



# ToxTalk

The official publication of the SOCIETY OF FORENSIC TOXICOLOGISTS, INC.

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MARCH 2002

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## REGULAR FEATURES

✂ President's Message

✂ Elmer Gordon Open Forum

✂ Career Opportunities

✂ Professional Calendar

✂ *Toxichem + Krimtech*

## NEW DRUGS

✂ Efavirenz (Singer)

## INSERTS

✂ 2002 SOFT Meeting Information

✂ JAT Call for Papers (SOFT Special Issue)

✂ ERA Announcement (please post)

## SOFT 2002 DEARBORN, MI (Detroit Area!)

Hyatt Regency, Dearborn, MI

October 13-17, 2002

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.

**DEADLINES:** Feb. 1, May 1, Aug. 1, and Nov. 1.

**NEXT DEADLINE: MAY 1, 2002**

## PRESIDENT'S MESSAGE by Laurel J. Farrell, B.A.

I appreciate this opportunity to serve as President of the Society of Forensic Toxicologists. When joining SOFT many years ago, I never imagined myself in this prestigious role. I became involved and enjoyed membership on different committees as well as serving as a director and holding various offices. Working with the current officers, directors and members to maintain SOFT as a well-respected forensic toxicology organization is a joyfully anticipated goal.

The annual meeting is the most significant activity of SOFT. It takes countless hours of preparation by a few select, very dedicated and talented people but benefits all of us. On behalf of the hundreds of SOFT members who attended our great SOFT 2001 meeting - THANK YOU Pat Pizzo, her committee and New Orleans for the very successful meeting.

Looking forward to this October, Brad Hepler, Dan Isenschmid, and Amanda Jenkins have another tremendous scientific and social program planned for October 13<sup>th</sup> to 17<sup>th</sup> at the beautiful Hyatt Regency in Dearborn, Michigan. We've all heard comments that there are too many great workshops to choose between - such a terrible problem to have! Hotel, abstract and registration information can be found in this issue of ToxTalk and on the SOFT web-site. Some important deadlines to keep in mind are: Abstracts are due June 1, 2002; Early registration deadline is August 30, 2002. If you would like to assist in any way, contact Brad, Dan or Amanda.

A most enjoyable job of the President is appointing the various Committee Chairs. These individuals provide a tremendous service to SOFT, and, therefore, YOU. My thanks to those continuing in their positions, and welcome to three new committee chairs. Rebecca Jufer is now chair of the Continuing Education Committee, a relatively new committee whose primary purpose is to provide low cost educational opportunities outside the annual meeting. This committee is in the process of developing a new course to move to multiple locations. Look for information in future issues of ToxTalk and on the web-site. Carl Selavka has agreed to chair the Ethics committee, and he has worked with Secretary Graham Jones to add an ethics statement to all SOFT membership forms. Fiona Couper has assumed the chair of the Joint SOFT/AAFS Drugs and Driving committee. This very active committee is coordinating a workshop for the upcoming SOFT meeting that will bring prominent researchers in simulator and on-the-road impaired driving research to SOFT members.

Interested in becoming an active member of SOFT and taking advantage of the many opportunities to enhance your professional life and establish a network with your colleagues? The annual meeting requires all levels of participation, from registration to presenting. Joe Monforte, our steadfast editor of **ToxTalk**, is always inviting SOFT members to participate by submitting a case note. Some committee memberships are restricted, but most are open to all who are interested. Below are the committees, their chairs and contact information for the chair. Your professional enrichment may be only a few keystrokes away - contact me or the committee chair directly. Please forward any ideas, suggestions or concerns that you have regarding SOFT to me or any other Board member or committee chair.

SEE YOU IN DEARBORN! ☺

*President Farrell encourages your comments and ideas. Contact Laurel at  
laurel.farrell@cdps.state.co.us*

## 2002 SOFT COMMITTEE CHAIRS

### **Budget, Finance and Audit**

#### **By Laws**

#### **Continuing Education**

#### **Drug Facilitated Sexual Assault**

#### **Drugs and Driving**

#### **Educational Research Award**

#### **Ethics**

#### **Forensic Toxicology Lab Guidelines**

#### **JAT Special Issue**

#### **Meeting Resource**

#### **Membership**

#### **Nominating**

#### **Policy and Procedure**

#### **SOFT Internet Web Site**

#### **ToxTalk**

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# SOCIETY OF FORENSIC TOXICOLOGISTS

## 2002 ANNUAL MEETING

DEARBORN, MICHIGAN  
OCTOBER 13-17, 2002

### PRELIMINARY INFORMATION

Plan now to attend the 2002 Annual Meeting of the Society of Forensic Toxicologists at the beautiful Hyatt Regency in Dearborn, Michigan, conveniently located between the Metropolitan Wayne County Airport and Downtown Detroit. The meeting will feature workshops on Sunday and Monday and scientific sessions Tuesday through Thursday. Many special events will be featured including a gala President's reception Wednesday evening at the Henry Ford Museum. Additional information on the meeting will be available from the SOFT website and in this issue of ToxTalk, including abstract forms and registration materials.

We look forward to seeing you in Southeast Michigan for the 2002 Fall Foliage Season!

Bradford Hepler, PhD  
Meeting Co-Host  
Bhepler@co.wayne.mi.us

Daniel Isenschmid, PhD  
Meeting Co-Host  
Disensch@co.wayne.mi.us

Amanda Jenkins, PhD  
Program Chair  
cccotox@inetmail.att.net

## SOFT TREASURER'S REPORT: January-December 2001

Submitted by Dan Isenschmid, Ph.D., SOFT Treasurer

<b>\$ 220,738.27</b>	<b>OPENING BALANCE:</b>	<b>\$ 229,382.22</b>	<b>CLOSING BALANCE</b>
105,113.44	Checking	109,733.59	Checking
25,000.00	Reserve	25,000.00	Reserve
91,624.83	ERA Fund	94,648.63	ERA Fund
<b>\$ 54,544.01</b>	<b>INCOME</b>	<b>\$ (45,900.06)</b>	<b>EXPENSES</b>
5,651.21	2000 Annual Meeting	964.91	Annual Meeting 2001
410.00	Application Fees	864.00	Fun Run/Walk
34,488.00	Dues	4,000.00	Annual Meeting 2002
451.00	Late Fees	3,490.72	AAFS Hospitality
1,241.00	ERA Fund Donations	489.14	SOFT Promotional Items
9,817.80	Interest	8,489.02	Administrative
300.00	Lab Guidelines	3,744.48	Officer Expense
1,000.00	Mail Label Leases	1,093.34	Fees (bank, credit cards)
1,000.00	New Account (transfer)	2,735.00	CPA Fees
95.00	SOFT Logo Items	170.00	Incorporation Fee
90.00	ToxTalk Subscriptions	200.00	Insurance
		1,875.16	Continuing Education
		2,335.00	ERA Fund Awards
		5,700.00	JAT Special Issue
		6,895.44	ToxTalk
		2,853.45	Web Site
<b>\$ 8,643.94</b>	<b>NET INCOME</b>		
	(income - expenses)		

Did you know . . .

