



Society of Forensic Toxicologists, Inc.

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ToxTalk

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(Past President)
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(ToxTalk Editor)

1996 ANNUAL MEETING HOSTS

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VOLUME 20, No. 1

MARCH 1996

EDITOR: Joseph R. Monforte, PhD DABFT **EDITORIAL BOARD:** H. Chip Walls, BS, Jim Wigmore, BSc, Carl Selavka, PhD
PUBLISHER: Patricia Mohn-Monforte

IN THIS ISSUE

REGULAR FEATURES: Journal Club & Professional Calendar & Elmer Gordon
From the Editor's Desk & Blutalkoholkonzentration

TECHNICAL NOTES: Chemical Spills (Isenschmid)

INSERTS:*

*If available at time of mailing

1996 SOFT Meeting Information & Call for Papers
JAT Special Issue Call for Papers

CALENDAR CHECK!

3/11/96 JAT Abstracts
3/25/96 JAT Papers
6/01/96 SOFT Meeting Abstracts

7/01/96 Free T-shirt for meeting registration
10/1/96 Mail registration for meeting
Make those hotel reservations, too!

ON DECK: PLANNED FOR THE NEXT ISSUE

President's Message (Walls) & From the Editor's Desk (Monforte) & Closer Look at SOFT -
Membership Committee (Huestis) & Journal Club (Walls) & Case Notes: (Selavka et al, all
members) & Blutalkoholkonzentration (Wigmore) & Health & Safety Committee (Isenschmid et al)
& 1996 SOFT Meeting (Farrell) & Notes from 2/96 SOFT Board Meeting (Huestis) & New SOFT
Members 1995 (Watts) & New SOFT Members 1996 (Huestis)

Submit your items for ToxTalk to:

Joseph Monforte, Ph.D., DABFT
846 Smoki Dr (HP), Prescott, AZ 86301-7347

ToxTalk is mailed quarterly (bulk mail) to members of the *Society of Forensic Toxicologists, Inc.* It is each member's responsibility to report changes of address to the SOFT mailing address (above). Non-members may now receive ToxTalk for \$15 per calendar year. Make your check payable to SOFT, and mail it to the ToxTalk Editor.

All members and others are encouraged to contribute to ToxTalk. Mail material to:
Joseph R. Monforte, Ph.D., DABFT, ToxTalk Editor, 846 Smoki Drive (H.P.), Prescott, AZ 86301
Phone/FAX: 520-717-0617 (after 11 a.m. E.S.T.)

DEADLINES: Feb. 1, May 1, Aug. 1, and Nov. 1. **NEXT DEADLINE:** May 1, 1996

SOFT is a supporting organization of the American Board of Forensic Toxicology

PRESIDENT WALLS APPOINTS 1996 COMMITTEE CHAIRS

NOMINATING: Vina Spiehler

BY-LAWS: Kurt Dubowski

ToxTALK: Joseph Monforte

EDUCATIONAL RESEARCH AWARD ENDOWMENT(ERA):

David Moody

MEETING RESOURCE COMMITTEE: Vickie Watts

1995: Yale Caplan

1996: Robert Zettl/Laurel Farrell

1997: Vickie Watts

1998: N.G.S. Rao/Ronald Backer

LIABILITIES AND INSURANCE: C. Nicholas Hodnett

ADVISORY COMMITTEE ON ABSTRACTS AND

PRESENTATIONS: Alphonse Poklis

MEMBERSHIP: Marilyn Huestis

BUDGET, FINANCE AND AUDIT: James Valentour

PUBLICATIONS: Edward Cone

FORENSIC TOXICOLOGY LABORATORY GUIDELINES

(SOFT/AAFS Joint Committee): Graham Jones

HEALTH AND SAFETY: Daniel Isenschmid

DRIVING UNDER THE INFLUENCE OF DRUGS (DUID)

(Joint SOFT/AAFS Committee): Mark Lewis (SOFT)

CONTINUING EDUCATION (Joint Committee on

Education and Training in Toxicology - JCETT):

H. Chip Walls

POLICY AND PROCEDURES (ad hoc): William Anderson

1995 SOFT MEETING HOSTS: Laurell Farrell, Robert Zettl

* * * * *

FROM THE EDITOR'S DESK . . . Joseph R. Monforte, Ph.D., DABFT

A personal note: My thanks to all of you who extended your congratulations to me for receiving the Rolla Harger Award. It was truly a memorable occasion which I will cherish forever. I am certain that I speak for all of the SOFT members who received awards - Dennis Crouch (Raymond Abemethy Award), Amanda Jenkins (Irving Sunshine Award), and Yale Caplan (AAFS Distinguished Fellow Award) - when I say there is no greater honor than having your efforts recognized by your colleagues. *

HAVE YOU PAID YOUR 1996 S.O.F.T. DUES ????

If not, please do so today. Remember, you are now in arrears and must include the late penalty. If you have questions about your dues payment, please contact Dr. Joseph Saady, SOFT's Treasurer.

TREASURY NOTES

Submitted by: Joseph Saady, Treasurer

1995 DUES: All 1995 paid members were mailed a personalized dues notice in November. If you have not paid your dues by 12/31/95, you are now in arrears. If you have not already done so, make any necessary corrections to your address, telephone, fax, etc. (include e-mail if applicable) and send in your dues now!

INVESTMENTS: on 7/25/95, \$25,000 of the SOFT general fund was placed in a separate "Emergency Fund" to be used to support SOFT in lieu of a disastrous annual meeting. The \$25,000 was invested into a one-year Treasury Bill at 5.44% interest. The interest of \$1,360 was placed into the SOFT general fund on 7/27/95.

ERA ENDOWMENT FUND: The other Treasury bill for \$53,000 (ERA) was renewed on 12/14/95 with \$2,711.48 interest.

