

**CURRICULUM VITAE**

**Dean N. Bundy**  
***Fire Expert***



The Professional Offices of  
Bundy, Gale & Shields, LLC  
Registered Limited Liability Company

**CURRICULUM VITAE**

**DEAN N. BUNDY**

**Senior Fire Scientist**

Certified Fire and Explosion Investigator  
Certified Fire Investigation Instructor  
Certified Vehicle Fire Investigator

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***Fire Expert***

### **SUMMARY**

International fire expert specializing in the investigation of fires and explosions, including origin and cause, arson investigation, commercial and residential, wildland fires, aircraft, ships, boats, heavy equipment/machinery, automobiles and other vehicular fires. Qualified as an expert witness in fire investigation, fire origin/cause and spread in U.S. Federal Courts, U.S. State Courts and Canada Supreme Court.

### **ACADEMIC BACKGROUND/TRAINING**

#### **B.S. FIRE SCIENCE, Minor: Criminal Justice, University of Maryland UC**

- Northwestern College of Business, 1972-73
- Eastern Oregon State College, 1973-1975
- Oregon State Police Academy (OSP), 1976-77
- Fire and Arson Investigation (FBI), 1979
- Board on Police Standards and Training (Certified Instructor)
- Fire Standards Accreditation Board (Certified Instructor)
- Fire and Arson Investigation, Clackamas Community College
- Fire and Arson Investigation, Portland Community College
- Advanced Criminal Investigation (OSP), 1980-88
- Oregon State Fire Marshal, 1980-88
- Fire and Arson Investigation (IAAI-Oregon Fire Chiefs), 1980-88
- Vehicular Fire and Arson Investigation, Multnomah County, 1981
- National Fire Academy, 1982
- Fire Origin and Cause Investigation, 1982, Instructor
- Federal Emergency Management Association, 1982
- Collection of Evidence, Fire Origin & Cause, 1982, Instructor
- Juvenile Fire Setters (OJLEA), 1983
- Fire Death Investigation (MCSO/BPST), 1983
- Fire Origin and Cause Investigations, Ashes to the Courtroom, 1983, Instructor
- Fire Homicide Investigation (MCSO/BPST), 1984
- Department of the Treasury (US), 1985
- Fire Origin and Cause Investigation, Fireman's Role, 1985, Instructor
- Advanced Arson for Profit (ATF), 1985
- Firefighters Role from Alarm to Arrest, 1985, Instructor
- Deputy State Medical Examiner (Oregon), 1985
- Fire Origin and Cause Investigation, 1985, Instructor
- Kinesic Interview Technique, 1986
- Asset Forfeiture (RICO, DOJ), 1986
- Documentation of a Fire Scene, 1986, Instructor
- White Collar Crime (DOJ), 1986
- Motives of a fire setter, 1987, Instructor
- Fire Chemistry (Hughes Institute), 1987
- Electrical Fire Investigation (OSP), 1987
- Clandestine Narcotics Lab Investigation (BPST), 1987
- Fire Chemistry (IAAI-Oregon), 1990
- Electrical Fire Investigation (Hughes Institute), 1991
- Motor Vehicle Fire Investigation (Hughes Institute), 1991

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- Explosions and Fire Investigation (Hughes Institute), 1991
- Mechanical & Electrical Equipment Fire (Hughes Institute), 1991
- Fire Origin and Cause Investigation, Criminal Case Review, 1992, Instructor
- Fire Chemistry (IAAI-Oregon), 1992
- Computer Fire Modeling (NIST), 1992
- Hazard 1 Fire Modeling (NIST), 1992
- FPETOOL Fire Modeling (NIST), 1992
- Role of the Insurance Adjuster at the Fire Scene, 1993, Instructor
- Fire Dynamics (IAAI-Oregon), 1994
- Electrical Fires (IAAI-Oregon), 1994
- Legal Aspects of Fire Investigation (IAAI-Oregon), 1994
- Certified Fire Investigation Instructor Seminar (NAFI, NFPA), 1995
- The Dynamics of Fire & Explosion Investigation (NAFI, NFPA), 1995
- The Science of Fire Investigation (NAFI, NFPA), 1995
- Characteristics of Fire Behavior (NAFI, NFPA), 1995
- Fire Pattern Development & Analysis (NAFI, NFPA), 1995
- Documenting the Fire & Explosion Scene Through Photography (NAFI, NFPA), 1995
- Searching & Diagramming the Fire Scene (NAFI, NFPA), 1995
- Collection & Analysis of Physical Evidence (NAFI, NFPA), 1995
- Origin Determination (NAFI, NFPA), 1995
- Evaluation of Fire Causes (NAFI, NFPA), 1995
- Electricity & Fire Investigations (NAFI, NFPA), 1995
- Determining Electrical Fire Causes (NAFI, NFPA), 1995
- Explosion Investigation & Analysis (NAFI, NFPA), 1995
- Emerging Role of Labels, Warnings and Instructions in Fire & Explosion Investigation (NAFI, NFPA), 1995
- Legal Aspects of Fire & Explosion Investigations (NAFI, NFPA), 1995
- The Role of the Judicial System in Fire & Explosion Investigations (NAFI, NFPA), 1995
- NFPA 921, Guide for Fire & Explosion Investigations (NAFI, NFPA), 1995
- Firefighters, Front Line for Fire Investigation, Instructor, 1996
- Investigation of Gas and Electric Appliance Fires (Fire Findings), 1997
- Fire Origin and Cause Investigation, Instructor, 1998
- Investigation in the electronic era, 1998
- Fire Research and Engineering, (SFPE), 1999
- Incendiary Fire Analysis and Investigation, UMUC, 2001
- Fire Dynamics, UMUC, 2001
- Application of Fire Research, UMUC, 2001
- The Community and Fire Threat, UMUC, 2001
- Introduction to Criminalistics, UMUC, 2001
- Interview and Interrogation Techniques, UMUC, 2001
- Analytical Approaches to Public Fire Protection, UMUC, 2002
- Fire Personnel Management, UMUC, 2002
- Disaster and Defense Planning, UMUC, 2002
- Managerial Issues in Hazardous Materials, UMUC, 2002
- Fire Related Human Behavior, UMUC, 2002
- Vehicle Fire Investigation, NAFI, 2002
- Ethics for Investigators, OALI, (2003)
- How to Prepare for Court, OALI, (2003)
- Fire Origin & Cause; preparing for litigation, Instructor, (2004)
- Fire Origin and Cause Investigation, Instructor (2005)

