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# Winter Seminar 2020

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29 and 30 January 2020

Programme

A photograph of an industrial gas production and filling plant at dusk. The scene is illuminated by warm yellow lights, highlighting a tall distillation column with a complex metal framework and several large cylindrical storage tanks. The sky is a deep blue with some clouds.

# Lessons Learned in Production and Filling Plants

European Industrial Gases Association

## Practical Information

Full registration package will be available on [www.eiga.eu](http://www.eiga.eu) by mid-October 2019

For practical information relating to arrangements for the Seminar, please contact our organising partner:

### **Destrée Organisation**

Tel: +32 2 512 44 42

Contact persons : Catherine Dierckens, Vincent Bruscia

E-mail: [eiga@destree.be](mailto:eiga@destree.be)

### **European Industrial Gases Association AISBL**

Tel: +32 2 217 70 98

E-mail: [info@eiga.eu](mailto:info@eiga.eu)

Website: [www.eiga.eu](http://www.eiga.eu)

### **Seminar Venue : Le Plaza Hotel**

Boulevard Adolphe Maxlaan 118-126 - B-1000 Brussels

Tel: +32 2 278 01 00

Website: [www.leplaza.be](http://www.leplaza.be)



## Lessons Learned in Production and Filling Plants

The industrial gases industry has a very good safety performance and continuous learning from incidents is essential to this. For that reason, EIGA tracks incident statistics and incidents details, and extract information to share with its membership. Dedicated Working Groups cover all topics of industrial and medical gases, and how to produce, store, transport and use these safely. An impressive library of publications further supports this. And during our yearly Safety Awards Dinner, exceptional safety achievements are rewarded.

However, accidents still happen. Why? How can we further improve?

This is where this edition of the Winter Seminar is for. The Winter Seminar 2020 will:

- Address lessons learned from significant industry incidents
- Provide insight to key safeguards in today's design and operation
- Cover technical, organisational and human factors
- Share best practices around "lessons learned"
- Explore the benefits and risks of new technologies to improve safety
- Help keep corporate memory alive to prevent re-occurrence

Prior to the Winter Seminar, a hands-on training is organised on Root Cause Analyses. This will be detailed in a separate programme.

### Who should attend?

Safety, health, and environmental personnel, senior leaders, specialists and engineers.

Experienced people and those new to the industry.

Representatives of industrial gas associations, equipment manufacturers and suppliers, consultants, competent authorities, customers and business partners.

Personnel working in healthcare functions in our industry, including operations, engineering, supply chain, quality and regulatory functions. Both those recently recruited to the industry and those with more experience should benefit from attendance.

Senior managers from our industry including general management, technical, supply chain, sales and marketing functions.

***EIGA Seminars always act as an important forum for the exchange of knowledge between EIGA members and industry stakeholders such that best practices in safety and the environment can be widely implemented.***

## Programme at a Glance

Wednesday 29 January 2020	
08:00 – 08:45	Registration and Welcome Coffee
08:45 – 09:00	Introduction
09:00 – 10:20	Session 1: Severe Accidents in Our Industry
10:20 – 10:50	Break
10:50 – 12:20	Session 2: Incidents related to Carbon Dioxide, Oxygen and Cold Embrittlement
12:20 – 13:50	Networking Lunch
13:50 – 15:20	Session 3: Fires and Perlite Release
15:20 – 15:50	Break
15:50 – 17:20	Session 4: More Incidents with Cylinders, Forklifts and Electrical Stations
19:30 – 22:00	Seminar Dinner
Thursday 30 January 2020	
08:00 – 08:30	Welcome coffee
08:30 – 10:00	Session 5: Good Practices
10:00 – 10:30	Break
10:30 – 12:00	Session 6: Initiatives to Go Further
12:00 – 13:30	Networking Lunch
13:30 – 15:10	Session 7: Future Challenges and Opportunities
15:10 – 15:20	Closing Review
15:20	Seminar Close

