

CURRICULUM VITAE

Steven R. Mackaig

Area of Specialization

Fire Origin & Cause

Industrial / Commercial / Residential Fire Investigation

Arson / Fraud Investigation

Vessel and Vehicle Fire Investigation

Wildland Fire Investigation

Fire Scene Reconstruction

Investigators License

California – 15369

Background and Professional Experience

Mr. Mackaig's background includes 24 years in the fire service with the Fort Carson, El Cajon and San Diego City Fire Departments. While with the San Diego Fire Department, he was assigned and trained as a Fire Investigator with the Metro Arson Strike Team conducting over 1200 fire and explosion scenes.

Mr. Mackaig founded Steven R. Mackaig and Associates, Fire Investigations in 1991 providing fire investigations and consulting to the insurance and private industries. In 2010, Mr. Mackaig merged with Fire Cause Analysis, now serving as a Senior Fire Investigator and Trainer. Mr. Mackaig has investigated approximately 5000 fires during his career.

Mr. Mackaig is a certified Level II Fire Investigator and Fire Investigation Instructor with the California State Fire Marshal's Office. He has taught the State's Fire Investigation courses through numerous community colleges and retains a Lifetime Fire Science teaching

credential. Mr. Mackaig specializes in vehicle fires and currently lectures and conducts live fire training on fire investigation throughout the United States and internationally.

Mr. Mackaig has testified as a fire cause expert approximately 100 times in Federal, Municipal and Superior courts, civil trials and depositions.

Education

University of Redlands, Redlands California, 1990
B.A. Degree, Management

Miramar College, San Diego California, 1979
A.S. Degree, Fire Science

Cogswell College, San Francisco California, 1982
Fire Prevention Degree Program

PROFESSIONAL CERTIFICATIONS

Certified Fire Investigator International Association of Arson Investigators #22-003, current

Certified Fire Investigator II State of California, State Fire Marshal, 1986-Present

Certified Fire Investigator I State of California, State Fire Marshal, 1984-Present

Certified Fire Investigation Instructor State of California, 1986-Present

Certified Master Instructor III State of California, 1987-Present

Certified Fire Fighter State of California, 1977-1997

State of California, Teaching Credential Fire Science, Lifetime

SPECIALIZED TRAINING

California Board of Fire Services - Four level fire investigation program.

California Board of Fire Services – Fire Investigation Instructor III

National Fire Academy - Fire & Arson Investigation Program.

Federal Bureau of Investigation - Arson & Bomb Field Training Program.

International Association of Arson Investigators

Annual Seminars Attended 5-98, 4-06, and 5-2010

International Association of Marine Investigators, Inc.

Continuing education seminars

California Conference of Arson Investigators

Continuing education seminars

Bureau of Alcohol, Tobacco and Firearms -

Continuing education seminars.

U.S Consumer Product Safety Commission - Electrical Fire Investigations.

San Diego County Arson Task Force - Monthly meetings and seminars.

Investigation of Vehicle Fires - Lee S. Cole.

Electrical Fires in Residential Dwellings - Dr. Bernard Beland.

Investigation of Industrial / Commercial Fires - I.A.A.I.

Electrical & Gas Appliance Fire Investigation - Barker & Herbert.

Industrial Electricity - Performance Training Associates

ACADEMIC EXPERIENCE

1995 -2009 International Association of Arson Investigators, Certified Fire Investigator Examination Task Force. Member of re-write committee.

1995-2009 Instructor of Vehicle Fire Investigation programs in Arizona, Oregon, Montana, California, International Association of Special Investigators, California Conference of Arson Investigators & Western States Auto Theft Investigators.

1984-2000 San Diego County Fire Chiefs Association, Education Division, *Instructor - Fire Investigation*

1989-2000 San Diego Port Authority, Harbor Police Academy, San Diego, *Instructor - Fire Investigation.*

1984-1996 *Fire Investigation Instructor*, California State Fire Marshal's Office, Training. Adjunct state instructor teaching multi-level fire investigation programs to fire service, law enforcement, insurance, and government agencies. Approximately 3000 students to date.