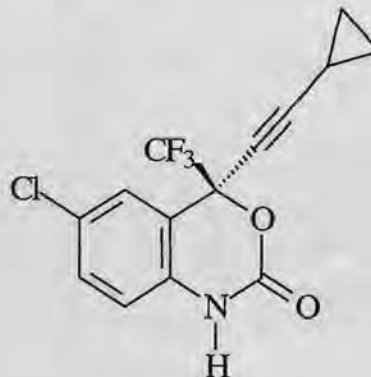
SOFT's finances are reviewed annually by the Budget, Finance and Audit Committee

# NEW DRUGS

## Efavirenz (Sustiva®)

Submitted by Dr. Peter Singer, Alberta Justice Medical Examiner, Edmonton, Canada

**Manufacturer:** DuPont Pharmaceuticals  
**Chemical Name:** (S)-6-chloro-4-(cyclopropylethynyl)-1,4-dihydro-4-(trifluoromethyl)-2H-3,1-benzoxazin-2-one  
**FDA Approval:** September 17, 1998  
**Use:** Antiviral, (reverse transcriptase inhibitor) used with other anti-HIV medication



**Molecular Formula:** C<sub>14</sub>H<sub>9</sub>ClF<sub>3</sub>NO<sub>2</sub>

**Molecular Weight:** 315.68

**Half-Life T<sub>1/2</sub>:** 52-76 h single dose, 40-55 h after 10 days of continuous use.

**PKa:** 10.2

**Dose:** Capsules of 50, 100 and 200 mg. Initial dose 600 mg once /day.

**Binding:** >99% protein bound.

**Absorption:** Peaks 3-5 hours after dose and steady-state is reached after 6-10 days. After 600 mg/day doses steady state levels are C<sub>max</sub> 4.1 ± 1.1 mg/l (12.9 ± 3.7 μM) C<sub>min</sub> 1.7 ± 1.0 mg/l (5.6 ± 3.2 μM) and AUC 58 ± 23 mg.h (184 ± 73 uM.h). Levels are dose proportional. Peak plasma concentrations are 0.5 to 2.9 mg/l (1.6 to 9.1 μM) after single doses of 100 to 1600 mg.

**Drug interactions:** Inhibits CYP2C9, CYP2C19 and inhibits (in vitro)/induces (in vivo) CYP3A4. Avoid astemizole, midazolam, triazolam, cisapride, ergot and St John's wort.

**Metabolism:** Metabolised by CYP3A4 and CYP2B6 to hydroxy metabolites with subsequent glucuronidation. Induces its own metabolism.

**Adverse effects:** Dizziness, impaired concentration, somnolence, depersonalisation, abnormal dreams, insomnia and rash. May be habit forming. There is a low incidence of very severe psychiatric symptoms including severe depression or mania, suicidal ideation, hallucinations and possible psychosis. Adverse effects may begin within a day or two of initiating therapy and often resolve within 2 to 4 weeks.

Patients should be alerted to the potential for additive central nervous system effects in combination with ethanol.

**Extraction:** Liquid-liquid chlorobutane extraction at pH 8 extracts well, (see fig. 1), however, it does not survive an acid back-extraction / clean-up step (see fig. 2). Is Insoluble in water.

**Instrumentation:** Readily detected by NPD, ECD and GC/MSD (see MS, fig. 3). Oven program 80° hold for 0.5 min to 300° at 20° / minute, hold for 3 min. HP5 column, 10 m x 0.25 mm id x 0.5 μm film thickness. Elutes at 8.07 min, (internal standards elute at: mepivacaine 7.69 min, SKF525 at 8.80 min and prazepam at 10.06 min). Not quantitated.

**Occurrence:** Readily detected in blood. Also small amounts are found in urine, co-occurring with large amounts of the hydroxy compound (see MS, fig. 4); the hydroxy metabolite(s) elute(s) in a broad peak, 0.27 minutes after the parent.

May give false positive urine cannabinoid immunoassay (CEDIA DAU) test.

Fig 1: Efavirenz TIC (pH8 extraction)

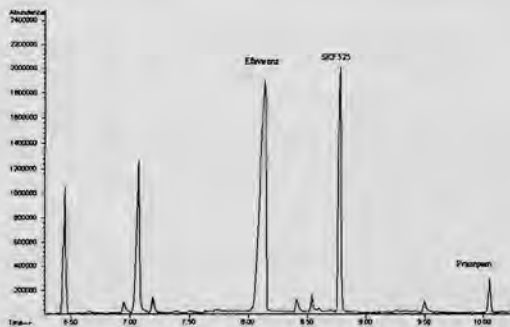


Fig2: Efavirenz TIC (acid back-extraction)

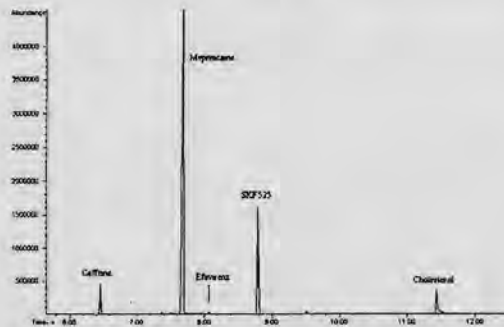


Fig 3: MS fragmentation Efavirenz  
(246, 180, 315)

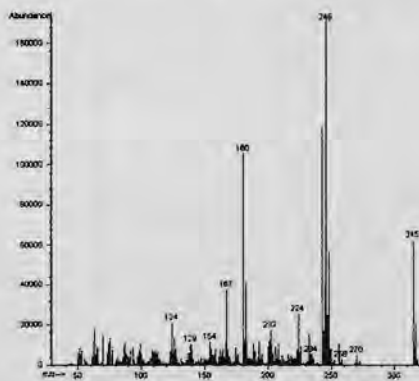


Fig 4: MS Fragmentation Hydroxy-Efavirenz  
(282, 196, 331)



