



TOX TALK

Society of Forensic Toxicologists, Inc.

1013 THREE MILE DRIVE • GROSSE POINTE PARK • MICHIGAN 48230-1412

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DECEMBER 1992

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PRESIDENT'S MESSAGE

JEANNE M. BENO, PH.D.

As 1992 draws to a close, I would like to take this opportunity to thank the membership of SOFT for the support they have given me over the past year. It has indeed been an honor and privilege to serve as your President. Heartiest congratulations are extended to Al Poklis, Mark Lewis and Joe Saady on their election as President, Vice President and Treasurer, respectively, of SOFT. I am pleased to leave this organization in such good hands. <>

VICE PRESIDENT

Alphonse Poklis, Ph.D.
MGV Toxicology Laboratory
Box 597
Medical College of Virginia Station
Richmond, VA 23298
(804) 786-0272
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NEXT SOFT BOARD MEETING - FEB. 17, 1993
8 am Boston Marriott Copley (AAFS Meeting)

SECRETARY

Vina Spiehler, Ph.D.
Diagnostic Products Corp.
5700 West 96th Street
Los Angeles, CA 90045
(213) 776-0180 ext 3014
Fax (213) 776-0204

ATTENTION MEMBERS: DON'T FORGET TO PAY YOUR 1993 DUES
DEADLINE: January 1, 1993

Mark your calendars now!

Contact:

1993 SOFT/CAT JOINT MEETING

October 10 to 16

Phoenix, Arizona

Vickie W. Watts
1993 SOFT/CAT Meeting Host
Mesa Police Department
130 North Robson
Mesa, AZ 85201

TREASURER

Mark B. Lewis, B.S.
24 Rip Van Lane
Ballston Spa, NY 12020
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Robert J. Ostewicz, Ph.D.
Ronald C. Backer, Ph.D.
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H. Chip Walls, B.S.
William H. Anderson, Ph.D.,
ex officio

IN THIS ISSUE

ToxTalk EDITOR

Joseph R. Monforte, Ph.D.

EXECUTIVE COORDINATOR

Patricia Mohn-Monforte
(313) 884-4718

S.O.F.T. ANNUAL MEETING

October 12-17, 1992
Connecticut

C. Neal Reading, Ph.D.
S.O.F.T. Meeting Host
P. O. Box 1689
Hartford, CT 06144
(203) 566-4258

- REGULAR FEATURES - Journal Club - Elmer Gordon Open Forum - Communique
- Career Opportunities - Editor's Desk
- OF SPECIAL INTEREST - Report of SOFT Advisory Committee on Hair Analysis
for Drugs of Abuse - Salary Survey Results
- Synopsis of 1992 SOFT Annual Meeting
- Preview of 1993 SOFT/CAT Meeting
- INSERTS - 1993 SOFT Dues Notice
- Abstracts of the 1992 SOFT Annual Meeting
- JAT Call for Papers (SOFT special issue)

ToxTalk is mailed quarterly to current members of the Society of Forensic Toxicologists, Inc. Non-members may now receive ToxTalk for \$15 per calendar year. Mail a check (payable to S.O.F.T.) to ToxTalk at the address above. All members and others are invited to contribute to ToxTalk. Contact the Administrative office for membership applications.

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

NEXT DEADLINE --
FEBRUARY 1, 1993

S.O.F.T. Annual Meeting: A Summary

by Vickie W. Watts

The Society of Forensic Toxicology held its 22nd Annual Meeting in Cromwell Connecticut on October 13-16th, 1992. The week started off on Tuesday with an excellent full day workshop on "Alcohol Testing in the Transportation Workplace". The primary focus of the workshop was on the Omnibus Transportation Employee Testing Act of 1991. Donna Smith, with the Office of the Secretary, Dept. of Transportation, presented an overview of the DOT proposal for preemployment, random, and post accident testing. This was an excellent forum to examine the issues and provide input from the viewpoint of the forensic toxicologist.

A second full day workshop was conducted Wednesday on "The PC in the Toxicology Laboratory". Various options available in PC hardware and Software were explored in relation to the toxicology laboratory's needs. Two additional half day workshops were conducted on Wednesday. "NIDA Certification Inspections" covered many common problem areas encountered in the NIDA laboratories by inspectors. As presented in the workshop, one of the more difficult areas of the inspection is the GC-MS data review. The workshop, "Training and Professional Development in Toxicology", looked at the need for ongoing training for forensic toxicologists. An overview of the training efforts of the California Association of Toxicologists and the Canadian RCMP Laboratories was presented. In addition, a training module on "The Medical Examiners Laboratory" was presented. On Wednesday evening, the Elmer Gordon Open Forum was extremely well attended, with a wide variety of discussion topics including analysis of specimens from cocaine babies.

There were 26 platforms and 11 posters presented on Thursday and Friday. Cocaine ingestion, toxicity, and detection of surface residues from smoking Crack was the subject of a number of presentations. Instrumental techniques on Kinetic EIA, EMIT II, GC-IR, GC-NPD, and GC-MS for drug analyses were also covered. Case reports were presented on Triamterene, Methomyl, Metoprolol Verapamil, Fentanyl, and Paraquat. The report of the SOFT Advisory Committee on the "Consensus on Applicability of Hair Analysis for Drugs of Abuse" was presented as a platform on Thursday afternoon followed by an open discussion. A large group stayed into early evening providing input for the policy statement. The Committee worked late into the evening revising the policy statement for presentation at the SOFT Business meeting where it was accepted by a majority vote. A large round of THANKS to the dedicated Committee members, W. Lee Hearn, Ph.D., Bruce Goldberger, Ph.D., Marilyn Huestis, Ph.D., Brian Donnelly, Ph.D., and Jane Speaker, Ph.D., for their work prior to and during the annual meeting to finalize this project.

At the SOFT Awards luncheon, President Jeanne Beno, Ph.D., recognized Neil Reading, Ph.D., Joel Milzoff, Ph.D., and the program committee for their work in organizing an outstanding 1992 meeting. The officers and board members of SOFT were acknowledged, with a special recognition to Mark B. Lewis for his outstanding work as SOFT Treasurer for two terms. Mark will be serving as Vice President of SOFT this next year. Alphonse Polkis, Ph.D., was recognized for his work this past year as Vice President. Al will be serving as the incoming President of SOFT. Two SOFT ERA recipients were recognized: Philip M. Kemp for his work on "Differentiating Usage patterns of Marijuana Utilizing Gas Chromatography/Mass Spectrometry" and Bruce Walker for his work on "Matrix Effects in Forensic Samples Affecting the Analysis of Psychotropic Agents". Preston Publications presented an award to H. Chip Walls for his work as special editor of the SOFT issue of the Journal of Analytical Toxicology.

REVISED CONSENSUS OPINION ON APPLICABILITY OF HAIR ANALYSIS FOR DRUGS OF ABUSE

Prepared by the SOFT Advisory Committee October 15, 1992

The issue of testing of drugs of abuse in hair can be divided into three different components: analytical considerations, interpretation of hair test results, and applicability of the technique to various settings. This report deals primarily with the application of testing of drugs of abuse in hair to the workplace testing arena. The use of hair analysis for employee and pre-employment drug testing cannot be supported by the current information on hair analysis for drugs of abuse. However, hair analysis may be useful in other forensic investigations when the data are supported by other competent evidence of drug use.

Before a laboratory reports results of hair analysis for drugs in any context, its methods must be fully validated. Assay characterization, including assessment of accuracy, precision, sensitivity and specificity, must be documented. All details of procedures used for the analysis of specimens and all data that serve as the basis of a positive finding as well as related quality control data must be available for peer review.

