



INDIANA UNIVERSITY

BORKENSTEIN
COURSE

Center for Studies
of Law in Action

Curriculum Vitae
of
Daniel S. Isenschmid

CURRICULUM VITAE (11/01/2008)

Daniel Stephan Isenschmid, Ph.D., DABFT

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Toxicology Laboratory
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EDUCATION

1991, Ph.D. in Forensic Toxicology
University of Maryland, School of Medicine
Department of Pathology
Division of Forensic Pathology
Baltimore, Maryland

1986, M.S. degree in Pathology (Forensic Toxicology)
University of Maryland, School of Medicine
Department of Pathology
Division of Forensic Pathology
Baltimore, Maryland

1982, B.S. degree in Biology
Minor in Chemistry
Adelphi University
Garden City, New York

CERTIFICATION

Diplomate of the American Board of Forensic Toxicology
Certificate #: 213
Term: 11/01/97-06/30/02
Renewed: 07/01/02-06/30/07
Renewed: 07/01/07-6/30/12

PROFESSIONAL POSITIONS

- Chief Toxicologist
May 1994 to current
Wayne County Medical Examiner Office
Detroit, Michigan
- Director of Toxicology
October 1991 to April 1994
Southgate Medical Services, Inc.
d.b.a. CPF MetPath
formerly Southgate Medical Laboratory
Cleveland, Ohio
- Supervisor of Analysts and Certifying Scientists
September 1990 to September 1991
National Center for Forensic Science
Maryland Medical Laboratory, Inc.
Baltimore, Maryland
- Certifying Scientist
March 1988 to September 1990
National Center for Forensic Science
Maryland Medical Laboratory, Inc.
Baltimore, Maryland
- Assistant Toxicologist
August 1986 to September 1988
Office of the Chief Medical Examiner
Toxicology Laboratory
Baltimore, Maryland
- Laboratory Technologist - Toxicology Department
January 1983 to March 1988
Maryland Medical Laboratory, Inc.
Toxicology Department
Baltimore, Maryland

ACADEMIC POSITIONS

Adjunct Assistant Professor, Wayne State University, College of Pharmacy and Allied Health Professions, Department of Pharmaceutical Sciences, Detroit, MI.
September 1999-present

Clinical Assistant Professor, Wayne State University, School of Medicine, Department of Pathology, Detroit, MI.
July 1997-present

CONSULTING POSITIONS

Inspector, American Board of Forensic Toxicology, 1997-present

Consultant Member, Drug Testing Advisory Board, Center for Substance Abuse and Prevention, Department of Health and Human Services, 11/97-02/02

Inspector, National Laboratory Certification Program, National Institute on Drug Abuse, 1989-present; Team Leader 1991-present

Inspector, Forensic Urine Drug Testing Accreditation Program, College of American Pathologists, 1989-present

OTHER APPOINTMENTS AND ACTIVITIES

American Board of Forensic Toxicology
Secretary 7/02 - present
Board of Directors, 7/99 - present

Journal of Analytical Toxicology
Associate Editor, 2003-present
Editorial Advisory Board, 1999-present

Journal of Forensic Sciences
Editorial Board, Term: 2004-2009

Federal Aviation Administration, Civil Aerospace Medical Institute
Workplace Urine Specimen Validity Testing Colloquium
Panel Chairman, 02/04/2003 – 02/06/2003

Forensic Science Review
Guest Editor, Volume Nine, 1997

National Institute of Health, National Institute of Child Health and Human Development
Contract Review Committee, 7/18/96

Forensic Toxicology Certification Board
Board of Directors, Forensic Toxicologist Certification Board, Examination
Committee, 1997-2000
Advisor, Forensic Toxicologist Certification Board, Forensic Drug Toxicology
Committee, 1995-1996

PROFESSIONAL MEMBERSHIPS AND ACTIVITIES

American Academy of Forensic Sciences
Membership Status: Fellow, Toxicology Section
Teller, 2006
Policy and Procedure Committee, 2007-2009
Board of Directors, 2002-2005
Executive Board Member 2003-2004
Forensic Science Foundation, Board of Trustees, 2002-2005
Forensic Science Foundation, Nominating Committee, 2002
Sergeant-at-Arms, AAFS Annual Business Meeting, 1999
AAFS Nominating Committee, Member, 1998-99
Toxicology Section Chairman, 1998-99
AAFS Poster Chairman, 1998
AAFS Council, 1997-99
Toxicology Section Secretary, 1997-98
Toxicology Section Membership Committee, 1997-99
Chairman, Toxicology Section Steering Committee 1997-98
Member, Toxicology Section Steering Committee 1996-present
Program Chairman, Toxicology Section, 1996-97
Member, Toxicology Section Awards and Scholarship Committee, 1995-98
Moderator, Annual Meeting, 1995
Member, Toxicology Section Program Committee, 1994-95

Society of Forensic Toxicologists
Membership Status: Full Member
Past-President: 2005
President: 2004
Vice President: 2003
Annual Meeting Co-Host: 2002
Treasurer, 2001-2002
Officer, 2001- present
Board of Directors, 1996-00