## "NEW DRUGS" FEATURE

Submit information on new drugs relative to forensic toxicology to Daniel Anderson, M.S.  
L.A. County Coroner's Dept., 1104 N. Mission Road, Los Angeles, CA 90033  
E-mail: danderso@co.la.ca.us Ph: 323-343-0530

Visit the SOFT Web-site at [www.soft-tox.org](http://www.soft-tox.org)

Visit the SOFT web-site at [www.soft-tox.org](http://www.soft-tox.org) and get the latest information on items of interest to SOFT members. Web Master Bruce Goldberger welcomes comments. To gain access to SOFT's on-line membership directory and drugs and driving pages, you must type the username: drugs and password: #cocaine

SOFT has recently implemented broadcast messaging capability so that e-mail messages can be sent to all members. Please verify your e-mail address in the SOFT membership directory, and if it is incorrect, send your updated information to [info@soft-tox.org](mailto:info@soft-tox.org)

### ***Pay attention to this disclaimer***

Your official e-mail address, as listed in the 2001 SOFT directory, will be utilized for all SOFT e-mail broadcasts. E-mail addresses will not be updated or changed unless you contact the webmaster directly at [info@soft-tox.org](mailto:info@soft-tox.org)

# Toxichem + Krimtech

Submitted by Donald Kippenberger, Ph.D.

## A tragic end of a Birthday party – Fatal Intoxication with 4 MTA

By Magdalene Weise, Institute for Legal Medicine, Martin Luther University Halle Wittenberg, Franzosenweg 1, D-006097 Halle. (2001) 68 (1): 39

By 1998, England had reported 12 deaths related to a new designer amphetamine, 4-Methylthioamphetamine (4 MTA). This is the report of the first death due to this drug in Sachsen-Anhalt. A 27 year old man told three teenagers with whom he was abusing MDMA and cocaine, that he would procure for them a drug that was better than MDMA. He stated that he had consumed the MTA the week before and that it was a pleasurable experience. The following night at a birthday party the four consumed various numbers of MTA pills. The ingestion of the MTA caused the death of a 17-year-old girl. The pills, which did not contain a logo, weighed .025 to 0.3 g. The pills were found to contain about 57% MTA by weight. Serum and urine of all 4 were analyzed by taking 1 ml of sample and spiking with a 25 ul mix of internal standard (containing 250 ug D5 of Amphetamine, MDMA, MDEA, MBDB). To this 2 ml of 0.1 N NaOH was added. This solution was poured through an Extrelut NT column (Merck) and eluted with Ether. The Extract was evaporated at 30° C to dryness and derivatized with trifluoroaceticanhydride. 1 uL split injection of the resulting solution was made on HP 5890/5972 system in the SIM mode. GC conditions were 250° C injector temperature, HP5 column (30m, 0.25 mm film thickness) and helium flow rate of 1ml/min. Oven temperature started at 60° C for two minutes then ramped at 20° C/min to 250° C. MS temperature was 280° C.

### Results of Blood and urine for 4 individuals (mg/L)

Substance	17 y.o. *		16 y.o. *		18 y.o. *		27 y.o. *
# Pills ingested	3-5		3-4		1-2		10
Mass (in kg)	39.5		58		63		86
	<u>Serum</u>	<u>Urine</u>	<u>Serum</u>	<u>Urine</u>	<u>Serum</u>	<u>Urine</u>	<u>Serum</u>
4-MTA	7.4	26	1	178	0.24	33.6	1.6
MDMA	0.29	43	.085	22.9	-	0.2	-
BE 0.2	29	.08	0.4	-	0.16	-	-
EME 0.02	4.4	.02	.08	-	0.11	-	-
THC	-	-	-	-	0.003	-	-
THCA	-	-	-	-	0.034	0.035	-

This cased resulted in the conviction of the 27 year old man to 3 – 5 years in prison without the possibility of parole. ☹



## CALL FOR CASE NOTES

***We need your contribution! This need not take much time.***

Your case note should be about 1/2 page in length, no more than a full page.  
Material and/or a disk (arial font, size 10, Microsoft Word 6.0 preferred) may be submitted to:

Joseph R. Monforte, Ph.D., DABFT, ToxTalk Editor **e-mail: DrMonforte@aol.com**

42408 N. Sombrero Rd., Cave Creek, AZ 85331-2821

Or fax: 480-595-MONF (6663). PLEASE remember that Arizona is hours behind the East Coast.

*Other items of interest to SOFT members are also welcome.*

## ELMER GORDON OPEN FORUM AN OPPORTUNITY FOR INFORMAL DIALOGUE

Send items for this section to Editor Joseph Monforte: E-mail [DrMonforte@aol.com](mailto:DrMonforte@aol.com) or fax to 480-595-6663.

Mark Lewis says "Thank You" to all for your concern regarding the health of his son, 27-year-old Tim Lewis. For an update or to send further words of encouragement and best wishes to Mark and Carol Lewis: [Markblewis@aol.com](mailto:Markblewis@aol.com).

Pat Monforte's shoulder surgery was postponed to January 7<sup>th</sup>. She is now in therapy 5 times a week and is not recovering as well as she thought she would, but hopes for a full recovery. Joe and Pat thank you for your concern and good wishes.

**WANTED: "SOFT PHOTOGRAPHS and OFFICIAL PHOTO-TWEEKER"** Here's the idea - You send your great photos from SOFT meetings (maybe even a few AAfS), and they will be converted into a photo presentation for the 2002 SOFT Annual Meeting in Michigan (Elmer Gordon?). First, someone must volunteer to receive and scan the photos. Photos will be returned to you at the 2002 meeting. So start dusting off the old photographs. If we get a volunteer by May 1<sup>st</sup>, further information will be in the June issue of **ToxTalk**.