The reporting of a positive result based upon a single or replicate immunoassay is not acceptable in situations where any adverse action is reasonably anticipated. Adverse consequences should not be imposed upon an individual based solely upon unconfirmed immunoassay results obtained from the analysis of hair as well as any other biological specimen. In clinical situations, a presumptive positive may be reported only if the report indicates that the result was not confirmed. All positive presumptive tests having any forensic implications must be confirmed by a second independent test prior to reporting a final result. Currently, GC/MS, GC/MS/MS, and MS/MS are the only technologies offering sufficient sensitivity and specificity for use in confirming presumptive positive hair analysis results.

Critical questions remain to be answered before the results of hair drug tests for workplace applications can be accurately interpreted. Among these are:

- a. Is incorporation, retention, and analytical detection of drugs in hair biased by race, age, sex, or other individual differences?
- b. To what extent is an externally applied drug from environmental exposure retained in hair, and what effect(s) do hygienic washing practices and cosmetic treatments have on externally applied drugs?
- c. Is retention and detection of drugs in hair affected by cosmetic treatments or by intentional efforts to avoid detection?
- d. Do various laboratory hair pretreatment procedures effectively remove externally applied drug or internally incorporated/bound drug? Are washing procedures effective in distinguishing between environmental contamination and internal incorporation of drugs?
- e. What acceptance criteria should be utilized to establish a positive hair drug testing result?

CONCLUSION: Some unanswered questions indicating important deficiencies in our present knowledge of the analysis of hair are delineated above. The committee concluded that, because of these deficiencies, results of hair analysis alone do not constitute sufficient evidence of drug use for application in the workplace.

N.B. This document should be reviewed in its entirety; no single item should be taken out of context.

N.B. This summary document was prepared by the SOFT Advisory Committee on Analysis of Hair for Drugs of Abuse. It does not represent an official position statement endorsed by the Society of Forensic Toxicologists, Inc., at this time.

(Editor's note: A motion to accept the "Revised Consensus Opinion On Applicability of Hair Analysis For Drugs of Abuse" was passed at the SOFT Annual Business Meeting on October 16, 1992.)

JOURNAL CLUB

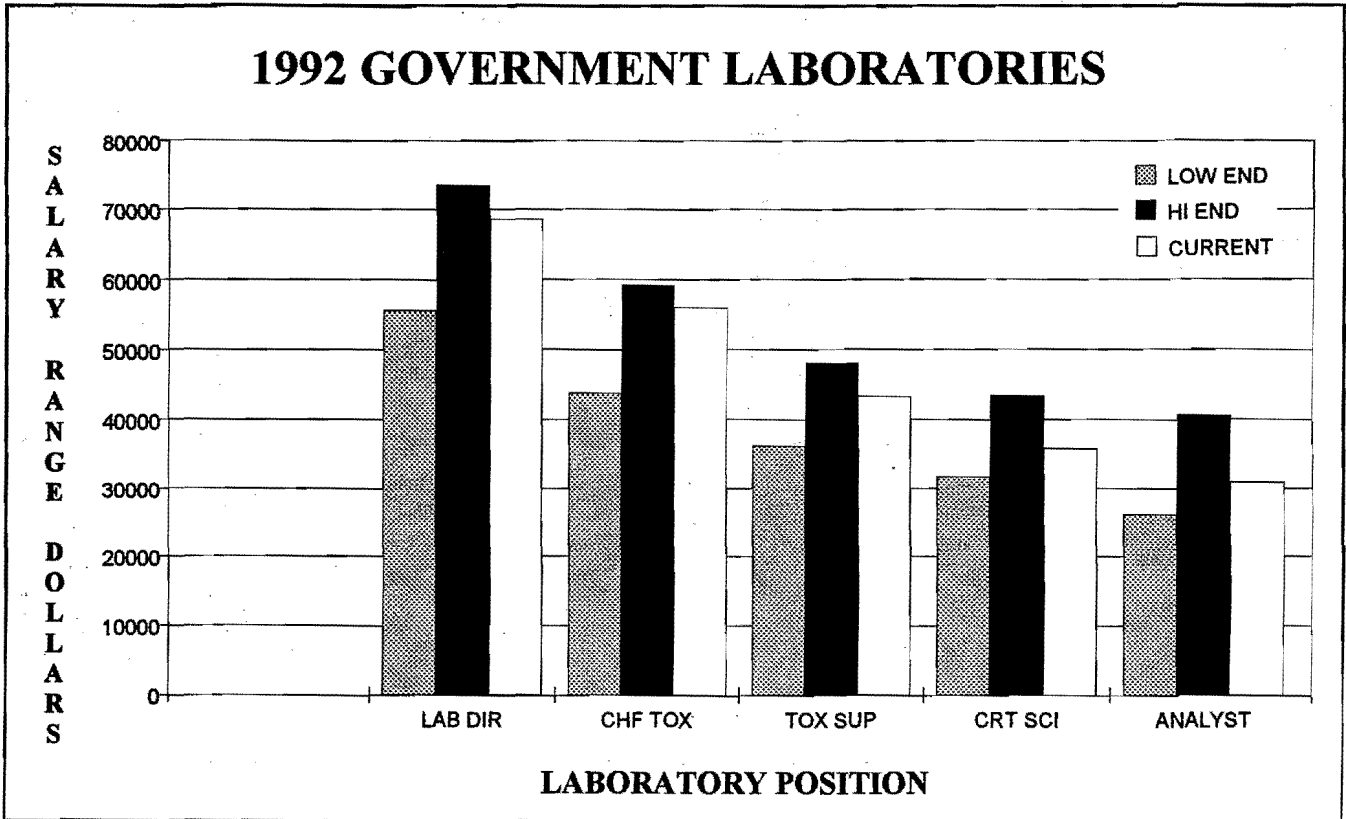
Submitted by: H. Chip Walls, Toxicology Lab, Rm 706, 600 South State St., Syracuse, NY 13202 (315-435-3802)