Co-Editor, SOFT Special Issue, Journal of Analytical Toxicology, 1998
ToxTalk, Editorial Board, 1997-1999
Workshop Co-Chairman, 1996
Workshop Assistant Moderator, 1995
Meeting Committee, Special Events, 1995
Reviewer, Journal of Analytical Toxicology, SOFT Special Issue, 1995-97
Educational Research Award Committee Member, 1994-1998
Chairman, Health and Safety Committee, 1995-97
Member, Health and Safety Committee, 1994-95
Assistant Moderator, 1990 Annual Meeting

The International Association of Forensic Toxicologists

Treasurer, 2005-2008
Re-elected Treasurer: 2008-2011
Co-Chair, Scientific Program, 2007 Annual Meeting
Member, 1998-present

California Association of Toxicologists
Associate Member, 1994-present

Midwest Association for Toxicology and Therapeutic Drug Monitoring
Chairman, Advisory Board 2001-2003
Joint Committee on Education and Training in Toxicology, 1997-99
sMATTerings Newsletter, Editorial Board, 1996-present
Treasurer, MATT Annual Meeting, 1996

HONORS AND AWARDS

Alexander O. Gettler Award
Toxicology Section, American Academy of Forensic Sciences: 2006

Irving Sunshine Award
Toxicology Section, American Academy of Forensic Sciences: 1991

Educational Research Award
Society of Forensic Toxicologists (1984, 1986 and 1988)

Delta Phi Alpha: Honorary German Society, Adelphi University

RELATED CAREER EXPERIENCE

Attended the following professional meetings:

American Academy of Forensic Sciences: 1984-86, 1988-2008

California Association of Toxicologists: 2/98, 5/01, 8/03, 11/03, 9/04, 3/07, 6/07

Mid-Atlantic Association of Forensic Scientists: Spring, 1985

Midwest Association for Toxicology and Therapeutic Drug Monitoring: 1996,
2001-03

Robert F. Borkenstein Course on Alcohol Drugs and Highway Safety Testing
Research and Litigation: May 9-14, 2004, Indiana University,
Bloomington, IN

Society of Forensic Toxicologists: 1985-86, 1988, 1990, 1993-2008

The International Association of Forensic Sciences Triennial Meeting, 2008

The International Association of Forensic Toxicologists Annual Meetings: 1994,
1998, 2000, 2002-08

PUBLICATIONS (refereed)

- (1) Gupta, A, Pasquale-Styles, M.A., Hepler, B.R., Isenschmid, D.S. and Schmidt, C.J. Apparent Suicidal Carbon Monoxide Poisonings with Concomitant Prescription Drug Overdoses. J. Analytical Toxicology, Vol. 29, 744-749 (2005).
- (2) Marinetti, L.J., Isenschmid, D.S., Hepler B.R. and Kanlue S. Analysis of GHB and 4-Methyl-GHB in Postmortem Matrices after Long-Term Storage. J. Analytical Toxicology, Vol. 29, pp. 41-47 (2005).
- (3) Spiehler, V., Isenschmid, D.S., Matthews, P., Kemp, P. and Kupiec, T. Technical Note: Performance of a Microtiter Plate ELISA for Screening of Postmortem Blood for Cocaine and Metabolites. J. Analytical Toxicology, Vol. 27, pp.587-591 (2003).
- (4) Isenschmid, D.S. Cocaine - Effects on Human Performance and Behavior. Forensic Science Review, Vol. 14, pp. 61-100 (2002).

- (5) Marinetti, L.J., Isenschmid, D.S., Hepler B.R. and Commissaris, R.L. Letter: Response to the presence of gamma-hydroxybutyric acid (GHB) in postmortem fluids. J. Analytical Toxicology, Vol. 25, pp. 356-7 (2001).
- (6) Isenschmid, D.S., Cassin, B.J., Hepler, B.R. and Kanluen, S. Tetrachloroethylene Intoxication in an Autoerotic Fatality. J. Forensic Sciences, Vol. 43, pp. 231-234 (1998).
- (7) Green, K.B. and Isenschmid, D.S. Medical Review Officer Interpretation of Urine Drug Testing Results. Forensic Science Review, Vol. 7, pp. 41-60 (1995).
- (8) Isenschmid, D.S., Levine, B.S. and Caplan, Y.H. The Role of Ecgonine Methyl Ester in the Interpretation of Cocaine Concentrations in Postmortem Blood. J. Analytical Toxicology, Vol. 16, pp. 319-324 (1992).
- (9) Isenschmid, D.S., Fischman, M.W., Foltin, R.W. and Caplan, Y.H. Concentration of Cocaine and Metabolites in Plasma of Humans Following Intravenous Administration and Smoking of Cocaine. J. Analytical Toxicology, Vol. 16, pp. 311-314 (1992).
- (10) Peretti, F.J., Isenschmid, D.S. Levine, B.S., Caplan, Y.H. and Smialek, J.E. Cocaine Fatality : An Unexplained Blood Concentration in a Fatal Overdose. Forensic Science International, Vol. 48, pp. 135-138 (1991).
- (11) Isenschmid, D.S., Levine, B.S. and Caplan, Y.H. A Comprehensive Study of the Stability of Cocaine and its Metabolites. J. Analytical Toxicology, Vol. 13, pp. 250-256 (1989).
- (12) Isenschmid, D.S. and Caplan, Y.H. Incidence of Cannabinoids in Medical Examiner Urine Specimens. J. Forensic Sciences, Vol. 33, pp. 1421-1431 (1988).
- (13) Isenschmid, D.S., Levine, B.S. and Caplan, Y.H. A Method for the Simultaneous Determination of Cocaine, Benzoyllecgonine, and Ecgonine Methyl Ester in Blood and Urine Using GC/EIMS with Derivatization to Produce High Mass Molecular Ions. J. Analytical Toxicology, Vol. 12, pp. 242-245 (1988).
- (14) Isenschmid, D.S. and Caplan, Y.H. A Method for the Determination of 11-nor-delta-9-tetrahydro-cannabinol-9-carboxylic acid in Urine using High Performance Liquid Chromatography with Electrochemical Detection. J. Analytical Toxicology, Vol. 10, pp. 170-174 (1986).
- (15) Black, D.L., Goldberger, B.A., Isenschmid, D.S., White S.M. and Caplan, Y.H. Urine Cannabinoid Analysis : An Integrated Multi-Method Approach. J. Analytical Toxicology, Vol. 8, pp. 224-227 (1984).

