



ISO/TC 197
Hydrogen technologies

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TC 197 Liaison Report 2018-10-05

Document type: Public document

Date of document: 2018-10-05

Expected action: INFO

Background: Here is the Liaison report for the ISO TC 197 activities, including an update from all active WGs.

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



Liaison Report from ISO/TC 197

2018-10-05

1. Structure of ISO/TC 197 (see Organisation Chart in Clause 7)

Acting on behalf of Standards Council of Canada (SCC), the Secretary is **Jonathan Lafontaine** of the BNQ and the Chair is **Dr. Andrei Tchouvelev**, who has been appointed for a third 3 year term until the end of 2021.

TC 197 has a Technical Advisory Board (TAB) made up of recognized experts in four key subject areas, from different regions, to act as Technical Program Directors (TPDs) helping to coordinate the liaisons and TC work in their areas of expertise and the work in their regions:

- Hydrogen Production, Storage and Handling – **Hervé Barthélémy**, PhD (Resp. for Europe)
- Built Environment and Safety – **Jay Keller**, PhD (Responsible for the Americas)
- Stationary and Fuel Cell Applications – **Hidenori Tomioka** (Responsible for Asia)
- Hydrogen Components and Vehicular Applications – **Craig Webster**, P.Eng.

Dr. Mao from China is Vice-Chair of TC 197 and a member of TAB (until the end of 2018), representing developing countries as part of a twinning arrangement between SCC and Standards Administration of China (SAC), with the goal promoting use of TC 197 standards in developing countries, facilitating their participation in working groups and assuring that their needs are being addressed by TC 197.

2. ISO/TC 197 Plenary Meeting

The last TC plenary of TC 197 was hosted by the China National Institute of Standardization and the Foshan Municipality. It took place on December 7-8, 2017, in Foshan, China, with 11 P-Members and 45 participants. There were 2 Working Group meetings held prior to the plenary.

On December 6th, 2017, there was a Chinese Hydrogen Energy Summit combined with an ISO Strategic Planning Meeting, with approximately 1000 participants.

The 2018 plenary meeting will take place on December 6-7, 2018 in Vancouver. There will be 3 WG meetings on the 3rd and 4th prior to the plenary, and a Strategic Plenary Meeting on the 5th.

3. Status of Technical Work

WG 5: ISO/DIS 17268 *Gaseous hydrogen – Land vehicle refuelling connection devices*.

This project is to revise the 2012 edition. Convenor is **Livio Gambone** from Canada and the Secretary is **Sara Marxen** from the United States.

The DIS ballot ended on 2017-09-06 and was approved. The FDIS and the ballot is currently being prepared for late 2018.

WG 15: ISO/DIS 19884 *Gaseous hydrogen – Cylinders and tubes for stationary storage*.

Convenor is **Laurent Allidieres** from France.

The DIS was approved on Sept 3rd 2018, and the FDIS ballot should be ready later in 2018.

WG 18: ISO/DIS 19881 *Gaseous hydrogen – Land vehicle fuel tanks* and ISO/DIS 19882

Gaseous hydrogen – Land vehicle fuel tanks – Thermally activated pressure relief devices. Convenor is **Livio Gambone** from Canada and the Secretary is **Sara Marxen** from the U.S.

This is a joint working group with ISO/TC 58/SC 3, ISO/TC 22/SC 37 and ISO/TC 22/SC 41. FDIS 19881 ballot ended on 2018-09-21 and the FDIS 19882 ballot ended on 2018-08-15; both are approved.

WG 19: ISO/DIS 19880-2 *Gaseous hydrogen – Fueling stations – Part 2: Dispensers.*

Convenor is **Shogo Watanabe** from Japan and the Secretary is **Yuko Yasutake**.

The DIS ballot ended on 2017-09-21 and was approved with four negative votes. WG 19 met in China Dec. 4th and 5th to deal with the DIS comments, but finalisation of a DIS2 has been suspended until WG 24 finalises the FDIS 19880-1, expected before the end of 2018.