40. **MARIJUANA TESTING IN URINE: USE OF A HEDERATED INTERNAL STANDARD FOR EXTENDED LINEARITY, AND ION TRAP VS MASS SELECTIVE DETECTOR GAS CHROMATOGRAPHY/MASS SPECTROMETER SYSTEMS.** Joern. Clin Chem 38(5):717-719, 1992
41. **MASSIVE STRYCHNINE INTOXICATION: SERIAL BLOOD LEVELS IN A FATAL CASE.** Heiser et al. Clinical Toxicology 30(2):269-283, 1992
42. **MECONIUM FOR DRUG TESTING.** Maynard et al. Substance Abuse 12:99, 1991
43. **META-ANALYSIS PART 1: AN ASSESSMENT OF ITS AIMS, VALIDITY, AND RELIABILITY.** Henry and Wilson. The Medical Journal of Australia 156:31-38, 1992
44. **METHODS FOR TESTING IMPAIRMENT OF DRIVING DUE TO DRUGS.** Irving and Jones. Eur J Clin Pharmacol 43:61-66, 1992
45. **METHODS FOR A MODEL BLIND PROFICIENCY TESTING SYSTEM.** Hofherr, Peddecord, et al. Clin Lab Sci 5: 160-164, 1992
46. **MORPHINE METABOLISM IN ACUTELY ILL PRETERM NEONATE INFANTS.** Bhat et al. J Pediatr 120:795-9, 1992
47. **OPIATE RECEPTORS: OPIOID AGONIST-ANTAGONIST EFFECTS.** Goldstein and Meador-Woodruff. Pharmacotherapy 11(2):164-167, 1991
48. **PATIENT-CONTROLLED SPINAL OPIATE ANALGESIA IN TERMINAL CANCER. HAS THE TIME REALLY ARRIVED?** Chrubasik, Chrubasik, and Martin. Drugs 43(6): 799-804, 1992
49. **PET ANALYSIS OF ALCOHOL INTERACTION WITH THE BRAIN DISPOSITION OF [¹⁴C]FLUMAZENIL.** Liljequist et al. Psychopharmacology 107:180-185, 1992
50. **PHARMACOKINETIC AND PHARMACODYNAMIC DATA COLLECTION IN CHILDREN AND NEONATES. A QUIET FRONTIER.** Gilman and Gal. Clin. Pharmacokinet. 23(1):1-9, 1992
51. **PHARMACOKINETIC STUDIES IN PEDIATRIC PATIENTS: CLINICAL AND ETHICAL CONSIDERATIONS.** Kearns RE and Kearns GL. Clin. Pharmacokinet. 23(1):10-29, 1992.
52. **PHARMACOKINETIC-PHARMACODYNAMIC MODELING OF THE CENTRAL NERVOUS SYSTEM EFFECTS OF MIDAZOLAM AND ITS MAIN METABOLITE α -HYDROXYMIDAZOLAM IN HEALTHY VOLUNTEERS.** Mandema et al. Clin Pharmacol Ther. 51:715-28, 1992
53. **PHARMACOKINETICS OF DIAZEPAM INTRAMUSCULARLY ADMINISTERED TO RHESUS MONKEYS.** Lukey et al. Journal of Pharmaceutical Sciences 80(10):918-921, 1991
54. **POISONING DUE TO CALCIUM ANTAGONISTS. EXPERIENCE WITH VERAPAMIL, DILTIAZEM, AND NIFEDIPINE.** Pearigen and Benowitz. Drug Safety 6(6):408-430, 1991
55. **PREDICTING SEVERITY OF TRICYCLIC ANTIDEPRESSANT OVERDOSE.** Hultén et al. Clinical Toxicology 30(2):161-170, 1992
56. **PREEMPLOYMENT DRUG SCREENING THE EPIDEMIOLOGICAL ISSUES.** Zwerling and Ryan. JOM 34(6): 1992
57. **PROSPECTIVE ANALYSIS OF MENTAL STATUS PROGRESSION IN ETHANOL-INTOXICATED PATIENTS.** Todd et al. Am J Emerg Med 10:271-273, 1992
58. **PSYCHOSIS WITH VICES FORMULA 44-D ABUSE.** Craig. Canadian Medical Association Journal. 146(7):1199-1200, 1992
59. **RAPID DETERMINATION OF SUCCINYLCOLINE IN HUMAN PLASMA BY HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY WITH FLUORESCENCE DETECTION.** Lagerwerf et al. Journal of Chromatography 570:390-395, 1991
60. **RECENT DEVELOPMENTS IN THE MANAGEMENT OF PARACETAMOL (ACETAMINOPHEN) POISONING.** Jones and Rutledge. Drug Safety 7(3):170-177, 1992
61. **RELATION BETWEEN AIRBORNE ARSENIC TRIOXIDE AND URINARY EXCRETION OF INORGANIC ARSENIC AND ITS METHYLATED METABOLITES.** Offergelt, Roels, et al. British Journal of Industrial Medicine 49:387-393, 1992
62. **RISKS ASSOCIATED WITH COCAINE USE DURING PREGNANCY.** Slutsker. Obstetrics & Gynecology 79:778-89, 1992
63. **SCREENING AND CONFIRMATION OF DRUGS IN URINE: INTERFERENCE OF HEROINIDE WITH THE IMMUNOASSAYS AND THIN LAYER CHROMATOGRAPHY METHODS.** Singh et al. Forensic Science International 54:9-22, 1992
64. **SEVERE AMITRIPTYLINE OVERDOSE: RELATIONSHIP BETWEEN TOXICOKINETICS AND TOXICODYNAMICS.** Hultén et al. Clinical Toxicology 30(2):171-179, 1992
65. **STABILITY OF DILTIAZEM AND ITS METABOLITES IN PLASMA DURING STORAGE.** Yeung et al. Therapeutic Drug Monitoring 13:369-374, 1991
66. **STEREOCHEMICAL CONSIDERATIONS IN PHARMACODYNAMIC MODELING OF CHIRAL DRUGS.** Mehvar. Journal of Pharmaceutical Sciences 81(2):199-200, 1992
67. **STEREOSELECTIVE PHARMACOKINETICS OF DOXEPIN ISOMERS.** Hubbard et al. Eur J Clin Pharmacol 42:539-544, 1992
68. **SUBSTANCE ABUSE: A COMPREHENSIVE TEXTBOOK.** 2nd Edition. Lowinson, Ruiz, et al. Williams & Wilkins 1992
69. **THE CASE CONFERENCE APPROACH TO TEACHING CLINICAL PHARMACOLOGY.** Ingenito et al. J Clin Pharmacol 32:502-510, 1992
70. **THE MOLECULAR BIOLOGY OF ADDICTIVE DRUGS.** Mackler et al. Molecular Neurobiology 5:45-58, 1991
71. **THE USE OF SEDATIVE AGENTS IN CRITICALLY ILL PATIENTS.** Burns et al. Drugs 43(4):507-515, 1992
72. **THE USE OF CHROMATOGRAPHY IN FORENSIC SCIENCE.** Huball. Advances in Chromatography Vol 32.
73. **THE HUMAN HEPATIC CYTOCHROMES P450 INVOLVED IN DRUG METABOLISM.** Wrighton and Stevens. Critical Reviews in Toxicology 22(1):1-21, 1992
74. **TOXICITY OF TRICYCLIC ANTIDEPRESSANTS -- KINETICS, MECHANISM, INTERVENTION: A REVIEW.** Preskorn and Irwin. J Clin Psychiatry 43:151-156, 1982
75. **TOXICOLOGICAL INDEX AND THE PRESENCE IN THE WORKPLACE OF CHEMICAL HAZARDS FOR WORKERS WHO BREAST-FEED INFANTS.** Giroux et al. Am Ind Hyg Assoc J 53(7):471-474, 1992
76. **TOXICOLOGY OF HYDROGEN SULFIDE.** Reiffenstein et al. Annu. Rev. Pharmacol. Toxicol. 109-134, 1992
77. **TRICYCLIC ANTIDEPRESSANT-INDUCED SEIZURES AND PLASMA DRUG CONCENTRATION.** Preskorn and Fast. J Clin Psychiatry 53:160-162, 1992

1992 S.O.F.T. SALARY SURVEY

Thanks to Brad Hepler for summarizing the 1992 Salary Survey. The presentation of the data is outstanding and includes an interesting comparison with the 1989 survey.

