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**