



INDIANA UNIVERSITY

BORKENSTEIN
COURSE

Center for Studies
of Law in Action

Curriculum Vitae
Of
Patrick M. Harding

CURRICULUM VITAE

Name: Patrick M. Harding
Date of Birth: January 12, 1952
Address: Wisconsin State Laboratory of Hygiene
Toxicology Section
2601 Agriculture Drive, P.O. Box 7996
Madison, WI 53707-7996
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Position Description:

Supervisor, Toxicology Section, Wisconsin State Laboratory of Hygiene. Responsible for overall management of Toxicology Section. Perform chemical testing on biological materials for alcohol and other substances, DHSS alcohol analysis permit #AP-204. Provide research and scientific support for Wisconsin's breath alcohol testing program. Provide expert court testimony and interpretation of blood and breath alcohol results. Provide training and give seminars and presentations related to alcohol testing.

Education:

University of Southwestern Louisiana, Lafayette, LA, 1970 -1973
University of Wisconsin - Madison, 1974-1975
B.S. in Biochemistry, December, 1975

Professional Experience:

Research Assistant, Bjorksten Research Laboratories, 1974-1975
Chemist, Bjorksten Research Laboratories, 1976-1977
Chemist, State Laboratory of Hygiene, October 1977 - 2001
Breath Testing Specialist, 1982 - Present
Alcohol Program Coordinator, 1991 - 2001
Legal Alcohol Proficiency Testing Coordinator, 1990 - 2001
Toxicology Section Supervisor, 2001 – Present
Faculty Member, Robert F. Borkestein Course on Alcohol, Drugs and Highway Safety: Testing, Research and Litigation, December 2002 - Present

Selected Professional Training:

- Alcohol Pharmacology, State Laboratory of Hygiene, 1980
- Breathalyzer Technician, Madison, WI April 1982
- Breathalyzer Course, (Theory and Practical Application), Centre of Forensic Science, Toronto, Ontario, June 7-June 17, 1982.
- Basic Training Course for Breath Examiner Specialist, Ashland, WI, September, 1982.
- Technical Supervision of Breath Tests for Intoxication: Indiana University, Center for Studies of Law In Action, Bloomington, IN, February, 1984
- Intoxilyzer 5000, CMI, Minturn, CO, May, 1985

- Intoxilyzer 5000 and 1400 Breath Alcohol Analysis Instrument Operation & Maintenance & Repair, CMI, Madison, WI, February, 1993
- The Effects of Alcohol and Drugs on Human Performance and Behavior, American Academy of Forensic Sciences, Los Angeles, CA, August, 1998
- Intox EC/IR Factory Training, Intoximeters, Inc., St. Louis, MO, September, 1998
- Marijuana: A Forensic Symposium, 51st Annual Meeting of the American Academy of Forensic Sciences, Orlando, FL, February 16, 1999
- AAFS Toxicology Section Drugs and Driving Committee Current Topics: Drugs, Driving and Human Performance Testing, 53rd Annual Meeting of the American Academy of Forensic Sciences, Seattle, WA, February 20, 2001
- Is This Driver Impaired by Drugs? Can Blood Drug Concentrations and a DRE Evaluation Answer This Question?, 54th Annual Meeting of the American Academy of Forensic Sciences Atlanta, GA, February 12, 2002
- Central Nervous System Toxins: Biochemical Mechanisms and Physiological Consequences, 54th Annual Meeting of the American Academy of Forensic Sciences Atlanta, GA, February 12, 2002
- Pharmacology and Toxicology of Brain Drugs, Society of Forensic Toxicologists-SOFT 2002, Dearborn, MI, October 14, 2002
- DUID Research to the Courts, Society of Forensic Toxicologists-SOFT 2002, Dearborn, MI, October 13, 2002
- Clinical Chemistry and Forensic Toxicology- A Symbiotic Relationship in Death Investigation, 55th Annual Meeting of the American Academy of Forensic Sciences Chicago, IL, February 17, 2003
- Antipsychotics: Medicines for the Mind, 55th Annual Meeting of the American Academy of Forensic Sciences, Chicago, IL, February 18, 2003
- Application of the Principles of Pharmacology and Pharmacokinetics to the Interpretation of Drug Blood Levels, 56th Annual Meeting of the American Academy of Forensic Sciences Dallas, TX, February 17, 2004.
- Statistics and Method Validation, FBI Symposium on Forensic Toxicology, 2004 Joint SOFT/TIAFT Meeting, Washington, DC, August 30, 2004.
- Human Factors, Performance and Transportation Safety- The Rest of the Story: Beyond Alcohol and Other Drug Impairment, 57th Annual Meeting of the American Academy of Forensic Sciences New Orleans, LA, February 22, 2005
- Blood Alcohol Concentration Extrapolation, Nashville, TN, Society of Forensic Toxicologists-SOFT 2005, October 17, 2005.
- Case Studies in DUID: Numbers, Signs, Symptoms and Beyond, Nashville, TN, Society of Forensic Toxicologists-SOFT 2005, October 17-18, 2005
- Standardized Field Sobriety Tests- Principles and Practice, Austin, TX, Society of Forensic Toxicologists-SOFT 2006, October 3, 2006.
- Finding the Needle in the Haystack: Improving the Toxicological Investigation of Drug-Facilitated Sexual Assault and Other Crimes, 59th Annual Meeting of the American Academy of Forensic Sciences San Antonio, TX, February 20, 2007.
- Blood Drug Concentrations and Driving Symposium. T2007 Joint ICADTS/TIAFT Meeting, Seattle, WA, August 26, 2007.
- Benzodiazepines... The Basics and Beyond, Society of Forensic Toxicologists-SOFT 2007, Raleigh/Durham, NC, October 15, 2007.
- Toxicology Jeopardy – A Practical Approach to DUID Testing, Society of Forensic Toxicologists-SOFT 2007, Raleigh/Durham, NC, October 16, 2007.
- Overview of Biomarkers of Alcohol Testing: Emerging Trends and Foreseen Applications. Society of Forensic Toxicologists-SOFT 2008, Phoenix, AZ, October 27, 2008.