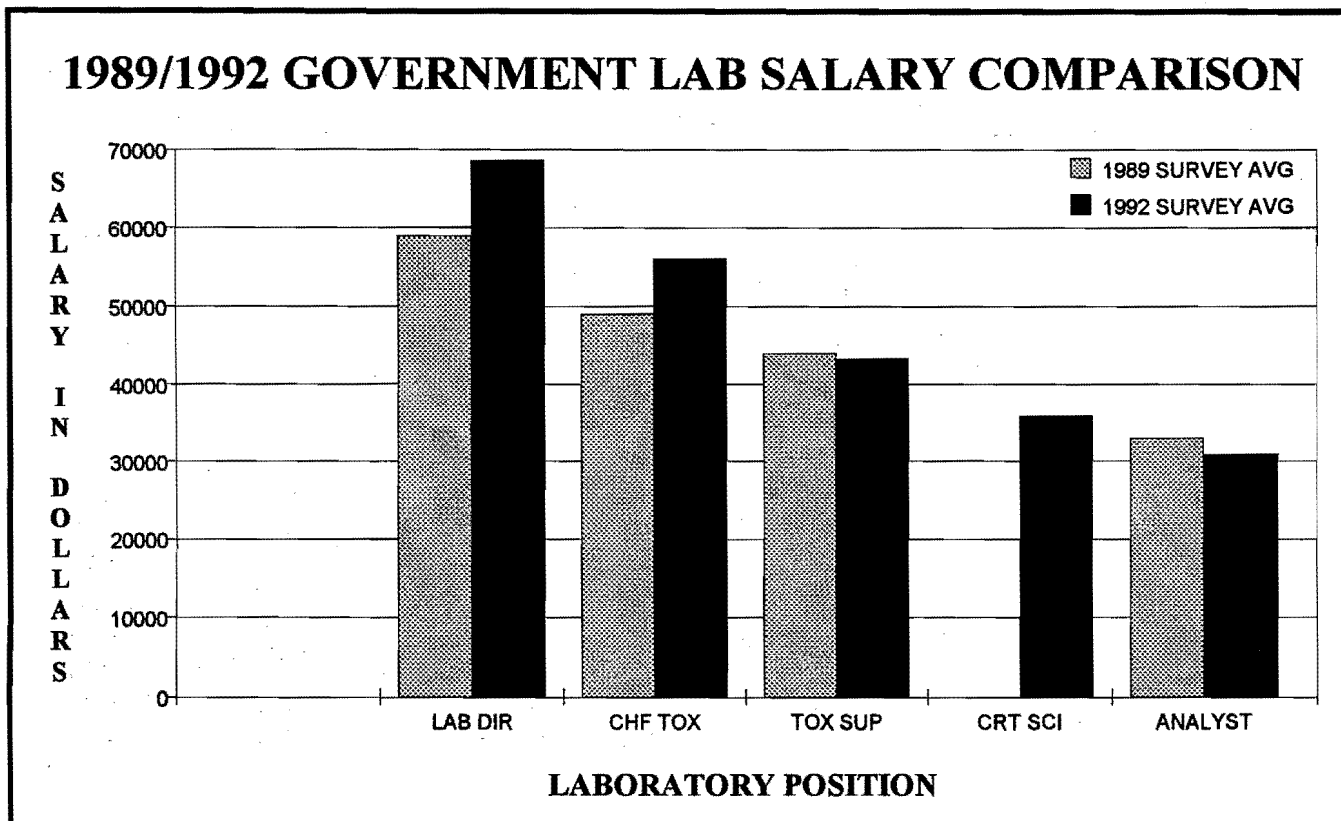
The response to the survey was disappointing, however. Only ten per cent of the SOFT membership responded. Although in some instances several positions (therefore, members) were covered on a single survey response, a much better response was anticipated. Since the number of responses is relatively small, there exists the possibility that the figures may not be a true representation of the actual salary situation.



SHRT NM	LOW END	HI END	AVERAG	YEARS	%PM	%HM TOX	%WDT	%OTHER
11 LAB DIR	55583	73476	68617	11.64	54	3	3	44
10 CHF TOX	43832	59162	56034	5.82	58	23	0	19
13 TOX SUP	36338	48120	43365	7.79	78	11	0	10
4 CRT SCI	31784	43433	35957	3.55	66	15	1	18
15 ANALYST	26224	40567	30956	3.78	73	20	3	11

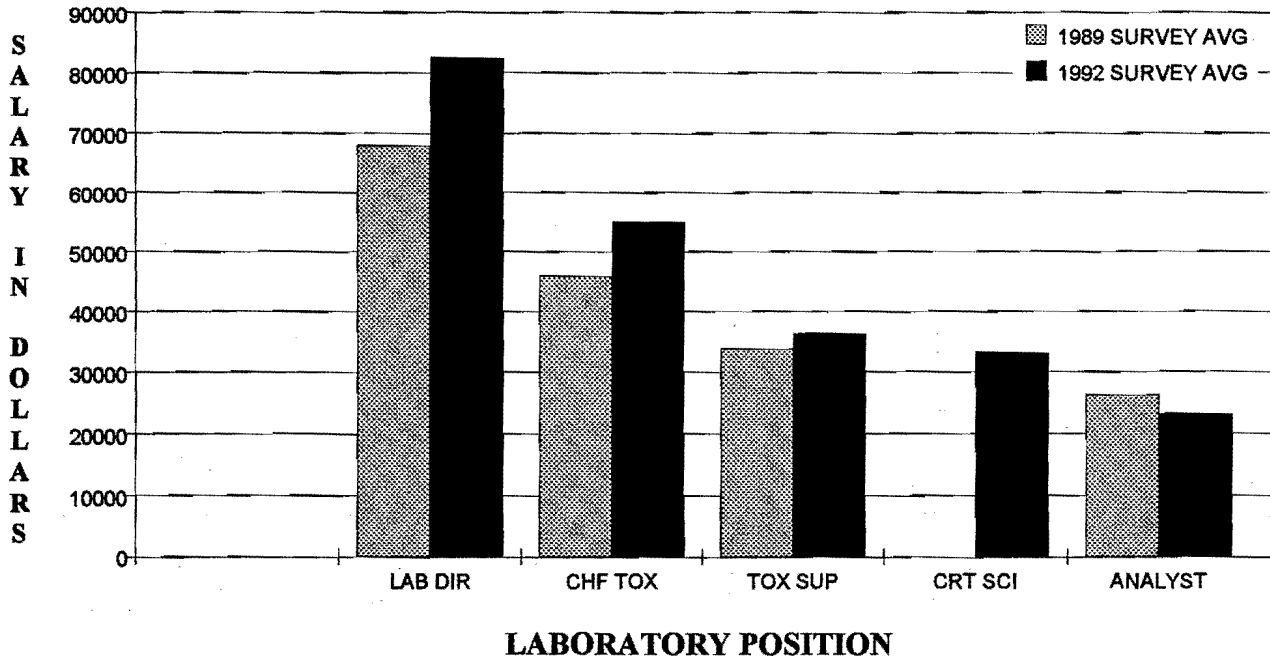
EDITOR'S NOTE:

The low- and high-end average figures, as indicated in the table, were those reported as "Annual Salary Range" on the survey form. This reflects what salaries are available within the profession as a whole. The average figures are the average of actual current salaries reported. Similar information on non-government positions appears on page 8.



1989/92 SALARY SURVEY GOVERNMENT LABS	1989 SURVEY AVG	1992 SURVEY AVG
LABORATORY DIRECTOR	59000	68617
CHIEF TOXICOLOGIST	49000	56034
LABORATORY SUPERVISOR	44000	43365
CERTIFYING SCIENTIST		35957
ANALYST/ BENCH CHEMIST	33000	30956

