

**HOSTED BY  
CGA & GAWDA**

# **2022 YOUNG & EMERGING PROFESSIONALS SUMMIT**

**JUNE 21 - JULY 21, 2022  
TUESDAYS & THURSDAYS**

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**WELDCOA**

# WELCOME

Hosted by the Compressed Gas Association (CGA) and the Gases and Welding Distributors Association (GAWDA), the Young & Emerging Professionals Summit provides a forum to learn from subject matter experts, deepen their understanding of the industry, and review lessons learned that have driven changes to best practices.

**Join us in 2022 as we follow the molecule from air gas production to end use.** This year's 8-webinar series will include a mix of overviews, technical deep dives, and panel discussions. The Summit is open to all CGA members and GAWDA distributor members who are participating in the CGA subscription program. Attendees at all levels of industry experience are welcome!

## **FOR MORE INFORMATION:**

<https://www.cganet.com/event/young-emerging-professionals-summit-2022/>

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# SESSION 1

**TUESDAY, JUNE 21  
11:30AM-1:30PM (EASTERN)**

**WELCOME & OPENING REMARKS**

**PRESENTATION: AIR SEPARATION OVERVIEW**

**Anu George**

Plant Engineer | Air Separation Unit  
American Air Liquide Holdings, Inc.

This presentation will provide a high-level overview of atmospheric gas production and related equipment for the five main stages of air separation: ambient air filtration, compression, purification, cooling, and distillation. Attendees will also learn about common hazards present at an ASU and the mitigation methods used to address them. Additionally, the presenter will share their experience related to the commissioning and startup of a new ASU facility.

**PANEL DISCUSSION: INTEGRATING AI &  
SMART TECHNOLOGY IN ASU PROCESSES**

**Sam Agle**

Vice President of Production - US & Canada  
Messer Americas

**Manolis Koutsourelakis**

Head of Productivity, Region Europe East &  
Operations Managers, Greece & Cyprus  
Linde Hellas

**Patrick Meyer**

Manager, Real Time Operations  
American Air Liquide Holdings, Inc.

# SESSION 2

**THURSDAY, JUNE 23  
11:30AM-1:00PM (EASTERN)**

## **PRESENTATION: BRAZED ALUMINUM HEAT EXCHANGERS**

**Mehraud Razzaghi**  
Sales Application Engineer  
Chart Industries, Inc.

This presentation will provide an overview of brazed aluminum heat exchangers (BAHXs) used in high-pressure oxygen processes. Participants will learn about related hazards, design considerations, and lessons learned from the production and operation of BAHXs for air separation plants.

## **CASE STUDY: ARGON SYSTEM TROUBLESHOOTING - A DISCUSSION ON TROUBLESHOOTING PROCESSES AND LESSONS LEARNED**

**Kate O'Handly**  
Engineer, Bulk Reliability  
Matheson

This presentation will provide a review of the troubleshooting process used to diagnose issues with the argon systems at two separate facilities. Participants will learn about the development of initial theories, testing, and analysis processes used to troubleshoot these issues and identify corrective actions.

# SESSION 3

**TUESDAY, JUNE 28  
11:30AM-1:00PM (EASTERN)**

## **PRESENTATION: ASU COMPRESSION SYSTEMS**

### **Cherri Scholz**

LASU/VLASU Product Line Machinery SPOC  
Air Products & Chemicals, Inc.

This presentation will provide an overview of internal and external compression systems, including a description of compressor types, physical concepts, characteristics, and applications. The session will also address compressor surge control, common issues and troubleshooting, vibration monitoring, and maintenance best practices.

## **PRESENTATION: VALVES USED IN LOX AND COLD GOX SYSTEMS**

### **Sebastian Joswig**

Chairman of LE Oxygen Steering Group  
Linde Engineering

This presentation will provide a brief overview of the incidents that led to the development of CGA G-4.14, followed by a discussion of the topics contained within CGA G-4.14, including isolation valves, control valves, check valves, pressure relief valves, drain, and vent valves in air separation units (ASUs), their backup and storage piping system, and customer station bulk storage tank systems. It addresses the design, material selection, manufacturing, cleaning, installation, operation, and maintenance of oxygen service valves operating at temperatures below  $-30^{\circ}\text{C}$ .

# SESSION 4

**THURSDAY, JUNE 30  
11:30AM-1:00PM (EASTERN)**

## **PRESENTATION: PREVENTION OF BRITTLE FRACTURE OF EQUIPMENT & PIPING**

**Adam Renaldo**

Senior Mechanical Engineer  
Linde PLC

This presentation will identify the hazards associated with cryogenic liquid vaporization systems and recommend safe practices for preventing brittle fracture in piping and associated equipment. The presentation will also cover lessons learned from previous incidents.