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- Fire Origin and Cause Investigation, Urban Myths, Instructor (2006)
- Philosophy of Fire Investigation, NFPA/NAFI 2008
- The NFPA Code Making Progress, NFPA/NAFI 2008
- NFPA 921-2008, NFPA/NAFI 2008
- Fire Chemistry & Fire Dynamics, NFPA/NAFI 2008
- Fire Dynamics and Pattern Analysis, NFPA/NAFI 2008
- Processing & Documenting the Fire and Explosion Scene, NFPA/NAFI 2008
- Basics of Explosions and Explosion Investigation, NFPA/NAFI 2008
- Basic Electricity for Fire Investigator and Electrical Ignition Sources, NFPA/NAFI 2008
- Determining Origin – Heat and Vector Analysis, NFPA/NAFI 2008
- Determining Cause and Responsibility, NFPA/NAFI 2008
- Legal Aspects of NFPA 921 and NFPA 1033, NFPA/NAFI 2008
- Fire Origin and Cause & Site Documentation, Instructor 2008
- Essentials of Fire Fighting, IFSTA, 2009
- Wildland Fire Litigation Conference, 2010

## EXPERIENCE

**BUNDY, & ASSOCIATES, INC., 1988-Present**

**BUNDY, GALE & SHIELDS, LLC.-1996-Present**

Fire expert conducting fire scene examinations and fire consultations:

**Fires and Explosions:** Major casework involves fire origin and cause determination in all types of commercial and residential buildings, including those involving fires with hazardous materials, commercial ships, heavy equipment, vehicles, wildland fires, motor homes, commercial plants, commercial grain elevator explosions, public buildings, fertilizer processing plants, high-rise office and residential buildings, factories, aluminum plants, cabinet shops and fatal fires.

**Fire Consultation:** Providing expert opinions and assistance on existing fire litigation, including witness interviews, report review, photograph analysis, evidence examination, pre-deposition and pre-trial preparations of attorneys and file management.

**Fire Testing:** Conducts fire testing for small and large scale projects. Specializes in reconstructing fire scenes to the standard of substantial similarity to provide the client with the opportunity to test various theories consistent with the actual fire site. This includes reconstructing buildings or portions of buildings, airplanes, ships/boats or other structures and wildland fuels. Testing is also conducted on appliances of all types. Rate of heat release and other temperature data is collected during this testing to provide the basis for computer fire modeling.

**Web Site:** [www.FireExperts.com](http://www.FireExperts.com)

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### **WESTERN FIRE CENTER, INC., 1993 - 1995**

Co-founder of the Western Fire Center (WFC) a fire testing and research laboratory located in Kelso, Washington. WFC conducts bench scale and full scale fire testing, product development and research, testing research, computer fire modeling, animation, and general litigation support.

**Web Site:** [www.WesternFire.com](http://www.WesternFire.com)

### **OREGON STATE POLICE - District One, 1988**

Sergeant in charge of the Portland Airport Interagency Narcotics Team (PAINT). The team maintained the only K-9 (Narcotic detection dog) in the state and was responsible for intercepting narcotics of all types being transported on commercial or private aircraft into the state of Oregon. The team worked in cooperation with the FBI, DEA, IRS, and U.S. Customs in addition to various state and local agencies.