1989/1992 NON-GOVERNMENT SALARY COMPARISON

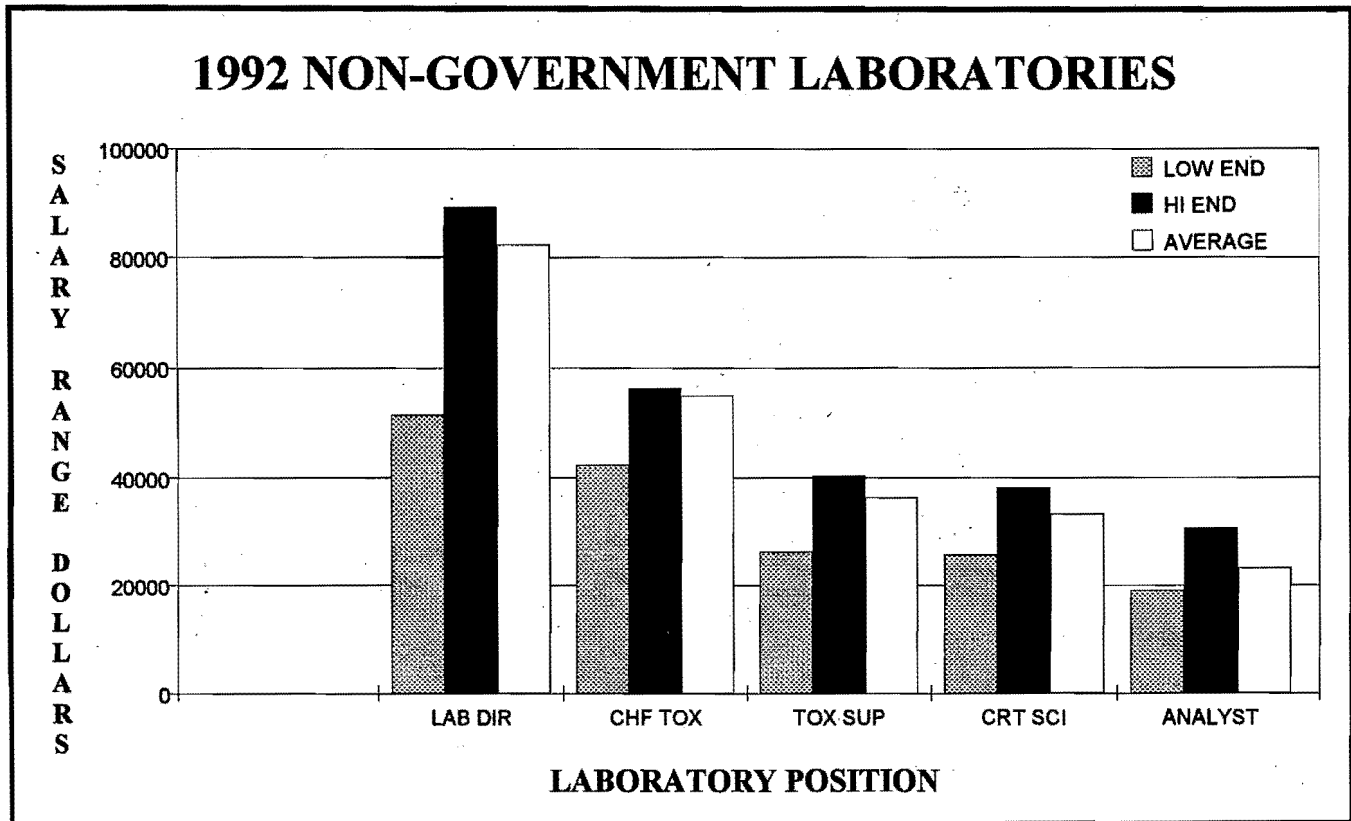


1989/92 SALARY SURVEY NON-GOV LABS	1989 SURVEY AVG	1992 SURVEY AVG
LABORATORY DIRECTOR	68000	82458
CHIEF TOXICOLOGIST	46000	55000
LABORATORY SUPERVISOR	33900	36452
CERTIFYING SCIENTIST		33307
ANALYST/ BENCH CHEMIST	26400	23303

EDITOR'S NOTE:

Included among the "non-government" laboratories were academic, private, and research laboratories reflecting a wide salary range.

The low- and high-end average figures, as indicated in the table, were those reported as "Annual Salary Range" on the survey form. This reflects what salaries are available within the profession as a whole. The average figures are the average of actual current salaries reported. Similar information on government positions appears on page 5.



SHRT NM	LOW END	HI END	AVERAG	YEARS	%PM	%HM TOX	%WDT	%OTHER
7 LAB DIR	51464	89332	82458	7.86	14	28	47	0
3 CHF TOX	42333	56250	55000	5.63	10	3	85	3
7 TOX SUP	26349	40356	36452	2.68	14	12	68	6
3 CRT SCI	25826	38174	33307	4	3	0	80	16.7
5 ANALYST	19138	30796	23303	1.98	15	5	58	22.5

If you require clarification or specific information, contact Dr. Hepler at 313-224-6459.

Any information identifying specific laboratories is not available.

AN OPPORTUNITY FOR INFORMAL DIALOGUE IN THE SPIRIT OF CHARTER MEMBER ELMER GORDON

We regret to announce the recent death of SOFT member Donald Nittskoff. We understand Don suffered a heart attack while driving his car; his wife survived the accident. Condolences may be sent to Mrs. Nittskoff (Marguerite) at 15602 Waterloo Rd., Cleveland, OH 44110.

Congratulations to President Jeanne and "First Gentleman" Alan Beno - they're "expecting" <>

Please be advised the that American Board of Forensic Toxicology written examinations will be offered FEBRUARY 15,* 1 pm, Boston AAFS meeting (registration deadline 1/17/93) and SEPTEMBER 3, 1993, Phoenix SOFT meeting (registration deadline 9/3/93). Eligible candidates must contact Dr. Alphonse Poklis, Box 597-MCV Station, Richmond, VA 23298-0597. * revised date

Congratulations to Bruce Goldberger who is the first person to be certified by ABFT as a Toxicology Specialist. <>

S.O.F.T. 1993 BOARD OF DIRECTORS

The Society of Forensic Toxicologists' 1993 Board of Directors will be as follows (* indicates person elected at the 1992 SOFT Business Meeting):

PRESIDENT - Alphonse Poklis*, Ph.D., DABFT

VICE PRESIDENT - Mark Lewis*, B.S., DABFT

SECRETARY - Vina Spiehler, Ph.D., DABFT

TREASURER - Joseph J. Saady*, Ph.D., DABFT

ADDITIONAL DIRECTORS:

- 1991-93 Vickie W. Watts, M.S.
- 1992-94 Ronald C. Backer*, Ph.D., DABFT
- H. Chip Walls, B.S.
- 1993-95 W. Lee Hearn*, Ph.D.
- Barry S. Levine*, Ph.D., DABFT

<> <> <>

INPALM HONORS SOFT

The Society of Forensic Toxicologists was recently honored at the 4th Indo-Pacific Congress on Legal Medicine and Forensic Sciences in Bangkok, Thailand. On behalf of SOFT, Dr. Joseph Monforte accepted a plaque recognizing SOFT for its contribution to "forensic sciences for the protection of society," the theme of the meeting which is held every three years. The award was presented by Pol. Major General Tasana Suwanjutha, President of the Congress.

Dr. Monforte presented a plenary session on the SOFT/AAFS forensic laboratory guidelines and NIDA guidelines, chaired two sessions, and lectured at a university and the police crime lab. SOFT Executive Coordinator, Patricia Mohn-Monforte, presented a poster session describing SOFT and its contributions to the profession and community. <>

COMMUNIQUE ...by Patricia Mohn-Monforte

SOFT/AAFS FORENSIC TOXICOLOGY LABORATORY GUIDELINES: Copies are available at \$25 (\$35 to ship outside the US) each. Send your check or money order in U.S. funds (international money orders outside N. America please) and payable to SOFT to the SOFT Administrative Office.

Go West, Young Man (and woman!): No definite date on when the SOFT Administrative Office will be moving to Arizona. Watch SOFT mailings for the latest info.

DON'T FORGET TO PAY YOUR DUES and avoid late penalty. Late payments require more paperwork and labor. Receipts and/or final notices will be mailed in January. Let me know about any corrections so that the 1993 DIRECTORY will be accurate. 1993 SOFT MEMBERSHIP DIRECTORIES should be included in the March ToxTalk mailing. <>



Joint Meeting of the Society of Forensic Toxicologists (SOFT) and the California Association of Toxicologists (CAT)

October 11-16, 1993 Phoenix, Arizona

**** Preliminary Program ****

Sunday /Monday Oct. 10-11th:

WORKSHOP #1: Venomous Toxins of the Southwest

Will be presented at the GRAND CANYON. Registration fee will be in the \$100-\$150 range and will include workshop, all transportation, lunch on the bus to the Grand Canyon and overnight stay on the south rim. We will depart for the Canyon at 1:00 pm on the 10th, to arrive in time for a spectacular sunset. We will leave the Canyon on the 11th, in the afternoon, stop in Sedona (red rock country) for dinner, and return to Phoenix in the late evening. All luggage, except for your overnight bag will be stored in our meeting hospitality room, so there will not be any additional guest room charges. Since travelers to Phoenix from the East coast will gain 3 hours, most a.m. departure times will still arrive before noon. There will be limited enrollment since there are only 50 (double) rooms available to us at the Canyon. Registration deadline is July 1st.

