



Mike Goldberg

CFEI, OBT-01, G-2

Fire and Explosion Investigator, Fuels Specialist

OFFICE

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CONTACT

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Mike is Fuels Specialist and Certified Fire and Explosion Investigator. He has over 45 years of experience in the fuels industry, including 18 years investigating various fuel applications, incendiary fires suspected to have a fuel involvement, as well as suspicious fires, fire fatalities and gaseous explosions. These investigations include the determination of the area of the fire origin, fuels involved and source of ignition. Mike also has experience investigating environmental issues caused by fuels, including major petroleum leaks and pipeline damages. Mike has appeared in court, preparing prosecution packages and presenting findings.

CERTIFICATIONS

- Certified Fire and Explosion Investigator (CFEI)
- Oil Burner Technician (OBT-01)
- Gas Technician (G-2)

TECHNICAL AFFILIATIONS

- Member – National Association of Fire Investigators (NAFI)
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PROFESSIONAL EXPERIENCE

Fuels Specialist

OCI Group (Formerly Origin and Cause Inc.)

Ottawa, ON

April 2022 to Present

Supervisor for Northeastern Ontario

Technical Standards and Safety Authority

2009 – Present

Provincial Offences Officer & Inspector/Investigator

Technical Standards and Safety Authority

2004 – 2009

General Manager of Goldberg Heating

Lennox Retail Inc.

1998 – 2000

Owner/Operator of Goldberg Heating

MKG Heating and Precision Natural Gas

1978 – 1998

Volunteer Fire Fighter

Kanata & Carp Fire Department

1976 – 1993

FURTHER TRAINING & EDUCATION

Three Degrees of Hydronic Design (E.E.E. Design Equipment) – 1 Hour (2021)

NFPA-1033 – 2022 The New Requirements for Fire Investigator Qualifications (C.A.F.I.) – 1 Hour (2021)

Accident Reconstruction: Putting the Pieces Together, Origin and Cause – 1 Hour (2021)

Combustible Dust Explosions Investigating: (C.A.F.I.) – 1 Hour (2021)

Careless Smoking Fires Investigations, Origin and Cause – 1 Hour (2021)

Barn Fires – Causes and Methods on Investigating (C.A.F.I.) – 1 Hour (2021)

Explosion Investigation and Analysis – 2 Hour (2021)

- References, NFPA 921 Chapter 23:
- R. Hopkins Trace Fire
- Perdue University
- Ansys Analytics
- TSSA Case Files
- Wile E. Coyote

Investigating Claims in Extreme Cold, Origin and Cause – 1 Hour (2021)

Rise of the Machines: Appliance Fires and Flood Claims, Origin and Cause – 1 Hour (2021)

The Fire Science Behind Fire Patterns (CAFI) – 1 Hour (2020)

Fire Investigation 101: A Forensic Experts Process & Mentality, Origin and Cause – 1 Hour (2020)

Arc Mapping: Down to the Wire, Origin and Cause – 1 Hour (2019)

Marines Fire Investigating (CAFI) – 1 Hour (2019)

RE: Certified for CFEI Endorsement – Expires 2024 (2019)

NFPA 1033: 16 Topics, EOAFI – 6 Hours (2019)

Investigating Fires in Extreme Cold Climate, Origin and Cause – 2 Hours (2019)

Instructor: Mazen Habash P.Eng. CFEI.

- Topics Covered:
- State of the Scene
- Safety Hazards
- Examining and Collection of Evidence
- The Effects of Cold on Equipment
- Dressing for the Elements
- Manage Your Expectations

The Fire Science behind Fire Patterns, CAFI – 1 Hour (2019)

Instructor: Robert J. Shier B.A.Sc. C.Eng.