1988-1994 Palomar College - San Diego, California, Fire Science Department, *Instructor - Fire Investigation.*

1984-1992 Miramar College - San Diego, California, Fire Sciences Department, *Instructor - Fire Investigation.*

1990-1992 California State University, Long Beach, Criminal Justice Forensic Evidence Academy, *Instructor - Fire Investigation.*

PROFESSIONAL SOCIETY MEMBERSHIPS

National Fire Protection Association
International Association of Fire Investigators, Certification Committee
California Conference of Arson Investigators
San Diego Insurance Adjusters Association
San Diego County Arson Task Force (Past President)
Society of Automotive Engineers 1997-present
California State Firefighters Association
International Association of Marine Investigators, Inc. 2008-present

EXPERIENCE

Fire Cause Analysis

2010-Present - *Senior Fire Investigator and Trainer. Supervising the San Diego branch office of Fire Cause Analysis. Conducting fire cause investigations, consulting, providing investigation training, seminars and lectures.*

Steven R. Mackaig & Associates, Inc., Fire Investigations

1991-2010 - *Fire Investigator and owner. Senior investigator and business operator providing fire cause investigations to the insurance industry, private sector, state and federal government. Trained and supervised other fire investigators. Provided fire investigation courses at our live fire, interactive fire investigation training facility. Provided litigation consulting and fire case review. Specializing in vehicle fire investigations and training*

Metro Arson Strike Team, San Diego Fire Department

1981-1988 **Fire-Arson Investigator** responding in a 400 square mile area. Responsibilities included fire, arson and bomb scene investigations. Testified as fire cause expert in civil trials, criminal cases, federal cases and grand jury investigations. Conducted over 1200 fire investigations during tour of duty.

Professional Fire Fighter, California & Colorado

1972-1997 Career firefighter with 20 years experience in municipal and government fire service. Held the ranks of Fire Investigator, Fire Engineer and Fire fighter.

Assignments included fire investigation, fire prevention, fire training, and fire suppression. Responded to over 2500 fires.

Marine Fire Fighting Coordinator, United States Coast Guard

1983-1985 Petty Officer assigned to Port Operations. Duties included fire suppression, fire investigation, and environmental response team.

AUTOMOTIVE & MECHANICAL BACKGROUND

2001 Air bag, Ignition lock and Anti-Theft Systems, seminar
2001 Tricks of The Trade In Servicing & Repairing Automotive Locks
1971-2010 Repairing, racing and restoring automobiles, vessels and outboard motors.
1984-1997 Engineer San Diego Fire Department, operate, maintain and repair commercial trucks.
1997 Mechanical Evaluation Seminar, Lee Cole & Associates.
1980-1982 Seagull Outboard- Mechanic and factory rep for Outboard Motor Company.
1976-1978 Mobil Mechanic Service.
1975-1976 Mechanic at Zorin Import Mercedes, Newport Beach, Calif.
1971-1972 Mechanic apprentice program Mackaig & Sons Chrysler-Plymouth.
1970 Automobile Mechanics program, Pasadena City College.

Lecture/Presentation Experience

International Association of Arson Investigators, Kansas Chapter 2-04
Farmers University 2-05, 2-07, 7-08, 9-09, 3-2010
Allied Insurance 2-05
Imperial County Arson Task Force 4-05
Redlands Arson Task Force 5-05
La Mesa Fire Department 7-05
Western States Auto Theft Investigators 9-05, 9-07, 9-2010
Heartland Fire Academy 10-5
Denver Arson Seminar 9-06
International Association of Arson Investigators, Utah Chapter 2-07
Auto Club of Southern California 4-07, 10-08
San Jose Fire Department Fire Investigation Unit 5-07
International Association of Arson Investigators, Florida Chapter, 5-07
California Conference of Arson Investigators, Imperial County Chapter, 4-08
Orange County Fire Arson Task Force 5-08
International Association of Special Investigation Units 9-08
National Insurance Crime Bureau 4-08
Sonoma County Fire investigation Task Force 10-08
International Association of Arson Investigators, Annual Conference, 4-05, 5-2010

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