- (16) Chen, S.Y., Collipp, P.J., Boasi, L.H., Isenschmid, D.S., Verolla, R.J., San Roman, G.A. and Yeh, J.K. Fluorometry of Selenium in Human Hair, Urine and Blood. Annals of Nutrition and Metabolism, Vol. 3, pp.186-190 (1982).

PUBLICATIONS (non-refereed)

- (1) Isenschmid, D.S. Outbreak of Fentanyl Deaths Represents Modern Plague. *Clinical and Forensic Toxicology News*; American Association of Clinical Chemistry, June 2007 (2007).
- (2) Isenschmid, D.S., Levine B. Cocaine. *Therapeutic Drug Monitoring and Toxicology*, Vol. 21, pp. 247-57 (1999).
- (3) Isenschmid, D.S. and Hepler, B.R. Comparison of Postmortem Heart and Peripheral Blood Ethanol Concentrations. *Tox Talk*, Vol. 22, No 2 (1998).
- (4) Isenschmid, D.S. DHHS Raises Opiate Cutoff; Adds 6-AM Requirement. *Forensic Urine Drug Testing*, (March, 1998).
- (5) Isenschmid, D.S. and Hepler, B.R. Incidence of Cocaine and Metabolites in Driver and Pedestrian Fatalities. *ToxTalk*, Vol. 21, No. 4 (1997).
- (6) Isenschmid, D.S. and Hepler, B.R. Nicotine Concentrations in Postmortem Blood. *ToxTalk*, Vol. 21, No. 3 (1997).
- (7) Isenschmid, D.S. and Hepler, B.R. Incidental Findings of Cyproheptadine in Medical Examiner Cases. *ToxTalk*, Vol. 21, No. 1 (1997).
- (8) Isenschmid, D.S. and Helper, B.R. Drug Findings at the Wayne County Medical Examiners Office. *ToxTalk*, Vol 20, No. 4 (1996).
- (9) Isenschmid, D.S. Chemical Spills. *ToxTalk*, Vol 20, No. 1 (1996).
- (10) Isenschmid, D.S. Carcinogens. *ToxTalk* Vol 18, No. 3 (1994).
- (11) Isenschmid, D.S. Cocaine. *The DRE* Vol. 6, No. 3 (1994).
- (12) Kucmanic, J.J., Paliulis, D.P. and Isenschmid, D.S. Screening for Drugs of Abuse on the Technicon Chem I Analyzer Using Syva Emit II Reagents, Miles Diagnostics Division (1994).

- (13) Isenschmid, D.S. Cocaine, Monograph prepared for the Drugs and Driving Committee, American Academy of Forensic Sciences Toxicology Section and Society of Forensic Toxicology (1993).
- (14) Isenschmid, D.S. Is Ecgonine Methyl Ester a Major *in vivo* Metabolite of Cocaine in Humans? Authors Reply to Letter to the Editor. Journal of Analytical Toxicology, Vol. 17, pp. 318-319 (1993).
- (15) Isenschmid, D.S., Goldberger, B.A., Caplan, Y.H. and Straus, P.W. GC/MS Automation for Drug Testing Laboratories, Hewlett-Packard Application Note GC/MS 89-3 (1989).
- (16) Isenschmid, D.S., and Caplan, Y.H. Authors Reply to Letter to the Editor on Presence of Inhibitors to the EMIT Test in Postmortem Urine Samples. Journal of Forensic Sciences, Vol. 34, p. 1056 (1989).
- (17) Black, D.L., Caplan, Y.H., Isenschmid, D.S., Goldberger, B.A. Cannabis: Urine Cannabinoid Analysis, Maryland Medical Lab/Oratory, Vol 7, No. 1 (1985).

