



# RON HALL & ASSOCIATES

LIC #PI-7513-C

FIRE ANALYSIS & RESEARCH

TEL: (916) 635-3441  
FAX: (916) 635-3621

## CURRICULUM VITAE

**RUSSELL AUKER**  
**FIRE CONSULTANT**  
**RON HALL & ASSOCIATES, INC.**

### Education

Associate of Science Degree in Fire Technology  
July 1981 - American River College, Sacramento, CA

Bachelor of Science Degree in Fire Administration  
January 1998 - Cogswell College, Sunnyvale, CA

Bachelor of Science Degree in Fire Prevention  
February 1998 - Cogswell College, Sunnyvale, CA.

Received approximately 2400 hours of Instruction at Fire and Arson Investigation Seminars and Workshops throughout the United States which include:

Firefighter 1 – California State Fire Marshal’s Office – 1979  
Chief Officer Certification – California State Fire Marshal’s Office – 1994  
State Certified Level I Fire Investigator – California State Fire Marshal’s Office  
State Certified Level II Fire Investigator – California State Fire Marshal’s Office  
Cogswell College/National Fire Academy Certificate – 1997  
ICS 334 Strike Team Leader (wild-land fires) – California State Fire Marshal’s Office  
IC 220 Incident Command System – California State Fire Marshal’s Office  
Fire Command 2A, ICS at Major Fires – California State Fire Marshal’s Office  
Fire Command 2B, Management of Major Hazardous Materials Incidents – CA State Fire Marshal’s Office  
Fire Command 2C, High-Rise Fire Incidents – California State Fire Marshal’s Office  
Fire Command 2D, Disaster Planning – California State Fire Marshal’s Office  
Fire Command 2E, Wild-Land Fire Command - California State Fire Marshal’s Office  
Fire Management 2A, Personnel Management – California State Fire Marshal’s Office  
Fire Management 2B – California State Fire Marshal’s Office  
Fire Prevention 1-A, 1-B, 1-C, 2-B – California State Fire Marshal’s Office – 1996  
Fire Investigation 1-A, 1-B, PC832 – California State Fire Marshal’s Office – 1997  
Fire Investigation 2-A, 2-B – California State Fire Marshal’s Office – 1998  
Fire Science Certificate – American River College – 1979  
Fire Investigation – CCAI (Continuing Education) – 1998  
Auto Fire Investigation – CCAI (Continuing Education) – 1998  
California Electric Sign Association (Neon Sign Workshop) – 1998  
Investigation of Gas and Electrical Appliance Fire – Fire Finding Laboratories – 1998  
California Conference of Arson Investigators (Fire Death Workshop) – 1999  
Lee Cole Auto Fire Investigation Class – Novato, CA – 1999  
Lee Cole Auto Fire Investigation Class – Denver, CO – 1999  
Western States Auto Theft Investigators (W.S.A.T.I.) – 1999  
California Conference of Arson Investigators 2000 (Legal Issues)  
Automotive Service Excellence (ASE Certified) 1999 – 2005  
Vehicle Fire Investigation (16 hours) - University of Washington – 2000  
Legal Court Testimony - California Conference of Arson Investigators – 2001

**Education Cont'd.**

Advanced Vehicle Fire Investigation - Mackaig & Associates- 2001  
Vehicle Fire Investigation/Evidence Collection - California Conference of Arson Investigators - 2002  
Fire Dynamics – IAAI Oregon Chapter – Dehann, Quintiere, Barbackis – 2002  
Vehicle Fires – IAAI Oregon Chapter – Steve Mackaig - 2003  
NFPA 921 (6 hours) – CCAI Round Table Training, Chico, CA – 2003  
I-CAR Training (Air Bags & Hybrid) – 2004  
California Conference of Arson Investigators- 2007  
    Vehicle Theft/fire investigation  
    Arc Mapping  
    Post Flashover  
    Fraud/Arson

**Experience**

1967 – 1972 – Greenwood Volunteer Fire Department  
    Volunteer Firefighter

1972 – 1998 – Folsom City Fire Department (Retired)  
    Firefighter, Engineer, Captain, Battalion Chief (Suppression),  
    Battalion Chief (Administration, Prevention, Investigation Bureau **Fire Marshal**),  
    Investigation of all fires while on duty  
    California State Fire Marshal's Office - Certified Chief Officer

Extinguished and Investigated approximately 1200 Fires while on duty with the Fire Department.

