



ISO/TC 197
Hydrogen technologies

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TC 197 Liaison Report 2018-04-25

Document type: Public document

Date of document: 2018-04-30

Expected action: INFO

Background: Here is a recently updated report on the activities of ISO/TC 197.

Note that the status of all of the WGs has been updated.

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



Liaison Report from ISO/TC 197

2018-04-25

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

Acting on behalf of Standards Council of Canada (SCC), the Secretary is **Jim Ferrero** of the BNQ and the Chair is **Dr. Andrei Tchouvelev**, appointed for a second 3 year term until the end of 2018.

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, 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** and there will be WG meetings on December 4-5 and a Strategic Planning meeting on December 5th, 2018.

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 WG met on Nov. 11th, 2017, to deal with the DIS comments and decided to prepare a DIS2, but it was later decided to have a CIB, in the spring of 2018, to clarify the DIS changes prior to the preparation of the FDIS.

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

Convenor is **Laurent Allidieres** from France.

The DIS is being balloted presently and the ballot will end on 2018-05-11.

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. DIS ballot ended on 2017-09-20 and was approved. The WG met to deal with the comments and both documents were submitted for FDIS balloting to start in the spring of 2018.

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 will be suspended until WG 24 finalises the FDIS 19880-1, expected before the end of 2018.

WG 20: ISO/FDIS **19880-3** *Gaseous hydrogen – Fueling stations – Part 3: Valves*. Convenor is **Shogo Watanabe** from Japan and the Secretary is **Yuko Yasutake**. The FDIS is presently being balloted and the ballot will end on 2018-05-13.

WG 21: ISO/AWI **19880-4** *Gaseous hydrogen – Fueling stations – Part 4: Compressors*. Convenor is **Karen Quackenbush** from United States. This project is temporarily suspended, with a CD version planned for the summer of 2018.

WG 22: ISO/DIS **19880-5** *Gaseous hydrogen – Fueling stations – Part 5: Hoses*. Convenor is **Karen Quackenbush** from the United States. The CD2 Ballot ended on 2017-07-07 and was approved. Comments were dealt with and the DIS will be balloted starting on 2018-04-30 and ending on 2018-07-23.

WG 23: ISO/AWI **19880-6** *Gaseous hydrogen – Fueling stations – Part 6: Fittings*. Convenor is **Karen Quackenbush** from United States. This project is temporarily suspended, with a CD version planned for the summer of 2018.

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 CD2 ballot for the IS ended on 2017-06-02 and was approved. The WG finalized the DIS, which is presently being balloted. The ballot will end on 2018-05-14 and the WG will meet in July to deal with the DIS comments.

WG 25: ISO/FDIS **16111** *Transportable gas storage devices – Hydrogen absorbed in reversible metal hydride*. This project is to revise the 2008 edition. The WG is also developing the **TR 16113** for metal hydride applications not covered in 16111. 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 started 2018-04-24 and ends 2018-06-19. The DTR **16113** will be resent for comments in the spring of 2018.

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 is presently being balloted and the ballot will end on 2018-05-14.

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. The DIS ballot will start on 2018-06-11 and end on 2018-09-03.

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 Nov. 16th, 2017, to deal with the DIS comments and prepare the FDIS. The FDIS will be submitted for balloting in the spring of 2018.

4. NWIPs and new WGs

At the 2015 plenary, Norway presented a possible NWIP for fueling station sampling of gas impurities and particles, but due to lack of resources it was decided to partially treat this by WG 24.

5. Liaisons and JwGs

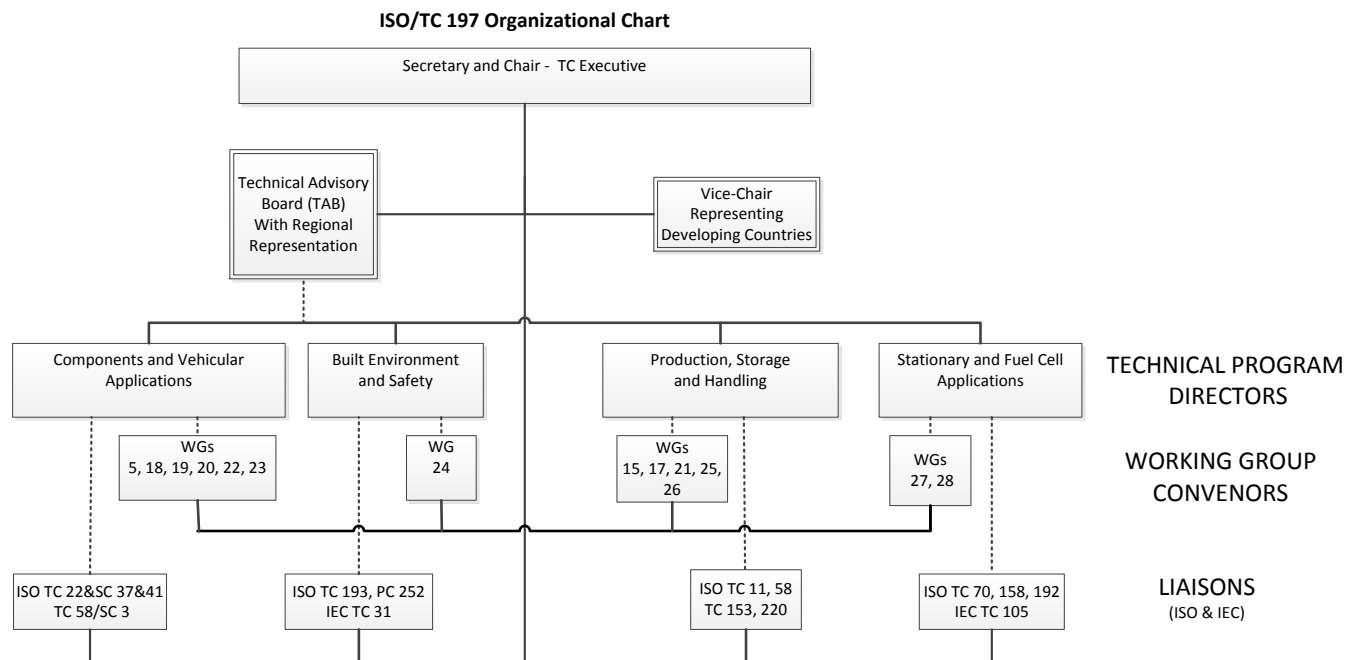
There is a Joint Working Group with ISO/TC 158/JWG 7 developing DIS **21087 Gas analysis – Analytical methods for hydrogen fuel – Proton exchange membrane (PEM) fuel cell applications for road vehicles**, with Martine Carré from France as the Convenor.

The JWG met on Nov. 13th, 2017. The DIS ballot starts 2018-05-10 and ends 2018-08-02.

6. Recently Published Documents

ISO/TS 19883:2017 Safety of pressure swing absorption systems for hydrogen separation and purification. This TS was prepared by WG 17 with Convenor **Yuhuan Gao** from China.

7. ISO/TC 197 Organizational Chart



Legend:

Solid line ——— Administrative reporting

Dash line Technical input, coordination and collaboration

2016-05-31

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