CHAPTERS

- (1) Isenschmid, D.S. Cocaine. In: *Handbook of Workplace Drug Testing, Second Edition*. J.D. Roper-Miller and B.A. Goldberger, eds. Washington, D.C.: AACC Press, p.335-354 (2008).
- (2) Isenschmid, D.S. and Goldberger, B.A. Analytical Considerations and Approaches for Drugs. In: *Workplace Drug Testing*, S. Karch, ed. Boca Raton, FL: CRC Press, p.55-80 (2008).
- (3) Hepler, B.R. and Isenschmid, D.S. Specimen Selection, Collection, Preservation, and Security. In: *Postmortem Toxicology of Abused Drugs*, S. Karch, ed. Boca Raton, FL: CRC Press, p.13-30 (2008).
- (4) Logan, BK and Isenschmid, DS. Cocaine, Methamphetamine and Driving Impairment. In: *Medical-Legal Aspects of Drugs, Second Edition*, M. Burns, ed., Tucson AZ: Lawyers and Judges Publishing Company, Inc., pp. 113-121 (2007).
- (5) Isenschmid, D.S. and Goldberger, B.A. Analytical Considerations and Approaches for Drugs. In: *Drug Abuse Handbook, Second Edition*, S. Karch, ed. Boca Raton, FL: CRC Press, p.775-799 (2006).

- (6) Hepler, B.R. and Isenschmid, D.S. Specimen Selection, Collection, Preservation, and Security. In: *Drug Abuse Handbook, Second Edition*, S. Karch, ed. Boca Raton, FL: CRC Press, p.975-991 (2006).
- (7) Logan, BK and Isenschmid, DS. Cocaine, Methamphetamine and Driving Impairment. In: *Medical-Legal Aspects of Drugs*, M. Burns, ed., Tucson AZ: Lawyers and Judges Publishing Company, Inc., pp. 215-234 (2003).
- (8) Isenschmid, D. and Levine B. Cocaine. In: *The Clinical Toxicology Laboratory – The Contemporary Practice of Poisoning Evaluation*, L.M. Shaw, ed., Washington DC: AACC Press, pp.97-112 (2001).
- (9) Isenschmid, D.S. Cocaine. In: *Principles of Forensic Toxicology*, B. Levine, ed., Washington DC: AACC Press, pp. 221-245 (1999).
- (10) Hepler, B.R. and Isenschmid, D.S. Specimen Selection, Collection, Preservation, and Security. In: *Drug Abuse Handbook*, S. Karch, ed. Boca Raton, FL: CRC Press, p.873-889 (1998).
- (11) Green K.B. and Isenschmid, D.S. Medical Review Officer Interpretation of Urine Drug Test Results. In: *Handbook of Workplace Drug Testing*. R.H. Liu and B.A. Goldberger (eds.) Washington DC: AACC Press, pp. 321-353 (1995).

ABSTRACTS

- (1) Isenschmid, D.S., Moore. C., Bechinski, J., Hepler, B.R., and Schmidt, C.J. Correlation of Postmortem Toxicology Results with Hair Analysis in Cases of Suspected Acute Drug Intoxication. Abstract 39. Society of Hair Testing Annual Meeting and The International Association of Forensic Toxicologists, Schoelcher, Martinique, French West Indies, 2008.
- (2) Teem, D.M., Isenschmid, D.S., Hepler, B.R. and Schmidt, C.J. Evaluation of the Immunalysis® Fentanyl ELISA Assay for Use in Screening Postmortem Blood. Abst. #K-21 American Academy of Forensic Sciences, San Antonio, Texas, 2007.
- (3) Isenschmid, D.S., Hepler, B.R., Teem, D.M. and Schmidt, C.J. A Rapid Increase in Fentanyl-Related Deaths in Detroit: A 12-Month Review. Abst. #K-37 American Academy of Forensic Sciences, San Antonio, Texas, 2007.
- (4) Isenschmid, D.S., Hepler, B.R., Teem, D.M. and Schmidt, C.J. Postmortem Toxicology Findings Associated with a Rapid Increase in Fentanyl-Related Deaths in the Detroit Metropolitan Area. Abst. #S7 Society of Forensic Toxicologists, Austin, Texas, 2006.

