

ISWP Standards Working Group Minutes of January 12, 2016 Conference Call

The ISWP Standards Working Group met by conference call on Tuesday, January 12, 2016 from 12:00 p.m. to 1:30 p.m. U.S. Eastern Time. This document provides a recap and action items.

Link to call recording: <https://iswp.adobeconnect.com/p4l8gfptici/>

Upcoming Calls

- **Friday, January 29, 2016, 11:00 a.m. U.S. Eastern Time:** Special Standards Working Group call to discuss whole chair carousel testing.
- **Tuesday, February 9, 2016, 12:00 p.m. U.S. Eastern Time:** Regularly-scheduled monthly Standards Working Group call

Action Items

1. **Nancy Augustine/Kim Robinson** to poll Standards Working Group for a separate call (before next regularly scheduled WG call on February 9) regarding whole chair testing concept.
2. **Working Group members** to continue to provide input on Design Considerations document.

Discussion

1. *Corrosion testing:* Anand received a quote for the equipment.
2. *Caster testing* is moving forward. Anand will send an update to the group when he returns.
3. *Rolling resistance:* No report as Matt McCambridge and Norman Reese were not on the call.



4. *Whole chair testing*: Group had good discussion about the approach for whole chair testing. Don Schoendorfer recommended WG members visit destaco.com/rotary-index-drives.html. Don also provided drawings of the track components; attached.
Call participants discussed:
 - Pitt's concern about a circle track being able to generate reproducible results.
 - Identifying failure modes the track would be designed to solve.
 - Value of developing a prototype first before investing in the track.
 - How chairs would be attached to the track.
 - Controlling loads and turns as the chair turns the corner on the track.
 - Whether speed on corners of the track can be varied.
 - Value of a longer straightaway track (9 foot, 12 foot, 15 foot).
 - Adequate number of cycles the chair should make on the track.
 - How to duplicate curb drops.
 - Whether a track is needed, or if we should consider a smart track where a machine/robot follows a strip of tape on the floor.
5. *Design guidelines*: Daniel Martin, Don Schoendorfer and Eric Wunderlich have provided input. Jon Pearlman is incorporating testing information – tests that currently exist and what a potential manufacturer should consider. The document is available on the Standards Working Group Google drive, Design Considerations folder.
6. *Timeline*: Working Groups anticipates accomplishing these objectives in February 2016:
 - Working prototype of Rolling Resistance test equipment up and running.
 - Working prototype of Caster durability test equipment up and running.
 - Salt Fog Chamber purchased and installed.
 - Design Considerations documents complete and ready for editing team.
 - Drawing complete for Whole Chair Testing track.
7. *Working Group funds*: The Working Group has about \$16,000 left to purchase materials for equipment and tests. Mark will not be submitting a funding proposal in the current round, with proposals due February 19, 2016.

Subgroups (for reference)

- *Casters*: Anand Mhatre (lead), Matt McCambridge, Jon Pearlman, Norman Reese, Don Schoendorfer
- *Corrosion*: Matt McCambridge, Don Schoendorfer
- *Design Guidelines*: Mark Sullivan (interim lead), Daniel Martin, Jon Pearlman, Norman Reese, Chris Rushman, Eric Wunderlich
- *Rolling Resistance*: Matt McCambridge (lead), Jon Pearlman

Participants

	Caleb Elder, LeTourneau University
✓	Dave Mahilo, Invacare
✓	Daniel Martin, Shonaquip
	Matt McCambridge, MIT
	Norman Reese, LeTourneau University
	Karen Rispin, LeTourneau University
	Chris Rushman, Motivation
✓	Don Schoendorfer, Free Wheelchair Mission
✓	Mark Sullivan, Convaid, Ride Designs and Polus Center (WG Chair)
	Karl-Erik Westman, Handicap International
✓	Eric Wunderlich, LDS Charities
	Dr. Rory Cooper, University of Pittsburgh
	Ben Grebosky, University of Pittsburgh
	Anand Mhatre, University of Pittsburgh
	Dr. Jonathan Pearlman, University of Pittsburgh
✓	Nancy Augustine, University of Pittsburgh

Prepared by: Nancy Augustine