WG 20: ISO 19880-3 *Gaseous hydrogen – Fueling stations – Part 3: Valves.*

Convenor is **Shogo Watanabe** from Japan and the Secretary is **Yuko Yasutake**.

The international standard was published in June 2018.

WG 21: ISO/AWI 19880-4 *Gaseous hydrogen – Fueling stations – Part 4: Compressors.*

Convenor is **Karen Quackenbush** from United States. The WG is suspended until a CD is ready for circulation. The WG will meet in Vancouver in December 2018 to discuss a timeline.

WG 22: ISO/DIS 19880-5 *Gaseous hydrogen – Fueling stations – Part 5: Hoses.*

Convenor is **Karen Quackenbush** from the United States.

The DIS ballot ended on 2018-07-23 and the project was approved. The WG met in Michigan, USA, on Sept 13th and 14th to address comments. An FDIS will be proposed prior to the December 2018 plenary meeting.

WG 23: ISO/AWI 19880-6 *Gaseous hydrogen – Fueling stations – Part 6: Fittings.*

Convenor is **Karen Quackenbush** from United States. The WG is suspended until a CD is ready for circulation. The WG will meet in Vancouver in December 2018 to discuss a timeline.

WG 24: ISO/DIS 19880-1 *Gaseous hydrogen – Fueling stations – Part 1: General Requirements.*

Co-Convenors **Guy de Réals**, France and **Glenn Scheffler**, U.S., with **Nick Hart**, U.K. as Secretary.

ISO/TS 19880-1 was published in 2016. The DIS2 ballot was approved and the WG is finalizing the CIB in time to receive comments prior to the Vancouver meeting in December 2018.

WG 25: ISO/FDIS 16111 *Transportable gas storage devices – Hydrogen absorbed in reversible metal hydride.* This project is to revise the 2008 edition.

TR 16113 for metal hydride applications not covered in 16111 is suspended due to lack of interest. Convenor is **Dominique Perreux** from France.

The DIS ballot ended on 2017-08-28 and was approved. WG 25 met on 2017-10-20 to deal with the DIS comments and prepare the FDIS. The FDIS ballot ended on 2018-06-19 and was approved.

Regarding the DTR 16113, it is envisaged to cancel the WI since the WG has not shown a lot of interest on having such document.

The convenor asked for the disbanding of WG 25 after publication of ISO 16111.

WG 26: ISO/DIS 22734 *Hydrogen generators using water electrolysis process.*

This project is to combine and revise Parts 1 & 2 published in 2008 & 2011 respectively.

Convenor is **Larry Moulthrop** from the United States.

The WG requested skipping the CD Ballot and this was approved at the plenary meeting in December 2017. The DIS ballot ended on 2018-05-14 and was approved.

WG 27: ISO/DIS 14687 *Hydrogen fuel – Product specification.*

This project is to combine and revise Parts 1, 2 & 3 published in 1999, 2012 & 2014.

Co-Convenors, from Japan, are **Yasuo Takagi** TG 1 (PEMFC vehicles) and **Osamu Tajima** TG 2 (PEMFC stationary appliances), with **Hidenori Tomioka** from Japan as Secretary for TG1 and **Yuko Yasutake** as Secretary for TG 2.

CD2 ballot ended 2017-10-14 and the WG met Nov. 14th and 15th to deal with CD2 comments to prepare the DIS. The DIS was approved. WG 27 will meet October 9th and 10th in France to agree on the pathway to FDIS.

WG 28: ISO/DIS 19880-8 *Gaseous hydrogen–Fueling stations – Part 8: Hydrogen quality control*. Convenor is **Hidenori Tomioka**, from Japan and the Secretary is **Spencer Quong** from the U.S. The DIS ballot ended on 2017-09-11 and was approved. WG 28 met to deal with the DIS comments and prepare the FDIS. The FDIS will be submitted for balloting in the fall of 2018.

