Society of Forensic Toxicologists, Inc.
P. O. Box 5543, Mesa, AZ 85211-5543 Phone/Fax 602-839-9106

ToxTalk

VOLUME 23, No. 1  MARCH 1999

EDITOR: Joseph R. Monforte, Ph.D., DABFT
EDITORIAL BOARD: H. Chip Walls, B.S., Jim Wigmore, B.Sc., Daniel Kenschmid, Ph.D., DABFT, Vincent Fatus, Ph.D.
PUBLISHER: Patricia Meili-Monforte

IN THIS ISSUE

REGULAR FEATURES: Professional Calendar  Career Opportunities  President’s Message

TECHNICAL NOTES: Blutalkoholkonzentration (Wigmore)  Case Notes: The effect of solvents on measurement of breath alcohol concentration (BrAC) by the Intoxilyzer 5000 (Poupko)

OF SPECIAL INTEREST: 1999 SOFT Committees and Chairs  ‘99 Meeting Information

INSERTS: 1999 SOFT Meeting Information  ERA Announcement

IMPORTANT: 1999 MEETING SITE CHANGED to:

WESTIN RIO MAR BEACH RESORT
Rio Grande, Puerto Rico

For reservations, phone 800-474-6627 (or 787-888-6000) or fax 787-888-6000
Dates remain the same. No increase in room rates! See insert for more information.

VISIT THE SOFT WEBSITE: www.soft-tox.org

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 (Mesa, AZ - above). Non-members may now receive ToxTalk for $15 per calendar year. Make your check payable to SOFT and mail it directly to the ToxTalk Editor.
All members and others are encouraged to contribute to ToxTalk. Please mail your contribution to:

Joseph R. Monforte, Ph.D., DABFT, ToxTalk Editor
42408 N. Sombrero Rd, Cave Creek, AZ 85331-2821
Telephone: 480-595-6646  Fax: 480-595-6663  After 11 a.m. EST please
note area code change as of 3/99
E-mail: DrMonforte@aol.com

DEADLINES: Feb. 1, May 1, Aug. 1, and Nov. 1. NEXT DEADLINE: May 1, 1999

THE MAY 1st DEADLINE IS FIRM. All materials must be received by May 1, 1999.

SOFT is a supporting organization of the American Board of Forensic Toxicology.
1998 PRESIDENT'S MESSAGE by Marilyn Huestis, Ph.D.

Let's make this last year of the millennium memorable. I greatly appreciate the opportunity to lead SOFT over the next year and the confidence that you have placed in me. All of us who have worked for SOFT over the years realize that it is the combined efforts of the many individuals who volunteer to serve on our committees and Board of Directors, our elected officers, and the members who contribute abstracts to the annual meeting, papers in the SOFT Journal of Analytical Toxicology Special Issue and articles, case notes and letters to ToxTalk that mark the accomplishments of this professional society. I would also credit the friendly, sharing environment that we strive to create with fostering our growth and success. I am pleased with the number of members that have once again offered to share their knowledge, experience and energy. Please consider becoming more active in SOFT and e-mail me your ideas and desired area of interest. A list of committee chairs is included below. Feel free to contact any committee chair to join an existing committee or any officer to suggest additional SOFT activities.

Many thanks to Drs. Rao, Backer and Spiehler for an outstanding 1998 SOFT Annual Meeting in Albuquerque, New Mexico. We all enjoyed the science (so many abstracts so little time), the people (over 800 SOFT and TIAFT members) and the location (beautiful New Mexico scenery and hundreds of hot air balloons). It was wonderful to see how many new members were able to attend the annual meeting. New members and first time attendees were recognized with unique ribbons to ensure that they received a special welcome.

This issue of ToxTalk contains important information about the 1999 SOFT Annual Meeting in Puerto Rico, October 9th through the 14th. We have had an unavoidable change of hotels, but have come out with an even more desirable location. We will be enjoying the beauty of a five star resort, directly on the ocean with championship golf courses and tennis courts. The beautiful El Yunque tropical rain forest is only minutes away with great hiking, bird watching and exploring. We have managed to negotiate a much lower room rate than normally available and reduced prices on all resort amenities. This may represent a great chance to bring the entire family on vacation. Lee Hearn has planned a challenging scientific program and Flor Mattos and the Puerto Rican Steering Committee have organized a great social program that includes a night in Old San Juan and a Photo marathon in the rain forest. We also have included many meals in the registration fee to reduce your costs to attend the meeting. This is a great opportunity to meet with many of our Caribbean, Central and South American colleagues so please plan to come to this outstanding meeting. An unsubstantiated rumor is circulating that Puerto Rican rum will be freely flowing in the Presidential Suite. Much thanks to all who are working diligently to make this meeting interesting and productive.

The Board of Directors had a productive meeting at the recent AAFS meeting in Orlando, FL. Our membership continues to grow (total 562) with 55 new members in 1998. Secretary Smith, Kurt Dubowski and Yale Caplan (new Bylaws committee chair), in conjunction with the Board of Directors and officers of SOFT, are preparing an updated Bylaws document which will be distributed to all members through ToxTalk and posted on the SOFT website later this year. Joe Monforte requests members to submit interesting cases, comments, suggestions, etc. to ToxTalk, our excellent newsletter. The Forensic Toxicology Guidelines Committee is updating and revising the Guidelines and reformatting the document in a more user-friendly style. The new document should be available for membership review and appraisal at the 1999 annual meeting. The Drugs and Driving Committee has available the new benzodiazepine monograph and the drugs and driving database with over 3000 cases. Contact Chip Walls (hchipw@aol.com) or Vickie Watts (toxilady@aol.com) to request further information on these two valuable membership benefits. Bill Anderson is continuing his monumental task of drafting the SOFT policy and procedures manual. Bruce Goldberger, SOFT's webmaster, improves our website almost daily with numerous redesigns and additional member services. The Joint Committee on Education and Training in Toxicology (JCETT) decided to disband due to lack of a clear mission for the committee and difficult logistics problems. We are sorry to see JCETT disband, but will find other means of advancing continuing education within the organization. We all owe the many people who participated in JCETT over the last few years a large THANK YOU for your time. Laurel Farrell is chair of the new Meeting Host Guidelines Ad Hoc Committee and will expand on the hard work contributed by Vickie Watts. Joe Saady, Past President, has agreed to lead the Visioning Workgroup in the new year. Our professional organization needs to be proactive about the future, rather than reactive to the ever-changing political and scientific environment. Your officers and Board of Directors are dedicated to giving back to the membership and has approved four $1,000.00 awards for the best two poster and two oral presentations at the upcoming Puerto Rico meeting in a further effort to honor members' scientific contributions.

