



**Society of Forensic Toxicologists, Inc.**

# ToxTalk

**VOLUME 18, No. 4**

**DECEMBER 1994**

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## **TIAFT/SOFT 1994**

### **SOFT Hosts:**

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

## **NEW S.O.F.T. CONTACT INFORMATION:**

① VOICE MAIL & FAX	602-839-9106
✉ MAILING ADDRESS	P.O. Box 5543 Mesa, AZ 85211-5543

Please use the above phone number and mailing address when contacting the Society of Forensic Toxicologists. The Michigan Administrative Office no longer exists.

## **New ToxTalk mailing address:**

Joseph R. Monforte, Ph.D., DABFT, ToxTalk Editor  
846 Smoki Dr. (HP), Prescott, Az 86301  
Phone/Fax: 602-717-0617 (after 11 a.m. E.S.T.)

## **IN THIS ISSUE**

**REGULAR FEATURES:** Career Opportunities & Professional Calendar & Treasury Notes & Blutalkoholkonzentration & President's Message & Communique

**TECHNICAL NOTES:** Ergonomics (Farrell)  
**CASE NOTE:** Testing Human Hair for Pesticides in a Case of Occupational Exposure (Kintz)

**ITEMS OF INTEREST:** Elmer Gordon: Tox Alert! (Middleberg)

**INSERTS:\*** 1995 SOFT Dues Notice & Health & Safety Questionnaire  
1994 TIAFT/SOFT Meeting Abstracts  
JAT - SOFT Special Issue Call for Papers

\*If available at time of mailing

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

All members and others are encouraged to contribute to ToxTalk, mail material to (new address): Joseph R. Monforte, ToxTalk Editor, 846 Smoki Drive (H.P.), Prescott, AZ 86301

**DEADLINES:** Feb. 1, May 1, Aug. 1, and Nov. 1. **NEXT DEADLINE: FEBRUARY 1, 1995**

## PRESIDENT'S MESSAGE . . . . . Mark B. Lewis, B.S.

I began this year exclaiming "what an exciting time to be President of SOFT!". The word "exciting" is just not...well, just not "exciting" enough as I now find my heart leaping with joy at what SOFT has accomplished this year.

The Membership of SOFT has propelled the organization to yet another new height of professionalism and recognition. I have been a very proud ( and busy ) President during this past year.

Our voice, through ToxTalk, continues to be heard by the scientific community keeping members and non-members abreast of SOFT activities.

As my Presidential term nears its end, I thank the Officers and Board of Directors for their assistance, patience and guidance. It has been their combined brilliance which has been my beacon for guiding SOFT.

I thank all the standing committees, their Chairs and Members for their diligent work and excellent contributions.

I extend the hand of SOFT, as well as my own hand, to our resigning Executive Coordinator, Pat Monforte, who has assisted SOFT so well for so long and has helped me to be aware of my certain responsibilities and duties...all the organizational details I might have overlooked without her help.

I wish to thank our TIAFT/SOFT committees; so many people working so hard to make the meeting such a success! I am still receiving phone messages saying that there hasn't been a better International event held - on both scientific and personal levels.

To our TIAFT colleagues, SOFT thanks you for attending the joint meeting and for sharing your knowledge with us all. It was truly an international continuing education event and a forensic family fiesta. We look forward to another in the near future.

I thank our Conference on Drug Testing in Hair Committee, program organized by SOFT and sponsored by the U.S. Department of Health and Human Services, Division of Workplace Programs (HHS/DWP), for their monumental efforts and the fantastic response to their efforts by both presenters and participants.

I thank the SOFT Membership which had shown trust and confidence in me; having been elected to the highest position within our professional organization; the honor will live with me forever.

In closing, I wish to thank my wife, Carol, for her encouragement and understanding of my desire to serve you and our profession -Forensic Toxicology.

See you in Baltimore in '95. ☺

### 1995 S.O.F.T. BOARD OF DIRECTORS

**PRESIDENT:** \*Vina Spiehler, Ph.D., DABFT

**VICE PRESIDENT:** \*H. Chip Walls, B.S.

**TREASURER:** \*Joseph J. Saady, Ph.D., DABFT (second two-year term, 1995-96)

**SECRETARY:** Vickie W. Watts, M.S. (two-year term, 1994-95)

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W. Lee Hearn, Ph.D. (1993-1995)

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\*Michael L. Smith, Ph.D., DABFT (1995-97)

\*J. Robert Zettl, B.S., MPA (1995-97)

\*elected at the 1994 S.O.F.T. Annual Business Meeting

### COMMUNIQUE . . . Patricia Mohn-Monforte, SOFT Executive Coordinator

Please make a note of the new SOFT telephone/FAX number and mailing address. We no longer own the home in Grosse Pointe Park, Michigan, and, of course, the old SOFT telephone number and voice mail directing you to the new SOFT number are no longer in service.

