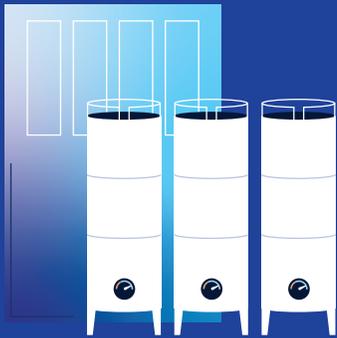


2021 YEAR IN REVIEW

Addressing New Priorities

Bringing Focus to Hydrogen Safety



INITIATED

"Safety is Step One" hydrogen communications campaign to ensure that safety is at the forefront of conversations around emerging hydrogen applications

ACCELERATED

hydrogen standards development to address unique safety considerations related to hydrogen production, delivery, and facility design for fueling stations

ESTABLISHED

relationships with key hydrogen stakeholders, including the California Fuel Cell Partnership (CaFCP), the Fuel Cell & Hydrogen Energy Association (FCHEA), and others

Shared CGA's hydrogen safety message with new audiences, including a presentation introducing CGA's safety vision at the American Hydrogen Forum. The Board approved 2022 funding for a significant expansion for this work

2022



Advocating for Our Industry



Formally expanded our role as an advocate for the industry, allowing us to address issues that impact CGA member companies and other key stakeholders

Continued to build on our role as a credible voice on industry issues resulting in meetings with the White House, members of the U.S. Congress, Department of the Interior, Federal Emergency Management Agency (FEMA), Department of Transportation (DOT), Occupational Safety and Health Administration (OSHA), Food and Drug Administration (FDA), as well as Transport Canada and Health Canada to educate on a wide array of industry issues, including:

- ✓ Separate regulations for medical gases
- ✓ Safe and reliable supply of helium
- ✓ Designation of industry drivers as essential workers
- ✓ Carbon dioxide supply concerns
- ✓ Exemption of truck drivers from vaccine mandate
- ✓ Enforcement discretion for cylinder requalifications
- ✓ Medical oxygen availability
- ✓ Authorization of expanded driver hours

Leading the Response to COVID-19



Coordinated with members and external stakeholders to respond to surging demands for medical oxygen



Met with the White House to discuss impacts of vaccine mandates on our industry

Worked extensively with FEMA to evaluate actions necessary to ensure the availability of medical gases needed to support COVID-19 patient care

Surveyed members and shared results to benchmark the industry's best practices for COVID-19 mitigation efforts

Promoting Awareness and Use of CGA Publications in New Regions

Developed a strategy to increase awareness and use of CGA publications in Mexico, Central America, and South America

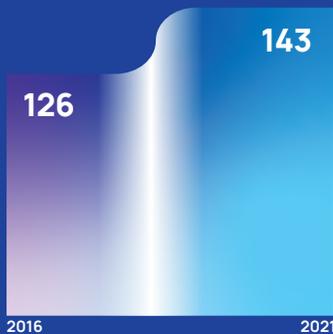


Completed initial translations of selected CGA publications and safety posters into Spanish and Portuguese to support regional use

Identified key standards organizations in Mexico, Guatemala, Chile, and Columbia that CGA can partner with to share our resources

Growing our Membership

Total Members



CGA's member growth and retention continue to exceed national benchmarks for standards development organizations, demonstrating a high rate of satisfaction and a strong commitment to continuous improvement of industry safety

13
new members joining to access CGA resources and support standards development

93%
of eligible members renewed in 2021, reaffirming their support of CGA's safety mission

7,365
member employees registered for access to CGA's publications, training materials, and events



Advancing Critical Safety Work

27 
committees addressing our industry's top priorities

228
voting member employees working together to identify new learnings and best practices

674
meetings held to advance progress on publications, petition development, and more

Publication library growth



Setting the Standard for Safety

ACHIEVED OVER
\$1,000,000
in publication sales for the first time in CGA's history, a 37% increase over our 6-year average

372 total publications in CGA's library offering a wealth of technical and safety information developed by our industry's leading subject matter experts

Gases and Welding Distributors Association (GAWDA) subscription program grew to a record 101 subscribers, providing access to CGA's publications, eLearning modules, and more to 750+ GAWDA distributor facilities in the U.S. and Canada

Completed initial revisions of all Handbook of Compressed Gases monographs in preparation for our initial transition to a virtual version of this key industry resource

Sharing Our Collective Knowledge



eLearning

DEVELOPED

2 NEW ELEARNING MODULES:

TM-9
Specialty Gases and Specialty Gas Mixtures

TM-10
Devalving Compressed Gas Cylinders

Modules accessed by more than 700 users since the program initially launched in mid-2018

Social Media

EXCEEDED

2,000

LinkedIn followers, extending our audience reach



End User Safety Posters

RELEASED

8 NEW SAFETY POSTERS

in 2021 providing basic safety information on refrigerated and cryogenic liquids, carbon dioxide, nitrogen, flammable gases, and cylinders and containers for the cannabis, cryosauna, and other industries

