



ISO/TC 197
Hydrogen technologies

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ISO/TC 197 Liaison Report 2017-05-17

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Liaison Report from ISO/TC 197

2017-05-17

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

TC The last TC plenary of TC 197 was hosted by the European Commission Joint Research Center and took place on December 8-9, 2016, in Egmond ann Zee, the Netherlands, with 12 P-Members and 65 participants. There were 7 Working Group meetings held prior to the plenary.

On December 7th, 2016, there was an ISO-JRC Strategic Planning Meeting for **H2@Market: Multi-fueling stations and Power-to-large-scale-Hydrogen**, with approximately 75 participants.

The 2017 plenary meeting will take place on December 7-8, 2017 in Foshan, China.

3. Status of Technical Work

The following are the 13 WGs in TC 197:

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 will end on 2017-09-06.

WG 15: ISO/CD2 19884 *Gaseous hydrogen – Cylinders and tubes for stationary storage*.

Convenor is **Laurent Allidieres** from France.

The CD2 ballot will end on 2017-06-16.

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.
The DIS ballots will end on 2017-09-20.

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 will end on 2017-09-21.

WG 20: ISO/DIS2 19880-3 *Gaseous hydrogen – Fueling stations – Part 3: Valves*.
Convenor is **Shogo Watanabe** from Japan and the Secretary is **Yuko Yasutake**.
The DIS2 ballot will end 2017-06-11.

WG 21: ISO/AWI 19880-4 *Gaseous hydrogen – Fueling stations – Part 4: Compressors*.
Convenor is **Karen Quackenbush** from United States.
They are preparing the CD.

WG 22: ISO/CD2 19880-5 *Gaseous hydrogen – Fueling stations – Part 5: Hoses*.
Convenor is **Karen Quackenbush** from the United States.
The CD2 Ballot closes 2017-07-07.

WG 23: ISO/AWI 19880-6 *Gaseous hydrogen – Fueling stations – Part 6: Fittings*.
Convenor is **Karen Quackenbush** from United States.
They are preparing the CD.

WG 24: ISO/CD2 19880-1 *Gaseous hydrogen – Fueling stations – Part 1: General Requirements*.
Co-Convenors are **Guy de Réals** (interim) from France, **Glenn Scheffler** from United States, with **Nick Hart** from U.K. as Secretary.
The TS was published in 2016 and a CD2 ballot is being held for preparation of the IS.
The CD2 ballot ends on 2017-06-02.

WG 25: ISO/DIS 16111 *Transportable gas storage devices – Hydrogen absorbed in reversible metal hydride*. This project is to revise the 2008 edition.
They are also developing the TR 16113 for metal hydride applications not covered in 16111.
Convenor is **Dominique Perreux** from France.
The DIS ballot will end on 2017-08-28.

WG 26: ISO/AWI 22734 *Hydrogen generators using water electrolysis process*.
This project is to combine and revise Parts 1 & 2 published in 2008 & 2011.
Convenor is **Larry Moulthrop** from the United States.
They are preparing for the CD Ballot.

WG 27: ISO/CD 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.
The CD ballot ended on 2017-05-13.

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 will end on 2017-09-11.

4. NWIPs and new WGs

At the 2015 plenary, there was a presentation from Norway on a possible NWIP for a standard on fueling stations sampling of gas impurities and particles. However, early in 2016 it was decided not have a NWIP for this topic at this time, but some work on this subject will be done within WG 24.

5. Liaisons and JWGs

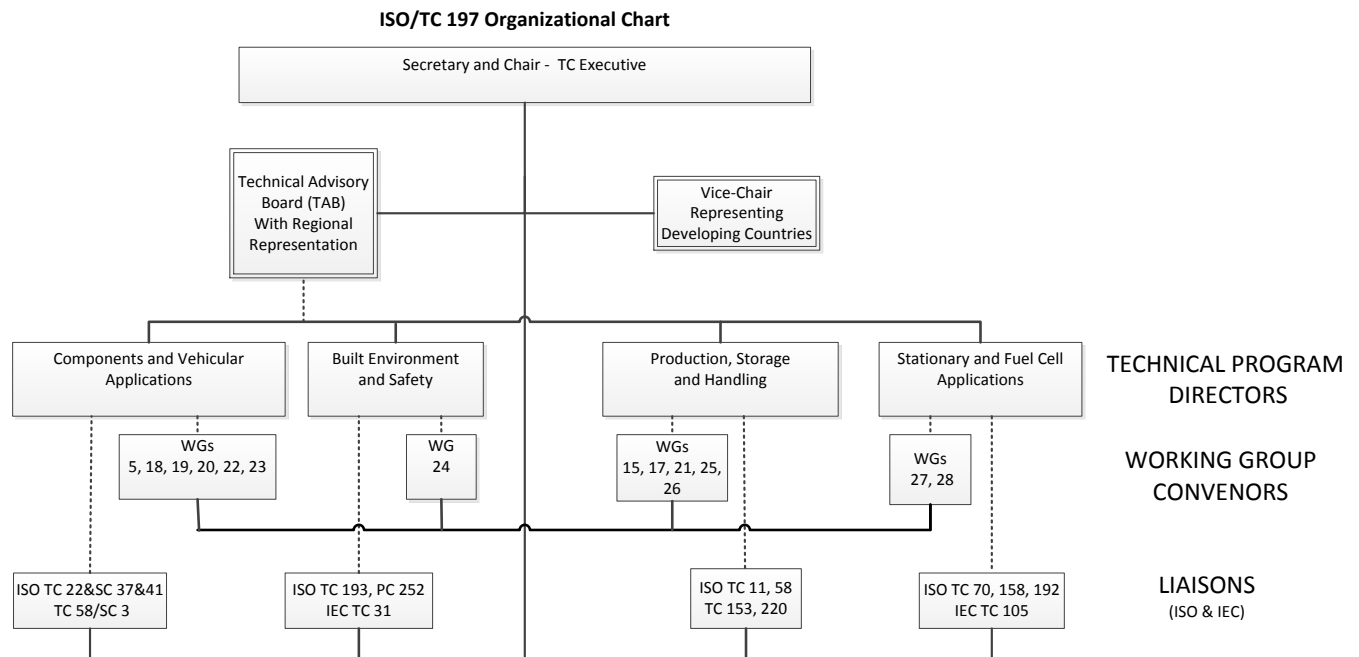
There is a Joint Working Group with ISO/TC 158/JWG 7 for ISO/AWI 21087 *Hydrogen fuel – Analytical methods – Proton exchange membrane (PEM) fuel cell applications for road vehicles*, with Martine Carré from France as the Convenor.

6. Recently Published Documents

ISO/TS 19880-1:2016 *Gaseous hydrogen – Fueling stations – Part 1: General Requirements*. The TS was prepared by WG 24 with Co-Convenors **Guy Dang-Nhu** from France and **Jesse Schneider** from United States, with **Nick Hart** from U.K. as Secretary.

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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