Rory Doyle, of the CA Dept of Justice, writes: "I am looking around for information on 2-C-B. Can it be analyzed with GC/MS after it has passed through the body? Will the parent drug still be identified or not? And what metabolites are evident by GC/MS? And what manipulations would need to be done to chromatograph the drug?" If you can help, contact [Rory.Doyle@doj.ca.gov](mailto:Rory.Doyle@doj.ca.gov) ☒

## 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 person who submitted it confirms the information. If you have a job position available, FAX (480-595-6663) or E-MAIL ([DrMonforte@aol.com](mailto:DrMonforte@aol.com)) to **ToxTalk** or mail to the address below.*

**ASSISTANT CHIEF TOXICOLOGIST (Toxi IV):** Ph.D., analytical, tox lab and supervisory experience desirable; to supervise and do bench work. \$72,032/yr. Contact Dr. Nancy WuChen, Chief Toxicologist, Cook Co. M.E.O., 2121 W Harrison St, Chicago, IL 60612

**CLINICAL HEALTH SCIENTIST SPECIALIST Level 14:** Ph.D. + 3 yrs experience (alcohol related, preferred); to provide tox expertise and administer statewide breath alcohol program for Mich. State Police. \$24.29 - 33.09/hr. Contact F/Lt. Eric Johnson at 517-336-6611 or [johnsoneric@michigan.gov](mailto:johnsoneric@michigan.gov)

Employment opportunities are also listed on the SOFT website. For more information, go to [www.soft-tox.org](http://www.soft-tox.org) ☒

## PROFESSIONAL CALENDAR

**SOFT MEETINGS:** 2002 - Detroit, MI - Dan Isenschmid /Brad Hepler October 13-17, 2002  
2003 - Portland, OR - Kent Johnson  
2004 - Washington, D.C. - Marc LeBeau

**R F Borkenstein Course on Alcohol, Drugs and Highway Safety: Testing, Research and Litigation:** May 12-17 2002. Contact [dlindsay@indiana.edu](mailto:dlindsay@indiana.edu)

**TIAFT 40<sup>th</sup> international Meeting.** August 26-30, 2002, Paris, France. For more information, go to [www.tiaft.org](http://www.tiaft.org)

**International Association Of Forensic Sciences:** September 2-7, 2002, Montpellier, France. Information by e-mail: [algcsi@mnet.fr](mailto:algcsi@mnet.fr)

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All members and others are encouraged to contribute to **ToxTalk**. Please mail your contribution to:  
**Joseph R. Monforte, Ph.D., DABFT, ToxTalk Editor**

E-mail: [DrMonforte@aol.com](mailto:DrMonforte@aol.com) or Fax: 480-595-6663 (*after 11 a.m. E.S.T. please*)  
Or mail to: 42408 N. Sombrero Rd, Cave Creek, AZ 85331-2821

2-26-02 Pat

From: Joseph R. Monforte, Ph.D., DABFT  
**ToxTalk** Editor

c/o SOCIETY OF FORENSIC TOXICOLOGISTS  
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USA

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please deliver promptly*

**IMPORTANT DEADLINES:**

March 15: SOFT/JAT Abstracts  
May 1: ERA applications  
June 1: Abstracts (meeting)

August 30: Registration without penalty  
September 13: Final Registration (with penalty)  
September 13: Hotel Reservation discount

From: SOFT, P.O. Box 5543, Mesa, AZ 85211-5543  
SOFT,  
Society of Forensic Toxicologists  
P.O. Box 5543  
Mesa, AZ 85211-5543 USA





**SOCIETY OF FORENSIC  
TOXICOLOGISTS**

**2002 ANNUAL MEETING**

**HYATT REGENCY  
DEARBORN, MICHIGAN**

**OCTOBER 13-17, 2002**

**PRELIMINARY PROGRAM  
CALL FOR ABSTRACTS  
REGISTRATION FORM**



SOCIETY OF FORENSIC TOXICOLOGISTS  
2002 ANNUAL MEETING  
HYATT REGENCY - DEARBORN, MI  
OCTOBER 13-17, 2002

**WELCOME!**

We look forward to seeing you at the 2002 Annual Meeting of the Society of Forensic Toxicologists at the newly renovated Hyatt Regency in Dearborn, Michigan conveniently located between the Metropolitan Wayne County Airport and Downtown Detroit. The meeting will feature workshops on Sunday and Monday and scientific sessions Tuesday through Thursday. As you will notice in the preliminary program, the meeting will be virtually all-inclusive. Continental breakfast will be available daily, and lunches will be provided on Tuesday through Thursday. In addition there will be a welcoming reception and a reception with the exhibitors. Finally there will be a gala President's reception Wednesday evening at the remarkable Henry Ford Museum featuring genuine Motown entertainment!

**Weather**

You will need your camera, as you will be visiting the Detroit area at or near peak fall foliage. The weather in October is pleasant with mild days around 60°F and cool, crisp evenings around 40°F.

**Hotel Accommodations**

Reservations (\$120 single/double + tax) may be made on-line through the link on the SOFT web-site [www.soft-tox.org](http://www.soft-tox.org). Select your desired arrival and departure dates and type G-SOFT in the Group / Corporate space to obtain the group rate on-line. You may also call the hotel directly at 1-313-593-1234. To obtain the group rate, you must tell the reservations agent that you are with the Society of Forensic Toxicologists. The deadline for the special SOFT rate is Friday, September 13, 2002.



[www.soft-tox.org](http://www.soft-tox.org) Select your desired arrival and departure dates and type G-SOFT in the Group /

Corporate space to obtain the group rate on-line. You may also call the hotel directly at 1-313-593-1234. To obtain the group rate, you must tell the reservations agent that you are with the Society of Forensic Toxicologists. The deadline for the special SOFT rate is Friday, September 13, 2002.

**Airport**

You will be flying into Detroit Metropolitan Wayne County Airport (DTW). There is no hotel shuttle from the airport, but there is a wide variety of ground transportation available including shuttle vans, taxis and limousines. There are Ground Transportation booths available to assist you in the baggage claim areas. You can obtain most of the airport information you will need at [www.metroairport.com](http://www.metroairport.com) If you arrive on Northwest Airlines you will be arriving in the spectacular new \$1.2 billion Edward H. McNamara Terminal (opening February 24, 2002). For Northwest Airlines reservations and information about the new airport visit Northwest Airlines on the web at [www.nwa.com](http://www.nwa.com)

**Things to Do**

There is much to see and do in the metropolitan Detroit area. For additional information visit [www.visitdetroit.com](http://www.visitdetroit.com) Although a rental car is not necessary at the meeting, a rental car is recommended if you plan to do extensive sightseeing. A car rental desk is available in the Hyatt Hotel Lobby. Hotel parking is complimentary. A concierge is also available at the hotel to assist you in making local arrangements. There are several restaurants and a large shopping mall within walking distance of the hotel. You may preview the shopping mall at [www.shopfairlane.com](http://www.shopfairlane.com) If your schedule allows your visit to extend beyond the metro area information may be found at [www.michigan.org](http://www.michigan.org) Finally, don't forget to look at the web-site of the Henry Ford Museum where our President's reception will be held by clicking the following link [www.hmgv.org](http://www.hmgv.org)

**WE LOOK FORWARD TO SEEING YOU IN WAYNE COUNTY, MICHIGAN!**



Edward H. McNamara  
County Executive

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Daniel Isenschmid, Ph.D.  
Meeting Co-Host  
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216-721-5610



**SOFT 2002**  
**OCTOBER 13-17, 2002**  
**HYATT REGENCY – DEARBORN, MICHIGAN**



**WORKSHOP PROGRAM ABSTRACTS**

**Workshop # 1 – Sunday, October 13, 2002**

**8:00 a.m. – 6:00 p.m.**

**DUID - From Research to the Courts**

**Co-Chairs: Laurel Farrell, B.A., J. Robert Zettl, B.S., M.P.A**

This full day workshop will focus on two aspects of DUID cases. Opening remarks, provided by NHTSA, will outline their involvement in DUID programs and research.