Tuesday, Oct. 12th:

WORKSHOP #2: GC-MS Techniques (full day)

This workshop will provide training on GC-MS analytical techniques such as optimization of split and splitless injections, derivatizations, and optimization of SIM methods, Also includes presentations on stabilizing ion ratios, evaluation of GC-MS system performance, a troubleshooting approach, and GC-MS interpretation.

Wednesday, Oct. 13th:

WORKSHOP #3: Human Performance Testing-Drugs and Driving Impairment (half day)

This workshop supplements a workshop presented at AAFS two years ago in the area of Human Performance Testing. Emphasis will be placed on performance and driving impairment studies on marijuana, cocaine and the benzodiazepines.

WORKSHOP #4: The Forensic Toxicology Analytical Approach (half day)

The Workshop will present an overall flow chart approach for forensic toxicology specimens in the postmortem medical examiners laboratory, the drugs and driving human performance impairment testing laboratory, and the forensic urine drug testing laboratory. The final approach will be from the forensic reference laboratory who receives limited amount of specimen to check for 'everything else'.

WELCOME RECEPTION:

(evening) Poolside Arizona "Necktie Party"
(If you wear a necktie, we'll cut it off and party on it!)

Thursday, Oct. 14th:

PLATFORM AND POSTER PRESENTATIONS, LUNCHEON, EXHIBITS

COWBOY DINNER:

At the 'Rockin R Ranch' with Music & Western Stage Show.

Friday, Oct. 15th:

PLATFORM AND POSTER PRESENTATIONS, LUNCHEON, EXHIBITS

Saturday, Oct. 16th:

S.O.F.T. and C.A.T. BUSINESS MEETINGS

RAY ABERNATHY SYMPOSIUM: Short Papers from the Bench on Analytical Tips and New Techniques.

MEETING HOST: Vickie W. Watts, Mesa Police Department Crime Lab, 130 N. Robson, Mesa, AZ 85201 (Phone: 602-644-2077 FAX: 602-644-2478)

S.O.F.T./C.A.T. '93' MARK YOUR CALENDARS TODAY !!

Call for papers: Abstracts must be received for review by July 1, 1993. Abstract forms will be distributed to SOFT and CAT members. Both members and non-members are encouraged to submit abstracts.

Ray Abernathy Symposium: Ray Abernathy began the practice of forensic toxicology on the West Coast. In this Symposium we will review some of Ray's cases and his advice to us. In keeping with Ray's spirit of innovation and training as a chemist we are inviting short papers from the bench on analytical tips and new methodology. Contact: Vina Spiehler, Ph.D., Telephone: (800) 678-6699 FAX: (213) 776-0204

Meeting Registration: Receive a free 'Phoenix-93' T-shirt for Early Registration. These shirts will have a screen print of the S.O.F.T./C.A.T. joint meeting logo. A fee will be charged for the shirts after July 1st, 1993.

Attention Exhibitors! Please contact us as early as possible if you are interested in exhibiting or advertising in the final program. Sponsors for specific events are also welcome. Breakout sessions and luncheons will be in the exhibitor hall to ensure maximum exposure. Approximate membership numbers: SOFT -400, CAT -500.

Fees: Registration fees will be kept as reasonable as possible to encourage participation. Registration fees will include the Welcome Reception, luncheons on Thursday and Friday, the Cowboy Dinner at the "Rockin' R Ranch" and the general scientific sessions. Access to all events will be restricted and require registration. SOFT members and persons who submit completed membership applications before July 1st are eligible for reduced fees. A late fee will be applied to all registrations after September 10th, 1993.

Hotel: The Buttes Conference Resort 2000 Westcourt Way, Tempe AZ
Telephone: 602-225-9000 Rates: Single \$105, Double \$115
Reservation deadline: September 21, 1993

This is a beautiful resort located in the bluffs overlooking the Phoenix valley. The resort has mountainside swimming, hillside spas built into the rocks, lighted tennis courts, a complimentary health club, jogging trails and nearby championship golf. There will be something for everyone. Guests are welcome, and the Meeting Committee will make every effort to offer activities for spouses and family. Additional tickets for meeting events, Welcome Reception, Cowboy Dinner and daily lunches may be purchased for guests.

Transportation: The hotel provides complimentary shuttle service to and from Sky Harbor Airport (Phoenix). Car rental stations are located inside the airport.

Dress Code: Casual attire suitable to a warm desert climate is suggested. Bring shorts, a bathing suit, a lightweight jacket, and western wear for the dinner.

Tennis Anyone: JAT Invitational Doubles Tennis Tournament Tinsley Preston has offered to coordinate this event and will provide trophies. Contact Tinsley Preston, JAT/Preston Publications, P.O. Box 48312, Niles, IL 60648, FAX 708-965-7639

Registration Deadlines

July 1, 1993: Wanted- Early registration. Reward - Free meeting T-shirt
Sept. 10, 1993: Preregistration without late penalty
Sept. 21, 1993: Hotel reservations

CAREER OPPORTUNITIES

Positions available are listed for the consideration of SOFT members. There is no fee for this service.

FORENSIC TOXICOLOGY DIRECTOR: ABFT certified for tox with minimum 5 years supv experience and knowledge of GC/MS, GC/FID & HPLC to coordinate and oversee all aspects of NIDA lab toxicology services. Contact Mark Magee, VP/Operations, Clinical Reference Lab, Lenexa, KS at 800-445-6917.

FORENSIC CHEMIST: BS, ASCP or equivalent cert or eligible, 2 yrs experience, approx. \$27K-37.5K/yr. Position reannounced, MEO's office. Contact Robert Stanny, Milwaukee County Dept of Human Resources 414-278-4163.

CERTIFYING SCIENTIST: MT(ASCP) or BS Chemist (NRCC Toxicologist) or equiv, 3 yrs tox exper including GC/MS, forensic exper preferred, full time, day shift. **TECHNOLOGIST:** MT(ASCP) or equiv, 1 yr tox exper preferred, full time, evening. Contact Melissa Stewart, South Bend Medical Foundation, South Bend, IN, 800-544-0925 x359.

FORENSIC TOXICOLOGIST: Ph.D. or equiv, FUDT lab technical direction, data review, GC/MS and IA data cert, QC and C-O-C, lab inspections and technical experience required; responsibilities include review lab inspect reports and lab documents, prepare inspection documents, assist in recommendations. Competitive salary and excellent benies. Send resume, transcript copies, and refs to: Research Triangle Institute, Office of Human Resources (BOC-E), PO Box 12194, RTP, NC 27709-2194.

TOXICOLOGY BUREAU HEAD: MS + 8 yrs exp or Ph.D. + 5 yrs, strong admin/mgmt required; system includes breath/blood alc, DUID and ME support programs; \$35-50K, Contact M. Carlucci, State of New Mexico Scientific Laboratory Division, P.O. Box 4700, Albuquerque, NM 87196-4700 (505-841-2547 FAX: 505-841-2543) <>

PROFESSIONAL CALENDAR

CALIFORNIA ASSOCIATION OF TOXICOLOGISTS quarterly meetings and workshops. For information contact Susan Knight, CAT, 18457 Santa Carlotta, Fountain Valley, CA 92708 (phone/fax: 714-965-9854) FEB 5, 1993 Forensic Toxicology Workshop, Sacramento; May 7 (Los Angeles) and Aug. 6 (N. Calif.) to be announced; Oct. 10-16 joint meeting with SOFT, Phoenix, AZ.