- ISO 17025 Accreditation-What You Need to Know. Society of Forensic Toxicologists-SOFT 2008, Phoenix, AZ, October 27, 2008.
- Pain Management and Addiction. Society of Forensic Toxicologists-SOFT 2008, Phoenix, AZ, October 28, 2008.
- Pharmacology and Pharmacokinetics for Forensic Toxicologists, American Academy of Forensic Sciences, AAFS 61st Annual Meeting, Denver, CO, February 17, 2009.
- Bridging the Gap in Postmortem Laboratory Practices and Case Interpretations. Society of Forensic Toxicologists- SOFT 2009, Oklahoma City, OK, October 20, 2009.
- Newer Prescription Drugs: Impairment Potential & Identified Polypharmacies. Society of Forensic Toxicologists- SOFT 2009, Oklahoma City, OK, October 20, 2009.

Professional Organizations:

- **National Safety Council Committee on Alcohol and Other Drugs:** Chair, 2002-2004; Vice Chair, 2000-2001; Executive Board, 1995 - Present; Co-Chair, Subcommittee on Alcohol: Technology, Pharmacology and Toxicology, 1995 - 1999; 2007-Present, Voting Member, 1987- Present.
- **International Association for Chemical Testing:** Full Member, 1988 - Present; Chair, Publications Committee, 1990 - 2000; Editor, IACT Newsletter, 1990 - 2000; Board of Directors, 2000-Present.
- **Midwest Association for Toxicology and Therapeutic Drug Monitoring:** Member, 1995 - Present.
- **Society of Forensic Toxicologists:** Full Member, 2002-Present
- **American Academy of Forensic Sciences:** Associate Member, 2003-2004. Member 2005-Present.

Awards:

- **Kurt M. Dubowski Award, International Association for Chemical Testing.** April 2005
- **Robert F. Borkenstein Award, National Safety Council,** February 20, 2007

Publications:

Harding, P. and Field, P.H., "Breathalyzer Accuracy in Actual Law Enforcement Practice: A Comparison of Blood- and Breath-Alcohol Results in Wisconsin Drivers," *Journal of Forensic Sciences*, Vol. 32, No. 5, Sept. 1987, pp. 1235-1240.

Harding, P., Laessig, R. and Field, P., "Field Performance of the Intoxilyzer 5000: A Comparison of Blood- and Breath-Alcohol Results in Wisconsin Drivers," *Journal of Forensic Sciences*, Vol. 35, No. 5, Sept. 1990, pp. 1022-1028.

Harding, P.M., McMurray, M.C., Laessig, R.H., Simley II, D.O., Correll, P.J., and Tsunehiro, J.K., "The Effect of Dentures and Denture Adhesives on Mouth Alcohol Retention," *Journal of Forensic Sciences*, Vol. 37, No. 4, July 1992, pp. 999-1007.

Harding, P., "Methods for Breath Analysis," in *Medicolegal Aspects of Alcohol*, Third Edition, James C. Garriot, Editor, Tucson, AZ, Lawyers & Judges Publishing Company, Inc., 1996, pp. 181-217.

Harding, P., "Interpreting Alcohol Results," in *Alcohol Toxicology for Prosecutors- Targeting Hardcore Impaired Drivers*, American Prosecutors Research Institute, July 2003, pp. 5-28.

Harding, P., "Methods for Breath Analysis," in *Medicolegal Aspects of Alcohol*, Fourth Edition, James C. Garriot, Editor, Tucson, AZ, Lawyers & Judges Publishing Company, Inc., 2003, pp. 185-211.

Harding, P. and Liddicoat, L.J.; "Forensic Toxicology Program: Alcohol and Drug Testing in Wisconsin Drivers," *Wisconsin Medical Journal*, Vol. 102, No. 6, 2003, pp. 79-83.

Cochems, A., Harding, P. and Liddicoat, L., "Dextromethorphan in Wisconsin Drivers," *Journal of Analytical Toxicology*, Vol. 31, May 2007, pp. 227-232.

Harding, P. and Zettl, J.R. "Methods for Breath Analysis," in *Medicolegal Aspects of Alcohol*, Fifth Edition, James C. Garriot, Editor, Tucson, AZ, Lawyers & Judges Publishing Company, Inc., 2008, pp. 185-211.

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