

# ONSITE ENGINEERING

## **DANIEL J. CHOUDEK**

Registered Professional Engineer

- Registration:** Licensed Professional Engineer  
State of Minnesota, 1997  
State of Illinois, 1998  
State of South Dakota, 2004  
State of Nebraska, 2014
- Instructor:** National Fire Academy- US Department of  
Homeland Security, Emmitsburg, MD
- Education:** BS in Electrical and Electronic Engineering  
North Dakota State University, Fargo, ND. 1987  
  
Moorhead State University, Moorhead, MN.  
Pre-Engineering Program, 1982-1985
- Continuing  
Education:** Whitmore Fire Consultants “Warning! This is a Test”  
Seminar, 10/18  
  
Minnesota Chapter of IAAI “Fire & Arson Investigation”  
Conference, 3/18  
  
Whitmore Fire Consultants “Handling 1<sup>st</sup> & 3<sup>rd</sup> Party  
Subrogation & Liability Claims” Seminar, 9/17  
  
Minnesota Chapter of IAAI “Fire Investigation”  
Conference, 3/17  
  
Hazwoper Refresher Training 29 CFR.1910.120 Class,  
11/16, 8 Hours  
  
Whitmore Fire Consultants “In the  
Beginning...Building a Subrogation Case” Seminar,  
7/16

Minnesota Chapter of IAAI "Fire & Arson Investigation"  
Conference, 3/16

Grinnell County Mutual Adjustors/Inspectors  
Association Annual Meeting, "Planning for the  
Unexpected", 3/16

Nebraska Chapter of IAAI "Fire & Arson Investigation"  
Conference, 10/15

Iowa Chapter of IAAI "Fire & Arson Investigation"  
Conference, 9/15, 19.25 Hours

Whitemore Fire Consultants "Back to the Basics"  
Seminar, 5/15

Minnesota Chapter of IAAI "Fire and Arson  
Investigation" Conference, 3/15

Confined Space/Lock Out-Tag Out Training 29CFR  
1910.146/29 CFR 1910.147 CFR 1910.132  
11/13, 8 Hours

Hazwoper Refresher Training 29 CFR.1910.120  
11/13, 8 Hours

Whitemore Fire Consultants "Investigating Today's Fire  
Claim, Utilizing Social Media" Seminar, 10/13, 5 Hours

Iowa Chapter of IAAI "Fire & Arson Investigation"  
Conference, 9/13, 7 Hours

International IAAI Training Conference for Fire &  
Explosion Investigators, 5/13, 8 Hours

Minnesota Chapter of IAAI "Fire Investigation Seminar",  
3/13, 8 Hours

Hazwoper Training 29 CFR.1910.120 Class,  
11/12, 8 Hours

Whitemore Fire Consultants "Identifying the Positive in  
the Negative Corpus & Other Aspects of Fire  
Investigation & Subrogation" Seminar, 9/12

Asbestos Awareness Training, 10/11, 2 Hours

Hazwoper Refresher Training 29 CFR.1910.120 Class,  
10/11, 8 Hours

Hazwoper Refresher Training 29 CFR 1910.120 Class,  
10/10, 8 Hours

Whitemore Fire Consultants “Costly Mistakes in Fire  
Investigation” Seminar, 9/10

Hazwoper Refresher Training 29 CFR.1910.120 Class,  
10/09, 8 Hours

Hazwoper Training 29 CFR.1910.120 Class,  
10/08, 40 Hours

Hazardous Materials – 40 Hour Hazardous Waste  
Operations and Emergency Response Training, 10/08

Iowa Chapter of IAAI “Fire Investigation Seminar”,  
11/07, 8 Hours

MN State Bar Association Continuing Legal Education  
"Effectively Handling Fire Litigation", 5/07, 6 Hours

Arizona Chapter of IAAI “Investigations of Electrical &  
Appliance related fires” Conference, 11/06, 24 Hours

Minnesota Chapter of IAAI “Fire and Arson  
Investigation” Conference, 3/03, 3/04, 3/05

Practical Reliability For Engineers, 16 Hours,  
University of Minnesota College of Continuing  
Education, 10/02

Nebraska Chapter of IAAI 30<sup>th</sup> Annual Fire & Arson  
Conference, 9/99

Wisconsin Chapter of IAAI Annual Fire & Arson  
Conference, 6/99, 6/00

Minnesota Chapter of IAAI “Fire and Arson  
Investigation” Conference, 5/98, 3/00

Confined Space Entry & Rescue, 16 Hours,  
Hennepin Technical College, Hopkins, MN, 11/96

Hazardous Materials- Industrial Technician, 40 Hours,  
Metropolitan State University, St. Paul, MN, 10/96

Tennessee Chapter of IAAI “Electrical Fire Investigation”  
Seminar, Nashville, TN, 1/96, 24 Hours

International Symposium on Forensic Aspects of Arson  
Investigation, 9/95. Hosted by Federal Bureau of  
Investigation

Minnesota Chapter of IAAI “Fire and Arson  
Investigation” Conference, 3/88, 3/89, 3/91, 5/92

**Experience:**

**9/99**

**To Present**

**OnSite Engineering & Forensic Services, Inc.,  
Prior Lake, MN**

*President*

Engineering services including fire cause investigation,  
electrical failure analysis, electrical design analysis,  
and product testing

**9/92 to 9/99**

**Anderson Engineering of New Prague, Inc.**

*President/Director of Engineering Operations*

Responsible to client for engineering services including  
fire cause investigation, electrical failure analysis,  
electrical design analysis and product testing.

