

## EXERCISE AND RECREATIONAL TECHNOLOGIES FOR PEOPLE WITH DISABILITIES

### CONFERENCE SCHEDULE



**Tuesday, May 30, 2006**

**11:30 a.m. – 1:30 p.m. Registration/Check-in**

**1:30 p.m. – 3:45 p.m. Opening Session**

**1:30 – 2:30 p.m. Welcoming Address**

*James Rimmer, University of Illinois at Chicago*

*David Braddock, University of Colorado*

*Tamar Heller, University of Illinois at Chicago*

*Charlotte Tate, University of Illinois at Chicago*

*James Whitehead, American College of Sports Medicine*

**2:30 – 3:45 p.m. Current State of the Science**

“Recreation Technology, Opening up a World of Opportunity”

*- Rory Cooper, University of Pittsburgh*

“Universal Design Guidelines for Fitness Equipment”

*- Peter Axelson, Beneficial Designs, Inc.*

**3:45 – 4:00 p.m. Break**

**4:00 – 5:00 p.m. Breakout Sessions (choose 1)**

#### **A. Measurement & Assessment Technology**

**4:00 – 4:25 p.m.** “Surveys, Odometers, & Global Positioning Devices: Challenges & Solutions to Measuring Physical Activity & Participation in Full-time Wheelchair Users”

*- Charles Levy, University of Florida*

**4:30 – 4:55 p.m.** “Measurement & Analysis of Long-term Ambulatory Activity in People with Physical Disability”

*- Kim Coleman, Cyma*

## **B. New Exercise Equipment Engineering & Design**

**4:00 – 4:25 p.m.** “Design of the GameCycle Exercise Device: Initial Development”  
- *Shirley Fitzgerald, University of Pittsburgh*

**4:30 – 4:55 p.m.** “Modification Kits for Retrofitting Exercise Equipment”  
- *Michael Scott, University of Illinois at Chicago*

## **C. Virtual Exercise Environments**

**4:00 – 4:25 p.m.** “3-D Immersive Virtual Environments for C-SAFE Compliant Exercise Equipment: Software & Hardware Equipment Prototype”  
- *Pat Banerjee, University of Illinois at Chicago*

**4:30 – 4:55 p.m.** “Developing Virtual Reality Systems for People with Physical & Developmental Disabilities”  
- *Charles Bergen, Vtree, Inc.*

**5:00 – 5:30 p.m.** **Break**

**5:30 – 7:00 p.m.** **Reception & Keynote**

**5:30 – 6:00 p.m.** Appetizer Reception and Poster Session

**6:00 – 6:30 p.m.** Keynote Address  
“Assistive Interactive Human-Centered Robotics”  
- *Maja Matarić, University of Southern California*

**6:30 – 7:30 p.m.** Dinner

**Wednesday, May 31, 2006**

**7:30 – 8:00 a.m.**

**Continental Breakfast**

**8:00 - 9:15 a.m.**

**Wolffe Lecture or IFI Symposium (choose 1)**

**ACSM Joseph B. Wolffe Memorial Lecture** (Colorado Convention Center)

"Physical Activity and Public Health: from Karvonen, Morris, and Paffenbarger to Behavioral and Environmental Interventions."

- *Steven N. Blair, P.E.D.*

**OR**

**Inclusive Fitness Initiative Symposium** (Hyatt Regency)

"Fit for Inclusion? - The impact of the Inclusive Fitness Initiative on the Fitness Equipment Market in the UK"

- *Sue Catton, IFI National Director*

"Embracing Inclusive Design—Current Accessibility Standards and Equipment Development in the UK Fitness Industry"

- *Dawn Hughes, IFI Researcher*

**9:30 - 10:30 a.m.**

**Breakout Sessions I (choose 1)**

**A. Measurement & Assessment Technology**

"Problems, Challenges, and Possible Technology Solutions in Assessing Physical Activity of Individuals with Disabilities"

- *Weimo Zhu, University of Illinois at Urbana-Champaign*

**B. New Exercise Equipment – Clinical Applications**

"An Investigation of Energy Expenditure During Isometric Video Game Play Using the Kilowatt Isometric Game Controller"

- *Daniel Drury, Gettysburg College*

**C. Virtual Exercise Environments**

"A Multisensory Treadmill-Based Locomotion Interface"

- *John Hollerbach, University of Utah*

**10:30 – 10:45 a.m.** **Break**

**10:45 a.m. – 12:10 p.m.** **Breakout Sessions II**  
**Panel Discussions (choose 1)**

**A. Tele-exercise**

*David Brienza, University of Pittsburgh*  
*Jenny Kiratli, Veterans Administration Palo Alto*  
*Jack Winters, Marquette University*  
Panel Discussion and Questions

**B. New Exercise Equipment Engineering & Design**

*Scott Hopson, Power-Plate North America*  
*Sabri Cetinkunt, University of Illinois at Chicago*  
*Christopher Stanford, TrekEase Corporation*  
*Shirley Fitzgerald, University of Pittsburgh*  
Panel Discussion and Questions

**C. Assessment and the Environment**

*Patti Longmuir, Beneficial Designs and PEL Consulting*  
*Peter Axelson, Beneficial Designs*  
*Jon Sanford, Georgia Institute of Technology*  
*William Schiller, University of Illinois at Chicago*  
Panel Discussion and Questions

**12:15 – 1:30 p.m.** **Lunch & Keynote Address**

**12:15 – 12:45 p.m.** Lunch

**12:45 – 1:30 p.m.** Keynote Address  
“Universal Design & the Development of Accessible Recreation Products”  
- *Dianne Goodwin, BlueSky Designs*

**1:30 – 1:45 p.m.** **Break**

**1:45 – 3:00 p.m.**

**Breakout Sessions III**

**Panel Sessions (choose 1)**

**A. e-health Technology: From Measurement to Application**

*Kim Coleman, Cyma*

*Barth Riley, University of Illinois at Chicago*

*William Schiller, University of Illinois at Chicago*

Panel Discussion and Questions

**B. New Exercise Equipment Engineering & Design**

*Andrew Houghton, The Cube LLC*

*David Brown, Northwestern University*

*Harold Honeyman, Project Mobility*

*Elizabeth Omiatek, Marquette University*

Panel Discussion and Questions

**C. Virtual Environments**

*Jane Mulligan, University of Colorado at Boulder*

*Cristian Luciano, University of Illinois at Chicago*

*Leslie McLachlan/Laura Meyer, Assistive Technology Partners*

Panel Discussion and Questions

**3:00 – 3:15 p.m.**

**Break**

**3:15 – 4:30 p.m.**

**Closing Session**

“Machines that Care: Building Empathy into Assistive Devices”

- *Timothy Bickmore, Northeastern University*

“Future Needs and Directions”

- *David R. Gater, University of Michigan*

**4:30—6:00 p.m. Meeting & Reception for RERC Rectech Advisory Panel Members**