

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

SCHEDULE

May 10th – 15th, 2009
Center for Studies of Law in Action

Barry K. Logan Ph.D., Executive Director
Jere Joiner, Course Director
Suz Frederickson, Program Coordinator
Darlena 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.

Sunday May 10th, 2009

- 4:00 – 6:00** Registration (Frangipani Room)
6:00 – 8:00 Welcome Dinner (State Room East/West)

Monday May 11th, 2009

- 7:00 – 8:00** Registration, distribution of course materials, and payment of fees.
Coffee, hot tea, orange juice, breakfast snacks and whole fruit provided.
- 8:00 - 8:15** **Orientation**
- 8:15 - 9:15** **The Legal Framework for DUI – Constitutional Issues and Case Law**

Hon. Robert H. Montgomery, Jr., Judge,
Sullivan County, Tennessee
- 9:15 – 9:30** **Break**
- 9:30 – 10:45** Montgomery (Cont'd)
- 10:45 – 11:00** **Break**
- 11:00 – 12:00** **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
- 12:00 – 1:00** **Lunch**
- 1:00 – 2:00** Forney (Cont'd)

2:00 – 2:15 **Break**

2:15 – 3:15 Forney (Cont'd)

3:15 – 3:30 **Break**

3:30 – 4:15 **The Alcohol Tradition at Indiana University and Brief Historical Perspectives on Alcohol and Transportation**

Dr. Kurt M. Dubowski, George Lynn Cross Distinguished Professor Emeritus of Medicine, University of Oklahoma College of Medicine

4:15 – 5:00 **“0.08” Raising Awareness of DUI in the 1960’s**

Mr. Douglas Lucas, Former Director of the Center for Forensic Sciences

Tuesday May 12th, 2009

7:45 a.m. Coffee, hot tea, orange juice, breakfast snacks and whole fruit provided.

8:00 – 8:15 **Review Questions: Legal Framework for DUI and Pharmacology of Alcohol**

8:15 – 9:30 **Alcohol: Chemistry, Toxicology and Effects on Driving**

Dr. Barry K. Logan, Executive Director, Center for Studies of Law in Action, Indiana University

9:30 - 9:45 **Break**

9:45 – 10:45 **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

10:45 – 11:00 **Break**

11:00 – 12:00 Dr. A.W. Jones (Cont'd)

12:00 – 1:00 **Lunch**

1:00 – 2:30 **History and Application of Standardized Field Sobriety Tests**

Mr. Joseph Turner, Indiana State DRE Coordinator

2:30 – 2:45 **Break**

2:45 – 3:45 **Breath Alcohol Instrumentation**

Mr. Robert Zettl, Forensic Consultants, Inc.

3:45 – 4:00 **Break**

4:00 – 5:00 Zettl (Cont'd)

Wednesday, May 13th, 2009

- 7:45 a.m. Coffee, hot tea, orange juice, breakfast snacks and whole fruit provided.
- 8:00 – 8:15 **Review Questions: Alcohol: Chemistry, Toxicology and Effects on Driving, Biochemical and Physiological Research, Field Sobriety Tests, Breath Alcohol Instrumentation**
- 8:15 – 9:15 **Mathematics of Blood and Breath Alcohol Testing – Basic Principles**
Mr. Rodney Gullberg, Washington State Patrol
- 9:15 – 9:30 **Break**
- 9:30 – 10:45 **ASCLD-LAB Accreditation for Breath Alcohol Calibration Laboratories**
Mr. Randall Beaty, Assistant Manager, Texas Department of Public Safety
- 10:45 – 11:00 **Break**
- 11:00 – 12:00 **Mathematics of Blood and Breath Alcohol Testing – Error Estimation**
Mr. Rodney Gullberg, Washington State Patrol
- 12:00 – 1:00 **Lunch**
- 1:00 – 2:15 **Recent Research in Forensic Alcohol Analysis**
Dr. A.W. Jones, Department of Alcohol Toxicology
National Laboratory of Forensic Chemistry, Sweden
- 2:15 – 2:30 **Break**
- 2:30 – 4:00 **The Current Scene Panel Discussion:** Anderson, Dubowski, Forney, Gullberg, Harding, Jones, Logan, Wigmore, Zettl, Beaty. Joiner will be the moderator. **(Including a discussion of current Software challenges and the NSC position statement, by Dr. Dubowski)**
- 4:30 – 6:00 **Wine and Cheese Reception – Mathers 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

Thursday, May 14th, 2009

7:45 a.m. Coffee, hot tea, orange juice, breakfast snacks and whole fruit provided.

8:00 – 8:15 **Review Questions: Mathematics of Blood and Breath Alcohol, ASCLD-LAB Accreditation, Recent Research**

8:15 – 9:30 **Connections: People, Events, and Outcomes in Breath-Alcohol Analysis**

Dr. Kurt M. Dubowski, George Lynn Cross Distinguished Professor Emeritus of Medicine, University of Oklahoma College of Medicine

9:30 – 9:45 **Break**

9:45 – 10:45 **Widmarks Formula and Retrograde Extrapolation – Worked Examples**

Mr. Jim Wigmore, Forensic Alcohol Toxicologist
Ontario Centre of Forensic Sciences (Retired)

10:45 – 11:00 **Break**

11:00 – 12:30 **Forensic Alcohol Toxicology Databases and Their Courtroom Applications**

Mr. Jim Wigmore

12:30 – 1:30 **Lunch**

1:30 – 2:30 **Analysis of Defense Challenges to Breath-Alcohol Testing**

Mr. Patrick Harding, Wisconsin State Laboratory of Hygiene

2:30 – 2:45 **Break**

2:45 – 3:45 Harding (Cont'd)

3:45 – 4:00 **Break**

4:00 – 5:00 Harding (Cont'd)

BONUS:

**7:00 p.m. – Mr. Rod Gullberg – Tutorial on Statistical Applications of Breath Alcohol Data –
Oak Room in Tree Suites**

Friday, May 15th, 2009

7:45 a.m. Coffee, hot tea, orange juice, breakfast snacks and whole fruit provided.

8:00 – 8:15 **Review Questions: People, Events and Outcomes, Extrapolation, Forensic Alcohol Toxicology Databases, Analysis of Defense Challenges**

8:15 – 9:15 **Blood-Alcohol Analysis**

Mr. Patrick Harding, Wisconsin State Laboratory of Hygiene

9:15 – 9:30 Break

9:30 – 10:45 Expert Testimony

Ms. Mary Anderson, Deschutes County District Attorneys' Office, Bend, Oregon

10:45 – 11:00 Break

11:00 – 12:00 Anderson (Cont'd)

12:00 –12:15 Distribution of Certificates and Close of Course

Mr. Jere Joiner
