



ISO/TC 197
Hydrogen technologies

Email of secretary: jim.ferrero@bnq.gc.ca
Secretariat: SCC (Canada)

ISO TC 220 report liaison for ISO TC 197

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« Cryogenic vessels»

ISO/TC 220

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Assistant:

Brigitte MORLAND

Direct line: + 33 (0)1 41 62 86 95

brigitte.morland@afnor.org

Your contact:

Laurie JARDEL

Direct line : + 33 (0)1 41 62 80 64

laurie.jardel@afnor.org

ISO/TC 220 Cryogenic vessels

2014 liaison report for the meeting of ISO/TC 197 Hydrogen technologies

1 Scope

Standardization in the field of insulated vessels (vacuum or non-vacuum) for the storage and the transport of refrigerated liquefied gases of class 2 of "Recommendations on the Transport of Dangerous Goods - Model regulations - of the United Nations", in particular concerning the design of the vessels and their safety accessories, gas / materials compatibility, insulation performance, the operational requirements of the equipment and accessories.

2 Structure and organization

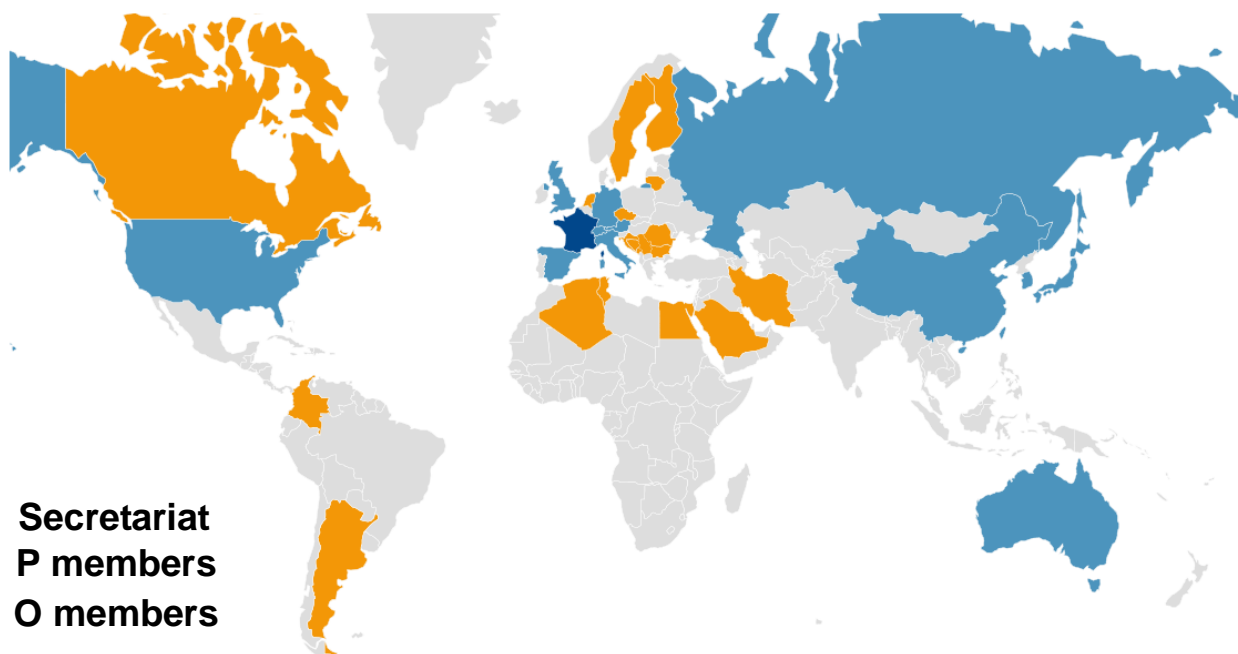
<u>ISO/TC 220 Chairman</u>	<u>ISO/TC 220 Secretariat</u>
Mr Hervé BARTHELEMY AIR LIQUIDE 75 Quai d'Orsay 75321 Paris Cedex 7 France	Ms Laurie JARDEL AFNOR 11 rue Francis de Pressensé 93571 Saint Denis La Plaine Cedex France
Telephone : +33 1 40 62 55 01 herve.barthelemy@airliquide.com	Telephone : +33 1 41 62 80 64 laurie.jardel@fnor.org

