



TOX TALK

Society of Forensic Toxicologists, Inc.

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

VOLUME 16, No. 2

JUNE 1992

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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

PRESIDENT'S MESSAGE

JEANNE M. BENO, Ph.D.

As the size and scope of SOFT have grown, so have the responsibilities and time commitment of the officers who serve SOFT. At the direction of the Board of Directors, a Compensation Review Committee was appointed this year to review the possibility of providing financial assistance in some form to the officers of the society in order to defray the considerable expense incurred while performing their duties. The Committee was comprised of Drs. William Anderson, James Valentour, and Thomas Manning.

At the February meeting of the Board of Directors, Dr. Anderson reported that while all committee members felt negatively toward compensation of "Board" members, they were unable to reach a consensus on whether any form of compensation for officers should exist, or what form that compensation should take.

The subject was discussed at length by the Board. All agreed that it is, without question, an honor to serve as an officer of SOFT but that travel monies for many SOFT members are limited or nonexistent, especially for those working in state or local government offices. I, personally, felt very strongly that the election of officers of this organization should not be predicated on the member's financial wherewithal to attend meetings. It was also discussed that many members of SOFT may not be aware of the amount of time officers must devote to SOFT business. For example, in 1991 SOFT had more than \$30,000 in income and more than \$24,000 in expenses. The treasurer had to handle all of the receipts associated with this income, write checks to cover all our expenses, process dues payments from 350 members, write correspondence associated with all these matters, keep the books, and deal with the IRS! The Board unanimously agreed that some compensation for the meeting expenses of officers was in order but that this should be subject to general membership approval. (continued on page 2)

* S.O.F.T. ANNUAL MEETING: OCTOBER 12 - 17 CONNECTICUT *
* * * * *
* Dates to remember - 8/01 Call for Papers *
* 9/21 Hotel Registration (for discount) *
* 10/02 Meeting Registration (no late fee) *

IN THIS ISSUE

REGULAR FEATURES - Journal Club - Elmer Gordon Open Forum - Communique
- Career Opportunities - Editor's Desk

SPECIAL TOPIC - "D.U.I.D." (coordinated by H. Chip Walls)
D.U.I.D. Questionnaire, Case Notes

OF SPECIAL INTEREST - Case Notes (D. Uges) - NIDA News

INSERTS - SOFT 1992 Meeting Information & Registration
- Call for Papers (SOFT Annual Meeting)

ToxTalk is mailed quarterly to 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.

NEXT DEADLINE
AUGUST 1, 1992

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

S.O.F.T. 1992 ANNUAL MEETING - PRELIMINARY PROGRAM SYNOPSIS

TUESDAY - October 13

8:00- 5:00 "Alcohol Testing in the
Transportation Workplace"
(\$30/\$40 non-mbr)

WEDNESDAY - October 14

8:00- 5:00 "The PC in the Toxicology Lab"
(\$50/\$60 non-members)
8:00-12:00 "NIDA Certification Inspec-
tions" (\$30/\$40)
1:00- 5:00 "Training and Professional
Development in Toxicology"
(\$30/\$40)
6:00- 7:00 Welcoming Reception (inc. in
registration fee \$45/\$65)

THURSDAY - October 15

8:00 Exhibits Open
8:00- 5:00 Platform Sessions #1 to #4
6:00-10:00 Dinner and "Murder on the
River" (optional)
10:00 President's Information
Exchange

FRIDAY - October 16

8:00-10:00 Platform Session #5
10:15-12:00 SOFT Annual Business Meeting
12:00- 2:00 Awards Banquet
2:00- 5:00 Platform Session #6

SATURDAY - October 17

5 am- 6 pm Deep Sea Fishing (optional)
8:00- 1:00 World Class Golf (optional)

DISCOUNTED MEETING FEES FOR SOFT MEMBERS:

Only CURRENT SOFT MEMBERS in good standing
qualify for the discounted fees.

NON-SOFT MEMBERS AND MEMBER APPLICANTS:

This is the only meeting information that
will be distributed to non-SOFT members
unless you are on Dr. Reading's contact
list.

ADDITIONAL MEETING INFORMATION CONTACT:

Dr. C. Neal Reading
SOFT 1992 Meeting Host
3 Tanner Street
Manchester, CT 06040
phone 203-649-4896

MAKE YOUR HOTEL RESERVATION BEFORE 9/21:

Radisson Hotel/Conference Center Cromwell
100 Berlin Rd, Cromwell CT 06416

Tel: 203-635-2000 FAX: 203-635-6970
M-F 8 am to 6 pm EST Code: TOXIC
\$84 single; \$89.60 double; \$95.20 triple

IMPORTANT DEADLINES

August 1 - Call for Papers
September 21 - Hotel Registration
October 2 - Meeting Registration

ATTENTION, EXHIBITORS! For exhibit information please contact:

Dr. Joel Milzoff, SOFT Exhibit Coordinator Phone 203-566-4258 FAX 203-566-7813

ONE-TIME COMPLIMENTARY COPIES OF THIS ISSUE OF TOXTALK are being mailed to SOFT member applicants and persons on Dr. Reading's contact list to distribute meeting information and encourage interest and participation in SOFT. ToxTalk is usually available to members only or by subscription.

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(continued from page 1) . . . PRESIDENT'S MESSAGE

The following resolution was passed:

"Lodging for elected Officers will be provided by SOFT, from the general funds, for four (4) nights at the annual SOFT meeting beginning in 1993 and for one night preceding the SOFT Board meeting at the AAFS Annual Meetings, on approval by the membership at the 1992 business meeting.

I hope you will all take the next few months to inform yourselves on this topic. Please feel free to call me or your other Officers and Board members to discuss your opinion.