- (5) Gupta A, Pasquale-Styles, M.A., Hepler, B.R., Isenschmid, D.S. and Schmidt, C.J. Apparent Suicidal Carbon Monoxide Poisonings with Concomitant Prescription Drug Overdoses. Abst. # 1-3, The International Association of Forensic Toxicologists, Seoul, South Korea, 2005.
- (6) Hepler, B.R., Isenschmid, D.S. and Schmidt, C.J. Postmortem Redistribution: Practical Considerations in Death Investigation. Abst. # K-14, American Academy of Forensic Sciences, Dallas, Texas, 2004.
- (7) Isenschmid, D.S., Patton, D.M., Hepler, B.R. and Schmidt, C.J. Use of the Immunalysis ELISA Assays for the Detection of Drugs of Abuse in Postmortem Specimens: a Multiple Matrix Approach. Poster Session 2, Paper 78, The International Association of Forensic Toxicologists, Melbourne, Australia, 2003.
- (8) Isenschmid, D.S., Patton, D.M., Hepler, B.R. and Schmidt, C.J. Evaluation of Immunalysis ELISA Assays for the Detection of Drugs of Abuse in Postmortem Blood. Oral Session 5, Paper 3, The International Association of Forensic Toxicologists, Melbourne, Australia, 2003.
- (9) Patton, D.M., Isenschmid, D.S., Hepler B.R. and Schmidt, C.J. Evaluation of Immunalysis ELISA Assays for the Detection of Drugs of Abuse in Postmortem Bile and Urine. Abst. # 28, Society of Forensic Toxicologists, Portland, Oregon, 2003.
- (10) Hepler, B.R., Isenschmid, D.S. and Kanlue, S. Validation and Application of the PE TMX 110 Autosystem for Packed Column Analysis of the Confirmation of Volatiles in Death Investigation. Abst. # K-6, American Academy of Forensic Sciences, Chicago, Illinois, 2003.
- (11) Diaz, F., Marinetti, L.J., Hepler, B.R., Isenschmid, D.S. and Kanlue, S. A Fatality Due to Lorazepam and Morphine Intoxication During Long Term Therapy. Abst. # K-26, American Academy of Forensic Sciences, Chicago, Illinois, 2003.
- (12) Isenschmid, D.S., Hepler, B.R. and Kanlue, S. A Study of Driving Behavior in Cocaine-Related Motor Vehicle Fatalities in Metropolitan Detroit. Abst. # 49, The International Association of Forensic Toxicologists, Paris, France, 2002.
- (13) Marinetti, L.J., Hepler, B.R., Isenschmid, D.S. and Kanlue S. The Distribution of Gamma-Hydroxybutyric Acid (GHB) in both Ante and Postmortem Specimens of a Single Fatality After Long Term Storage. Abst. # K-26, American Academy of Forensic Sciences, Atlanta, Georgia, 2002.

- (14) Isenschmid, D.S., Hepler, B.R. and Kanluen, S. Patterns in Drugs of Abuse Deaths in Metropolitan Detroit. Abst. #K-43, American Academy of Forensic Sciences, Seattle, Washington, 2001.
- (15) Hepler, B.R., Isenschmid, D.S., Schmidt, C.J., Kanluen, S. Suicide or Not? Fatal Outcome Following Co-Administration of Doxepin, Fluoxetine, Cyclobenzaprine, Methadone and Clonidine. Abst. #K-44, American Academy of Forensic Sciences, Seattle, Washington, 2001.
- (16) Isenschmid, D.S., Hepler, B.R., Kanluen, S. and LoDico, C.P. Increase in Heroin-Related Deaths in Metropolitan Detroit. The International Association of Forensic Toxicologists, Helsinki, Finland, 2000.
- (17) Marinetti, L.J., Isenschmid, D.S., Hepler, B.R., Schmidt, C.J., Somerset, J.S., and Kanluen, S. Two Gamma-Hydroxybutyric Acid (GHB) Fatalities. Abst. #K-16, American Academy of Forensic Sciences, Reno, Nevada, 2000.
- (18) Teem, D.M., Isenschmid, D.S., Hepler, B.R., Wilks, H.S., Kanluen, S. A Fatality Due to the Deliberate Inhalation of Strypeeze. Abst. # K-21, American Academy of Forensic Sciences, Orlando, Florida, 1999.
- (19) Hepler, B.R., Isenschmid, D.S., Somerset, J.S., Kanluen, S. A Case of Poisoning or Not? The Circumstance for the Elderly Patient and the d,l-Desoxyephedrine Twins. Association of Analytical Chemists and The Society for Applied Spectroscopy, Detroit, Michigan, 1998.
- (20) Isenschmid, D.S., Smith, G., Hepler, B.R., Kanluen, S. Unusually High Blood Benzoyllecgonine Concentrations in Cases with Renal Failure. Abst. # 71, Society of Forensic Toxicologists and The International Association of Forensic Toxicologists, Albuquerque, New Mexico, 1998.
- (21) Hepler, B.R., Isenschmid, D.S., Kanluen, S. Carisoprodol and Meprobamate Incidence and Frequency in Drug-Related Fatalities from 1992-1997: Experience in a Major Metropolitan Area. Abst. # K-28, American Academy of Forensic Sciences, San Francisco, California, 1998.
- (22) Wang, Y., Hepler, B.R., Isenschmid, D.S., Kanluen, S. The Incidence and Role of Benzotropine in Drug-Related Death. Abst. # K-23, American Academy of Forensic Sciences, San Francisco, California, 1998.

