

Workshop 15: Oral Fluid Testing: An Automatic Answer?

Date: Tuesday, October 31

Time: 1:30-5:30 PM

Cost:

MEMBER RATES		
Early Bird Registration June 1 – Aug 31 \$150	Late Registration Begins Sept 1 \$175	On-site Registration Begins October 11 \$200
NON – MEMBER AND DAILY RATES		
Early Bird Registration June 1 – Aug 31 \$200	Late Registration Begins Sept 1 \$225	On-site Registration Begins October 11 \$250

Chairs

Robert Lockwood, Ph.D.

Senior Forensic Scientist

Alabama Department of Forensic Sciences

Robert.Lockwood@ads.alabama.gov

Kristin Tidwell, D-ABFT-FT

Toxicology Section Chief

Alabama Department of Forensic Sciences

Kristin.Tidwell@ads.alabama.gov

Abstract

The SOFT Oral Fluid and Applied Analytical Toxicology committees present a joint workshop discussing the analysis of oral fluid. The prevalence of oral fluid as a specimen for driving under the influence (DUI) testing continues to increase nationally and internationally; however, the implementation of oral fluid into a forensic laboratory setting can be difficult based on legislative as well as analytical challenges. These challenges may inhibit laboratories from incorporating oral fluid analysis into their testing workflow. This half-day workshop will serve to highlight several agencies who have taken the “plunge” into the world of oral fluid testing. Analytical workflows including automated sample preparation will be emphasized as the matrix is optimal for this technique. The workshop will open with an introduction regarding considerations a laboratory should make when implementing oral fluid testing, then shift to the utilization of automated extraction procedures, followed by examples of laboratories that implemented oral fluid testing workflows. Presenters will highlight their laboratory processes and provide discussion points regarding development and implementation considerations that were made. After completing the workshop, participants will have a better understanding of technologies and procedures available and considerations to make when implementing oral fluid testing in their laboratory.

Learning Objectives

1. Provide participants with an introduction to oral fluid as a tool for DUI/D testing
2. Present to the audience methods for analyzing oral fluid with and without automated sample preparation procedures
3. Discuss elements that need to be considered when conducting oral fluid testing such as the practice of a 4x dilution and uncertainty of measurement.

Faculty

Robert Lockwood, Ph.D.
Senior Forensic Scientist
Alabama Department of Forensic Sciences

Kristin Tidwell, D-ABFT-FT
Toxicology Section Chief
Alabama Department of Forensic Sciences

Rebecca Wagner, Ph.D.
Research Section Supervisor
Virginia Department of Forensic Science

Gregory Janis
Research and Development AVP
LabCorp

Luke Rodda, Ph.D., MRACI CChem
Chief Forensic Toxicologist
San Francisco Office of the Chief Medical Examiner

Bridget Lemberg, M.S.
Lab Director
Forensic Fluids Laboratories

Audience Knowledge Level

Intermediate - Involves more advanced concepts requiring some technical working knowledge or prior exposure to the subject matter

Workshop Agenda

Time	Topic	Speaker
1:30 – 1:45 pm	Introduction	Robert Lockwood & Kristin Tidwell
1:45 – 2:20 pm	Considerations for oral fluid testing	Robert Lockwood
2:20 – 2:55 pm	Labcorp oral fluid method	Gregory Janis
2:55 – 3:30 pm	Alabama oral fluid testing processes	Kristin Tidwell
3:30 – 4:00 pm	Break	
4:00 – 4:30 pm	Virginia automation techniques	Rebecca Wagner
4:30 – 4:45 pm	Australia oral fluid testing	Luke Rodda
4:45 – 5:15 pm	Forensic Fluids oral fluid testing	Bridget Lemberg
5:15 – 5:30 pm	Q&A	<i>Panel</i>