Mark your calendars for SOFT 2000- Milwaukee, WI, 2001 New Orleans, LA, 2002 Detroit, MI, 2003 Portland, OR. I would like to personally thank all the officers, committee chairs and members and other individuals who have given so much of their personal time and effort to make SOFT such a wonderful professional organization. To all of the others, now is a great time to get involved. I think you would find your involvement to be professionally and personally valuable. Take time to volunteer to any of the chairs listed in this issue of ToxTalk.

You may contact President Huestis through her e-mail address at: MHuestis@irp.nida.nih.gov
SOFT 1999: WE'VE UPGRADED!

NEW HOTEL: WESTIN RIO MAR BEACH RESORT in Rio Grand, Puerto Rico

Our Puerto Rican hosts and meeting committee are busy planning for our 1999 SOFT Annual Meeting. The big news is the change to the luxurious Westin Rio Mar Beach Resort. The original hotel will be undergoing extensive renovation.

As this issue of ToxTalk is being prepared, the meeting program is being fine-tuned. Some changes you will notice: CAP now meeting from 3 p.m. to 9 p.m. on Saturday (10/09), vendors are requesting 2 full days (Tuesday and Wednesday 9-4) with set-up scheduled for Monday. Workshop #1 (Drugs, Driving, and Traffic Safety: Update) has been extended to a full day on Sunday, lunch hour changed to accommodate new afternoon program schedule (1 p.m. to 3 p.m.), the bus schedule for the visit to San Juan has been changed to leave at 3:30 with planned activities starting at 6:30, and a Photo Marathon at the El Yunque rain forest is planned for Thursday after the close of the scientific session.

Important - Refer to the inserts which will have all the latest information and supercede anything written in this ToxTalk. The inserts include: preliminary meeting program, workshop descriptions, hotel reservation form for the Westin, meeting registration form, Fun Run form, and other meeting related information.

HOTEL INFORMATION: The Caribe Hilton Hotel is NOT the site for this year's meeting. We will now be meeting at the Westin Rio Mar Beach Resort in Rio Grande, Puerto, near "El Yunque" (2,533 ft. peak) in the only tropical U.S. national forest, the Caribbean National Forest). Since this is a more remote area, additional rooms have been reserved. The base room rate is the same: $143 single or double plus 11% tax and a few nominal fees may be charged. Children under 18 are free! This negotiated rate is guaranteed only until September 1st. The Westin is also offering these reduced rates 3 days before and after the meeting dates. You will be billed for one night if you do not cancel at least 72 hours prior to your planned arrival. When making your hotel reservation, be sure to identify yourself as an attendee of the SOFT meeting. A hotel reservation form is included with the meeting materials in this issue of ToxTalk. Call the Westin Rio Mar Beach Resort at 800-474-6627 for reservations. Do not wait until the last minute. There are no nearby alternate hotels.

PRE-CONFERENCE TOURS AVAILABLE: Old San Juan Historic District (half day)
Bacardi Rum Distillery (half day)
Rain Forest (half day)
Rain Forest/Luquillo Beach (full day)

OTHER FUN STUFF: Biking, water sports (skiing, snorkeling, scuba diving, parasailing, etc.), lots of great beach for playing and lounging, tennis, golf, Caribbean drinks, gambling, the El Yunque rain forest, hiking, shopping, Old San Juan, more beach lounging . . . A tennis or golf tournament is being considered.

STRICT DRESS CODE: Be sure to pack the following - sandals, t-shirts, shorts and bathing suits. Leave the suits and ties on the mainland.

For additional information, please contact one of the meeting committee members listed below:

<table>
<thead>
<tr>
<th>Host</th>
<th>Flor Mattos</th>
<th>787-765-0615</th>
<th>787-759-8908</th>
<th><a href="mailto:forense@coqui.net">forense@coqui.net</a></th>
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<tr>
<td>Scientific Program</td>
<td>Lee Hearn</td>
<td>305-545-2450</td>
<td>305-545-2452</td>
<td><a href="mailto:leehearn@ocanect.net">leehearn@ocanect.net</a></td>
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<tr>
<td>Vendors</td>
<td>Lisa O'Dell</td>
<td>303-477-5976</td>
<td>303-561-3808</td>
<td><a href="mailto:NomadLee9@aol.com">NomadLee9@aol.com</a></td>
</tr>
<tr>
<td>Program Coordinator</td>
<td>Laurel Farrell</td>
<td>303-692-3679</td>
<td>303-774-7821</td>
<td><a href="mailto:Farrell@oneimage.com">Farrell@oneimage.com</a></td>
</tr>
<tr>
<td>Committee member</td>
<td>Robert Zettl</td>
<td>303-886-4498</td>
<td>303-795-1654</td>
<td><a href="mailto:jrzettl@ecentral.com">jrzettl@ecentral.com</a></td>
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DEADLINE REMINDERS:

June 1 Abstract deadline (*You will probably not receive another abstract form in the June issue of ToxTalk.*)
July 1 FREE T-shirt with registration
Aug. 15 Registration without late payment
Sept. 10 Hotel registration with reduced SOFT rates
Sept. 15 Mail registration closed
1999 SOFT COMMITTEES and CHAIRS

Following are the 1999 SOFT Committees and Chairs. Their e-mail addresses and fax numbers, when available, are listed. Please refer to the SOFT Membership Directory for additional contact information. Abbreviated information from written reports submitted for the February, 1999, SOFT Board Meeting are also included.


- **Membership** - Michael L. Smith, Ph.D., DABFT  smithm@afip.osd.mil  Fax: 301-319-0628  Total members as of 1/27/99: 562 (24 charter, 422 full, 82 associate, 20 retired, and 14 students).

- **Budget, Finance, and Audit** - James Valenta, Ph.D., DABFT  none  Fax: 804-371-8328  Mission: Review the Treasurer's income and expense records.

- **ToxTalk Editor** - Joseph Monforte, Ph.D., DABFT  DrMonforte@aol.com  Fax: 480-696-6663  Editorial Board: H.C. Walls, J. Wigmore, D. Isenschmid, and V. Papa. Mission: Prepare and publish ToxTalk, the official quarterly newsletter of SOFT. Plan: Continue current mechanisms and encourage more participation.

- **Drugs & Driving** - H. Chip Walls, B.S.  hchipw@aol.com  Fax: 315-435-8439.

- **By-Laws** - Yale Caplan  ycaplan@aol.com

- **Publications** (JAT Special Issue) - Bruce Goldberger, Ph.D., FTS  bruce-goldberger@ufl.edu  Fax: 352-846-1586

- **Education Research Awards (ERA) Endowment Fund** - Barbara Manno, Ph.D., DABFT  bmanno@lsunm.edu  Fax: 318-875-7811.