4. NWIPs and new WGs

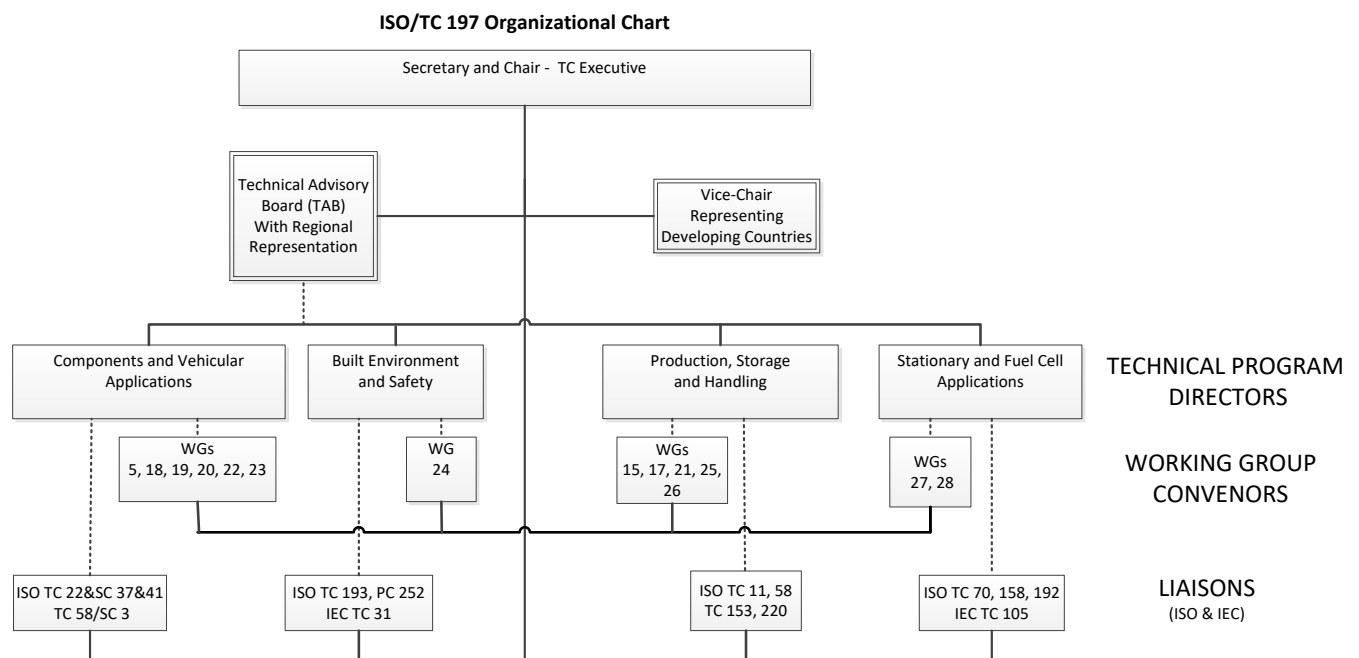
No new NWIPs or WGs have been presented. The most recent NWIP was presented at the 2015 plenary by Norway for fueling station sampling of gas impurities and particles, but it was decided to partially treat this by WG 24.

5. Liaisons and JGWs

There is a Joint Working Group with ISO/TC 158/JWG 7 developing ISO 21087 *Gas analysis – Analytical methods for hydrogen fuel – Proton exchange membrane (PEM) fuel cell applications for road vehicles*, with Martine Carré from France as the Convenor. The JWG met on Nov. 13th, 2017.

TS 19880-3:2018 *Gaseous hydrogen – Fueling stations – Part 3: Valves*. This IS was prepared by WG 20 with Convenor **Shogo Watanabe** and Secretary **Yuko Yasutake** from Japan.

6. ISO/TC 197 Organizational Chart



Legend:

Solid line ——— Administrative reporting

Dash line Technical input, coordination and collaboration

2016-05-31

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