Robert F. Borkenstein Center for Studies of Law in Action

The Effects of Drugs on Human Performance and Behavior
September 19th – 23rd, 2016

Chemical Heritage Foundation, Philadelphia PA

Executive Director: Barry K Logan
Associate Course Director: Patrick Harding
Course Manager: Joseph Turner
Course Administrator: Chelsea Opperman

Sunday, September 18th

4:00 - 6:00 pm
Registration – The Franklin Hotel at Independence Park

Monday, September 19th

7:30 – 8:00am
Registration – Chemical Heritage Foundation

8:00 – 8:15
Introduction and Welcome
Joseph Turner, Course Manager

8:15 – 9:00
DUID and Overview of Approaches to Drug Impaired Driving Casework
Barry K. Logan, PhD, The Center for Forensic Science Research and Education

9:00 – 9:15 – BREAK

9:15 – 10:30
The National Roadside Survey and Crash Risk Assessment
John Lacey, PIRE

10:30 – 10:45 – BREAK

10:45 – 12:00
The Drug Recognition Expert (DRE) Program
Joseph Turner, Muncie, Indiana

12:00 – 1:00 – LUNCH

1:00 – 2:00
Principles of Pharmacology and Drug Effects – Stimulants and Hallucinogens
Lionel Raymon, PhD, NOVA Southeastern
2:00 – 3:00
Cocaine and Methamphetamine: Effects on Human Performance and Behavior
Daniel Isenschmid, PhD, NMS Labs

3:00 – 3:15 – **BREAK**

3:15 – 4:15
Hallucinogens and “Bath Salts”: Effects on Human Performance and Behavior
Donna Papsun, NMS Labs

4:15 – 5:00
MDMA – Effects on Actual Driving Performance
Jan Ramaekers, PhD, Maastricht University, the Netherlands

6:00 – 9:00
Social Hour, Welcome Dinner and Cash Bar
Ullyot Hall North, Chemical Heritage Foundation

**Tuesday, September 20th**

8:00 – 8:30
Principles of Pharmacology and Drug Effects – Cannabinoids
Lionel Raymon, PhD, NOVA Southeastern

8:30 – 9:30
Cannabis: Effects on Human Performance and Behavior
Marilyn Huestis, PhD, Huestis & Smith Toxicology, LLC.

9:30 – 9:45 – **BREAK**

9:45 – 10:45
Cannabis: Effects on Human Performance and Behavior (continued)
Marilyn Huestis, PhD, Huestis & Smith Toxicology, LLC.

10:45 – 11:00 – **BREAK**

11:00 – 12:00
Cannabis: Effects on Human Performance and Behavior (continued)
Marilyn Huestis, PhD, Huestis & Smith Toxicology, LLC.

12:00 – 1:00 – **LUNCH**

1:00 – 2:30
On Road Driving Studies: Cannabis
Jan Ramaekers, PhD, Maastricht University, the Netherlands

2:30 – 2:45 – **BREAK**
2:45 – 3:45  
Synthetic Cannabinoids - Effects on Behavior and Performance  
Sherri Kacinko, PhD, NMS Labs

3:45 – 4:00 – BREAK

4:00 – 5:00  
Principles of Pharmacology and Drug Effects – Opiates  
Lionel Raymon, PhD, NOVA Southeastern

**Wednesday, September 21**

8:00 – 9:30  
Opiates: Effects on Human Performance and Behavior  
Karen Scott, PhD, Arcadia University

9:30 – 9:45 – BREAK

9:45 – 10:45  
Principles of Pharmacology and Drug Effects – Benzodiazepines and CNS Depressants  
Lionel Raymon, PhD, NOVA Southeastern

10:45 – 11:00 – BREAK

11:00 – 12:00  
Carisoprodol, Butalbital and Topiramate: Effects on Human Performance and Behavior  
Barry K. Logan, PhD, The Center for Forensic Science Research and Education

12:00 – 1:00 – LUNCH

1:00 – 2:15  
Benzodiazepines, Zolpidem and other Imidazopyridines and Driving Impairment  
Jayne Thatcher, PhD, Virginia Department of Forensic Science

2:15 – 2:45 – BREAK and CLASS PHOTOGRAPH

2:45 – 4:15  
Faculty Q&A Panel

5:00 – 7:00  
Wine and Cheese Reception  
**Sponsored by the Center for Forensic Science Research and Education**  
**Overlook Lounge, Chemical Heritage Foundation**

**Thursday, September 22**

8:00 – 9:15  
CNS Depressants: Antidepressants and Anxiolytics – On-Road Driving Studies  
Jan Ramaekers, PhD, Maastricht University, The Netherlands
9:15 – 9:30 – **BREAK**

9:30 – 10:30
National Safety Council Recommendations for Drug Testing in DUID Investigations
Laura Liddicoat, Toxicology Fellow, National Safety Council

10:30 – 10:45 – **BREAK**

10:45 – 12:00
Online Resources and Literature Searching for Drug-impaired Driving
Jeff Teitelbaum, MLIS, Washington State Patrol Crime Lab, Seattle WA

12:00 – 1:00 – **LUNCH**

1:00 – 1:45
Oral Fluid Drug Testing: Opportunities and Challenges
Barry K. Logan, PhD, The Center for Forensic Science Research and Education

1:45 – 2:00 – **BREAK**

2:00 – 3:15
Forensically Defensible Drug and Alcohol Testing in DUID - Laboratory Aspects
Bruce Goldberger, PhD, University of Florida College of Medicine

2:00 – 3:15
DRE Moot Court Exercise
Joseph Turner, Muncie, Indiana; Deena Ryerson, Traffic Safety Resource Prosecutor, Oregon; Justin McShane Esq., The McShane Law Firm, Harrisburg PA

3:15 – 3:30 – **BREAK**

3:30 – 5:00
Forensically Defensible Drug and Alcohol Testing in DUID - Laboratory Aspects (continued)
Bruce Goldberger, PhD, University of Florida College of Medicine

3:30 – 5:00
DRE Moot Court Exercise, continued
Joseph Turner, Muncie, Indiana; Deena Ryerson, Traffic Safety Resource Prosecutor, Oregon; Justin McShane Esq., The McShane Law Firm, Harrisburg PA
Friday, September 23rd

8:00 – 9:30
Presenting Drug Impairment Evidence in Court – Prosecution Perspective
Deena Ryerson, Traffic Safety Resource Prosecutor, Oregon

9:30 – 9:45 – BREAK

9:45 – 10:45
Presenting Drug Impairment Evidence in Court – Defense Perspective
Justin McShane Esq., The McShane Law Firm, Harrisburg PA

10:45 – 11:00 – BREAK

11:00 – 11:45
Faculty Panel on Testimony Issues in DUID

11:45 - Noon
Wrap Up and Presentation of Certificates
Joseph Turner & Barry Logan