- **Meeting Resource** - V.P. Robert Zettl, B.S., M.P.A.  jrzettl@ecentral.com  Fax: 303-795-1654  Mission: Identify future annual meeting sites and help meeting hosts. Future SOFT meetings:
  - 1999 - Puerto Rico - Flor Mattos
  - 2000 - Milwaukee, WI - Steve Wong / Sue Gock
  - 2001 - New Orleans, LA - Pat Pizzo
  - 2002 - Detroit, MI - Dan Isenschmid / Brad Hepler
  - 2003 - Portland, OR - Kent Johnson

- **Forensic Toxicology Guidelines** (SOFT/AAFS) - Graham Jones, Ph.D., DABFT  jones@just.gov.ab.ca  Fax: 780-422-1265  Members: L. Hearn, H. McCurdy, and R. McCutcheon. Mission: To keep the Guidelines current.

- **Policy & Procedures** - William Anderson, Ph.D., DABFT  billa@oome.unc.edu  Fax: 919-962-6263

- **SOFT Internet Web Site** - Bruce Goldberger, Ph.D., FTS  info@soft-tox.org  Fax: 352-846-1586  Members: L. Caughlin, D. Frederick, V. Papa and J. Driskell. Mission: Maintain SOFT web-site, including periodic updates.

- **Visioning Workgroup** - Joseph Saady, Ph.D., DABFT  Saady@hsc.vcu.edu  Fax: 804-371-8328  Mission: Gather information to present to Board regarding the direction and emphasis of SOFT.

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**SUBMITTING AN ABSTRACT FOR SOFT 1999?** Enclosed is the only abstract form you may receive. ABSTRACT DEADLINE IS JUNE 1 (You will probably not receive the next issue of ToxTalk before the deadline date.)

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ELMER GORDON OPEN FORUM
AN OPPORTUNITY FOR INFORMAL DIALOGUE

NEW ARIZONA AREA CODES: To contact ToxTalk Editor Joseph Monforte, please note the new area code is now 480.

Send items for this section to ToxTalk or fax Editor Joseph Monforte at 480-595-6663.
TREASURY NOTES

Submitted by Laurel Farrell, B.A., SOFT Treasurer, 2935 Spinnaker Place, Longmont, CO 80503 e-mail: farrell@oneimage.com

If you have not submitted payment for your 1999 dues, they are late. January 31st was the deadline for submission without a late fee of $7. Please forward them to the SOFT administrative office at your earliest convenience.

I thought that I would take this opportunity to give you an update on the Educational Research Award Fund. The aim of the award is to encourage academic training and research in areas related to forensic toxicology. The first award, made in 1980, was funded by a grant from Hoffman LaRoche. Today the fund is self-sustaining through donations and the interest earned from all financial accounts of the Society.

ERA FUND REPORT FOR 1997 AND 1998:

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Educational Research Award RAISED TO $1,000!

Please post the enclosed flyer

The Society of Forensic Toxicologists is dedicated to continuing effective education in the field and actively supports research projects that advance the foundations of the science in academic settings. The Educational Research Award endowment (ERA) is designed to recognize students pursuing advanced degrees (Ph.D. and M.S.) with research in an area relevant to forensic toxicology.

The award, which was recently raised to $1,000 each, will be made to offset travel expenses to the SOFT Annual Meeting. Awardees may reapply. The following application materials must be received by May 1, 1999.

1) Resume of student
2) Copy of abstract to be presented at the SOFT annual meeting
3) Description of research (research proposal, supplemented with current findings)
4) Cover letter from the research advisor providing background information about the student, the proposed research, and the advisor's or institution's willingness to receive and administer funds.

The above documents must be submitted to: Barbara Manno, Ph.D., DABFT, ERA Chairman, LSU Medical Center, 1541 Kings Hwy, P O Box 33932, Shreveport, LA 71130-3932. The abstracts of the ERA applicants will be forwarded to the ERA committee for review.

LAST CHANCE TO UPDATE INFORMATION FOR THE 1999 SOFT MEMBERSHIP DIRECTORY

The 1999 SOFT Membership Directory will be included with the next issue of ToxTalk. Your contact information is taken from your SOFT dues payment form. Has your area code changed? Are you subscribing to a different e-mail service? Make sure your dues notice is submitted before April 1st and that all information is accurate.
Case Notes:  THE EFFECT OF SOLVENTS ON MEASUREMENT OF BREATH ALCOHOL CONCENTRATION (BrAC) BY THE INTOXILYZER 5000

Submitted by: Jay M. Poupko, Ph.D., Air Force Drug Testing Laboratory, Brooks AFB, Texas 78235

The Intoxilizer 5000 is used by many law enforcement agencies for evidentiary breath alcohol testing. The instrument measures infrared absorption of a breath sample in the methyl stretch region at 3.39 $\mu$m and 3.48 $\mu$m. The dual wavelength measurement is employed primarily to detect and correct for the presence of acetone, which absorbs in this infrared region. The Intoxilizer distinguishes between ethanol and acetone based upon differing 3.39 to 3.48 absorption ratios for these two substances. During the calibration procedure, the instrument electronically balances the absorption for ethanol at 3.39 and 3.48. If acetone is present (which has a different 3.39 to 3.48 absorption ratio), the instrument detects an unbalanced signal at these two wavelengths and indicates the presence of an interferent. Depending on the concentration of breath acetone, the Intoxilizer will either correct for the acetone to obtain a BrAC result or abort the breath test.

A number of chemical solvents other than acetone that absorb in this infrared region may have the potential to cause a false positive or falsely-elevated result. Several years ago a case report was published concerning a cabinet maker exposed to lacquers and paint thinners who tested greater than 0.20 on the Intoxilizer (1). Analysis of blood volatiles revealed 0.028% acetone, 11 mg/L toluene and no detectable ethanol. Since the instrument corrects for acetone, it was concluded that toluene present in the lacquers and thinners was responsible for the false-positive result.

In addition to toluene, other chemical solvents such as methanol, isopropanol, xylene, methyl ethyl ketone, ethyl ether and aliphatic hydrocarbons may have the potential to cause false positive or falsely elevated BrAC results on the Intoxilizer. There are very few published studies concerning these and other potentially-interfering substances. A rather extensive study on possible interfering substances was conducted on the Intoxilizer 4011AS-A, an early Intoxilizer model that also measures absorption at 3.39 and 3.48 (2). Of eleven substances tested in this study, three solvents, methyl ethyl ketone, toluene and isopropanol, were found to cause false positive results on this instrument. One of the authors has recently related that similar results were observed with the Intoxilizer 5000 (3). In another study using the Intoxilizer 5000, N-propanol, toluene, diethyl ether, acetaldehyde, methanol, isopropanol and gasoline were found to give false positive results when introduced directly into the instrument (4). This study also reported on a subject exposed to diethyl ether, who gave false positive BrAC results for 2.5 hours postinhalation.

