



ISO/TC 197  
Hydrogen technologies

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### **ISO TC 197 Meeting in China 2017-12**

Document type: Public document

Date of document: 2018-02-27

Expected action: INFO

Background: Here is a brief report on last years plenary meeting that was prepared for the Fuel Cell & Hydrogen Safety Report by Karen Quackenbush of FCHEA .

Committee URL: <https://isotc.iso.org/livelink/livelink/open/tc197>

## ISO TC197 Meets in China

by Karen Quackenbush

ISO TC197 working group and plenary meetings were held in Foshan, China during the week of December 4th. Thirteen countries were represented. Active projects are primarily focused on hydrogen filling stations and associated components including the stationary pressure vessels.

Dr. Mao presented the status of Hydrogen Energy in China. China is tremendously ramping up their development and manufacturing readiness efforts of fuel cells and hydrogen in the Foshan-Guangzhou area. China has opened the largest throughput and highest pressure pipeline in the world. The pipeline operates at 4 MPa. Fuel cell powered trams are getting a lot of attention, in addition to standard rail road locomotives.

A brief status of the active TC/197 Working Groups (WGs) is provided below:

- WG5 DIS ballot was very successful but plans to go DIS2 because a H35HF drawing is being changed, as well as to confirm numerous other changes before FDIS.
- WG15 on stationary hydrogen storage vessels is preparing for DIS ballot. There was approval to advance of ISO 19884 to DIS ballot and conduct the parallel effort to resolve problems identified in Annex B.
- WG 17 has been disbanded following the document on PSAs being published.
- WG18 DIS ballot for TPRDs was unanimously approved, but the tanks document had three disapprovals. The next WG18 meeting will take place in Torrance after the February GTR meeting.
- WG19 on dispensers plans to “suspend” ISO 19880-2 until ISO 19880-1 stabilizes.
- WG20 on valves has resolved all comments from the successful DIS ballot and is in ISO publishing for preparation of FDIS 19880-3. FDIS should start later this month or early 2018.
- WG 21 on compressors will complete CD ballot shortly.
- WG22 on hose assemblies is preparing ISO 19880-5 for DIS ballot.
- WG23 on fittings will process a CD in 2018.
- WG24 on hydrogen filling stations is preparing to submit the draft to ISO publishing for DIS 19880-1.
- WG25 on Metal Hydrides is developing a Technical Report for systems beyond the scope of ISO 16111. Stationary applications, fixed ground storage, and systems greater than 150L will be addressed.
- WG26 on electrolyzers has a high quality CD and is requesting to skip the CD ballot and go directly to DIS.

- WG27 is revising ISO 14687 on hydrogen quality specification. CD2 was unanimously approved, and the DIS document will be submitted for ballot in December 2017. The timeline for this document has been extended to 48 months.
- The WG28 document on hydrogen quality control (DIS 19880-8) passed DIS ballot. FDIS 19880-8 to be submitted in January of 2018. Members of TC197 are having difficulties participating on JWG7 ballots. Spencer Qoung (as secretary of WG28) will (with assistance of Jim Ferrero) set up ballots for TC197 to mirror ballots within TC158. The comments from various countries can then be compiled and sent to the convenor of JWG7.

TC 197 approved extending convenorships of Livio Gambone, Dr.Watanabe, and Karen Quakenbush for three additional years.

The next TC197 Plenary and WG meetings will be held in Vancouver, BC (December 3-7, 2018).