Student Scientific Paper Competition

• Chair and Host: Pat Politano, PhD, CCC-SLP/L, ATP

• Thanks to all the reviewers!

• Special thanks to our generous sponsor: Paralyzed Veterans of America
Judges

- Albert M. Cook, PhD
- Martin Ferguson-Pell, PhD
- Gail Forrest, PhD
- Jane Huggins, PhD
- Lee Kirby, MD
- Lauren Rosen, PT, MPT, ATP
- Brooke Slavens, PhD
- Edward Wang, PhD
- Seth Wolpert, PhD
Honorable Mention Paper

Effects of Surface and Speed on Biomechanics Variable during Steady-State Wheelchair Propulsion

Elizabeth Timcho, Jennifer Collinger, and Alicia Koontz
Human Engineering Research Laboratories

Michael Turkovich, MS
University of Pittsburgh
Winning Paper

Preliminary Assessment of Wheelchair Securement Systems in a Large Accessible Transit Vehicle

Michael Turkovich, MS; Linda van Roosmalen; Doug Hobson; and Erik Porach
University of Pittsburgh
Winning Paper

Real-time Slip Detection and Traction Control of Electrical Powered Wheelchairs

Hongwu Wang, MS; Benjamin Salatin, BS; Garrett G. Grindle, MS; Dan Ding, PhD; and Rory Cooper, PhD

University of Pittsburgh and Highland Drive VA Medical Center
Winning Paper

Is Upper Limb Muscular Demand Different between Wheelchair Transfers from the Preferred Versus Non-Preferred Side?

Eric Brindle, BSE Student; Dany Gagnon; and Alicia Koontz
University of Pittsburgh
Winning Paper

Driving Status and the Inner Drive for Community Mobility and Participation: A Survey of People with Disabilities and Senior Citizens from Support Groups in New Delhi, India

Nahom Beyene, MSEng; Rory Cooper; and Aaron Steinfeld

University of Pittsburgh
Winning Paper

Hand and Shoulder Joint Kinetic Analysis of Three Types of Lateral Wheelchair Transfers

Padmaja Kankipati, MS; Alicia Koontz; Michael Boninger; and Yen Lin
University of Pittsburgh