From a theoretical standpoint, a chemical solvent may cause a false positive or falsely elevated BrAC result on the Intoxilizer 5000, if it possesses the following characteristics:

1. Organic, and sufficiently volatile.
2. Limited toxicity and thus present in high enough breath concentration in a conscious person.
3. Sufficient infrared absorption at 3.39 and 3.48 m.
4. A 3.39 to 3.48 m absorption ratio similar to alcohol.

There are few chemicals in use that possess the above characteristics necessary to produce a false positive BrAC. The possibility of a false positive BrAC, however, becomes more likely with exposure to a mixture of chemical solvents as found in many industrial products. This likelihood is further enhanced when an individual consumes less ethanol than the amount needed to reach the legal limit and is also exposed to chemical solvents. Thus, it has recently been demonstrated with certain combinations of ethanol and solvent, that the Intoxilizer does not detect and subtract interfering and produces an inaccurate BrAC reading (5).

In what appears to be a response to the above concerns, the manufacturer of the Intoxilizer, CMI, has recently included two new channels in its latest model; one to detect toluene and the other to detect acetaldehyde interference. The problem of other potentially interfering solvents has yet to be addressed by the manufacturer. Furthermore many law enforcement agencies are still using the old 5000's that do not have the new channels. Consequently, the possibility of inaccurate BrAC results remains an issue for evidentiary breath alcohol testing.

References

3. Personal Communication, A. Weathermon.

The opinions expressed herein are strictly those of the author and are not to be construed as reflecting the views, policies, or positions of the Department of the Air Force, the Department of Defense, or the U.S. Government.
Technical Notes: BLUTALKOHOLKONZENTRATION No. 24

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

German title: Von Pilzen und Schnapsen

A case report of a 56-yr-old man who ate Coprinus atramentarius mushrooms at lunch by mistake. The next morning he drank two swallows of tea spiked with rum and developed a flushing of the face, heart palpitations, hypertension, and nausea. To relieve these symptoms he had Gentian schnapps, but his illness became so great that he attended hospital. These symptoms disappeared after a few hours, and he was released.

Seventy-six hours later the man had a Comperi and developed the same symptoms but to a lesser degree. This type of mushroom contains Coprin (Nf[1-hydroxycyclopropyl] Glutamine) which is an acetaldehyde dehydrogenase inhibitor, similar in action to Antabuse. The author indicates that it is remarkable that there were still residual effects of Coprin 72 hours after the mushroom consumption.

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 (preferably using Microsoft Works/Word 4.0) may be mailed or faxed to:

Joseph R. Monforte, Ph.D., DABFT, ToxTalk Editor, 42408 N. Sombrero Rd., Cave Creek, AZ 85331-2821.
Or fax: 480-595-MONF (6663). The e-mail address is: DrMonforte@aol.com
Other items of interest to SOFT members are also welcome. Next deadline: May 1, 1999

ABFT NEWS

Congratulations to the following new ABFT Diplomates who were approved by the ABFT Board in February: George Jackson, Ph.D., Thomas Rosano, Ph.D., Lance Presley, Ph.D., and Bruce Goldberger.
Requalification application materials distributed to ABFT Diplomates whose current certificates expire 6/30/99. These should be completed and submitted by April 1, 1999.
For more information on ABFT activities, try their web-site at: www.abft.org

AIRPORT SHUTTLE SERVICE AVAILABLE FOR 1999 SOFT
CHECK THE HOTEL REGISTRATION FORM

JOURNAL OF ANALYTICAL TOXICOLOGY - SOFT SPECIAL ISSUE

Abstract deadline: March 8, 1999; Completed papers:March 22nd. For further information, contact:

Bruce Goldberger
University of Florida College of Medicine
2310 S.W. 13th St, Gainesville, FL 32608
Tel: 352-846-1579
Fax: 352-846-1586
E-mail: bruce-goldberger@ufl.edu

ToxTalk Volume 23, No. 1 March 1999
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. If you have a job position available, FAX (480-595-6663) or E-MAIL (DrMonforte@aol.com) to ToxTalk or mail to: Dr. Joseph Monforte, ToxTalk Editor, 42408 N. Sombrero Rd., Cave Creek, AZ 85331-2821.

Toxicologist to help create tox section being established by Tulsa Police Department Forensic Lab. Must have BS and 3 yrs forensic tox lab experience, Advanced degree and DABFT (or eligible) preferred. For application information, contact Dennis Jones at 918-596-7436 (djones@ci.tulsa.ok.us) or contact Carla Nizigia, Laboratory Director at 918-596-9128 (cnovilla@ci.tulsa.ok.us)

Chief Forensic Toxicologist to supervise forensic tox lab which provides postmortem tox, human performance testing, and drug I.D. for law enforcement agencies and county coroners. Must have PhD in toxicology, chemistry or bio-chemistry, 7 yrs relative experience, and ABFT certification. Duties include: supervise tox division, consultation to drs. and law enforcement, administrative responsibilities, testify, teach, and interact with other agencies. Salary $52,258 - $76,371. Contact Sedgwick County Regional Forensic Science Center at 316-383-4500 or email SVG2253@AOL.COM

Forensic Toxicologist to manage and direct forensic tox lab for San Francisco MEO. Requires ABFT Diplomate, minimum 3-yr full-time human forensic toxicology laboratory experiences, documented relative training and experience, and basic computer skills. Proven track record of administration in public sector preferred. Duties include analyze samples, supervise department, develop new tests and procedures, testifies, etc. $2,983 - $3,626 biweekly. For further information and application, contact Sue Keller at 415-553-1699.

Toxicologist / Laboratory Manager at Medical College of Virginia. Prefer MS or PhD Clin, Forensic Tox & FUDT. GC/MS experience a must. Contact Dr. Alphonse Poklis at apoklis@hsc.vcu.edu or call him at 804-828-0272 for details.