1995 FINANCIAL REPORT: An official financial report for 1995 will appear in ToxTalk before the 1996 SOFT Annual Business Meeting. *

REGISTER FOR THE 1996 SOFT MEETING BY JULY 1st FOR A FREE T-SHIRT

1996 SOFT ANNUAL MEETING

DENVER, COLORADO

OCTOBER 14-18

All pre-registration materials for SOFT 1996 are in this issue of ToxTalk. Our hope is that we are giving you ample time and information to make your plans to come to Colorado in October! For all of you who have submitted an abstract already - GREAT JOB!!! For all of you who are planning to submit an abstract but just haven't gotten around to it yet - we understand, but don't delay - remember, the deadline for abstracts has been moved up one month to June 1, 1996. The forms needed to submit an abstract are also included in the inserts.

Calling all committee chairs or other individuals who need to schedule a group get-together during SOFT 1996. Please contact Bob or Laurel at your earliest convenience. We will make all necessary arrangements with the hotel and publish your meeting in the agenda.

We are looking forward to having you come to colorful Colorado. Plan for a scientifically stimulating meeting. Dress code for the meeting will match the casual Colorado lifestyle.

Co-hosts: Laurel Farrell (303-691-4727) and Bob Zettl (303-691-4738)
Scientific Program: Amanda Jenkins and Bruce Goldberger
Workshops: Dan Isenschmid and Dennis Crouch
Exhibitors: Lisa O'Dell

Workshop topics:

#1: Drugs & Driving (Monday 1-5) - D. Crouch, Moderator

#2: Toxicology of Inhalants (Monday 1-5) - L. Farrell, Moderator

#3: Isoenzyme-specific Metabolism of Drugs of Forensic Interest (Tuesday 8:30-noon) - D. Moody, Moderator

#4 Capillary Chromatography Training Seminar (Tuesday 8:30-5:00) - R. Morehead, Moderator

#5 Toxicology and the Internet (Tuesday 1-5) - D. Frederick, Moderator

#6 Fundamentals of Medical Examiner Toxicology (Wednesday 8:30 - noon) - W. Anderson, Moderator

#7 Current Issues in Forensic Urine Drug Testing - FUDT (Wednesday 8:30 - noon) M. Baylor, Moderator

Hotel: Denver Marriott Tech Center 1-800-228-9290 or 303-779-1100

Special reduced room rate: \$77 including tax (same as current federal government rate)

Shuttle service from Denver International Airport: \$15 one way. ✂

ABFT NEWS

ELECTIONS: On February 18, 1996, at the AAFS annual meeting in Nashville, the ABFT Board of Directors elected 1996-97 officers. Officers elected for a one-year term are: Yale Caplan, President, Joseph Monforte, Vice-President, and Richard Shaw, Secretary-Treasurer. Other members of the current Board are: Ronald Backer, Kurt Dubowski, C. Nicholas Hodnett, Graham Jones, Michael Peat, Alphonse Poklis, Michael Schaffer, and Marina Stajic.

CERTIFICATION PROGRAMS: Forensic toxicologists with a doctorate or masters degree who are interested in certification by the American Board of Forensic Toxicology should contact:

ABFT Administrative Office, P.O. Box 669, Colorado Springs, CO 80901-0669
Telephone: 719-636-1100

FROM THE HEALTH AND SAFETY COMMITTEE

Members: Daniel Isenschmid (Chair), John Cody, Laurel Farrell and Elizabeth Marker

Please feel free to submit comments or suggestions to: Daniel Isenschmid, Ph.D., Wayne County Medical Examiner's Office, 1300 E. Warren, Detroit, MI 48207

CHEMICAL SPILLS *Submitted by: Daniel S. Isenschmid, Ph.D.*

Most laboratories now have a chemical hygiene plan since it became an OSHA requirement under 29 CFR 1910.1200 - The Hazard Communication Standard. Under this standard employers are required to: 1) have and make accessible a material safety data sheet (MSDS) for every hazardous chemical; 2) label all chemical containers as required by the standard; 3) inform employees of hazards in their work area; 4) train employees how to protect themselves from chemical hazards; 5) prepare a written hazard communication program. Obviously employees must be trained in how to use and apply the information in the written hazard communication plan and it must be kept accessible at all times.

Chemical spills can and do occur. The odds of a chemical spill occurring at any given time is invariably related to the time the laboratory is least prepared for it. The goal of this article is to stress that any chemical safety program is only as good as its weakest link. The laboratory director, supervisor or safety officer are not always in the building. Would your employees know what to do if no one was available for help? Even available MSDS's and a written hazard communication plan are of little value if employees don't have access to them and have not been trained to use them. The time of a spill is not the time for an employee to read the hazard communication plan for the first time. Similarly, rushing to an MSDS should not be the front line defense for spills of commonly used chemicals in the laboratory.

Employees need to be trained in what spills they can address. In some cases it is best that they evacuate the site, but they will need to know who to inform in order that a specifically trained professional can be summoned to the scene to handle the spill. If there are chemical spills that can be addressed by laboratory personnel, the appropriate spill containment and clean-up tools must be made readily available. In addition, training in how to use these tools should be made available.

A chemical spill drill may be a very useful way to determine if employees know what to do in the event of a real spill. It may also point out flaws in the hazard communication plan itself. The following list describes some examples of situations which may not be considered in your hazard communication plan:

- 1) Additional safety manuals should be stored in an area accessible to everyone, but not in an area where a hazardous spill may occur.
- 2) A list of chemicals used in each room should be indexed in the safety manual.
- 3) The air handling units to the laboratory and all doors should be able to be immediately sealed off.
- 4) The MSDS's should be cross-indexed - a laboratory technologist should be able to look up dichloromethane and be directed to methylene chloride.
- 5) In addition to the MSDS, a *simple step-by-step procedure* in handling a chemical spill should be included in the manual for each chemical used. Spills which require immediate evacuation and are not safe to handle should be clearly indicated - possibly on an additional list as well. Staff should be informed precisely which chemicals they use that would fall into this class.
- 6) Appropriate spill kits should be readily available in *each area* that chemicals are used.
- 7) Spill kits and other safety devices (e.g. fire extinguishers, eye wash stations, fire blankets, respirators) should be regularly checked for function and supplies. An empty spill kit does not help anyone.
- 8) Chemical spills frequently occur in a fume hood. A hood cluttered with reagents cannot operate efficiently. If a spill does occur in the hood, it is critical that the hood be able to do its job. The laboratory hood is a workspace, not a chemical storage area.
- 9) Solvent disposal drums must have a secondary containment device. The contents of these drums must be known - not just in the event of a spill, but for the waste management corporation.