**9/92 to 9/99**

**Midwest Current Transformer, Division of Anderson  
Engineering of New Prague, Inc.**

Design, manufacture and quality control engineer of  
current transformers.

**11/87 to 9/92**

**Anderson Engineering of New Prague Inc.**

*Electrical Engineer*

Responsible to client for engineering services including  
fire cause investigation, electrical failure analysis,  
electrical design analysis, and product testing.

**12/85 to 12/86 Northern States Power Company, Minneapolis, MN**

*Transmission Planning Engineering Intern*

Position involved assisting planning engineers with  
Load Flow Analysis and various intern projects.

**Publications and Presentations:**

Presentation “It’s Electrifying...Why an Electrical Engineer” to Whitemore Fire Consultants Seminar, 10/18

Presentation “Investigations of Electrical and Appliance Related Fires” to Grinnell County Mutual Adjustors/Inspectors Association, 3/16

Presentation “Electrical Fire Origin & Cause” to Nebraska Chapter of International Association of Arson Investigators, 10/15

Publication “*Fire Investigator – Principles and Practice to NFPA 921 and 1033*”, Third Edition. Contributor. Jones and Bartlett Learning, LLC, 2012

Presentation Advanced Fire Arson Investigation Training “Electricity and Electrical Causes” for Minnesota Department of Public Safety Fire Marshal Division, 10/12

Presentation “Electrical Issues in Adjusting Claims” to SIU Department of Grinnell Mutual Re-Insurance Company, 05/10

Presentation “Electrical Fire Cause Program” to SIU Department of Grinnell Mutual Re-Insurance Company, 6/08

Presentation “Basic Electrical Concepts in Fire Investigation” to SIU Department of Grinnell Mutual Re-Insurance Company, 6/08

Presentation “Trends in Forensic Engineering” to SIU Department of Grinnell Mutual Re-Insurance Company, 6/08

Presentation “Trends in Forensic Fire Investigation” to Minnesota State Bar Association Continuing Legal Education, 5/07

Publication “*User’s Manual for NFPA 921 – Guide for Fire and Explosion Investigations*”, Second Edition. Contributor. NFPA and IAAI, 2004

Presentation “Case Studies and Forensic Investigations of Failures”, to Minnesota Reliability Consortium / IEEE Reliability Society, 1/03

Presentation “Case Studies and Forensic Investigations of Failures”, to American Society for Quality Members, 11/02

Presentation “Electrical Fire Cause Issues”, to Iowa Law Enforcement Academy, Johnston, IA, 10/01

Presentation “Electrical Fire Cause Issues”, to North Dakota Chapter of International Association of Arson Investigators, 8/01

Presentation “Electrical Fire Cause”, Minnesota Bureau of Criminal Apprehension, Rochester, MN, 7/01

Presentation “Electrical Fire Cause Issues”, to Wisconsin Chapter of International Association of Arson Investigators, 6/00

Presentation “Electric Utilities & Electrical Fire Cause Issues” to North Central Rural Electric Cooperative Engineering Conference, 2/00

Presentations “Electrical Fire Cause Issues”, “Electrical Appliance fires” to Nebraska Chapter of International Association of Arson Investigators, 9/99

Presentation “Engineering Support in Subrogation Claims” to representatives of insurance industry, private investigation firms and law firms, 4/99

Presentation “Electrical Fire Cause Issues” to representatives of insurance industry, private investigation firms, and law firms, 10/97

Patent Publication #US 2010/0013496 A1 “A branch circuit black box for use in a building electrical system having service entrance, current protection switches.”

**Professional  
Affiliations:**

Member National Society of Professional Engineers  
Member Minnesota Society of Professional Engineers  
Member International Association of Arson Investigators  
Member International Association of Arson  
Investigators – Engineering Committee 1994  
Member International Association of Arson Investigators  
- Minnesota, Iowa, Nebraska & Wisconsin chapters  
Member National Fire Protection Association  
Member American Academy of Forensic Sciences  
Member Institute of Electrical and Electronic Engineers  
Member Institute of Electrical and Electronic Engineers  
– Product Safety Engineering Society  
Member National Academy of Forensic Engineers  
National Fire Academy – Contract Instructor  
Member National Association of Fire Investigators

**Public Agency  
Project and  
Casework:**

United States Department of Treasury – Bureau of  
Alcohol Tobacco and Firearms  
United States Department of Justice – United States  
District Attorney

Minnesota Department of Public Safety – State Fire  
Marshal Division

Minnesota Bureau of Criminal Apprehension  
State of Minnesota - Hennepin County Attorney's Office,  
Ramsey County Attorney's Office

State of Iowa – Warren County Attorney's Office

IAAI Development Committee for the User's Manual for  
NFPA 921 – Second Addition