

SCOTT A. SOLLARS, PE, IAAI-CFI, ASGE-CGE
Senior Project Engineer
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Mr. Sollars is a graduate of the University of Minnesota with a Bachelor of Mechanical Engineering degree. He is a licensed professional engineer in the State of Minnesota. He has a background in mechanical systems, machine design analysis, safety and hazard evaluation, machine guarding, combustion mechanics, and fuel gas systems and components including fire, explosion, and carbon monoxide incident investigations.

Mr. Sollars has extensive experience performing field investigations and failure analysis. He has managed several large testing and analytical projects that required a multidisciplinary approach. He was a contributing editor for the seventh edition of the *National Fuel Gas Code Handbook (2009)*. He is a Certified Fire Investigator through the International Association of Arson Investigators and a Certified Gas Engineer through the American Society of Gas Engineers. Mr. Sollars has taught seminars for the Minnesota and North Dakota chapters of the International Association of Arson Investigators.



AREAS OF EXPERTISE

Carbon Monoxide Incidents
Combustion Mechanics
Fire and Explosion Origin and Cause
Forensic Failure Analysis
Fuel Gas Systems
Machine Design Analysis
Machine Guarding
Mechanical Systems
Safety and Hazard Evaluation

EDUCATION & LICENSURE

BS, Mechanical Engineering, University of Minnesota, Minneapolis, MN, 1991
Licensed Professional Engineer (PE) – Minnesota

CERTIFICATIONS

International Association of Arson Investigators - Certified Fire Investigator (CFI)
American Society of Gas Engineers – Certified Gas Engineer (CGE)
National Board on Fire Service Professional Qualifications, Fire Investigator, NFPA 1033-2014
Certified in DOT HAZ-MAT Transportation, 49 CFR 172, 704 (1-4)
Certified in OSHA Hazardous Waste Operations and Emergency Response (HAZWOPER), 29 CFR 1910.120(e)

WORK HISTORY

Senior Project Engineer, *AEI Corporation*, Littleton, Colorado, 2021 to Present
Senior Managing Consultant, *Engineering Systems Inc.* Plymouth, Minnesota, 2019 to 2021
Mechanical Engineer, *Crane Engineering*, Plymouth, Minnesota, 1996 to 2018
Project Engineer, *Federal Cartridge Company*, Arden Hills, Minnesota, 1993 to 1995

PROFESSIONAL AFFILIATIONS

American Society of Mechanical Engineers (ASME)
Minnesota Chapter of the International Association of Arson Investigators (MN IAAI)
National Fire Protection Association (NFPA)
American Society of Gas Engineers (ASGE)
American Society of Testing and Materials (ASTM)
Minnesota Governor's Technical Advisory Group on Statewide Building Code Adoption

PRESENTATIONS/PUBLICATIONS

Butane Stove and Cannister Analysis and Investigation

Co-presented with L. Meissner, Engineering Systems, Inc., Webinar, 2021

Natural Gas Incident Investigations

North Dakota Chapter, International Association of Arson Investigators, 2020

Explosion Investigation – Fuel Gas System Testing for Incident Investigations

Co-presented with M. Wilber, Minnesota Chapter, International Association of Arson Investigators, 2014

National Fuel Gas Code Handbook

Contributing editor, Seventh Edition, 2009

Fires and Explosions Caused by Household Appliances

North Hennepin Technical College, Hopkins, MN, 2004

Propane Basics

MFA Oil Seminar, Columbia, MO, 1997

SEMINARS/TRAINING

IAAI CFI Trainer.net

- *Motor Vehicles: The Engine and the Ignition, Electrical and Fuel Systems*, April 2020
- *Introduction to Appliances*, April 2020
- *Fire Chemistry*, CFI Trainer.net, April 2020
- *Fire Flow Analysis*, CFI Trainer.net, April 2020
- *The Hazwoper Standard*, CFI Trainer.net, April 2020
- *Investigating Natural Gas Systems*, CFI Trainer.net, April 2020
- *Physical Evidence at the Fire Scene*, CFI Trainer.net, April 2020
- *Physical Evidence at the Fire Scene*, CFI Trainer.net, April 2020
- *Residential Natural Gas Systems*, CFI Trainer.net, April 2020
- *Ethics and Social Media*, CFI Trainer.net, April 2020
- *DNA*, CFI Trainer.net, April 2020
- *Discovery In Criminal Cases*, CFI Trainer.net, April 2020
- *Critical Evaluation & Testing of Commonly Reported Accidental Causes*, CFI Trainer.net, April 2020
- *Ethics and the Fire Investigator*, June 2018

Safety Unlimited, Inc./Online

- *8-Hour Hazwoper Refresher Training*, February 2020
- *Asbestos Awareness*, October 28, 2019

Airplane Electrical Power Generation, Systems & Installations, ESi/North Carolina, April 2019

NRTLs in the Forensic World, ESi/North Carolina, April 2019

DRI Fire Science and Litigation Seminar, DRI/Washington D.C., September 2018

8 Hour Hazardous Waste Site Worker Refresher, University of Minnesota, 2018