As of January 1, 1995, I will no longer serve you as SOFT Executive Coordinator. The Executive Board was notified last July of my intention to resign. My formal resignation notice was accepted by President Lewis at the 1994 SOFT Annual Business Meeting in Tampa. It is my understanding that the position of Executive Coordinator will be eliminated. The Board is making alternate arrangements to meet the needs of SOFT and its members. Your cooperation and patience will be appreciated during this period of transition.

Personally, I wish to express my gratitude to you for your many kindnesses over the past twelve years and for the opportunity to help lay the cornerstone upon which SOFT has become a leader in forensic sciences. I wish SOFT and its members a professionally-rewarding future and look forward to seeing you (as a "civilian") at future meetings. ☺

# TREASURY NOTES

Submitted by: Joseph J. Saady, Ph.D., DABFT, SOFT Treasurer

## FINANCIAL STATEMENT: 1 January to 31 December 1994

### GENERAL FUND BALANCE \$53,051.99

#### \$77,797.10 1994 ASSETS

\$ 37,691.71	1994 INCOME
16,815.00	Dues, late fees, application fees
505.00	Mail label lease, ToxTalk subscriptions
20,371.71	1993 Annual Meeting profits
\$ 40,105.39	1993 General Fund Carryover

#### \$24,745.11 1994 DEBITS

\$24,745.11	1994 EXPENSES
184.95	Bank fees
7.50	Bounced checks, foreign check fees
420.00	CPA fee
3,679.66	Administrative Office expenses
5,371.59	Executive Coordinator fee
435.82	Committee expenses (DUID and Audit)
7,199.85	ToxTalk
2,167.96	Officers' 5 room nights
1,463.05	SOFT sponsored hospitality suite
3,352.36	1994 TIAFT/SOFT meeting expenses
170.00	Incorporation fee
292.37	Misc.

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### ERA ENDOWMENT FUND BALANCE: \$53,869.70

\$51,664.76	Beginning Balance
+ 3,704.94	1994 Assets:
906.00	Donations
1,273.58	Checking account interest
1,525.36	ERA Endowment interest
- 1,500.00	Student awards

**ERA INTEREST:** Since I had to leave early during our Annual Business Meeting, I would now like to respond to some questions which arose regarding the Educational Research Award (ERA) Endowment Fund. During 1994, SOFT invested in a six-month certificate of deposit twice, earning a total of \$1,525.36 interest on the principle at rates of 2.8% and 3.0%, respectively.

The Audit Committee was asked to consider other "investments" since the interest rate was low. Their investigation concluded that the investment decisions regarding the SOFT ERA Endowment Fund were not to be taken casually and that questions specifically regarding who would make those decisions was a complicated matter. In effect, no one wishes to place this fund in jeopardy. The Audit Committee would like interested members to submit any opinion they feel should be considered regarding investment opportunities. Please respond in writing to: SOFT Audit Committee Chair, P.O. Box 5543, Mesa, AZ 85211-5543.

Since interest rates have risen, I placed \$53,000 into a one-year U.S. Treasury Bill at 6.825% interest. The principle (\$53,000) will be paid back on 12/14/95, and the interest (\$3,617.25) has already been paid to SOFT and placed in the General Fund where it is earning approximately 3.0% interest. Remember, the ERA funds available to awardees is based on interest earned, not the principle.

**1995 DUES NOTICES** (second notice) are inserted in this copy of ToxTalk. You will also have the option of paying your 1996 dues at this time. If you have already paid your 1995 SOFT dues, please disregard the enclosed notice. Thank you. Your dues payment should be mailed to:

Joseph J. Saady, Ph.D., DABFT, SOFT Treasurer  
VA Commonwealth University - Medical College Campus  
P.O. Box 980165 - Room 620, Richmond, VA 23298-0165

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## IN MEMORIUM

We grieve the passing of two of our members: Dr. Thorne Butler and Dr. Krishnaswamy Nagarajan. Their professional careers were respectfully acknowledged at the 1994 Annual Business Meeting. ToxTalk sadly reports the more recent death of another respected colleague, Dr. Jack Wallace.