### **OREGON STATE POLICE - District One, 1987-88**

Sergeant in the District One Arson Unit responsible for investigation of all fires in Multnomah, Clackamas, Washington, Columbia, Clatsop, Tillamook and Yamhill Counties. Also instructed in fire and arson investigation throughout the district.

### **OREGON STATE POLICE - District Four, 1983-87**

Sergeant of the District Four Arson Unit responsible for investigation of all fires in Umatilla, Grant, Harney, Malheur, Wallowa, Union and Morrow Counties. Instructed in fire and arson investigation to police and fire departments throughout the district. Served as a volunteer fire fighter.

### **OREGON STATE POLICE - District One, 1980-83**

Detective in the District One Arson Unit responsible for investigation of all fires in Multnomah, Clackamas, Washington, Columbia, Clatsop, Tillamook and Yamhill counties. Instructed in fire and arson investigation throughout the district.

### **OREGON STATE POLICE - District One, 1976-80**

Trooper in District One, Multnomah and Clackamas offices, responsible for enforcement of all criminal, traffic and wildlife laws. Was responsible for conducting preliminary fire investigations.

### **OREGON STATE POLICE - District Three, 1976**

Cadet in District Three, Jackson County, responsible for enforcement of all laws in the Valley of the Rogue State Park, including criminal, traffic and wildlife violations.

### **FLEETWOOD MANUFACTURING, INC., 1975-1976**

Manufacturing line installer, section foreman, utility foreman, quality control supervision and inspection.

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### PROFESSIONAL AFFILIATIONS

National Association of Fire Investigators (NAFI)  
National Fire Protection Association (NFPA)  
International Association of Arson Investigators (IAAI)  
International Association of Arson Investigators, Oregon  
Oregon State Police (OSP Reserve)  
National Institute of Standards and Technology (NIST)  
Board on Police Standards and Training (BPST)  
International Code Council (ICC)  
Western Fire Center, Inc. (WFCi)  
American Society for Testing Materials, (ASTM)

### AWARDS

Oregon Investigator Of The Year (IAAI-Oregon Chapter), 1986  
International Investigator of The Year (IAAI), 1987

### RESEARCH ACTIVITIES

Mr. Bundy has conducted research involving the setting of more than 500 test fires. These fires included fires involving different appliance failures, various types of flammable liquids under numerous conditions, chemical fires, explosions, fires involving fireworks, fires involving homicide with human blood splatter, slow smoldering fires, spontaneous ignition fires, cigarette fires in furniture/buildings/cars, fire sets involving man-made or mechanical/electrical delay devices, flammable liquids on concrete, electrical ignition fires, fires set with molotov cocktails, exterior fire sets, wildland fire ignitions and other fire sets involving different motives.

Mr. Bundy has conducted extensive laboratory testing with computer data acquisition, involving propane tanks, propane barbecues and associated propane components.

Mr. Bundy has conducted extensive laboratory testing with computer data acquisition involving the ignition and propagation of flammable and combustible liquid vapors.

Mr. Bundy has conducted extensive laboratory testing with computer data acquisition, involving polyurethane foams and polystyrene, including E-906 (Standard ASTM Test) for rate of heat release and smoke generation, intermediate scale radiant panel (ICAL) testing, and full scale fire testing.

Mr. Bundy has conducted extensive laboratory testing of Expanded Polystyrene (EPS) in bench tests and full scale fire testing. In addition, he has conducted extensive laboratory testing with various brands and types of self regulating heating cable in bench tests and full scale fire tests.

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Mr. Bundy has comprehensive laboratory experience in constructing and testing of various full-scale room fire tests and related smaller bench scale fire tests. He has conducted testing related to small appliances including toasters, wall heaters, floor heaters, residential and commercial natural gas burners, furnaces, water heaters, immersion heaters, motors, generators, fans, heat tape, heat lamps, halogen lights, and electrical tools. In addition, Mr. Bundy has conducted testing related to wildland fires, power pole fires and power pole cross-arm fires.

### PUBLICATIONS

"Documentation of a Fire Scene," 1987, presented at the Northwest Fire and Arson Training School sponsored by the IAAI and the Oregon Fire Chiefs.

Firefighters, Front Line for Fire Investigation ©1996-2009, Bundy & Associates, Inc.

"Urban Myths in Fire Science, ©2006-2009, Bundy & Associates, Inc.

### LICENSES/CERTIFICATIONS

Private Detective Agency, *State of Washington, License #299-12 0000607*

Private Investigation Business License, *State of Arizona, License # 0409012*

Private Investigation License, *State of California, License #25335*

Certified Fire and Explosion Investigator, *National Association of Fire Investigators*

Certified Fire Investigation Instructor, *National Association of Fire Investigators*

Certified Vehicle Fire Investigator, *National Association of Fire Investigators*