



# Meeting the Demands of the 21st Century Through Innovative Technology

10th Session of the Conference of States Parties to the UNCRPD (COSP10) - Side Event

15 June 2017, 4:45pm-6:00pm, Conference Room 12, UN Headquarters, New York, NY, USA



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**Organizer:** *International Council for Caring Communities (ICCC)* <http://international-icc.org/>

**Co-Sponsor:** *The International Society of Physical and Rehabilitation Medicine (ISPRM)* <http://www.isprm.org/>

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This session features the use of advanced medical technologies to minimize barriers for participation in society by persons with disabilities. Presentations include the use of regenerative medicine to treat osteoarthritis, bionic sensors and cybernetics to treat visual impairment, and remote, virtual therapy to treat paralysis in persons who have sustained a stroke. Presentations will be followed by a discussion on how these technologies may be applied effectively and sustainably in our global society to achieve inclusion for all.

## Program & Speakers

### Welcome

**Bryan O'Young MD** (Chair), ISPRM-UN Task Force, ISPRM; Advisory Board, ICC; Physical Medicine and Rehabilitation Residency Program Director, Medical Director of Physiatric Pain Management, Geisinger Health System Clinical Professor, NYU School of Medicine; Adjunct Clinical Professor, Weill Cornell Medical College

### Opening remarks

**Dianne Davis PhD** (Moderator), Founding President, International Council for Caring Communities

### Introduction of speakers

**John Melvin MD** (Moderator), Chair, ISPRM-UN Task Force; Professor and Chair Emeritus, Department of Rehabilitation Medicine, Sidney Kimmel Medical College, Thomas Jefferson University

### *Leaping forward - Treating Osteoarthritis with the Future of Regenerative Rehabilitation*

**Christopher Visco MD**, Ursula Corning Associate Professor of Rehabilitation Medicine Research, Vice Chair of Education, Department of Rehabilitation and Regenerative Medicine, Columbia University College of Physicians and Surgeons; Residency Program Director, Physical Medicine and Rehabilitation, Sports Medicine Fellowship New York-Presbyterian Hospital, Columbia and Cornell

### *Breaking Barriers with Bionic Senses and Cybernetics: AI-Driven Smart Wearable Assistive Technology for the Visually Impaired and Beyond*

**J.R. Rizzo MD MSCI**, Assistant Professor, Department of Rehabilitation Medicine, Department of Neurology, Department of Mechanical and Aerospace Engineering (Associate), NYU School of Medicine, NYU Tandon School of Engineering; Director, Visuomotor Integration Laboratory and Technology and Translation in Medicine Laboratory, Director, Physical Medicine and Rehabilitation, NYU School of Medicine

### *Freedom to Move Again: Technology for Low Cost Remote Sustainable Stroke Therapy*

**Preeti Raghavan MD**, Associate Professor, Vice Chair Research, Director, Motor Recovery Research Laboratory, Rusk Rehabilitation, NYU School of Medicine

### Discussion with audience interaction & questions

All, including **Alfred Gellhorn MD**, Assistant Professor, Director of Sports Rehabilitation, Department of Rehabilitation, Weill Cornell Medical College

### Closing remarks

**Dianne Davis**