

**THE ROBERT F. BORKENSTEIN COURSE ON ALCOHOL,  
AND HIGHWAY SAFETY: TESTING, RESEARCH AND LITIGATION**  
Founded by Robert F. Borkenstein, Professor Emeritus, Indiana University

**SCHEDULE**

April 25<sup>th</sup>-30<sup>th</sup>, 2010  
Center for Studies of Law in Action

*Barry K. Logan Ph.D., Executive Director*  
*Jere Joiner, Course Director*  
*Suz Frederickson, Program Coordinator*  
*Darlana Lindsay, Program Assistant*

All sessions will be held in the **Frangipani Room** at the Indiana Memorial Union Building on the Bloomington, IN campus of Indiana University. Attendance at all sessions is mandatory except by permission of the Course Director. (All times listed are Eastern Time)

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**Sunday, April 25, 2010**

- 11:30 A.M. - Noon** Registration, distribution of course materials, and payment of fees.  
**Light lunch provided.**
- 12:00 - 12:15** **Orientation**
- 12:15 – 1:15** **The Legal Framework for DUI – Constitutional Issues and Case Law**  
Hon. Robert H. Montgomery, Jr., Judge,  
Sullivan County, Tennessee
- 1:15 – 1:30** **Break**
- 1:30 – 2:30** Montgomery (Cont'd)
- 2:30 – 2:45** **Break**
- 2:45 – 3:45** Montgomery (Cont'd)
- 3:45 – 4:00** **Break**
- 4:00 – 5:00** **Historical Perspectives on Alcohol Testing in Traffic Law Enforcement**  
Dr. Kurt M. Dubowski, George Lynn Cross Distinguished Professor Emeritus  
Of Medicine, University of Oklahoma College of Medicine
- 6:00 -- 9:00** Attendees are invited to join the faculty for dinner and cash bar in the Tudor Room.

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**Monday, April 26<sup>th</sup>, 2010**

- 7:45 a.m.** Light breakfast provided.
- 8:00 – 8:15** **Review Questions: Legal Framework for DUI**
- 8:15 – 9:15** **Chemistry and Biochemistry of Alcohol**  
  
Dr. Barry K. Logan,  
Executive Director, Center for Studies of Law in Action, IU  
Director of Toxicological Services, NMS Labs, Willow Grove PA
- 9:15 - 9:30** **Break**
- 9:30 – 10:45** **Pharmacology of Alcohol**  
  
Dr. Robert B. Forney, Jr., Chief Toxicologist, Office of Lucas County Coroner, Toledo, Ohio; and Clinical Associate Professor, Medical University of Ohio
- 10:45 – 11:00** **Break**
- 11:00 – 12:00** Forney (Cont'd)
- 12:00 – 1:00** **Lunch**
- 1:00 – 2:00** Forney (Cont'd)
- 2:00 – 2:15** **Break**
- 2:15 – 3:45** **Application of Standardized Field Sobriety Tests**  
**(Followed by Demonstration of Fatal Vision Goggles)**  
Mr. Joseph Turner, Indiana Criminal Justice Institute
- 3:45 – 4:00** **Break**
- 4:00 – 5:00** **Guest Faculty: Ongoing Epidemiological Research in DUI**  
Dr Robert A Voas, Pacific Institute for Research and Evaluation (PIRE)

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**Tuesday, April 27<sup>th</sup>, 2010**

- 7:45 a.m.** Light breakfast provided.
- 8:00 – 8:15** **Review Questions: Chemistry of Alcohol, Pharmacology of Alcohol, SFST's**
- 8:15 – 9:15** **Biochemical and Physiological Research on the Disposition and Fate of Alcohol in the Body.**  
  
Dr. A.W. Jones, Department of Alcohol Toxicology  
National Laboratory of Forensic Chemistry, Sweden
- 9:15 – 9:30** **Break**
- 9:30 – 10:30** Jones (Cont'd)

- 10:30 – 10:45 Break**
- 10:45 - 12:00 Breath Alcohol Instrumentation**  
Mr. J. Robert Zettl, Forensic Consultants, Inc.
- 12:00 – 1:00 Lunch**
- 1:00 – 2:15 Blood-Alcohol Analysis: Principles and Practice**  
Dr. Barry K Logan, CSLA Executive Director, Director of Forensic Services, NMS Labs
- 2:15 – 2:30 Break**
- 2:30 – 3:45 ASCLD-LAB Accreditation for Breath Alcohol Calibration Laboratories**  
Mr. Randall Beaty, Assistant Manager  
Texas Department of Public Safety
- 3:45 – 4:00 Break**
- 4:00 – 5:00 Traceability and Estimating Uncertainty in Alcohol Analysis**  
Mr. Rodney Gullberg, Washington State Patrol

