chicago*
Stephen Seliger, M.D., *University of Maryland*
James Blumenthal, Ph.D., *Duke University*

2:15–2:30 p.m. **Q&A**

Individuals, Families, and Community
*Incorporating the Home, the Family, and the Community in the Rehabilitation Intervention*

2:30–2:45 p.m. **Moderator Overview**
Linda Ehrlich-Jones, Ph.D., *Rehabilitation Institute of Chicago*

2:50–3:15 p.m. **Panel Discussion**
Christopher Murtaugh, Ph.D., *Visiting Nurse Service of New York*
George Alexopoulos, M.D., *Cornell University*
Sara Czaja, Ph.D., *University of Miami Miller School of Medicine*

3:15–3:30 p.m. **Q&A**
3:30–4:00 p.m. Break and Poster Session

Engineering and the Environment
Low-Cost, In-Home, or Open-Source Solutions: Opportunities and Challenges

4:00–4:15 p.m. Moderator Overview
Melanie Fried-Oken, Ph.D., Oregon Health & Science University

4:20–4:45 p.m. Panel Discussion
Cole Galloway, Ph.D., University of Delaware
Maureen Schmitter-Edgecombe, Ph.D., Washington State University
James Coughlan, Ph.D., Smith-Kettlewell Eye Research Institute

4:45–5:00 p.m. Q&A

5:00 p.m. Closing Remarks

5:15–6:30 p.m. Networking for New and Young Investigators
Day Two:
Thursday, May 26, 2016

8:30–9:00 a.m.  Arrival and Set-Up
9:00–9:15 a.m.  Welcome
9:15–9:45 a.m.  Development of an NIH Rehabilitation Research Plan
   Trans-NIH Medical Rehabilitation Research Committee
   Alison Cernich, Ph.D., ABPP-CN, National Center for Medical
   Rehabilitation Research
9:45–10:00 a.m. Break and Move to Parallel Sessions
10:00 a.m.–12:00 p.m. PARALLEL BREAKOUT SESSION ONE
   Understanding the Context: Environmental Impacts in Rehabilitation
   Michael Mueller, Ph.D., Washington University
   Links Between Community Context and Long-Term Outcomes
   Amanda Botticello, Ph.D., M.P.H., Kessler Foundation
   Impacting Individuals in Rural Communities
   Patrick Kitzman, Ph.D., University of Kentucky
   Understanding Health Disparities in the Community
   James Burke, M.D., University of Michigan

10:00 a.m. –12:00 p.m. PARALLEL BREAKOUT SESSION TWO
   Effective Pathways to Evidence for Rehabilitation
   James Malec, Ph.D., Rehabilitation Hospital of Indiana
   Incorporating Mechanisms into Trials
   Dosing for Rehabilitation Trials
   Catherine Lang, Ph.D., Washington University
   How Do We Define Standard Care?
   Susan Horn, Ph.D., University of Utah

10:00 a.m. –12:00 p.m. PARALLEL BREAKOUT SESSION THREE
   Cells and Tissues: Plasticity and Repair
   Rick Lieber, Ph.D., Rehabilitation Institute of Chicago
Acute Interventions and Cellular Response  
D. Michele Basso, Ph.D., *Ohio State University*

Neuroplasticity in Rehabilitation  
Monica Perez, Ph.D., *University of Miami*

Regenerative Rehabilitation  
Mike Boninger, M.D., *University of Pittsburgh*

10:00 a.m. – 12:00 p.m.  
**PARALLEL BREAKOUT SESSION FOUR**

Rehabilitation in the Real World  
Aiko K. Thompson, Ph.D., *Medical University of South Carolina*

Going to the Home: Telerehabilitation Research  
Steve Cramer, M.D., *University of California, Irvine*

Internet-Based Care to Impact Health Outcomes  
James Rimmer, Ph.D., *Lakeshore Foundation*

mHealth: Putting Rehabilitation in the Consumers’ Hands  
Susan Magasi, Ph.D., *University of Illinois at Chicago*

12:00–1:00 p.m.  
Lunch

1:00–3:00 p.m.  
**PARALLEL BREAKOUT SESSION FIVE**

Transitions Across the Lifespan  
Walter Frontera, M.D., Ph.D., *Vanderbilt University*

Transitions Through Childhood  
Sharon Ramey, Ph.D., *Virginia Polytechnic Institute and State University*

Prospective Understanding of Transition to Adulthood  
Ellen Giarelli, Ed.D., RN, M.S., CRNP, *Drexel University*

Enhancing Rehabilitation for Aging Populations  
Eric Lenze, M.D., *Washington University*

1:00–3:00 p.m.  
**PARALLEL BREAKOUT SESSION SIX**

Incorporating New Outcomes  
Jonathan Bean, M.D., *Harvard Medical School*

Virtual Training and Assessment  
Brad Dicianno, M.D., *University of Pittsburgh*
Sensor-Based Outcomes  
Melissa Morrow, Ph.D., *Mayo Clinic*

Client-Based Outcome Systems  
Brian Hafner, Ph.D., *University of Washington*

1:00–3:00 p.m.  
PARALLEL BREAKOUT SESSION SEVEN

Using Data to Drive Discovery  
Ken Ottenbacher, Ph.D., *University of Texas*

Using Health Care Systems Data to Empower Research  
Adrian Hernandez, M.D., *Duke University*

Using Publicly Available Data to Enable Discovery  
James Graham, Ph.D., *University of Texas*

Using Big Data for Insight  
Jennifer Hicks, Ph.D., *Stanford University*

1:00–3:00 p.m.  
PARALLEL BREAKOUT SESSION EIGHT

Preventing Secondary Disability  
Diane Damiano, Ph.D., *NIH Clinical Center*

Preventing Chronic Pain: Understanding the Mechanisms  
Greg Hicks, Ph.D., *University of Delaware*

Incentivizing Healthy Behaviors: Lessons from Cardiac Rehabilitation  
Diann Gaalema, Ph.D., *University of Vermont*

Secondary Prevention for Individuals with Disabilities  
Sara Mulroy, Ph.D., *Rancho Los Amigos National Rehabilitation Center*

3:00–3:30 p.m.  
Break and Posters

3:30–4:00 p.m.  
Town Hall  
*NIH Medical Rehabilitation Research Committee*

4:00–4:30 p.m.  
Wrap-Up Planning Committee

4:30 p.m.  
Closing Remarks