# ERGONOMICS

submitted by: *Laurel J. Farrell, Member of the S.O.F.T. Health and Safety Committee, Colorado Department of Health, 4210 E. 11th Ave., Denver, CO*

The 1970 Occupational Safety and Health Act in its General Duty Clause requires an employer to "furnish to each of his employees employment and a place of employment which are free from recognized hazards that are causing or likely to cause death or serious physical harm." OSHA has recently placed increased emphasis on workplace ergonomics as an element of this requirement due to ergonomic disorders being cited as the fastest-growing category of work-related illness, according to the Bureau of Labor Statistics.

Ergonomics, from the Greek words "ergo" (work) and "nomos" (laws), is a systematic approach to problems of fit between individuals, their tools and the environment. As an interdisciplinary science, ergonomics brings together engineering and medicine to analyze the interaction between people and products. Ergonomics is based on the following principles:

- ❖ The human body has limitations which should be considered in the design of any tool, work place, or product.
- ❖ Individuals possess different limitations.
- ❖ Musculoskeletal injury is possible when human capabilities are exceeded during a given activity.

Ergonomics considers the design and function of controls, displays, safety devices, lighting, temperature, workplace layout, tools, and work methods. Ergonomics helps adapt the job to fit the worker; it does not force the worker to fit the job. Neglect of ergonomic principles brings inefficiency and pain to the workplace. An ergonomically deficient workplace may not cause immediate pain, because the human body has a great capacity for adapting to a poorly designed workplace or structured job. However, in time, the compounding effect of job and or workplace deficiencies will surpass the body's coping mechanisms, causing the inevitable: physical symptoms, emotional stress, low productivity, and poor quality of work.

Musculoskeletal injuries cost American industry millions of dollars each year in lost wages, workman compensation premiums, medical expenses, decreased productivity, manager and supervisor time, and other indirect costs. Most of these types of injuries happen over time and are disorders arising from repeated biomechanical stress due to ergonomic hazards. These disorders have been called "cumulative trauma disorders" (CTD). CTDs are a class of musculoskeletal disorders involving damage to the tendons, tendon sheaths, synovial lubrication of the tendon sheaths, and the related bones, muscles, and nerves of the hands, wrists, elbows, shoulders, neck, and back. Low back pain and carpal tunnel syndrome are two of the more frequently occurring occupationally induced CTDs. The general symptoms of these disorders include pain, stiffness, swelling, numbness, tingling, and burning sensations. When diagnosed in their early stages, CTDs can be effectively treated by conservative methods. But, when fully manifested, CTDs often require surgical intervention and can lead to lost-time and permanent disability.

Ergonomic deficiencies are characterized by a number of well-defined and well-recognized manifestations: extreme posture, excessive force, concentration of stress, & static loading. In most cases, improper postures are the result of improper reach. Any reaches made with the arms fully extended and to points above the shoulders or below the waist are typical causes of extreme postures. Another cause of extreme posture is improperly designed hand-held tools/products. Materials handling and the use of hand and power tools require exertion of force. The level of stress on the body reflects the person's fitness level. As a rule, the level of stress concentration is inversely related to the number of body segments engaged in the task motion and /or force application. Time is an important factor in determining stress concentration. Stress that dominates throughout the working day is certainly more harmful than stress applied infrequently. Static loading is a term applied to a host of situations in which one or more body segments are kept motionless or allowed to change positions very infrequently. Static loading interferes with muscle and/or tendon functions. Some tasks in a forensic toxicology laboratory that are prone to ergonomic deficiencies are computer work, reviewing data, pipetting, and capping of GC/MS vials.

The application of ergonomics begins with a detailed analysis of the job that evaluates nine specific areas of ergonomic concern: management, job, workplace, machine, method, materials handling, environment, health care programs, and employee fitness/awareness. An ergonomic checklist may be used for gathering data and documenting the observed conditions. Ergonomic checklists can be found in textbooks and reference material. Most of the available lists benefit from customizing. A well done job analysis results in quantified stresses to the worker. Other data such as worker interviews and information from the medical records help identify the stresses imposed by the job. CTD happens over time so it is helpful to get a job history. The worksite analysis is the first step. This is to be followed by hazard prevention and control, medical management, and training and education.