2,200+

downloads of end user safety posters in 2021

CONDUCTED

outreach to the cannabis industry, health care facility operators, cryosauna operators, and the brewing industry to share safety resources



Seminars & Webinars

HOSTED

13 CGACONNECT EVENTS

to facilitate knowledge transfer and sharing of best practices from industry leaders, technical experts, young professionals, and more

PRESENTED

our first ever hybrid event, which drew positive feedback from in-person and virtual attendees

3,500+

Learners reached by CGA events, a 27% increase from 2020

CGA Certification Board

CGACB has now certified a total of 130 individuals engaged in installing or verifying gas supply systems



Engaging the Next Generation: YOUNG & EMERGING PROFESSIONALS COMMITTEE

Working together to provide educational opportunities, increase committee engagement, and build industry networks for industry professionals aged 45 and younger

DEVELOPED

short- and long-range objectives to guide future programming in this area

DEVELOPED

onboarding program to support committee member recruitment and retention

Young & Emerging Professionals Committee membership grew to 132 members

2020 70

132

2021

More than 40% of Young & Emerging Professionals Committee members joined a CGA technical committee

2020 10%

40%

2021

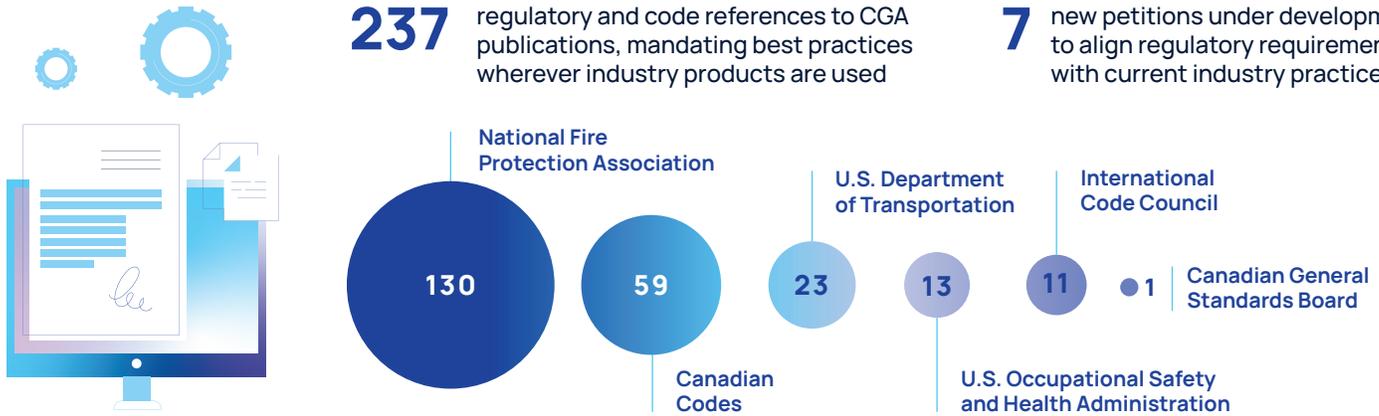
Hosted several events for young and emerging professionals:

- ✓ Career Development Planning Workshop
- ✓ Succession Planning and Knowledge Management
- ✓ Young & Emerging Professionals Summit (8-webinar series, 1,500 attendees)
- ✓ Technical Committee Showcases
- ✓ Leadership Panel Discussion
- ✓ These events drew more than 1,660 attendees

Driving Industry Self-Regulation

237 regulatory and code references to CGA publications, mandating best practices wherever industry products are used

7 new petitions under development to align regulatory requirements with current industry practices



Regulatory & Code Success Stories



TRANSPORTATION

Transport Canada adopted CGA's Equivalency Certificate for 15-year retest for certain TC3AA cylinders, allowing cylinders in certain atmospheric gas services to remain in the field for an additional 5 years

MEDICAL & FOOD GASES

Health Canada issued an interim policy accepting CGA's recommendation to exempt common medical gases and medically appropriate gas mixtures from its expiration dating requirements

The FDA Center for Devices and Radiological Health issued a reply agreeing with CGA's position that medical gas cylinders and valves are not medical devices, and with our proposed method to identify Valve with Integrated Pressure Regulator (VIPR) valves with a unique device identifier (UDI)

Supporting Global Harmonization of Industry Standards



Working with the International Harmonization Council (IHC), International Organization for Standardization (ISO), and the United Nations (UN) to advance industry safety around the world

68 industry publications have been harmonized by IHC partner associations AIGA, CGA, EIGA, and JIMGA, promoting the adoption of consistent practices around the world

CGA supported harmonization of **4 new and 7 revision projects in 2021**

10 responses developed by CGA to UN papers proposing changes to the UN Model Regulations which are frequently adopted by regulatory authorities

12 ISO standards published in 2021 by ISO Technical Committees and Sub-Committees where CGA is actively involved

