

ISWP Standards Working Group

March 31, 2015 Meeting Recap

The ISWP Standards Working Group met by conference call on Tuesday, March 31, 2015 from 12:00 p.m. to 1:00 p.m. U.S. Eastern Time. This provides a recap.

Action Items

1. Everyone in the group to review the spreadsheet of testing/evaluation standards uploaded on Google drive and recommend suggestions on the tests. Additionally, following action items were suggested:
 - a) Mark – Survey on current testing methods for rollability and durability of rear wheels and casters mainly. Update the matrix accordingly.
 - b) Group - If testing methods are obtained before the next meeting, decide on pros and cons of each test method and select tests accordingly.
 - c) Jon P - add comments on the column of field observations in the matrix.
2. Anand – develop subdirectories on the Google drive for caster pics and wheelchair issues.
3. Formation of subgroups:
 - a. Matt – work on rear wheels issues/testing.
 - b. Norman, Jon P, Anand, Don (maybe) – work on caster issues.
4. Group to determine how Karen can help with Kenyan collaborators; she will visit Kenya again in May 2015.

Discussion

1. Discussion of tests for casters – While discussing tests, it was suggested that we should be able to demonstrate issues we see in the field and determine root causes of caster failures. Tests should be geared towards two important aspects –
 - a. Rollability
 - b. Durability

2. Tests standards for casters should help determine selection of casters from different suppliers.
3. Prioritizing tests is important for casters wherein some tests are required and some are highly recommended for LREs.
4. Discussion on tests for rear wheels – Several tests were discussed by the group as below:
 - a. Ramp rollability test
 - b. Obstacle bouncing test – see if this test can predict rollability on different terrains
 - c. Puncture test – tested by Matt along with abrasion and rolling resistance
 - d. Develop tests for different types of tires to avoid tradeoff with tire selection for different surfaces.
5. Testing for durability of spokes is necessary. The group discussed tests that could apply for spokes:
 - a. DDT
 - b. Failure under certain axial load
6. Discussion on testing bearings:
 - a. Refer to ASTM standardized tests for bearings
 - b. Develop system level tests for assessing impact of choice of bearing on rolling resistance.

Participants (check indicates participation)

✓	Dave Mahilo, Invacare
✓	Matt McCambridge: DEKA (formerly with Whirlwind)
✓	Norman Reese, LeTourneau University
✓	Karen Rispin, LeTourneau University
	Chris Rushman, Motivation UK
	Don Schoendorfer, Free Wheelchair Mission
✓	Mark Sullivan, Convaid, Ride Designs and Polus Center (WG Chair)
	Karl-Erik Westman, Handicap International
✓	Eric Wunderlich: LDS
	Rory Cooper, University of Pittsburgh
✓	Jon Pearlman, University of Pittsburgh
✓	Anand Mhatre, University of Pittsburgh
✓	Nancy Augustine, University of Pittsburgh