OSHA currently does not have a specific ergonomic regulation for general industry, but does have specific guidelines for the meat packing industry, OSHA publication 3123. OSHA issued an advanced notice of proposed rulemaking on the subject of ergonomic hazards. The comment period for this ANPR ended Feb. 1, 1993. There currently is no scheduled date for the release of the proposed regulations. OSHA, in the meantime, is citing employers for ergonomics hazards under the General Duty Clause. An Office of Ergonomics has been created in OSHA that provides training and consultation on ergonomic issues.

Ergonomics has been recognized by many corporations and by OSHA as the technique of choice for preventing musculoskeletal injuries in the workplace. This may well make ergonomics one of the major occupational safety and health issues of the 1990's. ♀

Comments regarding the SOFT Health & Safety Committee should be directed to the committee chair:

Amanda Jenkins, Toxicology Laboratory, Office of the Chief Medical Examiner, 111 Penn Street, Baltimore, MD 21201

## **A Closer Look at S.O.F.T.:**

### **HEALTH AND SAFETY COMMITTEE**

*members: Amanda Jenkins (chair), John Cody, Daniel Isenschmid, and Laurel Farrell*

The purpose of the S.O.F.T. Health and Safety Committee is to inform the membership of relevant health and safety issues and to notify members of pertinent changes in regulations and recommendations relative to laboratory safety. Further, the committee should emphasize to members the importance of engaging in safe laboratory practices and to respond to requests for guidance and information relating to health and safety in the forensic toxicology laboratory.

To promote these goals, the committee has been active in three areas during 1994. The committee has written four articles which have been published in ToxTalk. These have addressed diverse health and safety topics such as radiation and ergonomics. We hope you have found them informative and useful. In addition, the committee has compiled a bibliography of health and safety citations. Once the committee has reviewed the list, the bibliography will be made available to SOFT members. We have emphasized references published within the last ten years relating to regulations, chemical, biological, and radiological hazards. The third activity of the committee is the health and safety questionnaire as discussed below. ☼

### **S.O.F.T. HEALTH AND SAFETY COMMITTEE QUESTIONNAIRE**

Enclosed in this issue of ToxTalk is a single-page questionnaire from the Health and Safety Committee. Several members of S.O.F.T. have requested that the committee prepare training materials or written information concerning health and safety issues pertaining to forensic toxicology laboratories. It is possible that these would focus primarily on post mortem and human performance forensic toxicology laboratories. However, before we consider embarking on such a course, the committee needs to know the opinion of the membership - whether you think this is a good idea, what form this information would take, or whether you would find the information useful.

Therefore, please make every effort to complete the five short questions and return to the committee chair, Amanda J. Jenkins, (address listed) by February 1, 1995 - or as soon as possible. The questionnaire includes a line to add the respondent's name - obviously, this is optional. All responses received will be considered. ☼

### **THE WORKPLACE AND AIDS - FREE INFORMATION**

You can access valuable information and resources for creating workplace HIV/AIDS prevention and education programs by calling toll-free the CDC's Business and Labor Resource Service at 1-800-451-5231. The sole function of this national Resource Service is to meet the needs of those involved in developing workplace programs. The service offers one-stop shopping for technical assistance, information categorized by industry, a national network of local experts, and a wide variety of materials tailored to meet your needs in a comprehensive HIV/AIDS workplace program. ☼

### **SOFT/AAFS D.U.I.D. COMMITTEE Materials Offer No. 2**

Patience please! The anticipated monograph, "Benzodiazepines," and enhanced bibliography disk are not yet available. Those members who requested these items can expect to receive them as soon as they are available. No anticipated mailing date as been established at this time.

All future requests and inquiries regarding the distribution of D.U.I.D. Committee materials should be addressed to:

Robert J. Zettl  
Colorado Dept of Health  
4210 East 11th Avenue  
Denver, CO 80220

# Case Notes: Testing Human Hair for Pesticides in a Case of Occupational Exposure

Submitted by Pascal Kintz, Institut de Medecine Legale, 11 Rue Humann, 67000 Strasbourg, France

In an attempt to characterize chronic occupational exposure to insecticides, a hair specimen was obtained from an outdoor sanitation worker routinely spraying an insecticide containing a mixture of chlorpyrifos (10 g/L) and diazinon (7.50 g/L). The worker wore neither protective clothing nor a mask. The hair specimen was analyzed according to the following method.