## **CASE STUDY: RECENT AIR SEPARATION FACILITY INCIDENTS & LESSONS LEARNED**

**John Bernard**

Consultant  
Compressed Gas Association, Inc.

This presentation will provide an overview of the 2019 Yima City Gasification Plant Incident and the 2021 Wanteng Steel Flat Bottom Tank Failure that were reviewed by CGA and EIGA joint task force members. The presentation will include a summary of observations, learnings, and implications for industry practices from each incident.

# SESSION 5

**TUESDAY, JULY 12  
11:30AM-1:00PM (EASTERN)**

**PRESENTATION: INDUSTRIAL AND MEDICAL  
GASES - SIMILARITIES, DIFFERENCES, AND  
UNIQUE CONSIDERATIONS**

**John Willenbrock**  
Technical Manager  
Compressed Gas Association, Inc.

This presentation will provide an overview of the similarities and differences between industrial and medical gas filling and distribution and the impact of FDA and state regulations on those operations. The presenter will briefly discuss the differences in bulk operations, primarily the requirements for validation, and the more extensive differences and uniqueness in packaged gas operations, such as labeling and good manufacturing practices, especially as it relates to training, testing, and documentation.

**PANEL DISCUSSION:  
LESSONS LEARNED FROM COVID-19**

**Heather Albright**  
Quality Assurance Supervisor  
Linde PLC

**Will Roberts**  
President  
Roberts Oxygen Company, Inc.

**Dan Morgan**  
Director, Food & Beverage  
Segment  
Messer North America, Inc.

**John Willenbrock**  
Technical Manager  
Compressed Gas Association, Inc.

# SESSION 6

**THURSDAY, JULY 14  
11:30AM-1:00PM (EASTERN)**

**PRESENTATION: CYLINDER FILL PLANTS -  
MANUAL VS. AUTOMATED, LINEAR VS. PALLETIZED**

**Kevin Klotz**

Field Technician & Customer Support Specialist  
Weldcoa

In this presentation we will dive into understanding differences in operating procedures as it pertains to manual and automated systems, as well as taking some time to understand the benefits and drawbacks to both a linear style fill manifold as well as a palletized filling manifold.

**PRESENTATION: CYLINDER PREFILL  
INSPECTIONS & WHY SHORTCUTS DON'T WORK**

**Patrick Galphin**

Director, Facilities and Project Management  
nexAir LLC

This presentation will provide an overview of cylinder prefill inspection requirements including preparation of cylinders for inspection, exterior inspection, interior inspection (if required), what kind of damage to look for, and tests to be performed. The presentation will also discuss potential outcomes that can occur if damaged cylinders are returned to service.



# SESSION 7

**TUESDAY, JULY 19  
11:30AM-1:00PM (EASTERN)**

## **PRESENTATION: TRANSPORTATION EMERGENCY RESPONSE**

**Bill Erny**  
Director  
Chemtrec

This presentation will provide an introduction to CHEMTREC and hazmat emergency response. CHEMTREC operates a 24/7/365 emergency call center that provides incident response information to first responders during a hazmat incident.

## **PANEL DISCUSSION: COMBATING THE CDL DRIVER SHORTAGE - A DISCUSSION ON RECRUITMENT, SAFETY CULTURE, AND ADVANCED TECHNOLOGIES**

**John Anderson**  
Director of DOT Compliance  
Airgas, an Air Liquide company

**Steve Thompson**  
Director of Transportation  
Western International Gas &  
Cylinders, Inc.

**Anne Hayes**  
Vice President &  
Corporate Counsel  
Indiana Oxygen Company

# SESSION 8

**THURSDAY, JULY 21  
11:30AM-1:30PM (EASTERN)**

**CASE STUDIES & PANEL DISCUSSION:  
EMERGING CUSTOMER APPLICATIONS & OUR  
ROLE AS INDUSTRY STEWARDS**

**Melissa Heard**  
Director of Marketing  
Weldcoa

**Additional Presenters to be Announced**

This session will feature mini-presentations with an overview of a unique customer application and the unique considerations for safe use of industry products and equipment in those applications. Following the presentations, we will move into a panel session to discuss the industry's role in good product stewardship and how that impacts our role in customer education.

**THE ROLE OF YOUNG & EMERGING  
PROFESSIONALS IN THE FUTURE OF  
OUR INDUSTRY**

**CLOSING REMARKS**

# JOIN US



Open to CGA Members and GAWDA Distributor Members who are participating in the CGA Publication Subscription Program.



Registration Fee  
\$15 per session or \$50 for all sessions. When purchasing 4 or more sessions, use discount code **22YPS50** on the payment page.



Registration will close 48 hours prior to each session.

**REGISTER NOW:**  
<https://cvent.me/58GX2D>

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