1997 – 2004 – Fire Cause Analysis  
    Fire Investigator (Investigated approximately 800 structural, vehicle & vessel fires)  
    Mechanical Evaluations, Scene Assistant, ASE Technician,  
    Director of Vehicle/Vessel Analysis Division

2004 – Current      Ron Hall & Associates, Inc.  
    Fire Consultant, Fire Origin and Cause Investigator

Qualified numerous times as an Expert in Fire Cause Determination, Flame and Smoke Spread, and General Fire Behavior in Municipal and Superior Courts in the State of California.

**Automotive Experience**

Auto Body Mechanics/Paint Repair and Refinishing, Altoona Area High School Vocational Dept. (3yrs.)  
Olson Buick and Pontiac Dealership - Auto Body Technician -1968 – 1969  
Advance Schools, Inc. – Mobile Engine Service Repair - 1974  
Folsom City Fire Department - Shop Supervisor (18 years)  
Rustys' Rods and More – Owner – Automotive Restoration Shop (32 years)  
Fire Mechanics Level I – California Fire Chief's Association  
Fire Mechanics Level II – California Fire Chief's Association  
118 Vehicle Controlled Experimental Test Burns  
Fire Cause Analysis – Director of Vehicle Analysis Division (7 years)  
Ron Hall & Associates – Fire Consultant

**Instructor at the Following Workshops and Seminars**

California State Fire Marshal 1A - Vehicle Arson Fire Investigation – 1999  
California Home Inspectors – Fire and Safety Issues - 1999  
California State Fire Marshal 1A – Vehicle Arson Fire Investigation – 1999  
California State Fire Marshal 1B – Vehicle Arson Fire Investigation – 2/2000  
Butte County Arson Task Force – Vehicle & Structural Fire Investigation – 5/2000  
California State Fire Marshal 1A – Vehicle Arson Fire Investigation – 10/2000  
San Joaquin County Task Force – Structural Fire Investigation – 2000

California State Fire Marshal 1A – Vehicle Arson Fire Investigation – 10/2000  
California State Fire Marshal 1A -Vehicle Arson Fire Investigation – 4/2001  
California State Fire Marshal 1A – Vehicle Arson Fire Investigation – 10/2001  
California State Fire Marshal 1A – Vehicle Arson Fire Investigation – 1/2002  
California Conference of Arson Investigators – Vehicle Arson Fire Investigation – 1/2002  
California State Fire Marshal 1A – Vehicle Arson Fire Investigation – Diamond Springs FD – 3/2002  
San Joaquin County Task Force – Vehicle Fraud Investigation – 8/2002  
California State Fire Marshal 1A – Vehicle Arson Fire Investigation – 10/2002  
California State Fire Marshal 1A – Vehicle Arson Fire Investigation – 2/2003  
Orange County Fire Chief’s Fire/Arson Group – Vehicle/Arson Investigation – 3/2003  
California Conference of Arson Investigators – Structural Fire Investigation – 7/2003  
Fresno County Task Force – Vehicle/Arson Investigation (2 day) – 9/2003  
California State Fire Marshal 1A – Vehicle/Vessel Arson Fire Investigation – 10/2003  
California Conference of Arson Investigator’s Round Table – Vehicle Investigation (6 hr.) – 11/2003  
Orange County Fire Arson Task Force – Vehicle Fire Investigations (3 day) – 11/2003  
California State Fire Marshal 1A – Vehicle Arson Fire Investigation – 3/2004  
Santa Clara County Fire Investigation Task Force – Vehicle Arson & Fraud Training (2 day) – 5/2004  
State Farm Insurance – Vehicle Arson & Fraud Training – 7/2004  
California Conference of Arson Investigators (Round Table Butt College) Vehicle Fire Investigation Class  
8 hrs 3/2005  
California Conference of Arson Investigators (Arcata Training) Vehicle Fire Investigations Class 16 hrs  
5/2005  
California State Fire Marshal 1A – Vehicle Fire Investigation – 3/ 2006 Sacramento, CA  
California State Fire Marshal 1A - Vehicle Fire Investigation – 9/2006 Sacramento, CA  
California State Fire Marshal 1A - Vehicle Fire Investigation – 2/2007 El Dorado Hills, CA  
California State Fire Marshal 1A – Vehicle Fire Investigation – 8/2007 Sacramento, CA  
California State Fire Marshal 1A- Vehicle Fire Investigation- 2/2008 Sacramento, CA  
California State Fire Marshal 1B- Vehicle Fire Investigation- 4/2008 Sacramento, CA