Forensic Toxicologist: Ph.D., ABFT or ABCC-Tox certified or eligible. Compensation = experience. Relocation package. PharmChem Labs, Menlo Park, CA. Contact Neil Fortner 800-446-5177 x217 or e-mail: neil_fortner@pharmchem.com

Don't forget to check the SOFT Web site for current career openings:
www.soft-tox.org

PROFESSIONAL CALENDAR


Future meetings:
2000 - Milwaukee, WI - Steve Wong/Sue Gock
2002 - Detroit, MI - Dan Isenschmid / Brad Hepler
2001 - New Orleans, LA - Pat Pizzo
2003 - Portland, OR - Kent Johnson


California Association of Toxicologists: May 7-8, 1999: Radisson Hotel, Culver City, CA Call Lou Jambor (818) 376-6137, Friday workshop: "LC/MS" Rob Fitzgerald rjfitzgerald@vapop.ucsd.edu; 8/99 Call Jim Boulrand, Las Vegas, NV (702) 733-7866; 11/99 (Tentative topic: "Basics of Forensic Toxicology") Call Russ Lowe and Catherine Hamm, San Diego, CA (619) 694-2909; 2/2000 Call Jeff and Susan Zehnder, Sacramento, CA (916) 366-3113; 5/2000 Call Bob Taylor and Dan Anderson, Los Angeles, CA (213) 343-0530; 8/2000 Call Bill Phillips, Sacramento, CA (916) 227-3620

The Robert F. Borkenstein Course on Alcohol, Drugs and Highway Safety: Testing, Research and Litigation. May 16-21, 1999: Indiana University, 40 hrs. for $950. Contact Darlene Lindsay Ph: 812-855-1783 E-mail: dlindsay@indiana.edu

Northwest Association of Forensic Scientists (NWAFS): May 15-19, 2000, Radisson Hotel, Sacramento, CA. Contact Lisa Cauglin, Sacramento County Laboratory of Forensic Services, 4800 Broadway Suite 200, Sacramento, CA 95820. Phone 916-874-9240 or visit the NWAFS home page at http://users.aol.com/ictox/nwafshome.htm
October 9th to 14th, 1999

For the Forensic Toxicology event of the year

Society of Forensic Toxicologists Annual Meeting

Westin Rio Mar Beach Resort - Puerto Rico

(new location)

WESTIN RIO MAR

A video shows the Westin Rio Mar Beach Resort is truly the most luxurious venue SOFT has ever chosen. It is a RESORT with an ocean front conference center, 2 golf courses, 13 tennis courts, beaches galore, spa, gambling, parasailing, scuba diving and a myriad of other sailing sports. 24-hour room service, 11 restaurants, 72 suites (if you want to upgrade), balconies with all rooms, and miles of sandy, golden beaches. For you "high rollers" there's even the 68 room Royal Beach Club. Call 1-800-4 RIO MAR for a free resort guide brochure.

The Westin has given us an extremely fair room rate. For this type of room and the surrounding luxury, you would normally expect to pay well over the $143 single/double base rate. See the room registration form for specifics and review the information carefully, including transportation to/from the airport. Note: Reservations received after September 10th may be subject to a higher rate, if any rooms are even available. The hotel only need honor this greatly reduced rate for the number of rooms blocked. So be forewarned and reserve early. And don't forget to make rental car arrangements if you are interested in touring the island.

WORKSHOPS

We'll have them! As always, SOFT workshops are designed with the beginner and veteran in mind. See the meeting registration form and workshop descriptions.

SCHEDULED EVENTS

<table>
<thead>
<tr>
<th>scientific program</th>
<th>workshops</th>
<th>poster sessions</th>
<th>Old San Juan / &quot;Puerto Rico Night Out&quot;</th>
</tr>
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<tr>
<td>poster sessions</td>
<td>President's reception</td>
<td>CAP/FUDT</td>
<td>Elmer Gordon Open Forum.</td>
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<tr>
<td>Board of Directors</td>
<td>ABFT</td>
<td>FTCB</td>
<td>NIDA/NLCP</td>
</tr>
<tr>
<td>Fun run/walk</td>
<td>El Yunque rain forest / photo marathon</td>
<td>the list goes on ....</td>
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OTHER OPPORTUNITIES:  The Westin has incredible scenic views and major beach fronts. There's gambling for those who want to try their luck. The El Yunque Rain Forest is in your back yard, as well as historic Old San Juan. Great (make that GREAT) food and plenty of Caribbean beverages. Since we are 19 miles from town, plan accordingly.

VENDORS:  The Westin has a 40K+ square foot conference center which will provide the vendors with wonderful spaces either in the area adjacent to the beach veranda or in an exhibit hall format. All continental breakfasts, breaks, lunches, and poster sessions will be held either in or adjacent to the vendor areas. Lisa O'Dell will again be coordinating vendors. She can be reached by fax at 305-561-3808 or Email NomadLee9@aol.com

SERIOUS SCIENCE IN A RELAXED ATMOSPHERE - Dress is casual. Leave the ties and jackets on the mainland. The plan is to have enough free time for more one-to-one and informal group discussions.

For additional information, please contact one of the meeting committee members listed below:

<table>
<thead>
<tr>
<th>Host</th>
<th>Flor Mattos</th>
<th>787-765-0615</th>
<th>787-759-8908</th>
<th><a href="mailto:forenses@coqui.net">forenses@coqui.net</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>Scientific Program</td>
<td>Lee Hearn</td>
<td>305-545-2450</td>
<td>305-545-2452</td>
<td><a href="mailto:leehearn@oceana.net">leehearn@oceana.net</a></td>
</tr>
<tr>
<td>Vendors</td>
<td>Lisa O'Dell</td>
<td>303-477-5976</td>
<td>303-561-3808</td>
<td><a href="mailto:NomadLee9@aol.com">NomadLee9@aol.com</a></td>
</tr>
<tr>
<td>Program Coordinator</td>
<td>Laurel Farrell</td>
<td>303-682-3679</td>
<td>303-774-7821</td>
<td><a href="mailto:farrell@oneimage.com">farrell@oneimage.com</a></td>
</tr>
<tr>
<td>Committee member</td>
<td>Robert Zettl</td>
<td>303-886-4498</td>
<td>303-795-1654</td>
<td><a href="mailto:jrzettl@ecentral.com">jrzettl@ecentral.com</a></td>
</tr>
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</table>
PRELIMINARY MEETING SCHEDULE

Saturday, October 9, 1999

3:00 p.m. – 9:00 p.m. CAP Inspectors Workshop
5:00 p.m. – 8:00 p.m. Registration Open
Pre Conference Tours Available

Sunday, October 10, 1999

8:00 a.m. – 5:00 p.m. Registration Open
8:00 a.m. – 5:30 p.m. Workshop #1 Drugs, Driving and Traffic Safety: Update
8:00 a.m. – 12:00 p.m. Workshop #2 Workplace Drug Testing: Issues in Puerto Rico
12:00 p.m. – 6:00 p.m. ABFT Board Meeting
1:30 p.m. – 5:30 p.m. Workshop #3 Pathology for Toxicologists
1:30 p.m. – 5:30 p.m. Workshop #4 Ion Trap Users Workshop
7:00 p.m. – 11:00 p.m. NLCP Inspectors Workshop

Monday, October 11, 1999

7:00 a.m. – 8:00 a.m. SOFT Fun Run/Walk
8:00 a.m. – 5:00 p.m. Registration Open
8:00 a.m. – 12:00 a.m. ABFT Examination
8:00 a.m. – 12:00 p.m. Workshop #5 Pharmacology Reviews I: Selected New Drugs
12:00 p.m. – 6:00 p.m. SOFT Board of Directors Meeting
1:30 p.m. – 5:30 p.m. Workshop #6 Investigation of Drug-Facilitated Sexual Battery
2:00 p.m. -
6:00 p.m. – 10:00 p.m. Welcoming Reception