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**Wednesday, April 28<sup>th</sup>, 2010**

- 7:45 a.m. Light breakfast provided.**
- 8:00 – 8:15 Review Questions: Biochemical and Physiological Research, Extrapolation, Breath Alcohol Instrumentation, Blood Alcohol Analysis, Accreditation and Uncertainty**
- 8:15 – 9:15 Retrograde Extrapolation and Worked Examples**  
Mr. Jim Wigmore, Forensic Alcohol Toxicologist  
Ontario Centre of Forensic Sciences (Retired)
- 9:15 – 9:30 Break**
- 9:30 – 11:00 Challenges to Alcohol Testing in Traffic Law Enforcement: Principles and Practice**  
Dr. Kurt Dubowski
- 11:00 – 11:15 Break**
- 11:15 – 12:15 Basic Principles of Mathematics and Statistics in Alcohol Toxicology**  
Mr. Rodney Gullberg
- 12:15 – 1:15 Lunch**
- 1:15 – 2:30 Alcohol and Driving Impairment**  
Dr. Barry K Logan, CSLA Executive Director, Director of Forensic Services, NMS Labs

- 2:30 – 2:45**      **Break**
- 2:45 – 4:30**      **The Current Scene Panel Discussion: Anderson, Beaty, Dubowski, Forney, Gullberg, Harding, Jones, Logan, Wigmore, Zettl. Joiner will be the moderator.**
- 5:00 – 7:00**      **Wine and Cheese Reception – Indiana University Art Museum**  
Sponsored by the Department of Criminal Justice/Indiana University
- BONUS:**          **7:00 p.m. – Mr. Rod Gullberg – Tutorial on Statistical Applications of Breath Alcohol Data – Oak Room in Tree Suites**

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**Thursday, April 29<sup>th</sup>, 2010**

- 7:45 a.m.**      **Light breakfast provided.**
- 8:00 – 8:15**      **Review Questions: Retrograde extrapolation, Challenges to Alcohol Testing in Traffic Law Enforcement: Principles and Practice,**
- 8:15 - 9:30**      **Recent Research on Forensic Alcohol Analysis**  
Dr. A. W. Jones
- 9:30 – 9:45**      **Break**
- 9:45 – 11:00**      **Forensic Alcohol Toxicology Databases and Their Courtroom Applications**  
Mr. Jim Wigmore
- 11:00 – 11:15**      **Break**
- 11:15 – 12:00**      **Analysis of Defense Challenges to Breath-Alcohol Testing**  
Mr. Patrick Harding, Wisconsin State Laboratory of Hygiene
- 12:00 – 1:00**      **Lunch**
- 1:00 – 2:00**      **Harding (Cont'd)**
- 2:00 – 2:15**      **Break**
- 2:15 – 3:15**      **Harding (Cont'd)**
- 3:15 – 3:30**      **Break**
- 3:30 – 5:00**      **Legal Challenges and Controversies – Source Code and Melendez-Diaz**  
Boris Moczula, Deputy Director, Office of the Attorney General, New Jersey
- BONUS:**          **7:00 p.m. – Mr. Rod Gullberg – Tutorial on Statistical Applications of Breath Alcohol Data – Walnut Room in Tree Suites**

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**Friday, April 30<sup>th</sup>, 2010**

- 7:45 a.m.**      **Light breakfast provided with take away snacks.**
- 8:00 – 8:15**      **Review Questions: Recent Research, Alcohol Databases, Analysis of Defense Challenges**
- 8:15 – 9:15**      **Expert Testimony**  
Ms. Mary Anderson, Deschutes County District Attorneys' Office, Bend, Oregon
- 9:15 – 9:30**      **Break**
- 9:30 -10:30**      Anderson (Cont'd)
- 10:30 – 10:45**      **Break**
- 10:45 – 11:30**      **Expert Testimony Panel and Q & A**  
Ms. Mary Anderson  
Mr. Patrick Harding  
All available faculty
- 11:30 – 11:45**      **Break**
- 11:45 – 12:00**      **Distribution of Certificates and Close of Course**  
Mr. Jere Joiner

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