



INDIANA UNIVERSITY

BORKENSTEIN
COURSE

Center for Studies
of Law in Action

The Robert F. Borkenstein Course on
Alcohol and Highway Safety:
Testing Research and Litigation - May 2006

by
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Topic: Breath Alcohol Instrumentation & Quality Assurance

Reading Assignments:

1. Medical -Legal Aspects of Alcohol, Fourth Edition. Edited by James C. Garriott, Lawyers and Judges Publishing Company, Inc.

Chapter 7. Breath as a Specimen for Analysis for Ethanol and Other Low-Molecular –Weight Alcohols – Morton F. Mason, Ph.D. and Kurt M. Dubowski, Ph.D.

All Pages

Chapter 8. Methods for Breath Analysis – Patrick Harding, B.S.

All Pages

Chapter 20. Alcohol Testing in the Workplace – Kurt M. Dubowski, Ph.D. and Yale H. Caplan, Ph.D.

Section 20.5 - All Pages

2. Forensic Science Handbook, Volume 1, Second Edition, Richard Saferstein, Ph.D. Editor. Prentice Hall, Upper Saddle River, New Jersey 07458.

Chapter 12. The Determination of Alcohol in Blood and Breath – Yale H. Caplan, PhD,DABFT and J. Robert Zettl, BS, MPA, DABFE.

All Pages

3. Methodology and Quality Assurance in Forensic Breath Alcohol Analysis – R. G. Gullberg, Forensic Science Review, Volume Twelve, Number One/Two, January 2000.

4. Professor Robert F. Borkestein – An Appreciation of His Life and Work, – D. M. Lucas, Forensic Science Review, Volume Twelve, Number One/Two, January 2000.

5. Medicolegal Alcohol Determination – Breath-or Blood-Alcohol Concentrations? – A. W. Jones, Forensic Science Review, Volume Twelve, Number One/Two, January 2000.

6. Measuring Alcohol in Blood and Breath for Forensic Purposes – A Historical Review – A. W. Jones, Forensic Science Review, Volume Twelve, Number One/Two, January 2000.

7. Common Legal Challenges and Responses in Forensic Breath Alcohol Determination – Rodney G. Gullberg, Forensic Science Review, Volume Sixteen, Number Two, July 2004.

8. Common Legal Challenges and Responses in Forensic Breath Alcohol Determination – Rodney G. Gullberg, Forensic Science Review, Volume Sixteen, Number Two, July 2004.

9. Quality Assurance in Breath-Alcohol Analysis - Kurt M. Dubowski, Ph.D., Journal of Analytical Toxicology, Volume 18, October 1994.
10. Vapor-Alcohol Control Tests with Compressed Ethanol-Gas Mixtures: Scientific Basis and Actual Performance, Kurt M. Dubowski and Natalie A. Essary, Journal of Analytical Toxicology, Volume 20, October 1996.
11. Confirmation of Ethanol Compressed Gas Standard Concentrations by an NIST-Traceable, Absolute Chemical Method and Comparison with Wet Bath Alcohol Simulators, Lance D. Silverman, Ken Wong and Stephen Miller, Journal of Analytical Toxicology, Volume 21, September 1997.
12. Evaluation of a Portable Evidential Breath Alcohol Analyzer – Gerasimos Razatos, Ruth Luthi, Sarah Kerrigan, Forensic Science International, 153 (17-21), 2005.
13. Federal Register, Volume 67, Number 192, October 03, 2002, Model Specifications for Devices to Measure Breath Alcohol.
14. Federal Register, Volume 67, Number 192, October 03, 2002, Model Specifications for Devices to Measure Breath Alcohol.
15. Federal Register, Volume 62, Number 156, August 13, 1997, Model Specifications for Calibrating Units for Breath Alcohol Testers; Conforming Products List of Calibration Units.

Web Resources:

Alcohol and Traffic Safety-Related Sites on the Internet

American Academy of Forensic Sciences	www.aafs.org
AAA Foundation for Traffic Safety	www.aafts.org
Alcohol Countermeasure Systems	www.acs-corp.com
Bureau of Transportation Statistics	www.bts.gov
Canadian Safety Council	www.safety-council.org
CMI, Inc.	www.alcoholtest.com
Drug and Alcohol Testing Industry Association	www.datia.com
Draeger Breathalyzer Division	www.drager-breathalyzer.com
Guth Laboratories	www.guthlabs.com
Health and Human Services Drug Testing	www.health.org/workpl.htm
Insurance Institute for Highway Safety	www.carsafety.org
International Association for Chemical Testing	www.iactonline.org
Inter. Council on Alcohol, Drugs and Traf Safty	raru.adelaide.edu.au/icadts/
Intoximeters, Inc.	www.intox.com
Lifeloc	www.lifeloc.com
National Clearinghouse for Alc and Drug Info.	www.health.org
National Com for Clinical Laboratory Stds	www.nccls.org
National Highway Traffic Safety Admin	www.nhtsa.dot.gov
National Institute of Health	www.nih.gov
National Institute on Alc Abuse and Alcoholism	www.niaaa.nih.gov

National Institute on Drug Abuse	www.nida.nih.gov
NSC, Committee on Alcohol & Other Drugs	www.nsc.org
NPAS DataMaster	www.npas.com
PAS Systems International	www.sniffalcohol.com
Road Side Testing Assessment	www.rosita.org
Scott Specialty Gasses	www.scottgas.com
Society of Forensic Toxicologists	www.soft-tox.org
Sub Abuse & Mental Health Services Admin	www.samhsa.gov
Transportation Research Board	www.nas.edu/trb
U. S. Dept of Health and Human Services	www.hhs.gov
U. S. Department of Transportation	www.dot.gov

Breath Alcohol Instrumentation & Related Products Internet Sites

Draeger	www.draeger-breathalyzer.com
Intoxilyzer	www.alcoholtest.com
Intoximeters	www.intox.com
Guth Labs.	www.guthlabs.com
Lifeloc	lifeloc.com
NPAS/DataMaster	www.npas.com
Scott Gas	www.scottgas.com
Air Products	www.airproducts.com