Tuesday, October 12, 1999

8:00 a.m. – 5:00 p.m. Registration Open
8:30 a.m. – 12:00 p.m. Scientific Session
12:00 p.m. – 1:00 p.m. Luncheon
9:00 a.m. – 4:00 p.m. Exhibits Open
1:00 p.m. – 3:00 p.m. Scientific Session
5:00 p.m. – 12:00 p.m. Visit to SanJuan/Puertorrican Night
Wednesday, October 13, 1999

7:00 a.m. – 8:30 a.m. ABFT Breakfast Buffet
7:00 a.m. – 8:15 a.m. Consultant’s Discussion Group Get Together over Breakfast
8:00 a.m. – 5:00 p.m. Registration Open
8:30 a.m. – 12:00 p.m. Scientific Session
12:00 p.m. – 2:00 p.m. Luncheon
2:00 p.m. – 3:00 p.m. Vendor’s Meeting
2:00 p.m. – 5:00 p.m. Scientific Session
7:00 p.m. – 10:00 P.M. President’s Reception and Elmer Gordon Forum

Thursday, October 14, 1999

8:00 a.m. – 12:00 p.m. Registration Open
8:30 a.m. – 12:00 p.m. Scientific Session
12:00 p.m. – 1:00 p.m. Luncheon
1:00 p.m. – 3:00 p.m. Scientific Session/Closing
3:00 p.m. – 6:00 p.m. Photo-Marathon El Yunque Rain Forest

Post conference tours available
WORKSHOP PROGRAM ABSTRACTS

WORKSHOP #1  Drugs, Driving, and Traffic Safety: Update
Sunday, October 10, 1999  8:00 a.m. – 5:30 p.m.
Chip Walls, Moderator

A problem familiar to all of us in the forensic toxicology field...drug impaired driving. Solutions, methods of detection, something new and something old will be discussed. An update will be given on analytical methods currently used by toxicology labs supporting DRE programs. Methods that are suitable for detection and quantification of low concentrations of drug in small samples of blood or urine will be also discussed in detail.

How do people act under the influence of certain drugs commonly found in DUI/DWI cases? Learn the pharmacology and toxicology as they relate to human psychomotor performance. Lastly, and very integral to our job, is the role we play as forensic experts, and our interaction with the prosecution.

An experienced prosecutor will provide an overview of the key elements in a criminal DUI/DWI case, they will show the link between the lab, police and court which puts the case together. The ultimate goal is keeping the impaired driver off the road.

WORKSHOP #2  Forensic Urine Drug Testing: Issues in Puerto Rico
(To be conducted in Spanish)
Sunday, October 10, 1999  8:00 a.m. – 12:00 p.m.
Luz E. Droz, B.S., Moderator

One year after the new law enforcing workplace drug testing in public and private agencies, many issues have to be addressed. This workshop will address those issues and will help you professionals in the field to cope with the issues related to forensic urine drug testing.

WORKSHOP #3  Pathology for Toxicologists
Sunday, October 10, 1999  1:30 p.m. – 5:30 p.m.
Steven B. Karch, M.D., Moderator

This workshop is designed to provide toxicologists, particularly those who teach medical and graduate students, an overview of the anatomic changes seen in most common types of poisonings. Some drugs produce recognizable patterns of tissue injury. These changes are familiar to pathologists, but not to toxicologists. The first portion of the workshop will be devoted to the pathology of drug abuse, with special emphasis on the vascular and neuropathology of cocaine and methamphetamine. The microscopic alterations seen in myocardial infarction, coronary artery disease, myocardial fibrosis, myocarditis, cardiomyopathy and aortic dissection, and excited delirium will be reviewed.

The pathology of opiate toxicity will also be examined, with special attention to changes in the liver and lungs, and to the types of tissue injury produced by different sorts of drug adulterants. Time permitting, the
remainder of the session will be devoted to a review of common drug poisonings; the liver injuries associated with acetaminophen and aspirin poisoning (Reyes syndrome), the renal changes associated with ethylene glycol, and the lung injuries associated with paraquat and diphenhydramine will be illustrated.

**WORKSHOP #4  Ion Trap Users Workshop**  
Monday, October 10, 1999  
1:30 p.m. – 5:30 p.m.  
Dave Johnson, Moderator

This workshop will provide a practical review of internal ionization ion trap GC/MS. Presentations will detail applications of advanced ion trap technology with an emphasis on operational considerations.

Following the presentations, we will have a panel discussion to provide an open exchange of analytical ideas. This workshop will be valuable for users of ion trap GC/MS in addition to individuals interested in learning about applications of the technology.

**WORKSHOP #5  Pharmacology Reviews I: Selected New Drugs**  
Monday, October 10, 1999  
8:00 a.m. – 12:00 p.m.  
Lionel Raymon, Ph.D., Moderator

In recent years, knowledge of toxico-kinetics and dynamics has soared. With the recent advent of new drugs, often with very specific molecular mechanism of action, the forensic toxicologist is facing new challenges, not only analytical, but also interpretative. A strong knowledge of pharmacology is necessary to interpret data generated by forensic analyses.

The workshop will review the pharmacology underlying new drugs selected from forensically relevant classes. A general section on drug interactions through metabolism will review medically relevant cytochrome P450 systems, polymorphisms, induction and inhibition of this important biotransformation system and newer members of the flavin containing monoxygenases (FMO) system. Genotyping techniques will be presented.

This introduction to drug interactions will be followed by three hour long sessions covering: 1) the pharmacology of amine neurotransmitter degradative pathways, with the specific example of the new drug moclobemide, a reversible MAO inhibitor; 2) the pharmacology of GABA receptor, with an emphasis on allosteric modulation through the benzodiazepine receptors; illustration will review the new drug zolpidem; 3) the intricate pharmacology of dopamine/serotonin systems with the new atypical antipsychotic quetiapine.

**WORKSHOP #6  Investigation of Drug Facilitated Sexual Battery**  
Monday, October 11, 1999  
1:30 p.m. – 5:30 p.m.  
Laureen Marinetti-Sheff

The incapacitation of a chosen victim or victims by the use of ethanol alone or in combination with other drugs is not a new phenomenon. This idea has been used to facilitate robbery, kidnapping and more recently sexual assault.