Hair sample, weighting 50 mg, was cut as close as possible to the skin from the posterior vertex. Decontamination of the hair was obtained by washing in 5 ml dichloromethane for 15 min at 37°C. The protein matrix of the hair was destroyed by incubation in a solution of 1 ml of 1 M sodium hydroxide for 5 min at 100°C. After neutralization with hydrochloric acid, the hair homogenate was extracted with 5 ml of dichloromethane containing 200 ng of SKF 525A, used as internal standard. After vortexing and centrifugation, the solvent was evaporated to dryness. The residue was dissolved in 20 µl of dichloromethane and 1 µl was injected into the GC/MS system.

The chromatographic system consisted of a model 8500 Perkin Elmer gas chromatograph interfaced to an ion trap detector (ITD). The ITD was operated in electron impact mode at 70 eV with an ion source temperature of 220°C. The flow of carrier gas (helium, purity grade N 55) through a 12 m x 0.22 mm BP-5 fused silica capillary column was 1.6 ml/min. The column oven temperature was programmed from an initial temperature of 60°C to 280°C at 30°C/min and held at 280°C for the final 3 min. Splitless injection with a split valve off time of 1 min was employed. After identification, selected ion monitoring (m/z 86 for SKF-525A; m/z 304, 137 and 179 for diazinon and m/z 342, 197, 314 for chlorpyrifos) was used to prepare calibration graphs and to calculate concentrations of the analytes.

Both pesticides were detected in hair at concentrations of 4.46 ng/mg and 7.97 ng/mg diazinon and chlorpyrifos, respectively.

These results lead us to consider hair analysis as a potential method for controlling workers' exposures to given toxins and contaminants. ☺

## Technical Notes: BLUTALKOHOLKONZENTRATION No. 7

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

### AN UNUSUALLY LARGE POSITIVE BLOOD ALCOHOL DIFFERENCE BETWEEN TWO BLOOD SAMPLES by H. Althoff, Archiv f Kriminologie, 141:105-113, 1968

German title: Ungewöhnlich grosse positive Blutalkoholdifferenz zwischen zwei Blutentnahmen

The following describes a case report from Cologne, Germany, involving a 26-yr-old malnourished male who was a chronic alcohol abuser. He weighed 50 kg (110 lb) and was 176 cm (5'9") tall. At 4:40 a.m. he broke into a grocery store and stole a 0.7 L (23 oz) bottle of rum (54% v/v alcohol). The police arrested him at 5:05 a.m., approximately 25 minutes later, by which time he had consumed the entire bottle of rum.

At 5:35 a.m. a blood sample was taken and the mean BAC as determined by the Widmark and ADH methods was 0.196 g/100mL. At that time, the doctor who collected the blood sample determined that the person was extremely drunk.

At 6:40 a.m., a second blood sample was taken, and the mean BAC was 0.500 g/100mL. At that time, the person was unconscious, vomiting continually, and diagnosed as having alcohol poisoning. The person was taken to hospital for treatment and recovered uneventfully 2 days later.

The alcohol dose consumed was equivalent to 6.0 g/kg. The increase in BAC between the 2 samples was 0.304 g/100mL. This increase occurred over 65 minutes and, if the BAC increase were linear, it would be equivalent to 0.0047 g/100mL/minute.

Of the 222 double blood samples analyzed in the same year (1966), only 5 (2.3%) had an increasing BAC, of which this reported case was the most extreme.

The author concluded that at the time of the robbery, the subject had no forensically relevant BAC and that the statements of the accused regarding time, type and amount of alcohol consumed were accurate. ☺



## CALL FOR CASE NOTES

Your case note should be about 1/2 page in length, no more than a full page. Material or a disk (using Microsoft Works/Word 2.0) may be mailed to: Joseph R. Monforte, Ph.D., DABFT, ToxTalk Editor, 846 Smoke Dr. (H.P.), Prescott, AZ 86301

Other items of interest to SOFT members are also welcome.

Next deadline: February 1, 1995

## ELMER GORDON OPEN FORUM AN OPPORTUNITY FOR INFORMAL DIALOGUE

**ANSYS OFFERING \$15,000 AWARD FOR OUTSTANDING APPLICATIONS USING SOLID PHASE EXTRACTION USING EC AND \$1,000.00 FOR SUBMITTING SPEC ARTICLES TO ACCEPTED REFEREE JOURNAL. Deadline: June 30, 1995.** For further information, including a list of acceptable journals, telephone Darrell Adams, Ansys/Toxi-Lab, at 800-854-0277 or Fax 714-770-0863. (repeated from last issue)

**Dr. Yale H. Caplan** was presented the 1994 Maryland Chemist Award by the Maryland Section of the American Chemical Society. The award is conferred annually to one chemist in the Maryland Section for outstanding achievement in the field of chemistry.