### Detailed Programme

**Wednesday 29 January 2020**

<b>08:00</b>		<b>Registration and Welcome Coffee</b>	
08:45	0.1	Administration	Philippe Cornille, General Secretary
08:47	0.2	Opening Remarks	Ivo Bols, EIGA President
08:57	0.3	Introduction to the Seminar Programme	Philippe Gautier, Air Liquide SOC Chair (Seminar Organising Committee)
<b>Session 1</b>		<b>Severe Accidents in Our Industry</b>	<i>Moderator: Bernd Stöckl, Linde</i>
09:00	1.1	Accidents in the Industrial Gas Industry	Martin Snape, Air Products, SAC Chair (Safety Advisory Council)
09:10	1.2	Safe Operation of ASU Reboilers	Pierre Petit, Air Liquide
09:30	1.3	Flat Bottom Tank Catastrophic Failure	Rebecca Halls, Air Products
09:50	1.4	Hazardous Events Related to Oxygen Deficiency	Nikos Larass, Linde
10:10		Q&A	
<b>10:20</b>		<b>Coffee Break</b>	
<b>Session 2</b>		<b>Incidents related to Carbon Dioxide, Oxygen and Cold Embrittlement</b>	<i>Moderator: Andrea Torretta, SOL Group</i>
10:50	2.1	Carbon Dioxide - Not a Simple Asphyxiant	Aleksandra Jastrzębska, Messer Group
11:10	2.2	Protection of Pressure Equipment against Cold Embrittlement	Pierre Petit, Air Liquide
11:30	2.3	Incidents Involving Liquid Oxygen Pumps	Frédérique Cortial, Linde
11:50	2.4	Oxygen Compressor Failures	Kulwant Birdi, Air Products
12:10		Q&A	
<b>12:20</b>		<b>Lunch</b>	
<b>Session 3</b>		<b>Fires and Perlite Release</b>	<i>Moderator: Danilo Ritlop, Messer Group</i>
13:50	3.1	Oxygen Fire in a Filling Plant	Francisco Saavedra, Messer Group
14:10	3.2	Relief Valve and Oxygen Valve Station Fires	Lars Kirchner, Linde
14:30	3.3	Fire in Acetylene Production	Rudy Goossens, Messer Group
14:50	3.4	Perlite Incidents in ASU Cold Boxes	Michele Castelli, SOL Group
15:10		Q&A	
<b>15:20</b>		<b>Coffee Break</b>	
<b>Session 4</b>		<b>More Incidents with Cylinders, Forklifts and Electrical Stations</b>	<i>Moderator: Stefano Varisco, SIAD</i>
15:50	4.1	Cylinder Rupture by Stress Corrosion	Victor Rodriguez Perales, Nippon Gases Europe
16:10	4.2	Cylinder Burst by Material-Gas Incompatibility	Giorgio Bissolotti, SIAD
16:30	4.3	Incidents with Forklifts	Alexander Brandes, Nippon Gases Europe
16:50	4.4	Ignition of a Capacitor Bank in an ASU Electrical Substation	Francesco Sgobio, SIAD
17:10		Q&A	
<b>17:20</b>		<b>End of Day 1</b>	

#### Thursday 30 January 2020

<b>08:00</b>		<b>Welcome Coffee</b>		
<b>Session 5</b>		<b>Good Practices</b>		<i>Moderator: Benny Van Hooydonck, Nippon Gases Europe</i>
08:30	5.1	A Working Strategy to Make Construction Sites Safer	Luc Van Landeghem, Nippon Gases Europe	
08:50	5.2	Accident / Incident Investigation	Eric Freiburger, Linde	
09:10	5.3	Managing Safety Concerns through Computerised Maintenance System	Jesus Gallego, Nippon Gases Europe	
09:30	5.4	Hydrogen Explosion and Safe Systems of Work	Klaus Tech, Linde	
09:50		Q&A		
<b>10:00</b>		<b>Coffee Break</b>		
<b>Session 6</b>		<b>Initiatives to Go Further</b>		<i>Moderator: Rebecca Halls, Air Products</i>
10:30	6.1	Pipeline Major Failure Incident: from Failure to Industrial Programme	Sophie Wastiaux, Air Liquide	
10:50	6.2	Safety Leadership	Christine Bécard, Air Liquide	
11:10	6.3	A Simple and Effective Approach to Manage Major Industrial Risks	Madalina Balalau, Air Liquide	
11:30	6.4	Augmented Reality in Permit to Work	Manolis Koutsourelakis, Linde	
11:50		Q&A		
<b>12:00</b>		<b>Lunch</b>		
<b>Session 7</b>		<b>Future Challenges and Opportunities</b>		<i>Moderator: Bernd Stöckl, Linde</i>
13:30	7.1	Technological Evolution of Centrifugal High Pressure Oxygen Pumps	Cyril Defaye, Air Liquide	
13:50	7.2	Safety Enhancement with Cylinder Filling and Handling Automation	Robert Wark, Linde	
14:10	7.3	Cybersecurity of Operational Technology Systems	Didier Appell, CapGemini	
14:40	7.4	Artificial Intelligence in an Industrial Gas Company	Dexin Luo, Linde	
15:00		Q&A		
15:10		Closing Review	Philippe Gautier, Air Liquide SOC Chair (Seminar Organising Committee)	
<b>15:20</b>		<b>End of Day 2</b>		

For further information about the Seminar Programme, please contact the EIGA Brussels office or one of the following Seminar Organising Committee Members (SOC):

Philippe Gautier	Air Liquide
Rebecca Halls	Air Products
Danilo Ritlop	Messer Group
Bernd Stöckl	Linde
Andrea Torretta	SOL
Benny Van Hooydonck	Nippon Gases Europe