- (23) Isenschmid, D.S., Cassin, B.J. and Hepler, B.R. Acute Tetrachloroethylene Intoxication in an Autoerotic Fatality. Abst. # K-20, American Academy of Forensic Sciences, Seattle, Washington, 1995.
- (24) Kucmanic, J.J., Paliulis, D.B. and Isenschmid, D.S. Screening for Drugs of Abuse on the Chem I Analyzer Using Syva Emit II Reagents. Abst. # 43, Society of Forensic Toxicologists, Phoenix, Arizona, 1993.
- (25) Isenschmid, D.S. and Caplan Y.H. Factors in the Postmortem Interpretation of Cocaine and Metabolite Concentrations. Abst. # 38, Society of Forensic Toxicologists, Melville, New York, 1990.
- (26) Isenschmid, D.S., Goldberger, B.A., Harbin, G.F. and Caplan, Y.H. Customizing the HP-1000 GC/MS Data System for Automated Data Analysis. Abst. # 647, Scientific Computing and Automation, Philadelphia, Pennsylvania, 1989.
- (27) Isenschmid, D.S., Levine, B.S. and Caplan, Y.H. A Comprehensive Study of the Stability of Cocaine in Blood. Abst. # K-39, American Academy of Forensic Sciences, Las Vegas, Nevada, 1989.
- (28) Isenschmid, D.S., Levine, B.S. and Caplan, Y.H. A Method for the Determination of Cocaine, Benzoyllecgonine and Ecgonine Methyl Ester in Blood and Urine Using GC-EI/MS with Derivatization Producing High Molecular Weight Ions. Abst. # K-15, American Academy of Forensic Sciences, Philadelphia, Pennsylvania, 1988.
- (29) Isenschmid, D.S. and Caplan, Y.H. The Epidemiology and Determination of Cannabinoids in a Study of Medical Examiner Urine Specimens, American College of Toxicology, Baltimore, Maryland, 1987.
- (30) Isenschmid, D.S. and Caplan, Y.H. Incidence of Cannabinoids in Medical Examiner Urine Specimens. Abst. # K-23, American Academy of Forensic Sciences, New Orleans, Louisiana, 1986.

LECTURES

- (1) The Role of the Toxicology in Death Investigation; Medicolegal Death Investigation Course; September 24, 2008, Detroit, MI
- (2) Toxicology. Forensic Odontology in a Medical Examiner's Office; University of Detroit Mercy School of Dentistry, May 1, 2008, Detroit, MI

- (3) Cocaine: Effects on Human Performance and Behavior. Robert F Borkestein Course on Drugs: The Effects of Drugs on Human Performance and Behavior; Indiana University and the Center for Studies of Law in Action, April 13-18, 2008, Bloomington, IN
- (4) Introduction to Forensic Toxicology. Wayne State University College of Pharmacy, Drug Abuse, April 9, 2008, Detroit, MI
- (5) Toxicology of Methadone in Substitution Therapy Programs and Chronic Pain Management. Sino-Foreign Expert Symposium on Forensic Toxicology; Chinese Society of Forensic Medicine, March 6-7, 2008, Beijing, China
- (6) Correlation of Toxicology Results and Hair Analysis: Case Studies in Wayne County, Michigan. Postmortem Toxicology: Interpretation of Drug Concentrations in Hair; Workshop, American Academy of Forensic Sciences, February 19, 2008, Washington, DC
- (7) Postmortem Forensic Toxicology at the Wayne County Medical Examiner's Office. Iowa Association of County Medical Examiners, November 2, 2007, West Des Moines, IA
- (8) A Rapid Increase in Fentanyl Related Deaths in Detroit – A 17 Month Review. 3er Encuentro Regional de Toxicólogos Forenses, The International Association of Forensic Toxicologists Regional Meeting, October 23-26, 2007, Bogotá, Colombia
- (9) The Role of the Toxicology in Death Investigation; Medicolegal Death Investigation Course; September 26, 2007, Detroit, MI
- (10) Postmortem Redistribution: Practical Considerations in Death Investigation. Topics in Postmortem Toxicology – Case Studies and Beyond; Symposium, The International Association of Forensic Toxicologists, August 28, 2007, Seattle, WA
- (11) Toxicology. Forensic Odontology in a Medical Examiner's Office, University of Detroit Mercy School of Dentistry, April 26, 2007, Detroit, MI
- (12) Cocaine: Effects on Human Performance and Behavior. Robert F Borkestein Course on Drugs: The Effects of Drugs on Human Performance and Behavior; Indiana University and the Center for Studies of Law in Action, April 15-20, 2007, Bloomington, IN
- (13) Sudden Increase in Fentanyl Deaths in Metropolitan Detroit. Trends and Tribulations in Drug Testing; Symposium, Health Sciences Authority, March 30, 2007, Singapore