Prevention is the most important aspect of any written hazard communication program. Obviously use of dangerous chemicals should be minimized. In cases where this is not possible, purchase the chemicals in small containers to minimize the potential for large spills and always use glass carriers when transporting glass bottles. While training can go a long way minimize problems from occurring and preventing catastrophes if they do, there still is no substitute for something that we so often forget about - good ol' common sense!

DO YOU HAVE ALL THE ToxTalk SAFETY ARTICLES?

The following is a list of safety articles that have appeared in past issues of ToxTalk. I would be happy to provide a copy of these articles to anyone that would like them. Just drop me a note indicating which articles you need. Please include one dollar (\$1) for postage and reproduction. Send your requests to:

Dan Isenschmid, Wayne County Medical Examiner's Office, 1300 E. Warren, Detroit, MI 48207.

Dec. 1995	Occupational Exposure	John T. Cody, Ph.D.
Sept. 1995	Tuberculosis: Health and Safety in the Forensic Laboratory	Elizabeth Marker, Ph.D.
Dec. 1994	Ergonomics	Laurel J. Farrell, BA
Sept. 1994	Carcinogens	Dan Isenschmid, Ph.D.
June 1994	Formaldehyde and Related Compounds	John T. Cody, Ph.D.
March 1994	Chemical Hazards - Radiation	Amanda J. Jenkins, Ph.D.
Dec. 1993	Meeting OSHA's Standards for Bloodborne Pathogens and Exposure Control	Marilyn A. Heustis, Ph.D.

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Technical Notes: BLUTALKOHOLKONZENTRATION No. 12

Submitted by: J.G. Wigmore, B.Sc., Toxicology Section, Centre of Forensic Sciences, Toronto, Ontario, Canada

EMPERICAL KNOWLEDGE AFTER OBSERVING A CHRONIC ALCOHOLIC FOR TWO YEARS

G. Schmidt and G. Schmitt, *Blutalkohol* 32:268-273, 1995.

man title: *Erfahrungen nach zweijähriger Beobachtung eines chronischen Alkoholikers*

This is a case report regarding a 40-year-old male alcoholic who attended a clinic on a voluntary basis on 10 different occasions for 2 years. He had been alcohol dependant for over 8 years before attending the clinic and consumed approximately 10 bottles of beer and schnapps every day. He weighed 74 kg and was 174 cm in height.

For each visit, he was examined by various doctors, and blood and breath samples were collected. The BACs were determined by headspace GC and the enzymatic methods, and BrACs were determined by an IR Alcomat. The BACs ranged between 0.270 and 0.460 g/100 ml (mean 0.380 g/100mL). The BrACs ranged between 0.220 and 0.450 g/100mL (mean 0.360 g/100mL). He had a similarly high BAC no matter what time of day he was examined (between 9:00 a.m. and 7:30 p.m.).

The subject showed only slight symptoms of alcohol intoxication during the physical examinations. He had the odor of an alcoholic beverage on his breath, a reddish face, and his speech was somewhat slow. The conjunctiva of his eyes were not red or bloodshot. His walking was only slightly affected. He was well-behaved and had good comprehension throughout all the examinations.

The authors state that a high BAC does not necessarily result in lack of criminal responsibility, intoxication, or reduced consciousness and that medicolegal experts who testify in this area should have frequent contact with habitual alcohol users.

CALL FOR CASE NOTES

Your case note should be about 1/2 page in length, no more than a full page. Material or a disk (using Microsoft Works/Word 2.0) may be mailed to:

Joseph R. Monforte, Ph.D., DABFT, ToxTalk Editor

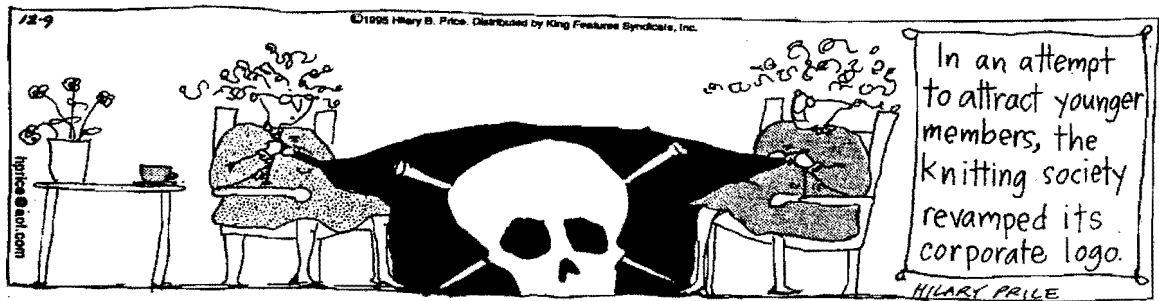
846 Smoke Dr. (H.P.), Prescott, AZ 86301-7347

- or - Telephone/FAX: 520-717-0617 (after 11:30 E.S.T.)

Other items of interest to SOFT members are also welcome.

