



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

CURRICULUM VITAE

MATTHEW H. SHIELDS

Certified Fire and Explosion Investigator

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CURRICULUM VITAE

MATTHEW H. SHIELDS CFEI, FIRE EXPERT

1.0 SUMMARY

- 1.1.1 International fire expert specializing in the investigation of fires and explosions including origin and cause, arson investigation, commercial and residential, aircraft, ships, boats, heavy equipment/machinery, natural cover, automobiles and other vehicular fires. Court qualified expert witness.

 - 1.1.2 Recognized expert in fire suppression tactics and operations both structural and natural cover fires.

 - 1.1.3 Oklahoma State University, School of Fire Protection, 1963-1964
 - Northwest Fire and Arson Seminar, 1971
 - Northwest Fire and Arson Seminar, 1972
 - Northwest Fire and Arson Seminar, 1973
 - Northwest Fire and Arson Seminar, 1974
 - Juvenile Fire Setters, 1983
 - Advanced Arson for Profit, 1985
 - Advanced Fire Investigation Conference, 1986
 - Techniques of Kinesic Interviewing, 1986
 - Law Enforcement Photography Advanced Course, 1988
 - Advanced Fire and Arson Seminar Origin and Cause, 1988
 - Advanced Fire and Arson Seminar Case Management, 1989
 - Advanced Fire and Arson Seminar Fire Chemistry, 1990
 - Advanced Fire and Arson Seminar Vehicle Fires, 1991
 - Advanced Fire and Arson Seminar Wildland Fires, Origin/Cause, 1992
 - Advanced Fire and Arson Seminar The Paper Chase, 1993
 - Washington/Oregon Chapter Advance Fire Investigation Workshop, 1994
 - Advanced Fire and Arson Seminar Fire Chemistry & Dynamics, 1994
- Short Course Training (non-certified) in the following:
- Clandestine Drug Labs
 - Aircraft Fire Investigation
 - Insurance Fraud Investigation
 - Collection of Evidence
 - Wildfire Investigation
 - Investigation of Fatal Fires
 - Validating Fires of Electrical Cause

Explosives
Legal Aspects of Fire Investigation
Civil Litigation related to fires
Forensic Lab Procedures
Fire involving Hazardous Materials

1.2 EXPERIENCE

1.2.1 BUNDY, GALE & SHIELDS, LLC., Oregon 1996

International Fire Expert specializing in origin and cause investigations of fires and explosions either accidental or incendiary, ground cover fires, industrial/commercial and residential structures and all types of commercial grade transportation and equipment. Qualified expert on fire department administration, operations, safety, training and fire ground tactics. Analyzing causation factors resulting in fire fighter and civilian fire related injuries and fatalities.

1.2.2 BUNDY, RIDDLE & ASSOCIATES, Washington 1994-1996

Fire Expert conducting fire scene examinations and fire consultants. Evaluating and analyzing fire department operations, tactics and procedures. Analyzing causation factors resulting in fire fighter and civilian fire related injuries and fatalities.

1.2.3 BORING FIRE PROTECTION DISTRICT No. 59, Oregon 1968 - 1994

As Fire Chief, planned and directed the public administration and procedures of the Boring Fire Department. Exercised command over all personnel for the day-to-day operation of the Department's fire and emergency medical services, fiscal operation and regulatory responsibilities. Planned, organized, directed and controlled all functions related to the Fire Department. Directed fire prevention, inspections, fire cause determination and public relations. Participated, as Department representative, in local, county, regional and State meetings and planning groups related to fire and life safety issues. Acted as public relations representative for the Department and the general public and at civic organizations. Attended conferences, specialized schools, seminars and other functions as necessary to keep abreast of new developments in firefighting, fire investigations, fire prevention, governmental administration, training, public education and emergency medical services. Provided fire and life safety instruction to public and private school systems, business and industrial groups, civic groups and organizations, governmental agencies, institutions, and private citizens. Conducted inspections of public and private buildings and facilities to evaluate fire and life safety deficiencies, outlining and enforcing fire and life safety code restrictions for schools,

businesses and adult foster care homes. Reviewed construction plans for compliance with fire and life safety regulations. Maintained a working knowledge of State fire protection regulations and their impact on the Fire Department. Responded to inquiries from the public regarding fire code requirements, fire safety and other related matters. Taught fire operations and tactical classes to fire service personnel. Taught fire origin and cause classes to fire services personnel. Presented programs on fire behavior, fire origin and cause investigation and fire fighter safety to fire service and insurance industry organizations statewide. Responded to emergency incidents as the command officer directing and overseeing all operations related to fire suppression and overhaul. Utilized technical knowledge and advanced skill in fire and arson investigation techniques and relevant legal aspects and procedures in performing fire cause determination investigations. Conducted all fire origin and cause examinations for the Department. Conducted on scene evaluation including scene excavation, diagraming, photography and securing of evidence. Prepared written origin and cause reports. Testified as a fire expert witness in both State and Federal court including Criminal and Civil proceedings as to the origin and cause of specific fire incidents.