The workshop will focus on various areas important to the detection and prosecution of drug facilitated assault. Discussion on the various drugs involved, their pharmacology, trends across the United States and Canada, laboratory analyses, proper and timely specimen collection and prosecution strategies will be covered. This workshop will appeal to those in forensic, clinical and research laboratories as well as those in law enforcement.
PRE CONFERENCE TOURS

◊ Old San Juan Historic-Half Day- 9:00 am or 12:00 noon-Guided Tour
Explore 500 years of history from the days of pirates & pieces of eight!
Experience & prowl through the battle areas of El Morro/San Cristobal Fortress.
Juan Ponce de Leon's home, & family church. Museums, shopping, fine cuisine and lots of
fun. Fort entrance fee $2.00 p/p.

◊ Bacardi Rum Distillery-Half Day Guided Tour- 9:00 am or 12:00 noon
Producers of run since 1862, and owned by the “Bacardi” family. Start your tour in an open
tram of the largest distillery in the world. Last year, over 21 million cases were sold world-
wide. In addition, view the fermentation and bottling process. Visitors are treated to exhibits
that chronicle the history, products and innovations in technology. The distillery absorbs the
largest quantity of molasses produced on the island. Peek at their family life in the museum.
Delight in the Pavilion’s free drinks.

◊ Rain Forest-Half Days Guided Tour-8:30 am or 12:00 noon
A must see! “El Yunque”...the sacred Indian mountain! 28,000 acres reserve. Learn about
Tropical forest. Hike, picníc and enjoy the cool mountain streams. Admire lush foliage
with calm surroundings.

◊ Rain Forest/Luquillo Beach Combination-Full Day 9:00 am-5:00 pm.
The “sacred Indian mountain plus the joy experiencing another of the island beaches”. Swim,
relax, or prance on 5 mile stretch of sandy beach. Become part of the action while enjoying
good Piña Coladas.

POST CONFERENCE TOURS

◊ Horseback Riding-Half Day-Hacienda Carabali- 10:30/12:30/2:30 pm
A guided 2 hr. tour through a unique natural environment, at the foothills of the Rain Forest.
Ride gentle but spirited “Paso Fino” horse through small water streams with brief stops at
designated intervals.

◊ Camuy Caverns-Full Day-Guided Tour
Millions of years old, nature adorned the cave ceilings with crystalline stalactites and flooring
in mushroom mounds of stalagmites. Few cave system in the world are as massive or as
dramatic. A unique experience. (Incl. Refreshments on board)

R. MATTOS, INSTITUTE OF FORENSIC SCIENCES
P.O. BOX 11878
SAN JUAN, PR 00922-11878
Tel. (787) 765-0615 x 401
Fax (787) 759-8908
Society of Forensic Toxicologists 1999  
October 9 – 14, 1999  
Westin Rio Mar, Puerto Rico

**NAME**  
Last __________________________  First __________________________  Degree __________________________

**Title** __________________________  Agency __________________________

**Address**  
________________________________________________________

**Telephone** __________________________  **Fax** __________________________

**E-mail** __________________________

**Guests(s)** __________________________

---

**Basic Meeting Registration**

- Includes admission to all scientific sessions, abstract book,  
  Welcoming Reception, Puertorrican Night, President’s Reception,  
  Elmer Gordon Forum, Photo Marathon - El Yunque Rain Forest,  
  Luncheons Wed - Fri, and all coffee breaks.

<table>
<thead>
<tr>
<th></th>
<th>SOFT MEMBER</th>
<th>Non-MEMBER</th>
<th>TOTAL ENCLOSED</th>
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<tbody>
<tr>
<td>Workshop #1 Drugs, Driving, and Traffic Safety: Update</td>
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| Workshop #2 Forensic Urine Drug Testing:  
  Issues in Puerto Rico (conducted in Spanish) | $50         | $70        |                |
| Workshop #3 Pathology for Toxicologists | $50         | $70        |                |
| Workshop #4 Ion Trap Users Workshop | $50         | $70        |                |
| Workshop #5 Pharmacology Reviews I:  
  Selected New Drugs | $50         | $70        |                |
| Workshop #6 Investigation of Drug Facilitated  
  Sexual Battery | $50         | $70        |                |

**Full-Time Student or Daily Registration**

- Permits attendance at Scientific Sessions only Tues/Wed/Th

  $30/day  
  $50/day

**Extra Tickets:**

- Welcoming Reception  
  $35  
- Puertorrican Night  
  $35  
- President’s Reception/Elmer Gordon  
  $35  
- Photo Marathon - El Yunque  
  $20  
- Luncheon – Tues - Wed - Thurs  
  $25

**Meeting T-Shirts (free if you register by July 1)**

- Large _____  
- X-Large _____  
- XXXLarge _____  

$15 each for extra shirts  

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<td>Photo Marathon - El Yunque</td>
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<td>Luncheon – Tues - Wed - Thurs</td>
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**Late Fee:**

- For all registrations received after Aug 15, 1999  
  $50

**No mail registration will be accepted after September 15, 1999.**

**Administration Fee:**

- If a refund is requested, a $25 fee will be deducted from the original payment.

**Methods of Payment:**

- Check – Drawn on a USA bank.  
  International Bank Checks or Money Order.  
- All funds must be paid in US dollars. Make payable to SOFT 1999.

**Credit Card:**

- Visa  
- Master Card  
- American Express  
- Discover

**Card Number** __________________________  **Expiration Date** __________________________  **Signature** __________________________

**MAIL TO:**  
SOFT 1999, P.O. Box 5543, Mesa, AZ 85211-5543  
Fed Tax ID 51-0233801
THE WESTIN RIO MAR BEACH  
Society of Forensic Toxicologists, Inc.  
Annual Conference  
October 9 - October 14, 1999  

ROOM RESERVATION FORM

PLEASE PRINT

Name:  

Company:  

Address:  

Business Phone:  

Fax Number:  

Arrival Date:  _________ (3:00 p.m. check-in)  

Airline & Flight#:  ______________  Time:  __________  

Departure Date:  _________ (12:00 p.m. check-out)  

Airline & Flight#:  ______________  Time:  __________  

I understand that I am liable for one night's room charge which will be deducted from my deposit, or billed through my credit card, in the event that I do not arrive on the date indicated or cancel my reservation at least 3 days prior to arrival.

Reservations must be received by September 10, 1999. Reservations received after this date will be subject to availability.

GUEST ROOM RATE

Rate Quoted of $143.00 per night.

# of Adults:  __________  

# of Children:  __________  

Special Requests:  

________________________  

________________________  

Flight information is needed to assure round-trip transfers to the resort. Round-trip transfers are $32.00 per person and can be charged to your room. (Transfer time is approximately 45 mins one way). To confirm your departure transfer to the airport, please stop by the Tour & Travel Desk 24 hours prior to your departure time.

