



# California Association of Criminalists

## 115<sup>th</sup> Semi-Annual Seminar

April 19 through 23, 2010

Fresno, CA



### Workshop Descriptions

Visit [www.cacnews.org](http://www.cacnews.org) for additional information about the seminar.

**Alcohol Correlation Study – Limited to 15-20 Participants (to include drinkers, handlers, and observers) Tuesday April 20, 2010 8 a.m. to 5 p.m.**

This workshop will evaluate how the amount of alcohol an individual consumes affects their overall behavior and ability to safely operate a motor vehicle. There will also be discussion of the often asked question, “at what alcohol level are all persons impaired to safely operate a motor vehicle?”

Various tasks such as typing, video/board games, and field sobriety tests (directed by experienced police officers) will be conducted to examine such effects as divided attention and judgement. The study will also correlate blood, urine, and breath alcohol levels (utilizing two breath testing instruments). Other factors which may be examined include tolerance, gender, age, and medication.

All participants will have an active roll in the workshop and results of the study are to be published in the CAC News. Further instructions will be provided to workshop participants.

Snacks, drinks, and lunch will be provided.

**Uncertainty of Measurement Workshop– Limited to 20 Participants  
Tuesday, April 20, 2010 8 p.m. to 12 p.m. Instructor: Dr. Eric Persons**

Uncertainty and sources of error are becoming increasingly central to forensic analysis in accredited laboratories. This practical hands-on half day workshop is designed to help analysts develop a foundational understanding and comfort with experimental uncertainty and error as it relates to common forensic measurements. Participants will describe experimental uncertainty and error and their connection to all measurements. Using measurement exercises and group work they will learn to identify and rank likely sources of experimental uncertainty and error in practical scenarios. They will be able to assess whether a level of uncertainty is acceptable within a practical scenario. Participants will be oriented in scientifically accepted ways to document experimental uncertainty and error. Suggestions on orally presenting information will be addressed.

Lunch will not be provided.

**3D Laser Scanning of Shooting Scenes and Trajectories Workshop – Limited to 20-25 Participants** Tuesday, April 20, 2010 8 a.m. to 5 p.m.  
**Instructors: Mike Haag & Tony Grissim**

Some of the topics this workshop will cover include: How scanners work, validation procedures for scanners and their use as trajectory devices, scene scanning approach, accuracy and precision of trajectory measures, scan registration, trajectory representation within scan worlds, and measuring in scans.

The first half of the session will include live fire in a mock scene followed by scanning of the scene and trajectories and will be held at the Sun Mountain Gun Club. The second half of the class will take place in the classroom back at the Tenaya Lodge, and will be comprised of registration of multiple scans together, as well as analysis of the scanned trajectories. The data will be treated up to a point that simulates a preliminary presentation to interested parties. Additionally, actual scanned cases will be presented.

Transportation will be provided from the Tenaya Lodge to the Sun Mountain Gun Club and back.

Lunch will be provided.

**DNA Workshop – Unlimited Participants**  
**Tuesday, April 20, 2010 8 a.m. to 5 p.m.**

This is a full day workshop intended to satisfy the FBI Quality Assurance Continuing Education requirement. The presentations will include various topics including: mixture interpretation, statistics, challenging samples, Y-STR, MiniFiler, and the CHOP Program.

Lunch will be provided.