Next deadline: MAY 1, 1996

- Thomas LC, Weichmann W **Quantitative measurements via co-elution and dual-isotope detection by gas chromatography-mass spectrometry** *Journal of Chromatography* 587(2):255-62 1991
- Bourque AJ, Krull IS **Solid-phase reagent containing the 3,5-dinitrophenyl tag for the improved derivatization of chiral and achiral amines, amino alcohols and amino acids in high-performance liquid chromatography with ultraviolet detection** *Journal of Chromatography* 537(1-2):123-52 1991
- Chan K, Lau OW, Wong YC **Determination of pethidine and its major metabolites in human urine by gas chromatography** *Journal of Chromatography* 565(1-2):247-54 1991
- Tsaconas C, Devissaguet M, Padieu P **Gas chromatography-mass spectrometry of perindopril and its active free metabolite, an angiotensin convertase inhibitor: choice of derivatives and ionization modes** *Journal of Chromatography* 488(1):249-65 1989
- Pawlowska M, Zukowski J, Armstrong DW **Sensitive enantiomeric separation of aliphatic and aromatic amines using aromatic anhydrides as nonchiral derivatizing agents** *Journal of Chromatography A* 666(1-2):485-91 1994
- Dalene M, Skarping G, Tinnerberg H **Biological monitoring of hexamethylene diisocyanate by determination of 1,6-hexamethylene diamine as the trifluoroethyl chloroformate derivative using capillary gas chromatography with thermoionic and selective-ion monitoring** *Journal of Chromatography B: Biomedical Applications* 656(2):319-28 1994
- Moore JM, Cooper DA **The application of capillary gas chromatography-electron capture detection in the comparative analyses of illicit cocaine samples** *Journal of Forensic Sciences* 38(6):1286-304 1993
- Nakahara Y, Takahashi K, Shimamine M, Takeda Y **Hair analysis for drug abuse: I. Determination of methamphetamine and amphetamine in hair by stable isotope dilution gas chromatography/mass spectrometry method** *Journal of Forensic Sciences* 36(1):70-8 1991
- Bernstein SC, Abrams SK, Leckrone KJ, Paul LA **Chloroisothiocyanatoquinolines as fluorogenic derivatizing agents for primary and secondary amines** *Journal of Pharmaceutical & Biomedical Analysis* 11(1):61-9 1993
- Bourque AJ, Krull IS **Immobilized isocyanates for derivatization of amines for chiral recognition in liquid chromatography with UV detection** *Journal of Pharmaceutical & Biomedical Analysis* 11(6):495-503 1993
- Huang CH, Kimura R, Bawarshi-Nassar R, Hussain A **Mechanism of nasal absorption of drugs. II: Absorption of L-tyrosine and the effect of structural modification on its absorption** *Journal of Pharmaceutical Sciences* 74(12):1298-301 1985
- Baker GB, Coutts RT, Holt A **Derivatization with acetic anhydride: applications to the analysis of biogenic amines and psychiatric drugs by gas chromatography and mass spectrometry. [Review]** *Journal of Pharmacological & Toxicological Methods* 31(3):141-8 1994
- Vanhoe H **A review of the capabilities of ICP-MS for trace element analysis in body fluids and tissues. [Review]** *Journal of Trace Elements & Electrolytes in Health & Disease* 7(3):131-9 1993
- Nakanishi T, Shimizu A **Reevaluation of optimum extraction condition for urinary organic acids using a stable isotope dilution technique. [Japanese]** *Rinsho Byori Japanese Journal of Clinical Pathology* 40(11):1161-7 1992



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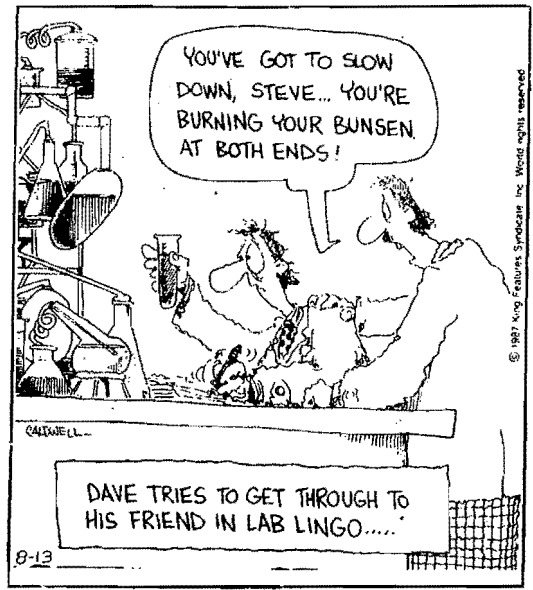
News America Syndicate, 1988

10-5



"For those of you who are concerned about drug tests, tutors will be provided."

CALDWELL By Caldwell



ELMER GORDON OPEN FORUM

AN OPPORTUNITY FOR INFORMAL DIALOGUE

HAPPY BIRTHDAY, DR. SUNSHINE! Best wishes to Irving Sunshine who celebrates his 80th birthday on March 17th.

SOFT MEMBERS "TOE THE LINE" IN NASHVILLE: A great time was had by all who attended the SOFT hospitality night at the Wildhorse Saloon during the AAFS Annual Meeting. The convenient busing, line dancing instructor, and other local arrangements were much appreciated by the members and others who attended. Thanks to Radian Corp for helping to financially support this event. ☼

CAREER OPPORTUNITIES

Positions available are listed for the consideration of SOFT members. There is no fee for this service. The information will be repeated in the next issue only if the information is confirmed by the person who submitted it.

CHEMIST Wyoming statewide drug/alcohol program, \$1887-2359, bachelor's degree and 2 yrs experience or master's degree. Contact Gene Rogutzi, Supervisor (307-777-7868) or State of Wyoming Personal Management Division (307-777-7188).