- (14) Important Issues Pertaining to Urine Drug Testing of Amphetamines and Opiates – Analytical Aspects and Data Interpretation. Symposium, Bureau of Controlled Drugs, September 26, 2006, Taipei, Taiwan
- (15) Toxicological Analysis in the Medical Examiner’s Office – Overview and Specific Examples. Symposium, Bureau of Controlled Drugs, September 27, 2006, Taipei, Taiwan
- (16) The Role of the Laboratory in Substitution Therapy – Methadone Examples. Symposium, Bureau of Controlled Drugs, September 27, 2006, Taipei, Taiwan
- (17) Toxicology. Forensic Odontology in a Medical Examiner’s Office; University of Detroit Mercy School of Dentistry, May 18, 2006, Detroit, MI
- (18) Cocaine: Effects on Human Performance and Behavior; Robert F Borkenstein Course on Drugs: The Effects of Drugs on Human Performance and Behavior; Indiana University and the Center for Studies of Law in Action, April 2-6, 2006, Bloomington, IN
- (19) Role of the Forensic Toxicologist in Suicide Deaths. Suicide: A Forensic Sampler, Workshop, American Academy of Psychiatry and the Law, October 27, 2005, Montreal QC
- (20) Cocaine. Forensic Toxicology Update Workshop; Society of Forensic Toxicologists, October 18, 2005, Nashville, TN
- (21) Blood Drug Screen: Wayne County Medical Examiner’s Office. The Postmortem Blood Drug Screen: Analytical and Managerial Approaches Workshop, Society of Forensic Toxicologists, October 17, 2005, Nashville, TN
- (22) The Role of the Toxicology in Death Investigation; Medicolegal Death Investigation Course; May 4, 2005, Detroit, MI
- (23) Drug Trends in the 21st Century: The Medical Examiner Perspective. Empowerment Zone Coalition, April 29, 2005, Detroit, MI
- (24) Toxicology. Forensic Odontology in a Medical Examiner’s Office; University of Detroit Mercy School of Dentistry, April 14, 2005, Detroit, MI
- (25) Cocaine. Sponsored by SOFT Continuing Education Committee, National Center for Forensic Science, April 22, 2005, Orlando, FL
- (26) Introduction to Forensic Toxicology. Wayne State University College of Pharmacy, Drug Abuse, March 9, 2005, Detroit, MI

- (27) Forensic Toxicology; Wayne State University, School of Pharmacy, PHA 4220 Neuropharmacotherapeutics, March 10, 2005, Detroit, MI
- (28) Cocaine: Effects on Human Performance and Behavior; Robert F Borkestein Course on Drugs: The Effects of Drugs on Human Performance and Behavior; Indiana University and the Center for Studies of Law in Action, September 19-22, 2004, Bloomington, IN
- (29) Cocaine. FBI Laboratory Symposium on Forensic Toxicology, September 6, 2004, Washington, DC
- (30) Toxicology. Forensic Odontology in a Medical Examiner's Office; University of Detroit Mercy School of Dentistry, April 29, 2004, Detroit, MI
- (31) Cocaine: Effects on Human Performance and Behavior. California Association of Toxicologists, November 7, 2003, Los Angeles, CA
- (32) Postmortem Alcohol Issues. California Association of Toxicologists, August 2, 2003, Santa Rosa, CA
- (33) Introduction to Forensic Toxicology. Wayne State University College of Pharmacy, April 2, 2003, Detroit, MI
- (34) Cocaine: Effects on Human Performance and Behavior; Robert F Borkestein Course on Drugs: The Effects of Drugs on Human Performance and Behavior; Indiana University and the Center for Studies of Law in Action, March 16-19, 2003, Bloomington, IN
- (35) Forensic Toxicology of Drugs of Abuse. Medicolegal Death Investigation Course; September 11, 2002, Detroit, MI
- (36) Forensic Toxicology of Drugs of Abuse. Medicolegal Death Investigation Course; May 22, 2002, Detroit, MI
- (37) Forensic Toxicology. Forensic Odontology in a Medical Examiner's Office; University of Detroit Mercy, May 2-3, 2002, Detroit, MI
- (38) A New Era in Substance Abuse: Narco-terrorism - The Medical Examiner Perspective. Empowerment Zone Coalition, May 1, 2002, Detroit, MI
- (39) Cocaine: Effects on Human Performance and Behavior. Wayne State University College of Pharmacy, April 5, 2002, Detroit, MI

- (40) Cocaine: Effects on Human Performance and Behavior. Robert F Borkestein Course on Drugs: The Effects of Drugs on Human Performance and Behavior; Indiana University and the Center for Studies of Law in Action, March 24-27, 2002, Bloomington, IN
- (41) Trends in Substance Abuse: The Medical Examiner Perspective. Empowerment Zone Coalition, October 12, 2001, Detroit, MI
- (42) Forensic Toxicology of Cocaine and Heroin. Medicolegal Death Investigation Course, September 12, 2001, Detroit, MI
- (43) The Pharmacology and Toxicology of Cocaine, Amphetamines and Other Stimulants. Current Topics in Forensic Toxicology; University of California at Los Angeles Extension, August 23-25, 2001, Los Angeles, CA
- (44) Cocaine After Campbell. Expert Witness Course; U.S. Army Medical Command, June 11, 2001, San Antonio, TX
- (45) Forensic Toxicology of Cocaine and Heroin. Medicolegal Death Investigation Course, May 16, 2001, Detroit, MI
- (46) Forensic Toxicology of Cocaine. Medicolegal Death Investigation Course, May 17, 2000, Detroit, MI
- (47) Toxicology. Advanced Forensics, University of Detroit Mercy, May 5, 2000, Detroit, MI
- (48) Forensic Toxicology. Wayne State University, School of Pharmacy, PHA 4220 Pharmacotherapeutics in Psychiatry and Drug Abuse, March 27, 2000, Detroit, MI
- (49) Pharmacology of Cocaine and its Relationship to Behavior Impairment. The Effects of Alcohol and Drugs on Human Performance and Behavior; New York State Police Academy, July 20-23, 1999, Albany, NY
- (50) Forensic Toxicology of Cocaine. Medicolegal Death Investigation Course, May 19, 1999, Detroit, MI
- (51) Forensic Toxicology of Cocaine. Wayne State University, School of Pharmacy, PSC 5600/7600 Drug Abuse, March 30, 1999, Detroit, MI
- (52) Forensic Toxicology of Cocaine. Medicolegal Death Investigation Course, September 24, 1998, Detroit, MI