ISO/TC 220 Working Groups:

- **Working Group 1:** Cryogenic vessels - Design and construction
Convenor: Mr Hervé BARTHÉLÉMY (France)
Title: Cryogenic vessels - Design and construction
- **Working Group 2:** Cryogenic vessels - Operational requirements
Convenor: Mr Wolfgang OTTE (Germany)
Title: Cryogenic vessels - Operational requirements
- **Working Group 3:** Cryogenic vessels - Supporting standards
Convenor: Mr Alex VARGHESE (USA)

Title: Cryogenic vessels - Supporting standards

3 Participation table



4 Liaison

5.1 Internal Liaison Organization (7)

○ ISO/TC 11	Boilure and pressure vessels	Reverse liaison
○ ISO/TC 22/SC 25	Vehicles using gaseous fuels	Reverse liaison
○ ISO/TC 121	Anaesthetic and respiratory equipment	From ISO/TC 121
○ ISO/TC 153/SC 1	Valves – design, manufacture, marking and testing	From ISO/TC 153/SC 1
○ ISO/TC 185	Safety devices for protection against excessive pressure	Reverse
○ ISO/TC 197	Hydrogen technologies	Reverse
○ ISO/TC 252	Project committee: natural gas fuelling stations for vehicles	Reverse

5.2 External Liaison Organization (3)

- EIGA – European Industrial Gases Association
- IANGV – International Association for Natural Gas Vehicles
- MEGA – Middle East Gases Association

5 Meeting calendar

Last meeting: June 2014 in Berlin (Germany)

Next meeting: June 2015 in Beijing (China)

6 Activities of ISO/TC 220

6.1 Work item under study

Reference	Document title	Current stage	Committee
ISO/DIS 20421-2	Cryogenic vessels -- Large transportable vacuum-insulated vessels -- Part 2: Operational requirements	40.99	ISO/TC 220/WG 2
ISO/DIS 21009-2	Cryogenic vessels -- Static vacuum insulated vessels -- Part 2: Operational requirements	40.99	ISO/TC 220/WG 2
ISO/NP 21012	Cryogenic vessels -- Hoses	10.99	ISO/TC 220/WG 3
ISO/DIS 21013-3	Cryogenic vessels -- Pressure-relief accessories for cryogenic service -- Part 3: Sizing and capacity determination	30.20 (Start date: 2014-10-16 End date: 2015-03-17)	ISO/TC 220/WG 3
ISO/DIS 21028-1	Cryogenic vessels -- Toughness requirements for materials at cryogenic temperature -- Part 1: Temperatures below -80 degrees C	40.00	ISO/TC 220/WG 1
ISO/DIS 21028-2	Cryogenic vessels -- Toughness requirements for materials at cryogenic temperature -- Part 2: Temperatures between -80 degrees C and -20 degrees C	40.00	ISO/TC 220/WG 1
ISO/CD 21029-1	Cryogenic vessels -- Transportable vacuum insulated vessels of not more than 1 000 litres volume -- Part 1: Design, fabrication, inspection and tests	30.99	ISO/TC 220/WG 1
ISO/FDIS 21029-2.2	Cryogenic vessels -- Transportable vacuum insulated vessels of not more than 1 000 litres volume -- Part 2: Operational requirements	50.00	ISO/TC 220/WG 2
ISO/CD 24490	Cryogenic vessels -- Pumps for cryogenic service	30.99	ISO/TC 220/WG 2
ISO/NP 23208	Cryogenic vessels -- Cleanliness for cryogenic service	10.99	ISO/TC 220/WG 2

6.2 Work item under systematic review in 2014

Identification	Title	Current stage	Allocated to WG
ISO 20421-1:2006	Cryogenic vessels -- Large transportable vacuum-insulated vessels -- Part 1: Design, fabrication, inspection and testing	90.93	1
ISO 21014:2006	Cryogenic vessels -- Cryogenic insulation performance	90.93	3