**Standards Working Group Meeting Recap**

**March 9, 2021**

The ISWP Standards Working Group met by conference call on Wednesday, March 9 12:00 – 1:30 pm U.S. Eastern Standard Time/17:00 – 18:30 GMT. This provides a meeting recap. Action items and individuals responsible are shown in bold/underline.

Next call: Wednesday June 8, 2022 12:00 p.m. U.S. Eastern Standard Time/17:00 GMT.

1. **ISWP Update:** ISWP is making steady progress building the foundation as a separate entity. Bridge funding was awarded to support ongoing operations through April 30, 2022 and we expect additional financial support for the remainder of 2022. ISWP has a founding board and by-laws in place, and has been approved as a charitable foundation in the US, so we can now accept donations. The global search for executive director will begin in April, with hiring anticipated during the summer.

Some highlights of ISWP accomplishments: We have grown as an organization, with multiple working groups, and a large team working on the educator’s package and the development of tools and have a large network of academic partners. Globally, there are 6,000 people engaged in ISWP training activities, and over 200 certified wheelchair service providers. ISWP is currently in a transition phase and is looking for engagement and leadership to help with administrative and other activities going forward. Would like to see it become more of a community driven activity. There are ongoing discussions with AT Scale and USAID has committed funding.

1. **Wiki and Wheelchair Testing Centers.** The fourth Wheelchair Testing Centers meeting took place on February 9th, with three presentations. Elora Flinois from CERAH on French wheelchair testing, Kara Kopplin from Permobil, ISO, and RESNA on good lab practices (GLP) and ISO 17025, and Alex Delazio from University of Pittsburgh on the Wheelchair and Cushion Standards Group.

The meeting recording is available here: <https://wheelchairnetwork.org/kb/meeting-recordings/> Testing centers: <https://wheelchairnetwork.org/kb/wc-testing-centers-map/>

Stephanie also had a meeting with the ISO WG-6 Committee at end of February 2022 to introduce the Wiki and the group to the members of the committee.

The next Wheelchair Testing Centers’ meeting is on May 11th, 2022, 9:00 a.m. U.S. Eastern Standard Time/14:00 GMT.

1. **Rolling Resistance Testing:** The highlights from a study onprecision and accuracy of component-based rolling resistance testing was presented. The study compared drum based component testing versus treadmill based tests for 144 unique wheel/caster/load and load distribution combinations. Equipment included pneumatic and solid tires and soft roll and polyurethane casters. The study found a high level of agreement and prediction accuracy for the component based test. The results of the study will be published.

There was discussion about rolling resistance, and that pneumatic tires have lower rolling resistance than airless inserts, and that even 50% underinflated tires have lower rolling resistance than airless inserts. There were also questions and discussion about the effect of vibration and matching tires to surface conditions for user comfort, how to design a better tire, and the effects of high temperature and humidity.

1. **Group updates:** 
   1. **Ben Judge:**  Grit is approaching their busy season. They have filed a patent on their junior product, related to how the product grows with the child. They continue to deal with supply chain issues. They recently launched an updated website, refreshed logo and updated tagline “move beyond”.
   2. **Keoke King:** They continue to work through supply chain issues. Their plan is to ship the pediatric CUB and other products by the end of May.
   3. **Don Schoendorfer:** They also are experiencing supply chain and logistics issues. It has been challenging to maintain production in China and their shipping costs have increased. They are getting wheelchairs produced and shipped, but coordination is challenging.
   4. **Marjelle Scheffers:** They are working on producing prototypes in Kenya for double drum testing in Italy. Supply chain issues have also affected their ability to produce prototypes.
   5. **Chris Rushman:** They are starting a new project in Kenya setting up national production for a range of wheelchair products. They will go through the full design process to determine specifications and which products they will produce. The government wants to reduce product importation and build up nationally produced products. They will need to find a WC testing center for ISO testing of their prototypes.

For the ALIMCO project, they are setting up national production In India, and are now technically able to sign off prototypes with production tooling. They will produce a three-wheeler and a four-wheeler, without Motivation branding.

* 1. **Anand Mhatre:** The updated ISO caster standard will be published by April 14th, and will be available to purchase on the ISO website. The ISO testing lab in India, in collaboration with Keoke and Mobility India, is now launched. There are some additional improvements to testing underway. He could present the range of ISO tests available at our next meeting.
  2. **Elia Bernabeau:** They are beginning sand testing and may be able to present at our next meeting.
  3. **Jim Watson:** They received ISO 17025 accreditation lab status for wheelchair testing (part 19 dynamic sled testing) last week, and will be formally announced soon, which is a huge accomplishment. They are also able to test with customers observing remotely via video conference.

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Participants:

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|  | Bonnie Gonzalez, Free Wheelchair  Mission |  | Andy Maynard, Mobility Worldwide |
|  | Ben Judge, GRIT |  | Carlos Galvan Duque, Universidad Iberoamericana |
|  | Keoke King, Participant Assistive  Products |  | Isabel Bolívar, Universidad Iberoamericana |
|  | Dean Mubaiwa, ShonaquipSE |  | Marjelle Scheffers, BambooAbility |
|  | Shona McDonald, ShonaquipSE |  | Anand Mhatre |
|  | Matt McCambridge |  | Jon Pearlman |
|  | Norman Reese, LeTourneau University |  | Nancy Augustine |
|  | Chris Rushman, Motivation |  | Holly Wilson-Jene |
|  | Don Schoendorfer, Free Wheelchair  Mission |  | Stephanie Vasquez |
|  | Scott Walters, Mobility Worldwide |  | Keyner Gonzalez, UEIA University |
|  | Eric Wunderlich, Latter-day Saint Charities |  | Carlos Alberto Costa, Universidade de Caxias do Sul |
|  | Jack Fried |  | Elia Bernabeu Mira |
|  | Bob Appleyard |  | Jim Watson, CIC |
|  | Laura Ramirez |  | Mariana Castro Medina |

Prepared by: ISWP Pitt Team