



## BURLINGTON COUNTY FIRE MARSHAL'S ASSOCIATION ANNUAL TRAINING SEMINAR

Where: Burlington County Emergency Services Training Center  
53 Academy Drive, Westampton, NJ 08060

Date: Friday – September 25, 2015

TIME: 0800 – 1600

COST: \$50.00 per person

Price Includes: Light breakfast (Coffee, tea, juice, bagels, donuts) and Lunch  
Certificate of attendance  
***(0.5 Technical Inspector/Official CEU's will be awarded by the NJ Division of Fire Safety)***

Speakers & Topics Include:

### **Adam St. John**

Fire Research Engineer  
Bureau of Alcohol, Tobacco, Firearms and Explosives  
ATF Fire Research Laboratory

### **Ventilation Flow Paths, Fire Growth, and Ventilation Fed Fires**

- **Course Description:** This course will cover in detail several recent fire dynamics studies with a focus on the effects of ventilation. Several Firefighter Line of Duty Death (LODD) Investigations will be discussed to illustrate the cause and effects of buoyancy driven ventilation flow paths. ATF Fire Research Laboratory produced a Fire Dynamics Simulator (FDS) computer model of a particular LODD that occurred in January 2011 in Baltimore County Maryland. The methodology used to create the fire model and the conclusions derived from the computer fire model will also be discussed. Recent research on ventilation limited fires, fire pattern formation and the effects of fire department suppression operations will also be discussed. The presentation will conclude with live fire table-top model that details the fire dynamics topics discussed in the class.
  - Fire testing videos showing the effects of ventilation on compartment fire dynamics
  - A focus on actual firefighter LODD case studies where buoyancy driven flows have been a significant factor
  - A review and application of Fire Dynamics Simulator and how it can be applied forensically to a case
  - All concepts will be reinforced using a live-fire demonstration showing the effects of ventilation
  - All concepts will be approached on a basic level, relating the ventilation concepts to photos and videos of fires that investigators encounter on a daily basis

### **Jessica Gotthold**

Senior Special Agent, CFI, CES  
Bureau of Alcohol, Tobacco, Firearms and Explosives

### **Fire and Explosives Scene Documentation and Presentation**

- The Legal Means to Conduct an O & C Investigation: Michigan v. Tyler & Michigan v. Clifford
- The First Response: Do's and Don'ts
- Approaching the Physical Scene: Evidence documentation, collection and preservation, cross contamination, & spoliation
- Utilizing Investigative Tools: Canines, Chemists, Engineers, Forensic Auditors, Polygraph, CFI – CES – NRT
- Utilizing the Scientific Method
- The Origin and Cause Report

Any question please contact Bob Carr at 609-702-7158 ext. 3951 or by e-mail at [bcarr@co.burlington.nj.us](mailto:bcarr@co.burlington.nj.us)

**Instructor Biography's**

**Senior Special Agent, CFI, CES  
Bureau of Alcohol, Tobacco, Firearms and Explosives  
United States Department of Justice**

Sr. Special Agent Jessica Gotthold has been with ATF since 1987. Between 1990 and 2000 she served on ATF's National Response Team, responding to large-scale bombings and fire scenes throughout the country. Agent Gotthold has been an ATF Certified Explosives Specialist since 1994, an ATF Certified Fire Investigator since 1996, and is certified as a Fire Investigator I and II in New York State. As an expert witness in fire origin and cause she has testified in both criminal and civil judicial proceedings, on state and federal levels.

Agent Gotthold is a member of the NFPA 1035 Technical Committee since 2002, which is the Professional Standard for Fire & Life Safety Educator, Public Information Officer, Youth Fire setter Intervention Specialist and Youth Fire setter Program Manager. In 2004, Agent Gotthold helped create a pilot program for the International Association of Arson Investigators entitled, "Investigation of Youth Set Fires." The same year she published an article entitled, "Not My Child: The Danger in Overlooking Juvenile Fire setting," appearing in the *Winter 2004 Edition of Hot Issues*. Also in 2004, Special Agent Gotthold was assigned the task of coordinating all of ATF's explosives personnel for the Republican National Convention in New York.

In 2009 Special Agent Gotthold received the Director's Internal Award, the highest award bestowed upon an ATF employee, for her extensive work in the field of juvenile fire setting and bomb-making. She has also been a member of the New Jersey Division of Fire Safety's Juvenile Fire setter Intervention Committee since 2004. Since 2011 SACFI Gotthold has been teaching a class on behalf of ATF on Juvenile Fire setting and Arson for the FBI National Academy at Quantico, VA. In 2012, Agent Gotthold was invited to participate as a member of a panel of experts in the creation and evaluation of a national juvenile fire setter database. This project is sponsored by the International Association of Fire Fighters.

SACFI Gotthold holds a Bachelor of Science degree in Telecommunications Production for Electronic Media from the S.I. Newhouse School of Public Communications at Syracuse University.

**Adam St. John  
Fire Protection Engineer  
Bureau of Alcohol, Tobacco, Firearms and Explosives  
United States Department of Justice**

Adam St. John is a licensed Fire Protection Engineer with the ATF Fire Research Laboratory in Beltsville, Maryland where he has worked for the past five years. Adam conducts full-scale fire testing in support of ATF's Certified Fire Investigators and has testified as an expert witness in criminal court. Adam is also member of the ATF National Response Team where he has responded on several callouts around the nation. Adam specializes in firefighter line of duty investigations and teaching fire investigators and members of the fire service. Adam remains an active volunteer Fire Officer in a busy suburban fire department for over 13 years.

**\*\* Deadline for sign up is September 16, 2015 \*\***

**Registration Form**

Burlington County Fire Marshal's Association Training Seminar

September 25, 2015 0800-1600

Sponsoring Organization:

Daytime Phone Number:

Billing Address:

Total Check/P.O. Amount: \$

Attendee: \_\_\_\_\_ Attendee: \_\_\_\_\_

Attendee: \_\_\_\_\_ Attendee: \_\_\_\_\_

Attendee: \_\_\_\_\_ Attendee: \_\_\_\_\_

**Make checks/purchase orders out to "Burlington County Fire Marshal's Assoc."**

Mail registration form with payment to: Burlington County Fire Marshal's Association  
53 Academy Drive  
Westampton, NJ 08060