FORENSIC CERTIFYING SCIENTIST Ph.D. in Chemistry or related field with board certification or eligibility, work with Director of Forensic Toxicology and under Certifying Scientists in SAMHSA-certified lab. Contact Jodi Spauling, Human Resource manager, MEDTOX Laboratories, Inc., 402 W County Rd D, St. Paul MN 55112 (Fax: 612-628-6102) *From Clin Lab News 2/96.* ☼

PROFESSIONAL CALENDAR

California Association of Toxicologists (CAT) quarterly meetings and workshops. For information contact Vickie Watts 602-644-2077, FAX 602-644-2478. 5/4/96 Sacramento, CA, 8/3/96 San Diego, CA, 11/9/96 San Francisco, CA.

American Academy of Forensic Sciences (AAFS) annual meeting: Contact Brenda Papke, 719-636-1100. Future AAFS meetings: 2/17-22/97 New York City.

2nd IACP DRE Drugs, Alcohol and Impaired Driving Training Conference: May 12-14, Aspen, CO. Contact Chuck Peltier, IACP 703-836-6767 x224; Tom Page, LAPD, 213-485-8565; or Paul Helzer, Colorado Office of Transportation Safety, 303-757-9462.

INTERNATIONAL SOCIETY FOR QUALITY IN HEALTH CARE 13th INTERNATIONAL CONFERENCE: May 26-30, Jerusalem. Contact: ISAS International Seminars, POB 574, Jerusalem 91004, Isreal (Ph: 972-2-6520574, Fax: 972-2-6520558)

Analytical and Molecular Biological Techniques in Environmental Toxicology and Forensic Sciences: September 11-12, San Juan, Puerto Rico. Sponsored by Puerto Rico Chemists Assoc and the American Registry of Pathology, \$200. Contact Dr. Jose Centeno, AFIP, 14th & Alaska Ave. NW, Washington, DC 20306-6000. Ph 202-782-2839, Fax 202-782-9215

SOFT Annual Meeting: Oct. 14-18, 1996, Denver, Colorado. Co-hosts: Laurel J. Farrell and J. Robert Zettl, CDPHE - Division of Laboratories, P O Box 17123, Denver, CO 30217. Phone: 303-691-4727/4738. Fax: 303-393-7881. ☼

REMINDER - S.O.F.T. CONTACT INFORMATION:

☎ **VOICE MAIL & FAX 602-839-9106**

✉ **MAILING ADDRESS P.O. Box 5543, Mesa, AZ 85211-5543**

Submit your items for ToxTalk to: Dr. Joseph Monforte, 846 Smoki Dr (HP), Prescott, AZ 86301-7347

(ToxTalk print date: 3/06/96)



CALL FOR PAPERS SOFT/JAT SPECIAL ISSUE

The 16th annual October special issue of the *Journal of Analytical Toxicology* will again be published in collaboration with the **Society of Forensic Toxicologists (SOFT)**. The guest editor for this issue is Edward J. Cone.

Original manuscripts to be considered for publication should be directed to:

Edward J. Cone
Chief, Laboratory of Chemistry and Drug Metabolism
Addiction Research Center, NIDA
P.O. Box 5180
4940 Eastern Ave., Bldg. C
Baltimore, MD 21224

Telephone: (410) 550-1507 • FAX: (410) 550-2971

DEADLINES FOR SUBMISSION:
March 11, 1996: Abstracts
March 25, 1996: Completed Papers

Complimentary copies of this issue will be distributed at the *JAT* booth during the 1996 SOFT Annual Meeting (October 14-19, Denver, CO). For more information on the 1996 meeting, contact:

Laurel J. Farrell or J. Robert Zettl
Colorado Dept. of Public Health and Environment
Division of Laboratories
P.O. Box 17123
Denver, CO 80217

Telephone: (303) 691-4727 • FAX: (303) 393-7881





SOCIETY OF FORENSIC TOXICOLOGISTS

DENVER '96 - October 14-18, 1996

Abstract of Paper

Presenting Author Name and Mailing Address:

Telephone: _____

FAX: _____

SOFT Member SOFT Non-Member

Presentation Preference:

Oral Poster

Co-author(s) and Business Affiliation(s):

Has this paper been presented before?

yes no; if yes, where and when?

