



ISO/TC 197
Hydrogen technologies

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TC 197 Liaison Report 2016-10-24

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Background: Here is an updated TC 197 liaison report, including the status of the working groups.

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Liaison Report from ISO/TC 197

2016-10-24

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 – **Kazuo Koseki**, MSc (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 took place on December 3-4, 2015, in Torrance, California, with a record 13 P-Members and over 70 participants. There were 12 Working Group meetings held during the three days prior to the TC plenary. ANSI helped in the organization of the meetings.

The 2016 plenary will be hosted by the European Commission Joint Research Center in the Netherlands, December 8th and 9th, with some WG meetings on Dec. 5th and 6th.

On December 7th, there will be an ISO-JRC Strategic Planning Meeting for **H2@Market: Multi-fueling stations and Power-to-large-scale-Hydrogen**.

The 2017 plenary meeting is planned for December 2017 in China.

3. Status of Technical Work

The following are the 14 active WGs in TC 197, including four new WGs started in 2015:

WG 5: ISO/AWI 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**. They will meet in December to finalize the preparation of the DIS.

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

Convenor is **Laurent Allidieres** from France. They will meet in December 2016 to treat the CD comments.

WG 17: ISO/DTS 19883 *Safety of pressure swing absorption systems for hydrogen separation and purification*. Convenor is **Yuahuan Gao** from China. The TS has been approved is now being edited for publication.

WG 18: ISO/CD 19881 *Gaseous hydrogen – Land vehicle fuel tanks* and ISO/CD 19882 *Gaseous hydrogen – Land vehicle fuel tanks – Thermally activated pressure relief devices*.

Convenor is **Livio Gambone** from Canada and the Secretary is **Sara Marxen**.

This is a joint working group with ISO/TC 58/SC 3, ISO/TC 22/SC 37 and ISO/TC 22/SC 41. They are finalizing the preparation of DIS 19881 and the DIS 19882 is being edited for Ballot.

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

Convenor is **Shogo Watanabe** from Japan and the Secretary is **Yuko Yasutake**. They will meet in October 2016 to treat the CD comments and prepare for the DIS Ballot.

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

Convenor is **Shogo Watanabe** from Japan and the Secretary is **Yuko Yasutake**. They will meet in October 2016 to treat the DIS comments and prepare a DIS2.

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

Convenor is **Karen Quackenbush** from United States. They will meet in Nov. to prepare the CD.

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

Convenor is **Karen Quackenbush** from the United States. The CD Ballot closes 2016-11-14 and they will meet in December to review the CD comments.

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

Convenor is **Karen Quackenbush** from United States. They met in July and are working on the CD.

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

Co-Convenors are **Guy de Réals** from France, who replaced Guy Dang-Nhu, and a soon to be named replacement for Jesse Schneider from United States, with **Nick Hart** from U.K. as Secretary. The TS was published and a CD ballot was held for preparation of the IS. They will meet Nov. 30th to Dec. 2nd to work on the treatment of the CD comments and the preparation of a CD2.

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

Convenor is **Dominique Perreux** from France. They met in October to treat the CD comments and prepare the DIS.

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 will meet in December 2016 to treat the WD comments and prepare for the CD Ballot.

WG 27: ISO/AWI 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** as Secretary for TG1 and **Yuko Yasutake** as Secretary for TG 2. They will meet in December.

WG 28: ISO/CD 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 United States. They are in the process of finalizing the DIS.

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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.

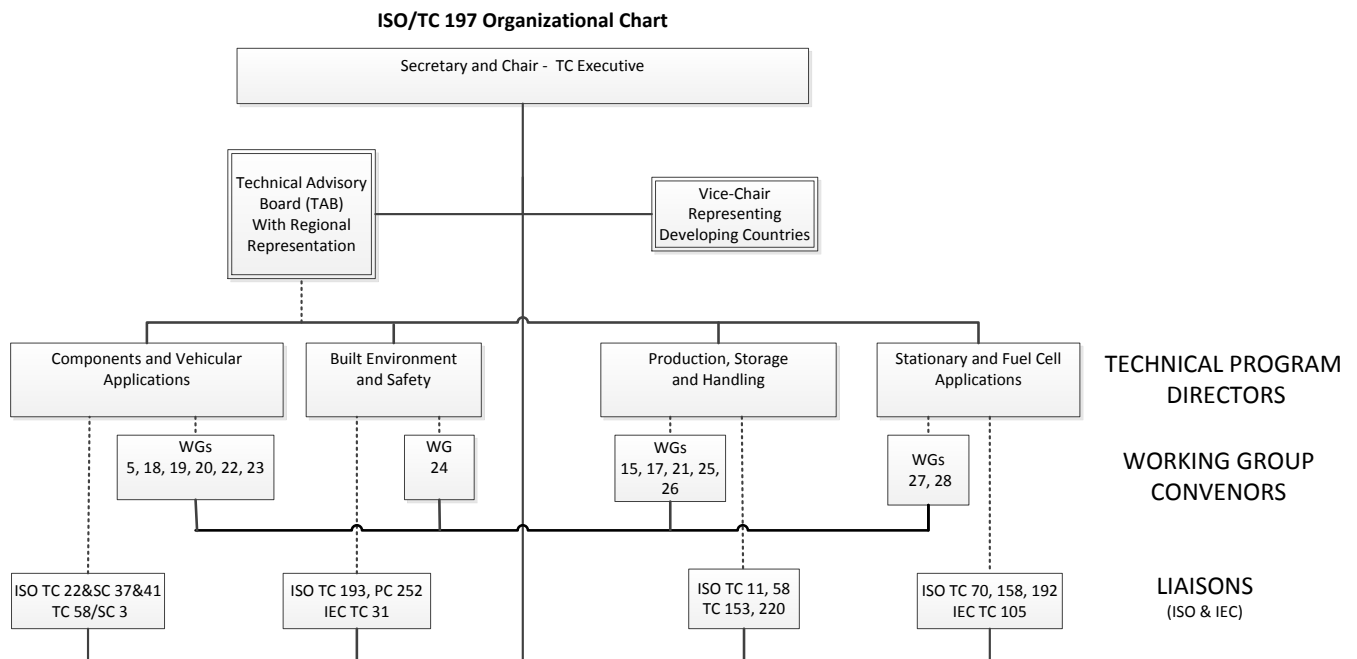
5. Liaisons

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. They will meet in December.

6. Recently Published Standards

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.

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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