A.A.F.S. ANNUAL MEETING: February 15-19, Boston, MA. Contact Brenda Papke, P O Box 669, Colorado Springs, CO 80901 (Telephone 719-636-1100)

MID-ATLANTIC ASSOCIATION OF FORENSIC SCIENTISTS: May 19-21, Baltimore, MD. Contact Isabel A. Conley, c/o Maryland State Police, 9758 Ocean Gateway, Berlin, MD 21811 (410-641-9039)

2nd NATIONAL CONFERENCE ON DRUG ABUSE RESEARCH AND PRACTICE: AN ALLIANCE FOR THE 21st CENTURY - July 14-17, Washington, DC, sponsored by NIDA. Contact Basic Health Management, Inc., 8403 Colesville Rd, Suite 805, Silver Spring, MD 20910 (Tel 301-565-2205)

CSFS ANNUAL MEETING - Sept 8-12, Winnipeg, Manitoba. Contact Ron Hrynchuk, c/o Forensic Lab RCMP, 621 Academy Rd, Winnipeg, Manitoba R3N 0E7 Canada (Tel 204-983-7376)

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SOFT/CAT JOINT MEETING - OCTOBER 10-16, 1993 - PHOENIX, ARIZONA

Contact: Vickie Watts, 1993 SOFT/CAT Meeting Host, 130 N Robson, Mesa, AZ 85201
Telephone: 602-644-2077 FAX: 602-644-2467

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SOFT/TIAFT (The International Association of Forensic Toxicologists) JOINT MEETING: Oct. 31 - Nov 4, 1994, Tampa, FL. First joint SOFT/TIAFT meeting! SOFT Host - Dr. Horton McCurdy; TIAFT Host - Betty Buchan. Contact: SOFT/TIAFT, c/o Medical Examiner Dept, 401 S Morgan St, Tampa, FL 33602

1995 - SOFT 25th ANNIVERSARY MEETING, Baltimore . Contact Dr. Yale Caplan, 1995 SOFT Meeting Host, National Center for Forensic Science, Div Maryland Medical Lab, 1901 Sulphur Spring Rd, Baltimore, MD 21227 (Telephone: 410-536-1485)



CALL FOR PAPERS

S.O.F.T./JAT SPECIAL ISSUE

The 13th annual October special issue of the *Journal of Analytical Toxicology* will again be published in collaboration with the Society of Forensic Toxicologists (S.O.F.T.). Copies of the issue will be distributed at the SOFT/CAT annual meeting to be held in Phoenix, Arizona, October 10-16, 1993.

Guest co-editors for this issue are Drs. Barbara and Joseph Manno. Papers relating human performance to blood concentrations of drugs are encouraged. Original manuscripts to be considered for publication should be directed to:

Joseph E. Manno, Ph.D.
Center for Clinical and Forensic Toxicology
Louisiana State University Medical Center
P.O. Box 33932
Shreveport, LA 71130-3932

Telephone: (318) 674-7800 FAX: (318) 674-7811

DEADLINES FOR SUBMISSION:

March 31, 1993 **ABSTRACTS**
April 15, 1993 **COMPLETED PAPERS**

If you are also planning to submit your paper for presentation at the SOFT/CAT meeting, the following information may be helpful to you.

SOFT/CAT MEETING
October 10-16, 1993 (Papers October 14-16)
Phoenix, Arizona
ABSTRACT DEADLINE: June 30, 1993

For further information contact:

Vickie Watts - 1993 SOFT/CAT Meeting Host
Mesa Police Department Crime Lab.
130 N. Robson, Mesa, AZ 85201
Phone: (602) 644-2077 FAX: (602) 644-2478





1993 DUES NOTICE

IMPORTANT INSTRUCTIONS: This notice will be included in the September and December issues of ToxTalk to all persons on the ToxTalk mailing list.

If you have already paid your 1993 dues, disregard this notice.

REMEMBER: The SOFT Administrative Office will be relocating in 1993. Early dues payment will help keep our records and mailing list accurate.

MEMBERSHIP PERIOD: January 1, 1993, to December 31, 1993 DATE DUE: JANUARY 1, 1993

NAME (last) _____ (first) _____ (mdl) _____
Degrees, _____ This is how it will appear
etc. _____ Title _____ in the directory

MAILING INFORMATION - Only this address will be published in the next Directory:

Company/Agency _____
Street _____
City _____ State _____ Zip Code _____
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If you DO NOT want information published check here
Do not publish: Mailing address ()
Daytime numbers ()
DAYTIME Phone (____) _____ FAX (____) _____

ALTERNATE contact information (will not be published, for SOFT office reference only)

Address _____
Phone _____ FAX _____

\$ _____ DUES: Full \$35__ Associate \$35__ Retired \$0__ Student \$15__
Institution _____
\$ _____ Educational Research Award fund contribution (voluntary)
\$ _____ + \$7.00 LATE FEE (applicable after January 1, 1993)
\$ _____ TOTAL (No purchase orders please; U.S. funds only, payable to SOFT, Inc.)

MAILING INSTRUCTIONS:	Until May 1, 1993: =====	After May 1, 1993: =====
	SOFT Administrative Office	SOFT Temporary Contact
	1013 Three Mile Drive	8503 North 104th Avenue
	Grosse Pointe Park, MI 48230-1412	Peoria, AZ 85345
	Tel/FAX: 313-884-4718	

Do not write below: Fed ID No. 51-0233801

Date recd _____ Ck No _____ Mbr No _____

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Society of Forensic Toxicologists, Inc.

1013 THREE MILE DRIVE • GROSSE POINTE PARK • MICHIGAN 48230-1412

DATE: DECEMBER 1989

TO: S.O.F.T. MEMBERS

FROM: JOSEPH R. MONFORTE, PH.D., ToxTALK CO-EDITOR

BELOW IS A SUMMARY OF RESPONSES TO MY REQUEST FOR CURRENT SALARY INFORMATION WHICH APPEARED IN THE SEPTEMBER ISSUE OF TOXTALK. A TOTAL OF 42 RESPONSES WERE RECEIVED; HOWEVER, KEEP IN MIND ALL POSITIONS WERE NOT ADDRESSED BY EVERY RESPONSE. I WANT TO THANK EVERYONE WHO SHARED THIS INFORMATION AND HOPE THE SURVEY IS OF USE TO THE MEMBERSHIP.

1989 SALARY SURVEY SUMMARY

GOVERNMENT POSITIONS

	DIRECTOR	TOXICOLOGIST	TOXICOLOGY SUPERVISOR	ANALYST
MEAN	59.0 (N=18)	49.9 (N=19)	44.0 (N=18)	33.0 (N=16)
LOWEST REPORTED	43.0	33.8	30.0	16.8
HIGHEST REPORTED	80.2	70.0	63.0	50.0
MAXIMUM ACHIEVABLE	90.0	75.7	64.5	60.0

NON-GOVERNMENT POSITIONS

	DIRECTOR	TOXICOLOGIST	TOXICOLOGY SUPERVISOR	ANALYST
MEAN	68.0 (N=7)	46.0 (N=7)	33.9 (N=9)	26.4 (N=6)
LOWEST REPORTED	42.0	30.0	40.5 (2)	39.5
HIGHEST REPORTED	93.0	65.0	24.9	17.9
MAXIMUM ACHIEVABLE	128.0	65.0	58.0	60.0

ALL RESPONDING LABORATORIES

	DIRECTOR	TOXICOLOGIST	TOXICOLOGY SUPERVISOR	ANALYST
MEAN	61.5 (N=25)	48.8 (N=26)	41.0 (N=27)	31.2 (N=22)



September 1989

Dear S.O.F.T. Member:

Below is a salary survey which I hope you will complete and return to me. There have been several inquiries concerning the availability of such information; hopefully, your response will be useful to many members.