Dr. Winek's *Drug & Chemical Blood Level Data 1994* is available on a laminated wall chart (25" x 31"). The fee, including postage, is \$10.00. To order, send check or money order payable to *Treasurer, Allegheny County* to: Dr. C. L. Winek, Allegheny County, Department of Laboratories, 10 County Office Building, Pittsburgh, PA 15219.

**TOX ALERT!** Submitted by Rob Middleberg, Ph.D., National Medical Services, Willow Grove, PA

Verboten! Taboo! Shhhh! We don't talk about these things. After all, we're well-respected scientists and professionals with reputations. While many forensic toxicologists are employed by governmental agencies, there are many in the profession who work for independent laboratories or are themselves practicing independently. Regardless, we all get paid for our services. Most of us have had, or can have - independent of our respective employers - the opportunity to act as a consultant or expert witness in cases for which we will be compensated, or expect to be compensated! What happens if you perform work, prepare a report, and even testify under the agreement of compensation for services and you don't receive payment or are apportioned some abbreviated part of your bill?

One laboratory was recently involved in two prominent court-appointed cases in California in which it was arbitrarily decided by courts to reduce the laboratory's fees by two-thirds in one case and, to date, no compensation in the other. In the first case, the toxicologist involved performed in excess of 50 hours of report preparation, followed by 3.5 days in California for testimony. Payment had been assured. However, the Court decided to reimburse travel expenses and fees at a rate equalling \$34.71 per hour.

In the second incident, the laboratory was not informed that this was a court-appointed case until after the case was adjudicated. This involved lengthy case evaluation as well as testimony some 3000 miles away from the laboratory.

So what's the point of all this? There are actually two main points:

1. The TOX ALERT is a warning that some of the courts of the state of California have arbitrarily decided to cut expert fees when submitted for payment, especially if the expert is from out of state. The individual counties then dare you to sue them within their own counties since the amounts are usually not sufficient for Federal Court. This information was gathered by attorneys while investigating what options a company or individual has in cases in California where payment is not made or is capriciously abbreviated.

2. What can the forensic toxicologist do to help ensure compensation for services rendered? Confirm immediately who is responsible for your fees. **Do everything in writing!** If a contract is possible, do it. Make sure there is no confusion about your hourly rates and any other expenses that are to be paid. Get all travel expenses prepaid. If at all possible, get a retainer. Ask if there is maximum cap on your total fees. Use progressive billing - if the client cannot pay your progressive bills, then you need not do any further work. **Again, do everything in writing!**

While the above may still not ensure payment, it certainly arms you with some recourse if and when necessary.

Remember, professionals get paid for their services. After all, how many times have you been asked on the witness stand whether you are being compensated for your work? If it is acceptable to discuss this issue in a public setting, then it would be acceptable for us to discuss it among ourselves. ☺

## ABFT NEWS

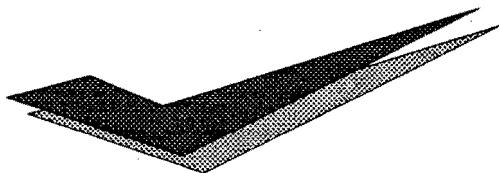
The following persons recently met all certification requirements and have been admitted to the American Board of Forensic Toxicology: Diplomates: Anthony G. Costantino, Ph.D., Francis M. Esposito, Ph.D., and Siu Cheung Chan, Ph.D., and Forensic Toxicology Specialists: Joseph A. Crifasi, M.S., George F. Jackson, Ph.D., and Carole T. Trojan, M.S.

Requalification application packets have been mailed to 71 ABFT Diplomates and should be completed and returned promptly to facilitate a timely review and avoid a lapse in certification.