The first area of focus will be driving research studies. We will look at both driving simulator and on-the-road research studies. Two researchers will present the components of driving, how their protocols measure performance and if these performance measures are adequate to determine drug impairment. Both will present an overview and summary of results for all studies completed at their facilities and then they will each take one study and go through it in detail. Lastly, they will provide information on future projects.

The second area of focus will be successful prosecution of a DUID case. A prosecutor will review the current DUID statutes, United States and other countries, and pertinent case law in the area of DUID. "What do prosecutors really need to know to successfully prosecute a DUID?" This will be delineated with information provided on formal training available to prosecutors, how toxicologists can get more involved in this training in their states, and how to best provide the informal training many of us do for prosecutors in each case we are involved in. We will also have a representative from the National Judicial College to provide information on the training available to judges.

**Workshop # 2 – Sunday, October 13, 2002**

**8:00 a.m. – 12 Noon**

**Pharmacogenomics as an Adjunct for Certifying Drug Toxicity in Forensic Toxicology**

**Chair: Steven Wong, Ph.D.**

Pharmacogenomics is an emerging clinical discipline that attempts to correlate drug dose and response to the genomics of the drug metabolizing enzyme and receptors of individual patients. In forensic toxicology genotyping drug metabolizing enzymes may serve as a useful adjunct for assessing drug toxicity. This introductory workshop will establish the basis of molecular biology, and introduce the principles of pharmacogenetics. This information will serve as the basis for assessing the usefulness of pharmacogenomics in deaths involving drugs utilized in psychiatry, addiction, and pain management.

**Workshop # 3 – Sunday, October 13, 2002**

**1:30 p.m. – 5:30 p.m.**

**Forensic Toxicological Aspects of Human Growth and Development**

**Chair: Michael Corbett, Ph.D.**

This workshop will discuss the impact of age with respect to forensic toxicology. Infants, young children and the elderly vary in pharmacokinetic parameters compared with most adults. Differences in external environments of these individuals such as access to drugs also impact the likelihood of drug detection. Pharmacological and external factors affecting drug detection during growth and development will be delineated.

**Workshop # 4 – Sunday, October 13, 2002**

**1:30 p.m. – 5:30 p.m.**

**Solid Phase Extraction: Scientific Theory and Applications in Forensic Toxicology**

**Chair: Michael Telepchak, B.S., M.B.A.**

This workshop will discuss the history and development of SPE with emphasis on basic silane chemistry and the manufacturing of bonded silicas. The effects of pH, polarity, and solubility on extraction performance will be delineated. Troubleshooting and extraction optimization will be followed by SPE applications with respect to mass spectrometric analysis of opiates, amphetamines and newer drugs such as GHB.

**Workshop # 5 – Monday, October 14, 2002**

**8:00 a.m. – 6:00 p.m.**

**Club Drugs and Drug Facilitated Sexual Assault**

**Co-Chairs: Sarah Kerrigan, Ph.D., Laureen Marinetti, M.S., Adam Negrusz, Ph.D.**

This workshop will discuss the pharmacology, toxicology and analysis of substances commonly encountered as either club drugs or in cases of DFSA. These drugs include GHB, MDMA, Ketamine, LSD, flunitrazepam, methamphetamine and ethanol. The history of raves and the club culture will be explored as well as new psychoactive herbs and supplements that are emerging as legal alternatives to conventional club drugs.

**Workshop # 6 – Monday, October 14, 2002**

**8:00 a.m. – 12 Noon**

**Pharmacology and Toxicology of Brain Drugs**

**Co-Chairs: Randall Commissaris, Ph.D., Laureen Marinetti, M.S.**

Researchers from Wayne State University in Detroit will present this workshop. The workshop will include an introduction to the principles of drug action and discuss concepts of receptor theory, dose response curves, drug efficacy and potency issues especially as they apply to the newer partial agonist type drugs (e.g., buprenorphine [Buprenex]), and concentration versus effect relationships. An overview of neuropharmacology and an introduction to several new psychotherapeutic agents, focusing primarily on the monoamine neurons dopamine, norepinephrine and serotonin will follow. The last three presentations will focus on current drugs of abuse including Ecstasy and GHB.

**Workshop # 7 – Monday, October 14, 2002**

**8:00 a.m. – 12 Noon**

**Applications using MS/MS: Ion Traps or Triple Quads - How to Decide**

**Chair: Cheryl Ehorn, B.S.**

This workshop will focus on comparing ion trap instruments with the bench top triple quadrupole instrument. A brief perspective on the evolution of the ion traps and the triple quads will feature new capabilities including small size, high sensitivity, versatility and efficient MS/MS (as well as MS<sup>n</sup> on the ion trap). Key analytical issues to be addressed are ease of use, sensitivity, linear dynamic range, and quantitation (including the use of co-eluting internal standards). Applications to be discussed using the techniques of MS/MS include drugs in urine, blood, hair and alternate matrices.

**Workshop # 8 – Monday, October 14, 2002**

**1:30 p.m. – 5:30 p.m.**

**Medicolegal Death Investigation**

**Chair: Carl Schmidt, M.D.**

The investigation of sudden and unexpected death as practiced by the Forensic Pathologist forms the basis for this workshop. How traumatic and pathological changes seen at autopsy relate to the proper and complete understanding of cause and manner of death will be discussed in light of case history, scene investigation, and toxicology findings. Examples of how the balance between pathological and toxicological causes of death is weighed are highlighted as a central theme of this workshop.