Investigating Fires Where Hydrocarbon Fuel is present for Arson – 6 Hours (2018)

Instructor: STU Seaton CFEI Instructor

Topics Covered:

- TSS Act
- Lab Testing
- Darker Side of Fuels
- Fuel Characteristics
- Fuels and Criminal Activity
- Victoria beach Explosion
- Van Kleek Explosion
- Pigeon Lake CO Fatal
- Shatter Labs
- Propane Formats
- 14.1 Ounces of Horsepower
- Caledon Blast
- Impact of Toxic Gas

Fire Investigators Insight on How to Prepare for Court – 6 Hours (2018)

Eastern Ontario Ass. of Fire Investigators

Smith Falls Memorial Community Centre, Smith Falls, Ontario

Instructor: Chris Williams, Retired OFM Manager

Vehicle Fire Investigations – 14 Hours (2016)

Eastern Ontario Ass. of Fire Investigators

Ottawa Fire Station 81, Ottawa, Ontario

Instructors:

- Matthew Obach: Vehicle Fire Investigators Safety
- Ryan Cockle: Origin Determination in Vehicles Fires
- Sargent David Christe, Ottawa Arson Team: Vehicle Identification and Vehicle History

Life Fire Investigation/Live Burn of Structures – 16 Hours (2017)

Eastern Ontario Ass. of Fire Investigators

North Grenville, Ontario

Ontario Fire Marshalls Office of Ontario Instructors

NRC Institute for Chemical Progress & Lethem Batteries – 2 Hours (2016)

Environmental Technology Ottawa

DR. Ian Hill. Fire & Explosions of Lethem

Training on Fire Scene Management – 4 Hours (2015)

Instructor: Investigator Stu Seaton CFEI & Inspector Sat Viridi, CFEI

Certificate of Completion Torched Minds by Det. Ed Nordskog, M.S. CFEI – 3 Days (2015)

Ottawa, Ontario

Topics Covered:

- Fire Death/Arson – 6.5 Hrs.
- Serial Arson Investigation – 6.5 Hrs.
- Complex Arson Investigations – 6.5 Hrs.
- Fatal Fire Investigation

Fire and Explosion Investigation Course CFEI By: Ron Hopkins & Mike Schultz – 5 Days (2014)

Certificate of Completion CFEI Number: 19858-11075, Through: 09/03/2016

Topics Covered:

- NFPA 921 & NFPA Updates
- Chemistry of Fire & Fire Dynamics
- Fire Patterns
- Documentation of: Photography
- Note Taking & Reports
- Physical Evidence

- Origin Determination
- Heat & Flame Vector Analysis
- Cause Determination
- Analyzing the Incident for Cause & Responsibility
- Incendiary Fire Analysis
- Electricity by Tom Bajzek
- Explosion
- Management of Complex Investigations

TSSA. Toronto/Note Taking & Investigation Procedures – 4 Hours (2014)
TSSA Legal Department

Management Training TSSA – 8 Hours (2013)

Introduction to Neurographic Interview & Investigative Techniques (2007)
Understanding the Unspoken Word
Toronto, Ontario

Scene Photography Training OPP Forensic I Dent. (2007)
Kingston, Ontario

Inspection, Investigation & Enforcement – 3 Days (2007)
MOL, MOE Training, Toronto, Ontario

Electronic Audio Statement Training, TSSA Kingston Ontario (2006)

Watmec Reports that Work (2006)
Toronto, Ontario

Power Point Presentation Course (2006)
Toronto, Ontario

MS Excel 2000, Level 2 (2006)
Toronto, Ontario

MS Excel 2000, Level 1 (2006)
Toronto, Ontario

Witness Interview Techniques, CAFI (2005)
Toronto, Ontario

Oil Burner Up Grade Course – Two Days (2001)
Belleville, Ontario

Factory Training Viessmann Manufacturing Company Inc. – 2 Days (1989)

Factory Training Lennox Canada – 3 Days (1989)

Gas Update Course Algonquin College of Applied Arts & Technology – 3 Days (1987)

Factory Training Center Keeprite Canada – 2 Days (1987)

Factory Training Centre Riello Canada Inc. – 2 Days (1985)

G-2 Certificate: Algonquin College of Applied Arts & Technology Ottawa: (1979-1980)

OBT-3 Certificate: Oil Technician Basic, Algonquin College of Applied Arts & Technology Ottawa (1975- 1976)

OBT-2 Certificate: Oil Technician Basic – Algonquin College of Applied Arts

OBT-1 Certificate: Oil Technician Basic – Algonquin College of Applied Arts & Technology Ottawa (1977-1978)

LAB TEST CONDUCTED

Testing of Propane Camping Stove
Pog Lake, Nipissing, Ontario
2005

Pressure Test of All Piping & Fittings
Testing with CSA to make sure it meets the original approvals
Fuels Tec Lab, Pickering, Ontario
July 21, 2005