Address changes, requests for information on ABFT, and requests for application materials should be addressed to:

ABFT Administrative Office, c/o Forensic Sciences Foundation  
P.O. Box 669, Colorado Springs, CO 80901-0669  
Telephone: 719-636-1100





Mark your calendar now! **Oct 9-14, 1995**

# SOFT MEETING

Silver Anniversary Sheraton Inner Harbor Hotel

For further information contact: Yale H. Caplan, Ph.D., National Center for Forensic Science (MetPath),  
1901 Sulphur Spring Road, Baltimore, MD 21227  
telephone: 410-536-1485

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## 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.*

**TOXICOLOGY TECHNICAL SPECIALIST** MT with NRCC/Tox cert (or equiv of either), 5 yr min experience, general, medical, forensic & occupational testing. Legacy Emanuel Hosp & Health Ctr, Portland, OR. Call Kandis Allison at 503-280-4164 for applicati packet.

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## PROFESSIONAL CALENDAR

**California Association of Toxicologists (CAT)** quarterly meetings and workshops. For information contact Vickie Watts at 602-644-2077, FAX 602-644-2478. 2/04/94 San Francisco; 5/06/95 Los Angeles

**American Academy of Forensic Sciences (AAFS)** annual meeting: Contact Brenda Papke, 719-636-1100. Future AAFS meetings: 2/19-24/96 Nashville; 2/17-22/97 New York City.

**ACS National Meeting:** April 2-7, Anaheim, CA. Contact ACS Meetings at 202-872-4396.

**SOFT 25th Anniversary Meeting:** October 9-14, Baltimore. Contact Dr. Yale Caplan, 1995 SOFT Meeting Host, National Center for Forensic Science, Div. Maryland Medical Lab (MetPath), 1901 Sulphur Spring Rd., Baltimore, MD 21227 (telephone: 410-536-1485).

**FUTURE S.O.F.T. MEETINGS:** 1996 - Denver, CO Members interested in hosting a future SOFT meeting should contact Meeting Resource Committee Chair Vina Spiehler at 714-642-0574 or FAX 714-642-2852.

### NEW S.O.F.T. CONTACT INFORMATION:

① VOICE MAIL & FAX 602-839-9106

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





# CALL FOR PAPERS

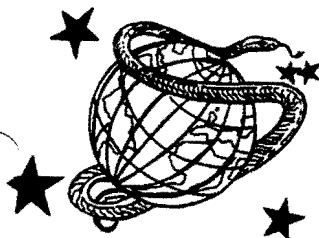
## SOFT / JAT SPECIAL ISSUE

The 14th annual October special issue of the *Journal of Analytical Toxicology* will again be published in collaboration with the Society of Forensic Toxicologists (SOFT). Copies of the issue will be distributed at the TIAFT-SOFT meeting to be held in Tampa, Florida, October 31–November 4, 1994.

The guest editor for this issue is Dr. Jeanne Beno. Original manuscripts to be considered for publication should be directed to:

Dr. Jeanne Beno  
Medical Examiner's Office  
740 E. Henrietta Road  
Rochester, NY 14623  
Telephone: (716) 274-7970      FAX: (716) 274-7979

*Deadlines for Submission:*  
March 17, 1994 — Abstracts  
April 1, 1994 — Completed Papers



# TIAFT/SOFT Joint Congress

## October 31 - November 4, 1994

### Tampa, FL USA



## Instructions for Abstract Preparation

### General Instructions:

The program committee solicits abstracts on all forensic toxicology topics, but is especially interested in papers on the analysis of drugs and metabolites in alternative biofluids and tissues such as hair, sweat, saliva, semen, skin, vitreous, amniotic fluid, meconium, breast milk, and in papers relating drug concentrations to performance impairment, drug interactions, drug metabolism, pharmacology, and pharmacokinetics. 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, if possible. Any IBM or Macintosh word processing format, or ASCII format can be accommodated. Please label the disk with the first author's name, IBM or Macintosh, and the word processing program utilized. The **deadline for submission** of abstracts is **July 1, 1994**. The authors of all papers will be required to register for the meeting.

Scientific papers selected for presentation will be divided into two groups: Platform Presentations (15 min including questions, limit of one per presenter) and Poster Presentations (4 ft high by 3.25 ft wide). Tack boards and thumb tacks will be provided. In an effort to increase communications between speakers and attendees, and to avoid simultaneous scientific sessions, several prizes will be awarded for poster presentations. In addition, there will be contests and prizes for attendees who visit the most poster presentations. 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. Summary of results
6. Statement of conclusion

### Format of Abstract:

Your abstract must be typed and submitted in a neat and legible format following the instructions and style provided in the sample below. Type the entire abstract within the boxed area, single space. 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 facsimile no later than September 15, 1993.

