

3 September 2003, Grenoble, France
Round table
«Daily use of hydrogen: safety, codes and regulations»

ISO/TC 197 activities

Prepared by:

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Chairman of ISO/TC 197



26
YEARS

CCS Introduction

- Codes & Standards Experts Assisting Industry and Government since 1977
 - Standards development and compliance
 - Focus on Hydrogen, Fuel Cells and Alternate Fuels
 - Chair ISO/TC 197 –Hydrogen technologies
 - Convenor WG8 – Hydrogen Generators
 - Chair BNQ TC Hydrogen Installation Code
 - Vice-Chair CSC IEC/TC 105 –Fuel Cell Technologies
 - Chair CSA Technical Committee on Fuel Cell Technologies
 - Canadian National Committee of ISO – Chair



26
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ISO/TC 197

Hydrogen technologies

- Scope: Standardization in the field of systems and devices for the production, storage, transport, measurement and use of hydrogen

Structure of ISO/TC 197

- Chairman: Randy Dey,
The CCS Global Group Inc.
- Secretariat: Sylvie Gingras,
Bureau de normalisation du
Québec (BNQ) on behalf of the
Standards Council of Canada

ISO/TC 197 Membership

- **17 participating countries**

- Argentina, Australia, Belgium, Canada, Egypt, France, Germany, Italy, Japan, Libya, the Netherlands, Norway, the Republic of Korea, the Russian Federation, Sweden, Switzerland and the United States of America

- **12 observer countries**

- Austria, China, the Czech Republic, Hungary, India, Jamaica, Serbia and Montenegro, Spain, Thailand, Turkey, Ukraine, and the United Kingdom



26
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ISO/TC 197 Published International Standards

- **ISO 13984: 1999**

Liquid hydrogen – Land vehicle
fuelling system interface

- **ISO 14687:1999/Cor. 2001**

Hydrogen fuel – Product specification

ISO/TC 197 Working groups that have completed their work Documents to be published

- **WG 4**

Airport hydrogen fuelling facility
(ISO/PAS 15594)

- **WG 7**

Basic considerations for the safety
of hydrogen systems
(ISO/TR 15916)

ISO/TC 197 Active working groups

•WG 1

- Liquid hydrogen – Land vehicle fuel tanks (ISO/DIS 13985)
- Convener: Robert D. Hay

Status: The harmonization with the draft UN ECE regulation on liquid hydrogen road vehicles is completed. Third DIS is to be circulated in September 2003

ISO/TC 197 Active working groups

- **Joint ISO/TC 22 and ISO/TC 197 WG 5**
 - Gaseous hydrogen – Land vehicle filling connectors (ISO/WD 17268)
 - Convener: Livio Gambone

Status: ISO/TC 197 has recently received the authorization to use the SAE J2600 as the basis for the completion of the work. Meeting held on 2-3 September 2003 in Grenoble.

ISO/TC 197 Active working groups

- **Joint ISO/TC 58/SC3 and ISO/TC 197 WG 6**
 - Gaseous hydrogen and hydrogen blends – Land vehicle fuel tanks (ISO/CD 15869, five part standard)
 - Convener: Craig Webster

Status: The harmonization with the draft UN ECE regulation on gaseous hydrogen road vehicles is completed. First DIS is to be circulated in October 2003.

ISO/TC 197 Active working groups

•WG 8

- Hydrogen generators using water electrolysis process (ISO/WD 22734)
- Convener: Randy Dey

Status: Last meeting on 14-15 July in Brussels, Belgium. CD expected August/September 2003.

ISO/TC 197 Active working groups

•WG 9

- Hydrogen generators using fuel processing technologies (ISO/WD 16110)
- Convener: Mario Sandoval

Status: First meeting on 14-16 April 2003, Amsterdam. CD expected in December 2003.

ISO/TC 197 Active working groups

•WG 10

- Transportable gas storage devices – Hydrogen absorbed in reversible metal hydrides (ISO/WD 16111)
- Convener: Ned Stetson

Status: Third meeting on 2-3 September 2003 in Grenoble. CD expected in the first quarter of 2004

International Cooperation