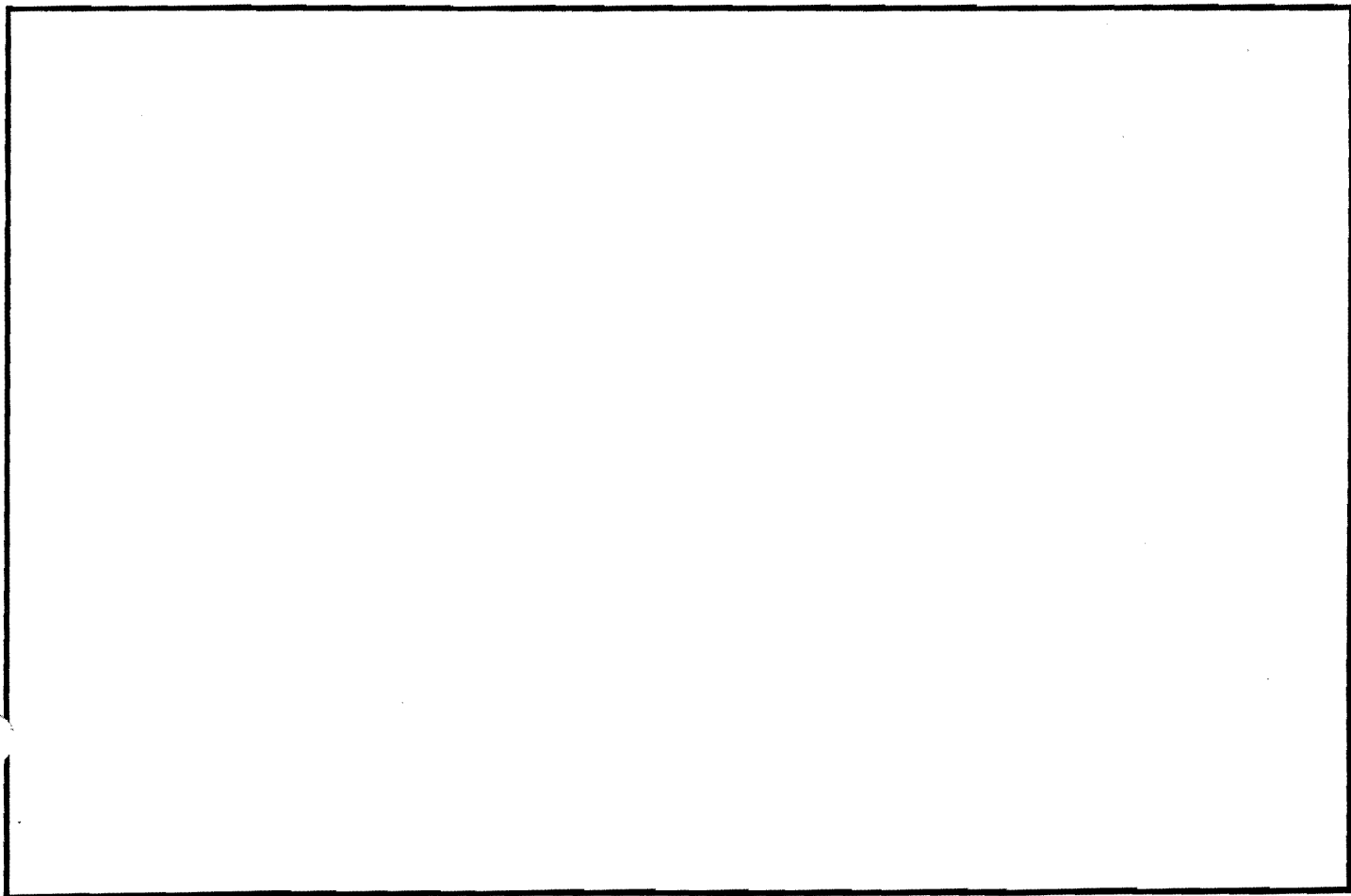
Available Audio-Visual Equipment: 35 mm slide projector & pointer; overhead projector will not be provided

Mail Address: Dr. Amanda Jenkins
Chemistry and Drug Metabolism Section
Addiction Research Center, NIDA, NIH
P.O. Box 5180
Baltimore, MD 21224

Street Address: Dr. Amanda Jenkins
Chemistry and Drug Metabolism Section
Addiction Research Center, NIDA, NIH
4940 Eastern Avenue, Building C
Baltimore, MD 21224

The abstract review committee reserves the right of final placement of the paper. The presenting author will be required to register for the meeting.

Signature of presenting author



SOCIETY OF FORENSIC TOXICOLOGISTS

DENVER '96 - October 14-18, 1996

Instructions for Abstract Preparation

General Instructions:

The program committee solicits abstracts on all forensic toxicology topics, but is especially interested in papers on the analysis of drugs and metabolites in biofluids and tissues, drug interactions, drug-metabolism, pharmacology, pharmacokinetics and case reports involving drug toxicity/overdose. An original and three copies of the abstract must be submitted on the official abstract form. All abstracts must also be submitted on computer disk. Any IBM or Macintosh word processing format, or ASCII format can be accommodated. Please label the disk with the presenting author's name, IBM or Macintosh, and the word processing program utilized. The deadline for submission of abstracts is June 1, 1996. Late abstracts will not be accepted. The presenting author will be required to register for the meeting.

Scientific papers selected for presentation will be divided into two groups: Platform Presentations (15 min including questions, limit of one per presenter) and Poster Presentations (4 ft high by 8 ft wide). Tack boards and thumb tacks will be provided. Only abstracts written in English will be considered.

Content of Abstract:

1. Author(s) name(s) and address(es)
2. Short specific title
3. Statement of paper's objectives
4. Statement of experimental design
5. Statement of methods, if pertinent
6. Summary of results.
7. Statement of conclusion

Sample Abstract:

Format of Abstract:

Your abstract must be typed and submitted in a neat and legible format following the instructions and style provided in the sample below. Type the entire abstract within the boxed area, single spaced with 12 point font. Type the title in upper and lower case, followed by the author(s) name(s) and address(es). Use an asterisk to identify the presenting author. Separate the author(s) name(s) from the body of the abstract by a single blank line. Indent each paragraph three spaces. Identify three key words at the bottom of the abstract.

Notification of Acceptance:

The presenting author will be notified upon receipt of the abstract. Notification of acceptance of the abstract and selection of the type of presentation will be mailed or sent by facsimile to the presenting author no later than August 15, 1996.

Specific Instructions:

Complete the attached form and follow the sample provided below. Proofread all information provided. Return original, three additional copies, and an IBM or Macintosh disk with the abstract to:

Mail Address: Dr. Amanda Jenkins
Chemistry and Drug Metabolism Section
Addiction Research Center, NIDA, NIH
P.O. Box 5180
Baltimore, MD 21224

Street Address: Dr. Amanda Jenkins
Chemistry and Drug Metabolism Section
Addiction Research Center, NIDA, NIH
4940 Eastern Avenue, Building C
Baltimore, MD 21224

Submissions by Federal Express, Airborne, DHL, other commercial carriers or Priority Mail should utilize the street address.

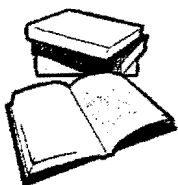
Title: Type upper and lower case. Use significant words descriptive of subject content.

Author(s) name(s) and address(es): Type upper and lower case; spell out first and last name and use middle initial, e.g. Amanda J. Jenkins. Specify presenting author with an asterisk. Specifying degrees is unnecessary.