Testing of Honeywell Gas Valve
Fuels Tec Lab, Pickering, Ontario
July 30, 2007

Pressure Testing of Gas Valve & Fittings

Testing with CSA & Honeywell that it meets the standards in which it was approved for testing the drop out times of the valve

Fuels Tec Lab

Pickering, Ontario

February 8, 2007

Radiology of Honeywell Gas Valves

Honeywell Labs, Minneapolis, USA

2008

Radiology of gas valve from the incident and one exemplar valve supplied by Honeywell to see if it was manufactured as per CSA approvals

Accuran Radiology

Oakville, Ontario

2008

Radiology of All Evidence from Explosion

National Research Lab of Canada, Ottawa, Ontario

2008

Radiology of All Fittings, Valves and Piping

National Research Lab of Canada, Ottawa, Ontario

February 22, 2008

Testing of Gas Valve

Testing of incident valve and exemplar valve by Honeywell engineers to make sure it met all engineering specifications and CSA Approvals

Honeywell Labs, Minneapolis, USA

March 4–6, 2008

Testing of Piping Adhesives and Installation Practices

Minto. Serious multiple CO poisonings. Court Process ongoing.

Ottawa, Ontario

2008

Testing of Propane Cylinders

Superior Propane, Ottawa, Ontario

2008

Testing of 100-pound cylinders with Department of Transport to see if they met the requirements for re-certification

Superior Propane

Ottawa, Ontario

2008

Testing of Fireplace from explosion

Minden, Ontario

2008

Explosion testing of incident fireplace and exemplar fireplace with CSA to see if it met the engineering requirements for which it was approved for by CSA

Manufacture Lab Napoleon Fireplace, Barrie, Ontario

2008

Pressure Testing of Oil Filters

Kemptville College, Kemptville, Ontario

2009

Pressure tests done to see if the oil filter housing and fittings were leaking

Kemptville College, Kemptville, Ontario

2009

Testing of Valve and Glass

Gas Fireplace

Enbridge, Ottawa, Ontario

2014

Lab Testing of U39 Regency Fireplace

OFM Forensic Fire Lab

2014

MAJOR INVESTIGATIONS

- Commercial Fire/Propane Cylinder Explosion (2007)
- Residential Fire/Natural Gas (2007)
- Commercial Fire/Propane (2007)
- Commercial Fire/Natural Gas (2007)

- Residential Explosion/Natural Gas (2007)
- Commercial Explosion/Natural Gas (2008)
- Fireplace Explosion/Propane, Oxford Station, ON (2008)
- Fireplace Explosion/Propane (2008)
- Commercial Fire/Arson (2009)
- Commercial Fire/Arson (2009)
- Residential Fire/Natural Gas (2015)
- Commercial Restaurant Explosion/Propane (2015)
- Gas Line Explosion/Fire (2015)
- Residential Explosion/Propane Tank (2015)
- Residential Fire/Natural Gas (2015)
- Residential Fire/Natural Gas (2015)
- Residential Fire/Natural Gas (2015)
- Residential Fire (2015)
- BBQ Fire/Structure Fire (2015)
- BBQ Fire/Structure Fire (2015)
- Commercial Fire/Steam Explosion (2015)
- Commercial Fire/Propane (2015)
- Residential Fire/Propane Cylinders (2016)
- Petroleum Leak (2019)
- Natural Gas Explosion (2018)
- Natural Gas Explosion (2017)
- Natural Gas Fireplace Explosion (2020)
- Natural Gas Furnace/Fire (2020)
- CO Call with Propane Boiler (2020)
- Propane Fireplace Explosion (2020)
- Propane Fireplace Explosion (2020)
- Large Petroleum Leak (2020)
- Fireplace Explosion/Natural Gas (2020)
- Structure Fire/Propane (2020)
- Propane Cylinder Explosion (2020)
- CO Investigation/Propane Fuels Ice Resurfacing Machine (2020)
- Fireplace/Propane Explosion (2021)
- Propane MFSE Truck Explosion (2021)
- Natural Gas Explosion, Industrial Site (2021)
- Industrial Building Explosion (2022)

COURT EXPERIENCE

- L'Orignal Provincial Court, L'Orignal Ontario, MOE/Conviction Secured (May 2006)
- Pembroke Provincial Court, Pembroke Ontario. Prosecution Case/ Conviction Secured (November 2015)