### Specific Instructions:

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

Mailing address: TIAFT/SOFT 1994  
PO Box 10856  
Tampa, FL 33679-0856

Street address: TIAFT/SOFT 1994  
1030 Brookview Avenue  
Westlake Village, CA 91361

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

## Sample Abstract

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

**Author(s) names and address(es):** Type upper and lower case; spell out first and last names, use middle initial, e.g., Marilyn A. Huestis

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

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

# TIAFT/SOFT JOINT CONGRESS

## *"Bridging the World of Forensic Toxicology"*

October 31st - November 4th, 1994 Tampa, Florida (USA)

Presented by:

The International Association of Forensic Toxicologists and The Society Of Forensic Toxicologists

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### Preliminary Program

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**Sunday - October 30th**  
(optional)

PRE-CONFERENCE TOUR to Cape Canaveral / Kennedy Space Center

**Monday - October 31st**

WORKSHOP 1: *Human Performance Testing - Drugs and Driving Impairment* (morning).

This workshop will focus on the latest developments in this discipline. Drugs to be discussed will include cocaine, marijuana, and the benzodiazepines.

WORKSHOP 2: *Legal Aspects of Urine, Blood, and Hair Drug Testing* (afternoon). Drug testing from a legal point of view will be explored, including a review of the latest case precedents established in court.

HALLOWEEN WELCOMING RECEPTION: Wear a costume (or at least a mask). Prizes will be awarded!

EXHIBITS

**Tuesday - November 1st**

ANNUAL SPECIAL LECTURESHIP presented by Bryan S. Finkle, Ph.D.

SCIENTIFIC PLATFORM and POSTER PRESENTATIONS

EXHIBITS and Luncheon

SPECIAL PRESENTATIONS (evening program)

**Wednesday - November 2nd**

WORKSHOP 3: *Plant and Insect Toxicology*. This full-day workshop will be presented at beautiful *Busch Gardens* and includes breakfast, lunch, a day-long safari, and transportation to and from the hotel.

**Thursday - November 3rd**

SCIENTIFIC PLATFORM and POSTER PRESENTATIONS

ELMER GORDON OPEN FORUM (informal dialogue, all attendees are invited to participate)

EXHIBITS and Luncheon

RECEPTION - hosted by the Presidents of SOFT and TIAFT

**Friday - November 4th**

SOFT and TIAFT BUSINESS MEETINGS

EXHIBITS

SCIENTIFIC PLATFORM PRESENTATIONS

FINALE International Banquet

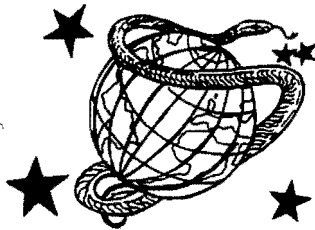
**Saturday - November 5th, Sunday - November 6th, and Monday - November 7th**

TOURS to Disney World, Universal Studios, and Sea World (optional)

**Meeting Hosts:** Dr. H. Horton McCurdy and Dr. Marilyn Huestis (SOFT) and Ms. Betty Buchan (TIAFT)

SOFT and TIAFT members will be provided additional information in their newsletters. Non-members may request registration and SOFT membership application information by writing to:

**TIAFT/SOFT 1994, P.O. Box 10856, Tampa, FL 33679-0856 (USA)**



# TIAFT/SOFT Joint Congress

October 31 - November 4, 1994  
Tampa, FL USA

## Abstract of Paper

Deadline for submissions July 1, 1994



Presenting Author, Name and Mailing Address:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Telephone: \_\_\_\_\_  
FAX: \_\_\_\_\_

Presentation Preference:

Oral  Poster

Affiliation:  TIAFT  SOFT  Neither  
Co-author(s), Address(es), Business Affiliations

\_\_\_\_\_  
\_\_\_\_\_  
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\_\_\_\_\_

Do you intend to submit the full manuscript for inclusion  
in the PROCEEDINGS?  YES  NO  
Has this paper been presented before?  Yes  No  
Where and When? \_\_\_\_\_

Available Audio-Visual Equipment:  
35mm slide projector & pointer

Mailing address: TIAFT/SOFT 1994  
PO Box 10856  
Tampa, FL 33679-0856

Street address: TIAFT/SOFT 1994  
1030 Brookview Avenue  
Westlake Village, CA 91361

The abstract review committee reserves the right of  
final placement of the paper. The authors of all papers  
will be required to register for the meeting.

\_\_\_\_\_  
Signature of submitting author