### **Speaking Engagements**

Northern California Home Inspector’s Group Meeting, Sacramento, CA – Fire Prevention - 1999  
California Conference of Arson Investigator’s Round Table, Sacramento CA – Vehicle Fraud – 2001  
Fire Department Instructor’s Conference (FDIC West), Sacramento CA – Vehicle Fires – 5/2001  
California Home Inspector’s Association Conference – Fire Prevention – 5/2001  
Stockton Fire Department – Vehicle Training Burns – 5/2001  
American River College – Introduction to Arson Investigations – 4/2002  
National Association of Marine Surveyor’s (NAMS) Conference – Vessel Fires – 9/2002  
Northern California Insurance Claims Association - Vehicle Fires (Stockton, CA) -2006  
Central California Insurance Claims Association - Vehicle Fires (San Jose, CA) - 2006

### **Publications**

Provided Reference Material for IAAI Vehicle Section of NFPA 921  
Provided Reference Material for IAAI NFPA 921 Study Guide (Vehicle Section)  
Provided Reference Information to Dr. John DeHaan used in Kirks 5<sup>th</sup> Edition.  
Forensic Vehicle/Vessel Investigation (book in progress)  
Provided Reference Information to Joe Konafel used in Cal Fire Investigation Trainer (Vehicle Section)

### **Professional Organizations**

Member of California Conference of Arson Investigators  
Member of International Association of Arson Investigators  
Member of Oregon Chapter of the International Association of Arson Investigators  
Member of National Automotive Service Excellence Group

**Experiment-Testing-Witnessed Live Burns**

128 Vehicle Controlled Test Burns including staged mechanical failures and intentional sets, ignitable/combustible liquid burns including gasoline, diesel fuel, glycol, brake fluid, motor oil, automatic transmission fluid, power-steering fluid, windshield-washer fluid.

Building burns

Metal melting testing

AAA dry-cell battery resistance heat experiment

AA dry-cell battery resistance heat experiment

D dry-cell battery resistance heat experiment

C dry-cell battery resistance heat experiment

12-volt resistance heating experiments

115-volt resistance heating experiments

230-volt resistance heating experiments

24-volt resistance heating experiments

Cellulose insulation experiment burns

12-volt lamp conduction heating experiments

115-volt lamp conduction heating experiments

Witnessed explosions

Witnessed gun power burning

Witnessed 12-volt battery explosion

Witnessed gas filled strut explosions

Carburetor backfire experiments and non-controlled backfires.

12 and 24-volt circuit protection device operation

Compression testing engines

Witnessed brake failure

Witnessed automatic transmission failure

Witnessed gasoline combustion engine failure

Witnessed starter motor failure

Exhaust manifold ignition experiments

Fuel failure experiments

Upholsterer burn experiments.

Flashover test burns (Steve Carman)(John Dehaan)(Joe Konefal)

Ignition security defeating experiments (Forest Flock)

Arc mapping and testing (Kevin Brown and Self)

Revised

7.7.2008