**SOFT 2002**  
**OCTOBER 13-17, 2002**  
**HYATT REGENCY – DEARBORN, MICHIGAN**



**PRELIMINARY PROGRAM**

**Saturday, October 12, 2002 (Pre-Meeting Events)**

8:00 a.m. – 1:00 p.m. NLCP Inspector Training  
2:00 p.m. – 7:00 p.m. CAP Inspector Training  
3:00 p.m. – 9:00 p.m. Registration

**Sunday, October 13, 2002**

7:00 a.m. – 8:00 a.m. Continental Breakfast  
7:30 a.m. – 5:00 p.m. Registration  
9:00 a.m. – 12 Noon ABFT Examination  
8:00 a.m. – 6:00 p.m. #1: DUID – Research to the Courts  
8:00 a.m. – 12 Noon #2: Pharmacogenomics as an Adjunct for Certifying Drug Toxicity  
12 noon – 6:00 p.m. ABFT Board Meeting  
1:30 p.m. – 5:30 p.m. #3: Forensic Toxicological Aspects of Human Growth & Development  
1:30 p.m. – 5:30 p.m. #4: SPE: Scientific Theory and Application in Forensic Toxicology  
7:00 p.m. – 10:00 p.m. NLCP/DOT Lab Directors Workshop

**Monday, October 14, 2002**

7:00 a.m. – 8:00 a.m. Continental Breakfast  
7:30 a.m. – 5:00 p.m. Registration  
8:00 a.m. – 4:00 p.m. Exhibit Set Up  
8:00 a.m. – 6:00 p.m. #5: Club Drugs and Drug Facilitated Sexual Assault  
8:00 a.m. – 12 Noon #6: Pharmacology, Toxicology of Drugs and the Brain  
8:00 a.m. – 12 Noon #7: Tandem MS/MS – Ion Traps or Triple Quads: How to Decide  
12 noon – 6:00 p.m. SOFT Board Meeting  
1:30 p.m. – 5:30 p.m. #8: Medicolegal Death Investigation  
7:00 p.m. – 9:00 p.m. Welcoming Reception Featuring Microbrews / Snacks

**IMPORTANT DEADLINES**

ABSTRACT SUBMISSION DEADLINE – JUNE 1, 2002  
EARLY REGISTRATION DEADLINE – FRIDAY, AUGUST 30, 2002 (POSTMARK OR FAX)  
LAST DATE FOR PARTIAL REFUND – FRIDAY, AUGUST 30, 2002  
LATE REGISTRATION DEADLINE BY MAIL – FRIDAY, SEPTEMBER 13, 2002 (POSTMARK)  
HOTEL RESERVATION CUT-OFF DATE – FRIDAY, SEPTEMBER 13, 2002  
POWERPOINT SUBMISSION CUT-OFF DATE – FRIDAY, SEPTEMBER 13, 2002  
LATE REGISTRATION DEADLINE BY FAX – TUESDAY, OCTOBER 1, 2002

## **Tuesday, October 15, 2002**

7:00 a.m. – 8:30 a.m. Bob Bost Consultants Breakfast  
7:30 a.m. – 8:30 a.m. Continental Breakfast  
7:30 a.m. – 5:00 p.m. Registration  
8:30 a.m. – 10:00 a.m. General Session 1  
9:00 a.m. – 4:00 p.m. Exhibits Open  
10:00 a.m. – 10:30 a.m. Break  
10:30 a.m. – 12 Noon General Session 2  
12 Noon – 2:00 p.m. Lunch, Visit Vendors and Posters  
9:00 a.m. – 4:00 p.m. Poster Session 1 Open  
1:00 p.m. – 2:00 p.m. Poster Session 1 Presenters  
2:00 p.m. – 3:30 p.m. General Session 3  
3:30 p.m. – 4:00 p.m. Break  
4:00 p.m. – 5:30 p.m. General Session 4  
6:00 p.m. – 8:00 p.m. Exhibits Open - Happy Hour with Exhibitors  
8:00 p.m. – 11:00 p.m. Elmer Gordon Dessert Session

## **Wednesday, October 16, 2002**

7:15 a.m. – 8:30 a.m. ABFT Breakfast  
7:30 a.m. – 8:30 a.m. Continental Breakfast  
7:30 a.m. – 5:00 p.m. Registration  
8:30 a.m. – 10:00 a.m. General Session 5  
9:00 a.m. – 4:00 p.m. Exhibits Open  
10:00 a.m. – 10:30 a.m. Break  
10:30 a.m. – 12 Noon General Session 6  
12 Noon – 2:00 p.m. Lunch, Visit Vendors and Posters  
9:00 a.m. – 5:00 p.m. Poster Session 2 Open  
1:00 p.m. – 2:00 p.m. Poster Session 2 Presenters  
2:00 p.m. – 3:30 p.m. General Session 7  
3:30 p.m. – 4:00 p.m. Break  
4:00 p.m. – 5:30 p.m. SOFT Business Meeting  
7:00 p.m. – Midnight President's Reception at Henry Ford Museum

## **Thursday, October 17, 2002**

7:30 a.m. – 8:30 a.m. Continental Breakfast  
7:30 a.m. – 12 Noon Registration  
8:30 a.m. – 10:00 a.m. General Session 8  
10:00 a.m. – 10:30 a.m. Break  
10:30 a.m. – 12 Noon General Session 9  
12 Noon – 2:00 p.m. Lunch  
2:00 p.m. – 4:00 p.m. Special Session: Sherlock Holmes Workshop  
"The Adventure of the Devil's Foot"  
Moderator: Marina Stajic, Ph.D.  
Panelists: Nick Hodnett, Ph.D., Al Poklis, Ph.D., Michael Rieders, Ph.D.  
Vina Spiehler, Ph.D.



**SOFT 2002 ANNUAL MEETING  
HYATT REGENCY - DEARBORN, MI  
OCTOBER 13-17, 2002**



Name \_\_\_\_\_ Degree \_\_\_\_\_  
 Last First  
 Name to appear on badge \_\_\_\_\_  
 Title \_\_\_\_\_ Agency \_\_\_\_\_  
 Address \_\_\_\_\_  
 E-mail \_\_\_\_\_  
 Telephone \_\_\_\_\_ Fax \_\_\_\_\_  
 Accompanying Person(s) \_\_\_\_\_