Indent each paragraph three spaces. Type the entire abstract within the boxed area, single spaced in 12 point font. Do not use all capital letters. Capitalize and punctuate exactly as you wish the abstract to appear.

Key Words: Type three key words or short phrases in upper and lower case.

***Society of Forensic Toxicologists
Denver, Colorado
October 14 - 18, 1996***



Workshops designed for the beginner and the veteran. Seven to choose from. See the insert sheet that gives a description of each workshop and the moderator if you would like additional information.



Your registration covers attendance to all scientific sessions, lunch on Thursday and Friday, Tuesday evening welcoming reception, Hors d'oeuvres and later dessert on Wednesday, Evening activity on Thursday, and breakfast on Friday.



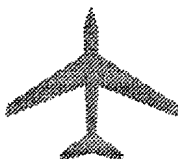
Pull out those western clothes (that you may not have used since SOFT in Phoenix) and bring them to Colorado! We're heading out to enjoy western hospitality at the Lazy H on Thursday evening. Good food, great fun, line dancing, and gun fights are in order for this evening.



Feeling Lucky???? The optional evening activity is a trip to Central City, Colorado for dinner, sightseeing, and gambling. The \$10.00 fee for the evening includes bus transportation, an all you can eat buffet dinner, \$5 returned to you for gambling, 2 free drinks, and other discount coupons.



Register early! Those who do will receive a free T-shirt and avoid late fees. Make your hotel registration directly with the Marriott Denver Tech Center. (303) 779-1100. Mention S.O.F.T. to guarantee the government rate of \$77 including tax.



Fly into Denver International Airport and it will be a 30 minute/\$15 shuttle ride to the hotel or try flying into the Colorado Springs airport and catch a shuttle to Denver (they have had some great airfare wars lately!)



Denver Marriott Tech Center
October 14-18, 1996
Denver, CO

PRELIMINARY MEETING SCHEDULE

SUNDAY OCTOBER 13, 1996

8:00 a.m. - 4:30 p.m.

FUDT Inspector Training

MONDAY OCTOBER 14, 1996

8:00 a.m. - 5:00 p.m.

Registration

1:00 p.m. - 5:00 p.m.

Workshop #1 Drugs and Driving

1:00 p.m. - 5:00 p.m.

Workshop #2 Toxicology of Inhalants

TUESDAY OCTOBER 15, 1996

8:00 a.m. - 5:00 p.m.

Registration

8:30 a.m. - 12 noon

Workshop #3 Isoenzyme-specific Metabolism
of Drugs of Forensic Interest

8:30 a.m. - 5:00 p.m.

Workshop #4 Capillary Chromatography Training Seminar

1:00 p.m. - 5:00 p.m.

Workshop #5 Toxicology and the Internet

6:00 p.m. - 10:00 p.m.

Welcoming Reception

WEDNESDAY OCTOBER 16, 1996

8:00 a.m. - 5:00 p.m.

Registration

8:30 a.m. - 12 noon

Workshop #6 Fundamentals of Medical Examiner Toxicology

8:30 a.m. - 12 noon

Workshop #7 New Concepts in Forensic Urine Drug Testing

8:00 a.m. - 1:00 p.m.

Exhibit set-up

1:30 p.m. - 4:30 p.m.

Scientific Session

1:30 p.m. - 6:00 p.m.

Exhibits Open

4:30 p.m. - 6:00 p.m.

Happy hour/appetizers - Exhibit Hall

8:00 p.m. - 10:00 p.m.

TOX Trivia/Elmer Gordon

Dessert bar and drinks

THURSDAY OCTOBER 17, 1996

7:00 a.m. - 8:30 a.m.

ABFT Breakfast

8:00 a.m. - 5:00 p.m.

Registration

8:00 a.m. - 4:30 p.m.

Exhibits Open

8:30 a.m. - 12 noon

Scientific Session

12 noon - 1:30 p.m.

Lunch Provided

1:30 p.m. - 3:00 p.m.

Business Meeting

3:00 p.m. - 4:30 p.m.

Scientific Session - Posters

5:00 p.m. - 10:00 p.m.

Evening Activity - Lazy H

FRIDAY OCTOBER 18, 1996

8:00 a.m. - 5:00 p.m.

Registration

8:30 a.m. - 1:30 p.m.

Exhibits Open

8:30 a.m. - 10:00 a.m.

Scientific Session - Posters

10:00 a.m. - 12 noon

Continental breakfast

12 noon - 1:30 p.m.

Scientific Session

1:30 p.m. - 5:00 p.m.

Lunch Provided

1:30 p.m. - 4:30 p.m.

Scientific Session

5:30 p.m. - 10:30 p.m.

Exhibit breakdown

Optional Evening Activity - Central City

SATURDAY OCTOBER 19, 1996

8:30 a.m. - 12 noon

HHS Inspectors Workshop



Denver Marriott Tech Center
October 14-18, 1996
Denver, CO

PRELIMINARY WORKSHOP PROGRAM

WORKSHOP #1 DRUGS AND DRIVING

Monday 1:00 p.m. - 5:00 p.m.

Denny Crouch, B.S., MBA, Moderator

This workshop, sponsored by NHTSA, will focus on current research in drugs and driving. A variety of topics will be presented including behavioral pharmacology, analytical toxicology, and the role of law enforcement.

WORKSHOP #2 TOXICOLOGY OF INHALANTS

Monday 1:00 p.m. - 5:00 p.m.

Laurel Farrell, B.A., Moderator

This workshop will provide an overview of the toxicology of inhalants. Topics to be presented include the epidemiology of inhalant abuse, the acute effects and neurotoxicology of inhalants, analytical issues and case reports as well as new technologies. This workshop is being sponsored by Medtox Laboratories.