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- (53) Pharmacology of Cocaine and its Relationship to Behavior Impairment. The Effects of Alcohol and Drugs on Human Performance and Behavior; UCLA, August 20-22, 1998, Los Angeles, CA
 - (54) Reporting Urine Drug Testing Results. Drug Testing Advisory Board, Scientific Meeting on Drug Testing of Alternative Specimens, April 29, 1997, Rockville, MD
 - (55) Analytical Toxicology of Cocaine. Midwest Association for Toxicology and Therapeutic Drug Monitoring Annual Meeting, May 3, 1996, Royal Oak, MI
 - (56) Role of the Medical Review Officer. Roundtable, Midwest Association for Toxicology and Therapeutic Drug Monitoring Annual Meeting, May 2, 1996, Royal Oak, MI
 - (57) Cocaine. Current Approaches in Forensic Toxicology; Workshop, American Academy of Forensic Sciences, February 19, 1996, Nashville, TN
 - (58) Cocaine. Fundamentals of Forensic Toxicology: A Basic Course; Workshop, Society of Forensic Toxicologists, October 9, 1995, Baltimore, MD
 - (59) Cocaine. Current Analytical Approaches to Forensic Toxicology; Workshop, Society of Forensic Toxicologists & The International Association of Forensic Toxicologists Joint Meeting, October 31, 1994, Tampa, FL
 - (60) Cocaine. Forensic Toxicology Review Course, Armed Forces Institute of Pathology, April 6-8, 1994, Vienna, VA
 - (61) Legal Ethics, Professional Responsibility, and Substance Abuse. McDonald, Hopkins, Burke and Haber, Co., L.P.A., December 8, 1993, Cleveland, OH
 - (62) Initial Testing on the Chem I. NLCP Inspectors Workshop at the Society of Forensic Toxicologists Annual Meeting, October 15, 1993, Phoenix, AZ
 - (63) Update on Immunoassay Drug Screening. American Association for Clinical Chemistry, New York-Metro Section, April 22, 1993, New York City, NY
 - (64) Forensic Urine Drug Testing II - The NIDA Five. Workshop, Society of Armed Forces Medical Laboratory Scientists, February 14, 1993, Washington, DC
 - (65) Testing Drugs of Abuse on the Technicon Chem I. American Association for Clinical Chemistry, Texas Section, November 12, 1992, Dallas, TX

- (66) Drug Testing and Litigation: Understanding the Process. The Ohio State University, College of Law & University Office of Continuing Legal Education, May 8, 1992, Cleveland, OH
- (67) Substance Abuse. Duvin, Cahn & Barnard, Continuing Legal Education, May 5, 1992, Cleveland, OH
- (68) Cocaine. Forensic Toxicology Review Course, Armed Forces Institute of Pathology, April 29-May 1, 1992, Bethesda, MD
- (69) Workplace Drug Testing Workshop; Mid-Atlantic Analytical Toxicology Forum, June 8, 1990, Baltimore, MD

WORKSHOPS

Lurie, I.S., Berrier A., Isenschmid, D.S., Denton, J.S. and Suzuki, S. Fentanyl, Multiple Fatalities and Forensic Science: A Multidisciplinary Symposium. The International Association of Forensic Sciences, July 24, New Orleans, LA

Isenschmid, D.S. Workshop Panel Discussion. Multijurisdictional Approach of Prevention, Treatment and Law Enforcement of Drug Sales, Drug Abuse and Public Safety. Workshop presented at the 9th Annual Substance Abuse Summit, Empowerment Zone Coalition, Cobo Hall, October 13, 2004, Detroit, MI

Fochtman, F.W. and Isenschmid, D.S. - Moderator and Assistant Moderator: Advanced Forensic Toxicology: Pharmacologic and Interpretive Topics; Workshop presented at the Society of Forensic Toxicologists Annual Meeting, October 10, 1995, Baltimore, MD

Isenschmid, D.S. and Jones, D.B. - Co-Chairs: Pharmacology and Toxicology of New Drugs: New Challenges for the Forensic Toxicologist; Workshop presented at the American Academy of Forensic Sciences Annual Meeting, February 13, 1995, Seattle, WA