

JOHN POWELL WHITE CURRICULUM VITAE

AREA OF SPECIALIZATION

John is the Managing Engineer and a partner at Fire Cause Analysis. He has an educational background in the chemical, mechanical, and fire protection engineering.

Background:

John Powell White has an extensive educational background as a Chemist and laboratory scientist through The University of California, Berkeley. He also holds a Masters of Science degree in Fire Protection Engineering from Worcester Polytechnic Institute, Massachusetts. He is a licensed Fire Protection Engineer in the State of California.

His primary responsibility as an Associate Engineer include evidence and appliance testing, fire safety analysis, passive and active fire protection system evaluation, reporting, as well as fire modeling, and multi-dimensional heat transfer analysis. John has served as project manager for Fire Cause Analysis and is the technical link between the engineering staff and fire investigation personnel.

Most recently John has been involved with large scale projects and contracts involving light and heavy rail car material fire safety and steel construction fire protection analysis.

EDUCATION & CERTIFICATIONS

Fire Investigation 1A, 1B, 2A, 2B –
California State Fire Marshall's Office

2010 – 2011

Registered Professional Engineer –
Fire Protection

License# 1753

Worcester Polytechnic Institute, Worcester MA
Fire Protection Engineering, Master's of Science

May 2010

Relevant Coursework Completed

- Fire Dynamics – Focus on computational fluid dynamics
- Fire Modeling – Fire Dynamic Simulator and Computational Fluid Dynamic focus
- Fire and Product Failure Investigation – Documentation and Reporting
- Explosion Studies – Focus on modeling and prevention/suppression design
- Detection – Temperature, heat, and smoke design systems and modeling
- Failure Analysis – Explosion, fire, vehicle, appliance and water loss investigation
- Suppression – Design and operation of fire suppression/extinguishing systems
- Physiology and psychology in fires – Computational and experimental egress study

University of California, Berkeley CA

- Chemistry, Bachelor of Science December 2004

Santa Rosa High School, Santa Rosa, CA

- High School Diploma May 2001

Engineer in Training (FE License 130919)

January 2008

LEGAL

Expert Witness Deposition

CIV 494462

Leary v. Merrill Properties and Sandra Pugh

Provided testimony to candle burning properties including ignition, burning characteristics, and duration. Provided opinion regarding competency of candle ignition source.

Witness Deposition (Non-Expert)

State of Texas Case No. 067-222686-07

Racquel Guadiana. Individually and as a representative of the Estate of Erik Robles, deceased vs Sandhill Properties, LLP

State of Texas Case No. 348-229743-08 *Tonia Roberts, Individually and as Next Friend for Natasha Riekeman, a minor child vs. Flexible Foam Products, et. al.*

Provided deposition testimony supporting technical work for Dr. Joseph Zicherman regarding polyurethane foam flamespread and compartment flashover modeling.

PUBLICATIONS

Contributing Editor

Continuing Education of the Bar, California. Scientific Evidence in California Criminal Cases, Origin & Cause of Fire. Section 12, pp. 505 – 588. The Regents of the University of California, September 2011.

PROFESSIONAL DEVELOPMENT

- **Member** – Northern California/Nevada Chapter of the Society of Fire Protection Engineers, 2011 – Present.
- **Member** – National Fire Protection Association, Research Division, 2009 – Present.
- **Member** – National Society of Professional Engineers 2008 – Present.
- **Fire and Materials Conference 2009** – San Francisco, California. The Hyatt at Fisherman’s Wharf.
- **Member**, Society of Fire Protection Engineers (SFPE), 2005-Present
- **Skillpath Management Seminar**, Heald Business College. Concord, California, May 2007.
- **Santa Clara County Fire Investigation Task Force Conference - Tested**, “Gas & Electrical Appliance Fires” Sunnyvale, California, September 2006

PROFESSIONAL EXPERIENCE

2011-Present **Managing Engineer and Partner**

- Fire and thermal engineering analysis
- Fire investigations
- Field testing and evaluations
- CFD modeling, analysis of heat transfer, fire, and smoke dynamics
- Product design testing and failure analysis
- Signed and stamped reporting
- Responsible for case management and review
- Day-to-day and long-term business development

2008-2011 **Associate Engineer**

- Responsible for field measurements and data collection
- Planning and implementing numerous field tests including live burns, water leak analysis, and mechanical failure.
- Signed reporting under supervision of PE
- Analysis and reporting on passive and active Fire Protection Systems
- Failure analysis of appliances and mechanical systems
- Computer and CFD modeling of heat transfer and fire/smoke dynamics

2007-Present **Technical Services Coordinator**, Fire Cause Analysis, Berkeley, CA

- Supervised junior technical staff and evidence technicians
- Responsible for hiring, termination, and compensation adjustment
- Implementation of evidence storage and transfer protocols

- Large project supervision and coordination

2004-2008 **Research Associate**, Fire Cause Analysis, Berkeley, CA

- Providing technical support
- Performing code research work and code analysis
- Setting up and performing live burn tests
- Designing and engineering large-scale paper treatment device
- Quality control evaluation and testing of products

COMPUTER SKILLS

- Microsoft Windows, Word, Excel, PowerPoint, Access, Outlook, Explorer, Adobe Acrobat, Adobe Photoshop, Adobe Illustrator, SmartDraw, MATLAB, MathCAD, AutoCAD, FileMaker Pro, Labtech/Labview, CFAST, SMOKEVIEW, Fire Dynamic Simulator, Pyrosim.

VOLUNTEER & EXTRACURRICULAR ACTIVITIES

Jan. 2009 **East Bay Area Claims Association Meeting**

- Co-presenter on topics of engineering analysis

Sep. 2007 **UC Berkeley College of Chemistry “Fast Forward to Your Future”**

- Presenting panel member
- Serve as contact and reference for careers in chemical forensics

2002-Present **Alpha Chi Sigma, Professional Member, Sigma Chapter**

- Volunteer - National Chemistry Week
- Volunteer - Family Science Night
- Performed chemistry presentations at Oakland’s Children’s Hospital
- Chapter President Fall 2003