1.2.4 TEAM LEADER, CLACKAMAS COUNTY FIRE INVESTIGATION TEAM, Oregon 1986 - 1994

Directed operations of the East Clackamas County Fire Investigation Team in investigating suspicious or difficult-to-determine origin and cause fires for various fire jurisdictions in Clackamas County. Prepared the Team report with findings and recommendations to the jurisdiction in authority. If the incident was suspicious or incendiary, assisted Oregon State Police Arson Unit in evaluating the fire scene and the origin and cause findings.

1.2.5 BORING FIRE PROTECTION DISTRICT No. 59, Oregon 1967 - 1968

Lieutenant/Training Officer responsible for directing the attack crews on structural and ground cover fire incidents. Conducted training sessions on all aspects of firefighting, fire behavior, fire department operations, fire department tactics and fire department command operations within the fire service.

1.2.6 BORING FIRE PROTECTION DISTRICT No. 59, Oregon 1966 -1967

Career fire fighter responding to fire incidents as a front line fire fighter.

Suppression activities involved residential, commercial and industrial building as well as ground cover wildfire. Made direct fire attack by entering the structures and applying water to the area of involvement. Direct and indirect fire suppression at ground cover fires.

1.2.7 BORING FIRE PROTECTION DISTRICT No. 59, Oregon 1961 - 1966

Volunteer fire fighter responding to fire incidents as above.

1.3 AFFILIATIONS

International Association of Arson Investigators
Oregon Chapter, International Association of Arson Investigators
International Association of Fire Chiefs
Western Fire Chiefs Association
Life Member, Oregon Fire Chiefs Association
Oregon Fire Marshals Association
Past Member and Team Leader, Clackamas County Fire Investigation Team
National Association of Fire Investigators
Oregon Casualty Adjusters Association

1.4 AWARDS

- 1.4.1 Recipient of the Oregon Fire Chief's *Gold Trumpet* Award, 1994. One of six individuals to receive the Association's highest honor since the Oregon Fire Chiefs Association was formed in 1920.
- 1.4.2 Certificates of Achievement from the Oregon State Fire Marshal, The Oregon Fire Chiefs Association and the Clackamas County Fire Defense Board.

1.5 RESEARCH ACTIVITIES

- 1.5.1 Conducted research involving setting in excess of one hundred structural test fires in preparation for the Annual Fire and Arson Seminars, for training Clackamas County and Boring Fire District personnel in the determination of the origin and cause of various types of structure fires. Recreated numerous accidental and intentional fire scenarios with follow up examination, evaluation and documentation for presentation at Arson Seminars. These fire scenarios included fire involving different appliance failures, various types of flammable liquids utilized in assorted manners, chemical fires, explosions, fire involving fireworks, slow smoldering fires, spontaneous ignition fires, cigarette fires in furniture/building contents/cars, fires set involving man-made or

mechanical/electrical delay devices, flammable liquids on concrete, electrical ignition fire, fires set with molotov cocktails, exterior fire and other fire sets involving simulated accidental fire scenarios.

- 1.5.2 Conducted test ground cover fires for rural fire protection district personnel and State Forestry personnel. These fires involved grass land, brush land, forested land with varying topographical and meteorological conditions and were used to develop fire suppression tactics as well as ground cover fire origin and cause determination skills.

1.6 PUBLICATIONS

- 1.6.1 "Rural Water Supply Operations", 1971. National fire service publication article detailing a radical new approach for supply water to rural communities for fire suppression purposes.
- 1.6.2 "Light Weight Building Construction" present at the Oregon Fire Chief Convention, 1984, documenting the fire suppression and origin and cause difficulties encountered when fires occur in a building utilizing "light weight" building techniques.

1.7 CERTIFICATION

- 1.7.1 **Certified Fire and Explosion Investigator**, *International Association of Fire Investigators #4630-2049*
- 1.7.2 **Oregon Private Investigators License 1998188**

SWORN TESTIMONY		
TRIAL - DEPOSITIONS - ARBITRATION		
11/05/85	Farley V Modern Merchandising Inc.	Trial
11/18/85	Lloyd Brown V United Pacific Ins.	Deposition
06/23/86	Lloyd Brown V United Pacific Ins.	Trial
09/23/87	State of Oregon V Driver	Trial
10/07/87	California Casualty V Norris	Trial
08/11/91	Melgarejo V Allstate Indemnity	Trial
04/25/97	Stimson Lumber Company V Hardell Const.	Deposition
05/09/97	Solodyankin V Syjuco	Arbitration
07/10/97	Stimson Lumber Company V Hardell Const.	Trial
12/14/97	Norco Industries	Deposition
03/03/98	Northern Ins V Sundance Manufacturing	Deposition
03/28/98	Brown V CCI	Arbitration
06/09/98	Goss V Rheem Manufacturing	Deposition

SWORN TESTIMONY		
TRIAL - DEPOSITIONS - ARBITRATION		
10/01/99	Casa Lupita/Tigard Oregon	Deposition
11/18/99	Christenson V Walmart	Deposition
02/23/00	Traders V Grimm Logging	Trial
06/12/00	Eaves V Emerson	Deposition
06/14/00	Greenwood V Rheem	Deposition
07/12/00	Eaves V Emerson Electric/Dallas, TX	Deposition