	Member	Non-Member	Qty.	TOTAL
FULL MEETING REGISTRATION (Late Fee Applies after 8/30/02) Includes: Admission to scientific sessions, Abstract Book, Shirt, Coffee Breaks, Continental Breakfasts, Welcoming Reception, Luncheons, Tuesday Happy Hour, Elmer Gordon Forum, and President's Reception	\$195.00	\$275.00	___	\$ _____ Shirt Size S M L XL XXL
ACCOMPANYING PERSON REGISTRATION (Available only with full meeting registration). Includes: All the above except Abstract Book and Shirt.	\$150.00	\$225.00	___	\$ _____
FULL-TIME STUDENT (Proof of full-time status required)	\$95.00	\$95.00	___	\$ _____
LATE-FEE (Applies after August 30 to EACH of above registrations) After October 1 - only On-Site Registration is available	\$100.00	\$100.00	___	\$ _____
PRESIDENT'S RECEPTION (Additional tickets for non-registrants available prior to October 1 only)	\$75.00	\$95.00	___	\$ _____
ON-SITE REGISTRATION (President's Reception and shirt NOT included)	\$295.00	\$375.00	___	\$ _____
Workshop # 1 - DUID - From Research to the Courts	\$120.00	\$150.00	___	\$ _____
Workshop # 2 - Pharmacogenomics	\$60.00	\$75.00	___	\$ _____
Workshop # 3 - Aspects of Human Growth and Development	\$60.00	\$75.00	___	\$ _____
Workshop # 4 - SPE Scientific Theory and Applications	\$60.00	\$75.00	___	\$ _____
Workshop # 5 - Club Drugs & Drug-Facilitated Sexual Assault	\$120.00	\$150.00	___	\$ _____
Workshop # 6 - Pharmacology and Toxicology of Brain Drugs	\$60.00	\$75.00	___	\$ _____
Workshop # 7 - MS/MS: Ion Traps or Triple Quads - How to Decide	\$60.00	\$75.00	___	\$ _____
Workshop # 8 - Medicolegal Death Investigation	\$60.00	\$75.00	___	\$ _____
ABFT Breakfast	\$25.00	\$25.00	___	\$ _____

**ID BADGE WILL BE REQUIRED FOR ALL FUNCTIONS.  
TICKET REQUIRED FOR PRESIDENT'S RECEPTION.** **TOTAL** \$ \_\_\_\_\_

LATE FEE applies after Friday, August 30, 2002. No mail registrations after September 13; Deadline for late registration by fax is October 1, 2002. Payment may be made by checks drawn on a US bank or International Bank Checks or Money Order in US dollars. All payments should be made out to SOFT-2002.

Credit Card Payments: Type of Card (circle one):    MASTERCARD                    VISA                    AMERICAN EXPRESS  
 Card Number: \_\_\_\_\_ Expiration Date: \_\_\_\_\_  
 Authorized Signature: \_\_\_\_\_ Date: \_\_\_\_\_

By signing I agree to be charged the amount indicated in TOTAL and agree to the refund policy below.

**IMPORTANT - Refund policy**

Refunds will be honored upon written request prior to 08/30/02 minus a \$75 fee. **There will be NO refunds after 08/30/02.**

**MAIL TO:** SOFT 2002 c/o Bradford Hepler, Wayne County MEO, 1300 East Warren Ave., Detroit, Michigan, 48207  
**FAX TO:** Bradford Hepler, 313-833-2534



# CALL FOR PAPERS

## SOFT/JAT SPECIAL ISSUE

The 22nd annual October special issue of the *Journal of Analytical Toxicology* will be published in collaboration with the Society of Forensic Toxicologists (SOFT). The guest editor for this issue is Rod McCutcheon.

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

Rod McCutcheon

Travis County Medical Examiner

via mail: P.O. Box 1748 • Austin, Texas 78767

or

via courier: 1213 Sabine Street • Austin, Texas 78701

Telephone: (512) 473-9861 • Fax: (512) 473-9044

E-mail: [rod.mccutcheon@co.travis.tx.us](mailto:rod.mccutcheon@co.travis.tx.us)

**Deadlines for submission:**  
**March 15, 2002, for Abstracts**  
**March 29, 2002, for Completed papers**

Complimentary copies of this issue will be distributed during the 2002 SOFT meeting (October 13–17, Detroit, Michigan).

For prompt consideration, submissions should follow *Journal* format. For a copy of the *Journal's* Guide for Authors, contact the editorial office at (847) 647-2900 ext. 302 or see our webpage at [www.jatox.com](http://www.jatox.com).



# **Society of Forensic Toxicologists**

## **EDUCATIONAL RESEARCH AWARDS (ERA)**

**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 enrolled in advanced degree programs (Ph.D., M.S., M.D., and/or Post-Doctoral Fellowships) 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:**

**SEE THE SOFT WEBSITE FOR INSTRUCTIONS AND FORMS**  
[www.soft-tox.org](http://www.soft-tox.org)

**Submission Address:**

**Barbara R. Manno, Ph.D., DABFT**  
**S.O.F.T., E.R.A. Chairman**  
**Department of Psychiatry**  
**LSU Medical Health Sciences Center**  
**1501 Kings Hwy**  
**P.O. Box 33932**  
**Shreveport, LA 71130-3932**



SOFT 2002  
OCTOBER 13-17, 2002  
DEARBORN, MICHIGAN



**CALL FOR PAPERS AND ABSTRACT SUBMISSION**

**General Information**

The Program Committee solicits abstracts on all forensic toxicology topics including postmortem toxicology, forensic urine drug testing, analytical toxicology of drugs, pharmacology as related to forensic toxicology, pathology as related to forensic toxicology, pediatric and geriatric case reports, and the relationship between drug concentrations and performance impairment. Scientific papers selected for presentation will be divided into two groups: 15-minute platform presentations and poster presentations. The Program Committee will select appropriate abstracts from those **submitted by the June 1, 2002, deadline**. The presenting authors of all papers will be required to register for the meeting. Only abstracts written in English will be considered. The format for the preparation of the abstracts is provided on the submission form.

**Platform (Oral) Presentations**

ONLY 35-mm slides or LCD (PowerPoint) presentations will be accepted. Each presenter will be provided with 10 minutes to present their material and 5 minutes to answer questions. Platform presentations must cover the material reported in the abstract. Regardless whether 35 mm slides or LCD projection are used, information on the slides must be kept simple with plenty of open spaces between lines. Limit information on each slide to seven lines or less. Do not crowd the slide. Avoid backing up in slide lectures. If you need a slide twice, make duplicate slides. White on black, white on blue, blue on yellow or yellow on blue project best. Avoid red and blue or other non-contrasting color combinations. If using 35mm slides, it is highly recommended that you provide your own carousel.