I realize that titles differ from one jurisdiction to the next, but for the purpose of this survey the following criteria apply:

LAB DIRECTOR: Person responsible for management of all laboratory services.

TOXICOLOGIST: Person responsible only for management of the toxicology laboratory

(Note: Some offices may have only one of the above positions.)

TOXICOLOGY SUPERVISOR: Person responsible for the day-to-day laboratory operation, supervises other chemists, and reports directly to either the Toxicologist or Laboratory Director.

ANALYST: Individual performing benchwork, requiring some degree of supervision.

Please respond before NOVEMBER 1st, the deadline for the next issue of ToxTalk. No individual person will be identified. Thank you.

Joseph R. Monforte, Ph.D.
ToxTalk Co-Editor

=====

Please complete the following by NOVEMBER 1st and mail to:

Joseph R. Monforte, Ph.D., c/o ToxTalk, 1013 Three Mile Drive,
Grosse Pointe Park, MI 48230-1412 telephone: 313-884-4718

S.O.F.T. 1989 TOXICOLOGISTS' SALARY SURVEY

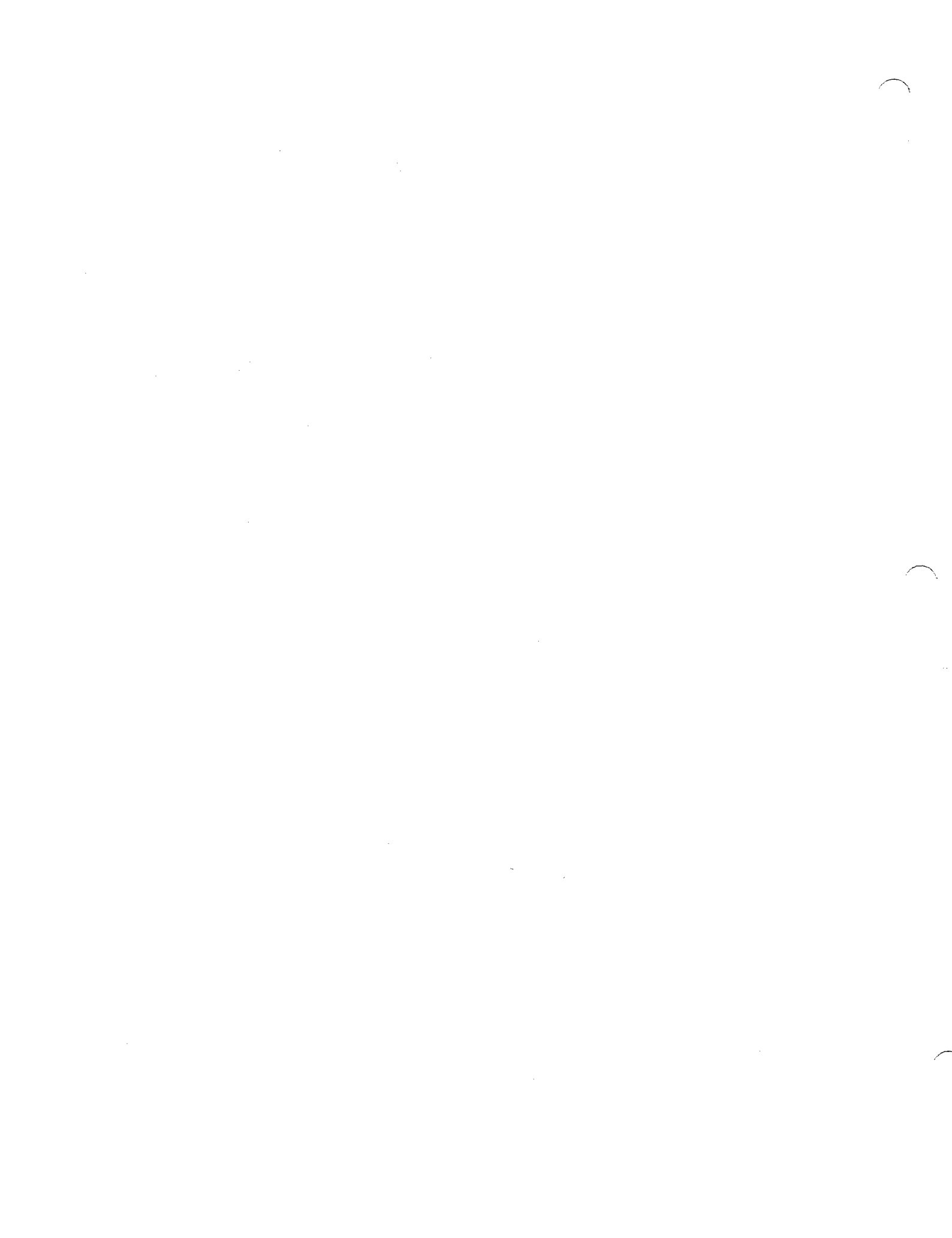
1. TYPE OF LABORATORY: Government Non-government

2. LABORATORY DIRECTOR'S RESPONSIBILITIES:

 Toxicology Laboratory ONLY
 Toxicology Laboratory PLUS other laboratories

	Salary Range (Annual)	Present Annual Salary	Years at Present Position
3. LABORATORY DIRECTOR:	\$ _____ - \$ _____	\$ _____	_____ yrs.
4. TOXICOLOGIST:	\$ _____ - \$ _____	\$ _____	_____ yrs.
5. TOXICOLOGY SUPERVISOR:	\$ _____ - \$ _____	\$ _____	_____ yrs.

6 ANALYST



M E M O R A N D U M

DATE: December 30, 1992
TO: Editor Monforte
FROM: Patricia Mohn-Monforte, ToxTalk, Publications Editor
RE: DECEMBER 1992 TOXTALK - PRODUCTION REPORT

409 copies of the MARCH 1992 issue of TOXTALK were distributed 12/04/92

BULK RATE: 376 U.S. (members & applicants, comp. (AAFS)
4 subscriptions
@ .20 bulk stamps ea. +\$14.23 = 89.43
1st class would have cost \$ 454.96

FIRST CLASS: 27 Canada @ \$1.09 ea
(pre-purchased 6 Other @ \$2.35 ea
stamps)

409 TOTAL DISTRIBUTED - (last issue, 393)

OTHER EXPENSES:

\$324.30 printing (paid directly to printer)
442.50 publication editor fees
63.99 misc. + add'l bulk postage charge (\$14.23)
50.00 outside labor
\$880.79 Total

COMMENTS:

This was a 12-page issue including the salary survey results, '92 meeting review, '93 meeting promo, and regular features. The inserts were: 1993 dues notice, '92 meeting abstracts, JAT call for papers. No technical material was submitted for this issue. Most items were submitted way past the deadline - this created a tremendous burden to get the newsletter mailed in time to allow members to respond to the dues notice before the Jan. 1, 1993, deadline.

Editor Joseph Monforte will be personally responsible for not accepting material after the stated deadlines for future issues.

There is no technical data, to date, for the next issue. The March issue will be prepared prior to the AAFS meeting as much as possible with material resulting from the BOD meeting included afterward then mailed as soon as possible.

DEADLINE FOR NEXT ISSUE: FEBRUARY 1, 1993

c: President Beno, Treasurer Lewis, VP Poklis, Secretary Spiehler,
Editorial Staff: Walls, Watts, Hepler