WORKSHOP #3 ISOENZYME-SPECIFIC METABOLISM OF DRUGS OF FORENSIC INTEREST

Tuesday 8:30 a.m. - 12 noon

David E. Moody, Ph.D., Moderator

This workshop has been designed to provide an introduction to specific isoenzymes involved in human metabolism of drugs of interest to forensic toxicologists. A discussion of the enzyme classes including their function, known isoenzymes, and subjectivity to genetic defects or drug-interactions will be followed by examples of specific drugs, including pharmacokinetics, involvement of isoenzyme specific pathways and case reports where isoenzyme-specific genetic defects or drug interactions played a role.

WORKSHOP #4 CAPILLARY CHROMATOGRAPHY TRAINING SEMINAR

Tuesday 8:30 a.m. - 5:00 p.m.

Rick Morehead, Moderator

This one-day workshop will be an intensive course on the "ins and outs" of capillary gas chromatography. The course will include discussions on inlet systems and injections techniques, detection systems, column selection and column installation, operation and maintenance. This workshop is being sponsored by Restek Corporation.

WORKSHOP #5 TOXICOLOGY AND THE INTERNET

Tuesday 1:00 p.m. - 5:00 p.m.

Donald L. Frederick, Ph.D., Moderator

This workshop will discuss the history of the Internet while defining the terminology associated with on-line communications. The speakers will explain the various types of services available on the Internet and examine the world wide web and the various methods of access to the information in detail. Toxicology resources found on these on-line services will be presented including the experiences of a publication firm and a commercial laboratory that have on-line services. The workshop will be accompanied by a live Internet session to illustrate the topics presented.

WORKSHOP #6 FUNDAMENTALS OF MEDICAL EXAMINER TOXICOLOGY

Wednesday 8:30 a.m. - 12 noon

William Anderson, Ph.D., Moderator

This workshop is designed to present analytical techniques and interpretive concepts that will assist forensic toxicologists in the day to day practice of their profession. Although the primary focus of the workshop is post mortem forensic toxicology, the presented material should be of interest to all analytical toxicologists. Topics to be presented include analysis and pharmacokinetics of morphine and cocaine with a special emphasis on their metabolites, the routine use of chemical ionization mass spectrometry in postmortem toxicology, identification, quantitation and interpretation of SSRI antidepressants, and the current state of the art in LC including microbore columns, diode array detectors, and LC/MS.

WORKSHOP #7 CURRENT ISSUES IN FORENSIC URINE DRUG TESTING (FUDT)

Wednesday 8:30 a.m. - 12 noon

Michael Baylor, Ph.D., Moderator

The objective of this workshop will be to focus on current issues of general interest concerning forensic urine drug testing. The morning's discussion will include presentations on the NLCP Blind Performance Testing Program in FUDT Laboratories; Amphetamine Precursors and OTC Medications; and Minimum Doses, Detection Times, and Creatinine Normalization in Drugs of Abuse Testing. New Perspectives as well as comments to controversial topics will provide the participants with useful information to supplement their knowledge of forensic toxicology.



Denver Marriott Tech Center
 October 14 - 18, 1996
 Denver, CO

REGISTRATION FORM

Fed ID # 51-0233801

Name _____
 Last First Degree
 Agency _____
 Address _____
 Telephone _____ FAX _____
 Guest(s) _____
 Member _____ Non-Member _____

MEETING REGISTRATION:

	<u>MEMBER</u>	<u>NON-MEMBER</u>	<u>TOTAL ENCLOSED</u>
Includes admission to all scientific sessions. Welcome Reception, Wednesday Happy Hour & Dessert. Thursday Evening, and two Luncheons (Th. & Fri.)	\$135.00	\$165.00	_____
WORKSHOP #1 Drugs and Driving (10/14, 1:00 p.m. - 5:00 p.m.)	\$ 35.00	\$ 45.00	_____
WORKSHOP #2 Toxicology of Inhalants (10/14, 1:00 p.m. - 5:00 p.m.)	\$ 35.00	\$ 45.00	_____
WORKSHOP #3 Isoenzyme-specific Metabolism (10/15, 8:30 a.m. -12 noon)	\$ 35.00	\$ 45.00	_____
WORKSHOP #4 Capillary Chromatography (10/15, 8:30 a.m. - 5:00 p.m.)	\$ 70.00	\$ 90.00	_____
WORKSHOP #5 Toxicology and the Internet (10/15, 1:00 p.m. - 5:00 p.m.)	\$ 35.00	\$ 45.00	_____
WORKSHOP #6 Fundamentals of M.E. Toxicology (10/16, 8:30 a.m. -12 noon)	\$ 35.00	\$ 45.00	_____
WORKSHOP #7 New Concepts in FUDT (10/16, 8:30 a.m. -12 noon)	\$ 35.00	\$ 45.00	_____
ABFT Breakfast (Diplomates and Forensic Toxicology Specialists Only) 10/ 17 7:00 - 8:30 a.m.	\$ 20.00		_____
Extra Tickets: Welcoming Reception # _____	\$31.00		_____
Happy Hour/Drinks # _____	\$22.00		_____
Dessert /Drinks # _____	\$11.00		_____
Lazy H # _____	\$35.00		_____
Optional Friday Evening Activity # _____	\$10.00		_____
Meeting T-shirt: (1 free if register by July 1st) Large _____ X-Large _____ XX - Large _____ \$10.00 for extra shirts # of extra shirts _____			_____
LATE FEE: for all registrations received after September 10, 1996		\$ 35.00	_____
No mail registrations accepted after 10/1/96			_____
On-site registration fee	\$215.00	\$215.00	_____
		TOTAL ENCLOSED	_____

Payment by check or money order, no P.O.s (US funds only) Make payable to S.O.F.T. 1996
 Refund Policy: Refunds may be honored upon written request prior to 10/1/96, minus a \$10 processing fee.
 MAIL TO: Laurel Farrell/ Bob Zettl 4210 E. 11th Avenue, Denver, CO 80220
 Phone: 303-691-4727/303-691-4738 FAX: 303-393-7881