**LCD Projector – Policies and Procedures**

A LCD projector will be available for use at this meeting. Any LCD format platform presentation **MUST** be submitted in advance (Deadline September 13, 2002) on 3.5-inch disk or by E-mail in Microsoft PowerPoint (IBM format only) to the Program Chair (contact information on abstract submission form). There will be **NO** exception to these requirements. All presentations will be pre-loaded and tested on a computer (and backup computer) provided by SOFT. You may bring your own laptop as an additional backup, however in order to improve flow between presentations this will only be used in the event of

unexpected technical problems. Slide projectors will be available for presenters who do not meet this deadline, or format requirement.

**Poster Presentations**

Each author selected for poster presentation will be provided with a 4' x 8' tack board on which to display material related to his or her presentation. Presenters must bring their own tacks. Authors have complete freedom to choose ways of displaying their information in figures, tables, text, photographs, etc; however, they should avoid crowding too much information into a limited space. The poster should be readable from a distance of 3 feet. Posters will be kept up for the entire day they are scheduled. Please be sure your poster is mounted by 8 a.m. and leave it mounted until 5 p.m. It will only be necessary for the author to be present at the poster for the one-hour noted in the program.

**Abstract Submission** - Abstracts may be submitted in one of two ways:

1. Electronically by e-mail – Be sure to provide all the information required on the back of this form in the body of your e-mail text. Be sure to type **ONE** of the disclosure statements in your-email. By submission of your abstract electronically, no signature is required for the disclosure. The abstract itself is to be provided as an attachment in Microsoft Word **ONLY** using the format described on the back of this form.
2. By mail – Complete the back of this form. The abstract itself **MUST** be provided on diskette in Microsoft Word **ONLY**. Please label the diskette with the presenting author's name. Include four (4) hard copies of the abstract.

**Disclosure Information (Please Read Carefully)**

In order for AACC ACCENT credits to be provided for attendees to the SOFT 2002 Annual Meeting by the TDM/Toxicology Division of AACC each speaker must provide disclosure of potential bias or conflict of interest. This information is provided to any attendee who requests information concerning possible bias, conflict of interest or commercialism of any presentation. Please complete the information as it applies to you on the submission form.

**ABSTRACT SUBMISSION DEADLINE IS JUNE 1, 2002**



**SOFT 2002**  
**ABSTRACT SUBMISSION FORM**  
**DEADLINE – JUNE 1, 2002**



**Information to be provided with the Abstract**

Please complete the following information (or provide it electronically, if submitting your abstract by e-mail):

Presenting Author Name \_\_\_\_\_  
 Mailing Address \_\_\_\_\_  
 Telephone Number \_\_\_\_\_  
 Fax Number \_\_\_\_\_  
 E-mail \_\_\_\_\_  
 Co-author(s) Name(s) and Address(es) \_\_\_\_\_

Attach additional pages if necessary

Has this paper been presented before? Yes \_\_\_ No \_\_\_  
 If yes, where and when? \_\_\_\_\_  
 Select your presentation preference:  
 Platform \_\_\_ 35-mm ( ) Powerpoint ( ) Poster \_\_\_\_\_

**Format of the Abstract**

Type the title in upper and lower case letters. Separate the title from the authors by single blank line. Type the name(s) of the authors and, followed by the address(es) (affiliation, city, state, country) of the authors. For multiple addresses use a numerical superscript after the name. Use an asterisk (\*) to identify the presenting author. Separate the author's names from the body of the abstract by a single blank line. Identify three key words at the bottom of the abstract. See example below:

The Analysis of Oobleck from Precipitation Collected in the World of Dr. Seuss

Cindy Lou Who\*<sup>1</sup>, Yertle Turtle<sup>2</sup>, and Bartholomew Cubbins<sup>2</sup>.  
<sup>1</sup>Whoville University, Whoville, MI, U.S.A.; <sup>2</sup>Mulberry Street Consulting Group, Prairie of Prax, MN, U.S.A.

Indent each paragraph three spaces. Type the entire abstract single-spaced. Do not type in all capital letters. Capitalize and punctuate exactly as you wish the abstract to appear in the program. Do not double space after a period. The abstract should be limited to one 8 1/2 x 11-inch page using Times New Roman font, size 12.

The abstract must contain the following information: (1) author(s) name(s) and affiliation, city, state, country; (2) short specific title; (3) statement of paper's objective; (4) statement of methods, if relevant; (5) statement of results; (6) statement of conclusion; (7) key words (three).

Key Words: Oobleck, Seuss, Precipitation

**AACC Policy on Disclosure of Potential Bias or Conflict of Interest**

AACC requires that all speakers in accredited Continuing Education Activities to disclose any possible bias or conflict of interest regarding the topic that is being presented. A conflict of interest is defined as any financial interest of the speaker in a company's products or services discussed in the presentation. For example, if the speaker (1) holds stock in the company, (2) is paid salary or consultant fees by the company, (3) has grant support from the company and/or (4) has received support for travel expenses, honoraria, etc. from the company, a conflict of interest exists regarding this topic and must be reported. If the speaker has a financial interest in a company *but is not discussing a product or service of that company, no conflict of interest must be disclosed.*

**Please place an X next to ONE of the DISCLOSURE STATEMENTS indicated below:**

\_\_\_\_\_ I have read the above statements and I declare that neither I nor any member of my immediate family has a financial interest in a company as defined in the AACC policies on conflict of interest.

\_\_\_\_\_ I have read the above statements and I declare that I have (or a member of my immediate family has) a financial interest in a company as defined in the AACC policies on conflict of interest. Please indicate the nature of the conflict of interest (Grant/Research Support \_\_\_; Salary/Consultant \_\_\_; Stocks/Bonds \_\_\_; Honoraria/Expenses \_\_\_) and the Source (Company) providing financial support \_\_\_\_\_

Signature \_\_\_\_\_  
 Date: \_\_\_\_\_

By submission of this abstract by e-mail no signature is required for the disclosure. You must, however, type the applicable disclosure statement in your e-mail text.

**Submission Address:**

Amanda Jenkins, PhD, SOFT 2002 Program Chair  
 c/o Cuyahoga County Coroner's Office  
 Toxicology Laboratory  
 11001 Cedar Road  
 Cleveland, OH 44106

Phone (216) 721-5610 Fax (216) 707-3174  
 E-mail: [cccotox@inetmail.att.net](mailto:cccotox@inetmail.att.net)

**NOTIFICATION:** You will be notified of receipt of your abstract within two weeks of submission. If you do not receive notification in this time frame, please contact the Program Chair to make sure your abstract was received. Correspondence from the Program Chair will be with the presenting author only. Notification of acceptance will be made by July 31, 2002.