

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

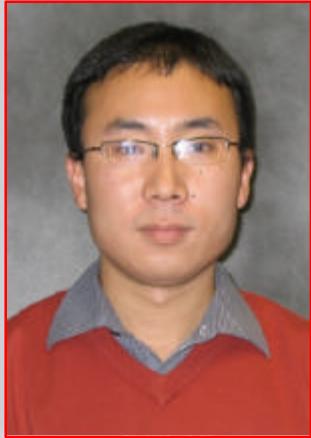
Human Engineering Research Laboratories

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