



ISO/TC 197 **N 571**

2013-01-15

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Introduction to EIGA Presentation

information to P-members, O-members and liaisons

to be discussed at the ISO/TC 197 plenary meeting under item 10.2 of the draft agenda (**N 561 R1**)

Dear members,

Please find attached the presentation of the European Industrial Gases Association (EIGA), who applied for Category A liaison with ISO/TC 197, in preparation for our upcoming ISO/TC 197 plenary meeting.

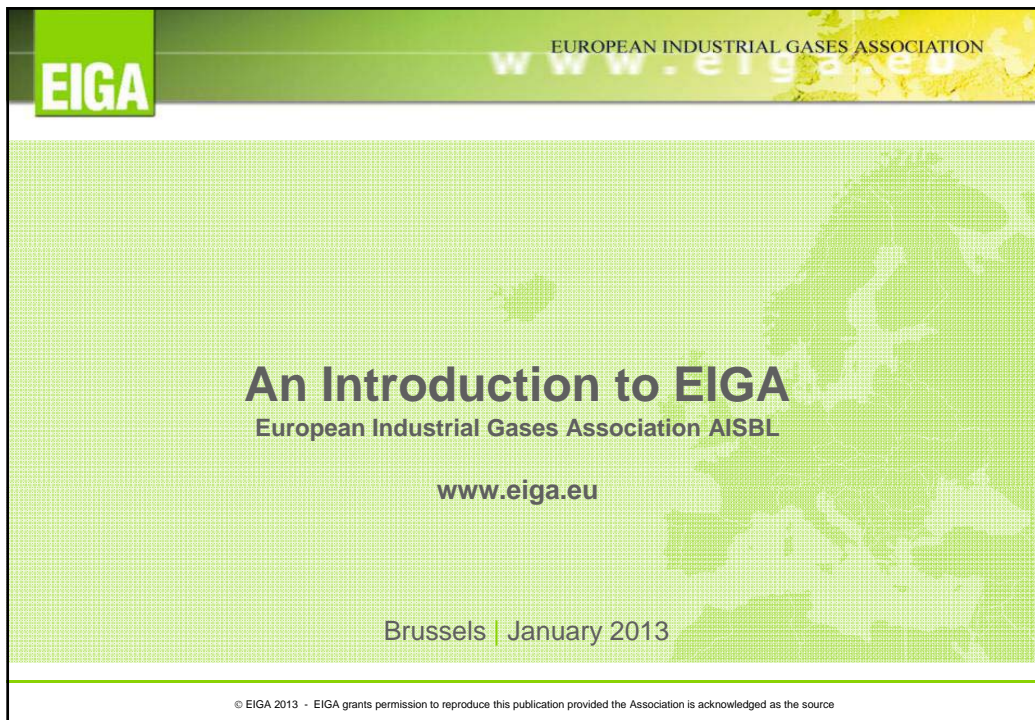
Yours sincerely,

Jim Ferrero, Secretary of ISO/TC197
Bureau de normalisation du Québec
on behalf of the Standards Council of Canada

Address reply to:



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EIGA EUROPEAN INDUSTRIAL GASES ASSOCIATION
www.eiga.eu

Supply to Industry

EIGA members supply to many markets:

- » Petrochemical industry – supplies of bulk oxygen and hydrogen to reduce emissions and improve yields. Supplies of nitrogen to provide a safe operating environment within the process
- » Steel industry – oxygen and argon to improve the quality (and reduce cost) of steel; hydrogen for heat treatment; gases for all types of fabrication
- » Environmental markets – hydrogen, to provide the clean fuel of the future; oxygen, for water treatment to improve the quality of the water we consume
- » Electronics industry – supplies of ultra-high quality gases for reliable and consistent production of microchips



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Production

- » Air gases (oxygen, nitrogen and argon) are mostly produced at cryogenic temperature in 'Air Separation Units' (ASUs)
- » Chemical synthesis processes are used for gases such as hydrogen, carbon monoxide and nitrous oxide
- » Pressure swing adsorption or membranes can be used to generate gases on site at the customers location



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Supply by bulk and pipeline

- » Industrial and medical gases are delivered in bulk by road, rail or sea transport
- » Large volume customers are supplied by pipelines - in Europe in total 7,200 km
- » Special cryogenic road tankers, rail wagons or containers are used to deliver liquefied gases into tanks located at the customers' sites

Supply by cylinders

- » Smaller quantities of gases are supplied in gas or liquid cylinders
- » Around 35 million cylinders are in circulation
- » The European industrial gases industry operates 11,000 delivery vehicles, covering 550 million kilometres per year



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Mission statement

EIGA shall ...

- » maintain the highest standards of safety and concern for the environment at work and in the community
- » provide Authorities and Standardisation Bodies with expert advice on production, transport, storage and applications of industrial, medical and food gases
- » promote consistency of safety, health, environmental and technical standards throughout the gas industry

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EIGA Working Group – Hydrogen Energy

- » The introduction of hydrogen as an alternative energy vector raises novel safety challenges due to the operating environment, conditions, and constraints of this application, and involves many actors outside of the industrial gases industry. The objectives of EIGA's WG Hydrogen Energy are:
 - » To contribute to the joint development of best practices and harmonized requirements, for input to international standards (ISO) in the hydrogen energy sector.
 - » To monitor and influence proposed regulations in the field of alternative fuels for all hydrogen energy applications where EIGA members are involved.

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Key Focus Areas

Safety & Quality	Legislation
Harmonisation	Standards

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Key Focus - Standards

Standards	<ul style="list-style-type: none">» European Pharmacopeia» CEN TC 23 and ISO TC 58 Cylinders» CEN TC 268 and ISO TC 220 Cryogenic vessels» CEN TC 215 and ISO TC 121 Anaesthetic and respiratory equipment» ISO TC 197 Hydrogen
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Support to Authorities and Standardisation Bodies

- » EIGA provides Authorities (EU, UN, EMEA) with expert advice in the preparation of laws and regulations concerning gases and pressure equipment
- » EIGA also initiates the development of appropriate standards and provides Standardisation Bodies (ISO,CEN, EDQM) with technical expertise



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