



RON HALL & ASSOCIATES

LIC #PI-7513-C

FIRE ANALYSIS & RESEARCH

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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

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Education Cont'd.

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
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
California Conference of Arson Investigators- 2008
 NFPA 921 review
 Problem Solving Techniques in Fire Investigation
CCAI Round Table Workshop 12/2008 4 hours

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
California State Fire Marshal 1A- Vehicle Fire Investigation- 2/2009 Sacramento, CA
California State Fire Marshal 1A- Vehicle Fire Investigation 4/2009 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
Central Valley California Insurance Claims Association – Ford Speed Control Deactivation Switch
(Concord, CA) 3/2009

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 5th 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
5.24.2009