Reservations will be held with a one night's deposit with the following credit cards or by enclosing a check or money order:

Visa  Master Card
American Express  Discover
Diners Club  JCB
Check/Money Order Enclosed

Card Number:  

Expiration Date:  

Name on Card:  

Card Holder Signature:  

________________________

(Rooms rates are for single or double occupancy and are subject to an 11% Puerto Rico Hotel Tax. Extra person charge is $37.00/person with a maximum of 4 people per room. Children under 18 at no additional charge. Subject to availability, the resort will honor the group rates 3 days prior to and 3 days after the official meeting dates.

A maid gratuity charge of $.25 per person per room per night will be automatically charged to your room account. A bellman gratuity charge of $3.50 per person (one time charge) will be automatically charged to your room account.

Please mail this Hotel Reservation form to:

The Westin Rio Mar Beach  
6000 Rio Mar Boulevard  
Rio Grande, PR 00745-6100  

> Or fax to: (787) 888-6320  
> Or call: (787) 888-6200  
> Toll Free: 1-800-WESTIN-1
3rd ANNUAL S.O.F.T.
TOX-'N PURGE

WHEN:
1999 S.O.F.T. Meeting
Monday, October 11, 1999
7:00 AM

WHERE:
CARIBE HILTON
San Juan, Puerto Rico

Registration Includes:
3rd ANNUAL TOX 'N PURGE T-Shirt
Prize for 1st place and random drawing
after run for other prizes

5K FUN RUN/WALK

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<td>Monday, October 11, 1999 • 7AM • Entry Fee: $10 before Sept. 1st, $15 after Sept 1st • Make checks payable to Karla Moore (TOX 'N PURGE FUN RUN/WALK) • Mail to: Karla Moore, AFIP/Forensic Tox, 1413 Research Blvd, Bldg 102, Rockville, MD 20850</td>
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Liability waiver must be signed before mailing

I know that running a road race is a potentially hazardous activity and that I should not enter and run unless I am medically able and properly trained. I agree to abide by any decision of a race official relative to my ability to safely complete the run. I assume all risks associated with running in this event including, but not limited to: falls, contact with other participants, the effects of the weather, including high heat and/or humidity, altitude, traffic and the conditions of the road, all such risks being known and appreciated by me. Having read this waiver and knowing these facts and in consideration of your accepting my entry, I for myself and anyone entitled to act on my behalf, waive and release the organizers of the S.O.F.T. TOX ‘N PURGE 5K FUN RUN/WALK and all other sponsors, their representatives and successors from all claims or liabilities of any kind arising out of my participation in this event or carelessness on the part of the persons in this waiver. Further, I grant permission to all of the foregoing to use any photographs, motion pictures, recordings, or any other record of this event for legitimate purposes.

Signature (parent or guardian if under 18) ____________________________ Date _________________
Description: The education of specialists in the field of forensic toxicology continues to be a challenge. Forensic toxicologists are scientists who engage in the analysis of body fluids and tissues for the presence of drugs and chemicals and interpret these analytical results for judicial purposes. The ever-increasing sophistication of analytical methodologies and the enhanced knowledge of underlying physiological and pharmacological factors governing our understanding of the effects of these substances promise to add information to the judicial process that was not thought possible just a few years ago.

The Society of Forensic Toxicologists is dedicated to continuing effective education in this field and actively supports research projects that advance the foundations of the science in academic settings. The award will recognize students pursuing advanced degrees whose research has progressed to the point of presentation to the members of SOFT.

Eligibility: The Educational Research Award (ERA) is designed to recognize students pursuing advanced degrees (Ph.D. and M.S.) with research in an area relevant to forensic toxicology.

Award: An award of $1,000 will be made to offset travel expenses to the SOFT Annual Meeting. Awardees may reapply.

Deadline: May 1. (Successful applicants will be announced by July 1.)

Application Materials:

1. Resume of student.
2. Copy of Abstract to be presented at Annual Meeting.
3. The abstracts of ERA awardees will be forwarded to the program committee.
4. Description of research (research proposal, supplemented with current findings).
5. Cover letter from the research advisor providing background information about the student, the proposed research, and the advisor's or institution's willingness to receive and administer funds.

Submission Address: Barbara R. Manno, Ph.D.
E.R.A. Chairman, S.O.F.T.
LSU Medical Center
1541 Kings Hwy
P.O. Box 33932
Shreveport, LA 71130-3932
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 alternative biofluids and tissues such as hair, sweat, saliva, skin, vitreous, breast milk, meconium, etc. and in papers relating drug concentrations to performance impairment, drug interactions, drug metabolism, pharmacology and pharmacokinetics. Platform presentations will be 15 min including questions. The dimensions of the poster board will be provided at a later date. Tack boards and thumb tacks will be provided. An original and three copies of the abstract must be submitted on the official abstract form. Please also submit the abstract on a computer disk. Electronic submissions must be in IBM word processing format (MS Word for Windows preferred) or ASCII format. Please label the disk with the first author’s name and the word processing program utilized. The deadline for submission of abstracts is June 1, 1999. The presenting authors of all papers will be required to register for the meeting. Only abstracts written in English will be considered.

Content of Abstract
1. Author(s) names and addresses
2. Short specific title
3. Statement of paper’s objectives
4. Statement of methods, if pertinent
5. Statement of results
6. Statement of conclusion
7. Key words (3 each)

Sample Abstract:

Title: Type Upper and Lower Case. Use Significant Words Descriptive of Subject Content

Author(s) Names and Addresses: Type Upper and Lower Case; Spell Out First and Last Names, Use Middle Initial, e.g. John B. Smith

Indent each paragraph three spaces. Type the entire abstract within the boxed area, single-spaced. Do not type in all vital letters. Capitalize and punctuate exactly as you wish the abstract to appear in the program.

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

Format of Abstract
Abstracts must be typed and submitted in a neat 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) names and addresses. Use an Asterisk (*) to identify the presenting author. Separate the author(s) names 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
All submitting authors will be notified of receipt of the abstract. Notification of acceptance of the abstract and selection of the type of presentation will be mailed or sent by fax or e-mail no later than September 1, 1999.

Specific Instructions
Complete the attached form and follow the sample provided below. Proof-read all information provided. Send the original, three additional copies and an IBM disk with the abstract to:

Mailing Address: W. Lee Hearn, Ph.D.
Dade County ME Department
Number One on Bob Hope Rd.
Miami, FL 33136-1133
U.S.A.

Phone: 305-545-2450
Fax: 305-545-2452
SOFT 1998
October 9-14, 1999
Puerto Rico

Abstract of Paper

Deadline for Submission June 1, 1999

Presenting Author, Name and Mailing Address:

Telephone: ________________________________
Fax: ________________________________
E-mail address ________________________________

Presentation Preference: ( ) Oral ( ) Poster
Affiliation: ( ) SOFT ( ) non-SOFT Member

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