COMMUNIQUE

from Patricia Mohn-Monforte, S.O.F.T. Executive Coordinator
1013 Three Mile Drive, Grosse Pointe Park, MI 48230-1412 (Tel/FAX: 313-884-4718)

LETTERS, WE GET LETTERS... and lots of them from students and professionals seeking career information. With help from Barry Levine and any other resource I could ferret out, I have developed a simple listing of forensic toxicology-related professional groups, university programs, library resources and certification programs. If you have any resources to contribute to this list, please send contact information to me. For a copy of this list, send me a self-addressed, stamped envelope.

MEMBERSHIP APPLICATIONS: Revised forms are now being utilized for all SOFT membership applications. About 20 applications are currently active; 14 of which are under review by the Membership Committee. All applications are now processed through the SOFT Administrative Office. An applicant has 60 days to complete his/her application requirements - if you are asked to sponsor an applicant, please respond within the time allotted so you do not jeopardize their application. Sponsors' failure to respond or not sending materials to the Administrative Office are the reasons for most applications being delayed. Nineteen new members have been added in 1992 to date.

The MEMBERSHIP COMMITTEE chairman, Vina Spiehler, has recently advised her committee that completed applications will routinely be reviewed on a quarterly basis.

CHECK YOUR "STATUS SYMBOL" It was evident in reviewing the 1992 dues payments that many members think they are Full members when available SOFT records indicate they are Associate or Student Affiliate members. Did you know that . . .

ONLY FULL MEMBERS may vote

ONLY FULL MEMBERS may apply for retirement status

Requests for "RETIRED" status must be approved by the Board

You must APPLY for any CHANGE (Pat has required forms)

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NEW SALARY SURVEY

IN THE NEXT ISSUE OF

TOXTALK

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We have had some recent inquiries regarding a current salary survey. You may recall the last SOFT salary survey from December 1989. So, at this time we plan to include a new SOFT salary survey in the next issue of ToxTalk. Your participation may assist you in determining your financial future. This information has been utilized in negotiating improved members' salaries as well as determining appropriate compensation for new positions.

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EDUCATIONAL RESEARCH AWARD RECIPIENT ANNOUNCED

Bruce Walker, B.Sc., has recently received the ERA in the amount of \$800 for his research, "Matrix Effects in Forensic Samples Affecting the Analysis of Psychotropic Agents." A student member of SOFT, Mr. Walker is pursuing his M.Sc. through the University of Saskatchewan and under the direction of Dr. Joel Mayer at the Centre of Forensic Sciences in Toronto. Congratulations, Bruce!

SOFT is actively seeking candidates for the ERA. Contact Pat at the SOFT Administrative Office for application information (tel/FAX: 313-884-4718).

THANK YOU, 1992 E.R.A. CONTRIBUTORS (to date)

S BOGEMA	D BUSH	W DOVENSKY	R MCGARRY	H ELLENBERG
B OLSON	R PINDER	F RIEDERS	M SLADE	V SPIEHLER
I SUNSHINE	H WALLS	L HOWARD	W ANDERSON	Y CAPLAN
W DUNN	B LEVINE	M MCGEE	T SIEK	C SUTHEIMER
J VALENTOUR	S VONDRAK	J BENO	J BIDANSET	G CLEMENT
J MONFORTE	N RAO	C READING	R SHAW	G TOWNSEND
R LIN	W OTTINGER	J ROBB	R KELLY	F McCLURE
M HERNANDEZ	R MACLURE	D PREX		

SPECIAL TOPIC: DRIVING UNDER THE INFLUENCE OF DRUGS

Coordinated by H. Chip Walls

S.O.F.T. DUID COMMITTEE PREPARES QUESTIONNAIRE

The DUID committee (Norman Wade, Chairman, Chip Walls, Everett Solomons, Mark Lewis, Vickie Watts, and James Valentour) is utilizing this DUID issue of ToxTalk to distribute the committee questionnaire regarding the practice of DUID testing. The committee activity is aimed toward interfacing with the similar AAFS DUID Committee. The responses to this questionnaire will be correlated with the extensive database AAFS has collected on this subject.

QUESTIONNAIRE DEADLINE: SEPT. 15th

Mail to: H. Chip Walls, Tox Laboratory
Onondaga County Health Dept.
600 South State St, RM 706
Syracuse, NY 13202

or FAX: 315-435-5720
ATTN: H Chip Walls
Health Dept Tox Lab
Phone: (315) 02

This questionnaire will take some time and thought to complete. The only way to define the present state of practice is for you, the scientists in the laboratory, to provide the data. Information received will be tabulated and presented at the 1992 SOFT meeting.

Any questions? Contact Chip Walls at 315-435-3802.

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SELECTED CASE NOTES

CASE NO. 1: A 28 y.o.m. was involved in a high-speed, rear-end MVA. At the scene, the victim was combative and disoriented. He was not wearing a seat belt and was thrown into the windshield. He was treated at a local ER. He was arrested for DWAI and manslaughter.

Tox Results: BAC 0.04%

Blood: positive cocaine, EME, EEE, and Cocaethylene

Review of the ER records revealed the patient was treated with a nasal packing soaked in 4% aqueous solution cocaine HCl. The "blood for police" was drawn approximately 2.5 hours after surgical intervention.

CASE NO. 2: A 28 y.o.m. drove erratically on the wrong side of the road and hit two parked cars. Paramedics on the scene reported a very disoriented, emotionally unstable person. There were no apparent injuries. Asked if he were on drugs, he responded, "Yes, 'LOVEBOAT.'" The car smelled like ether.

Tox Results: Blood: PCP 30 ng/mL; no other drugs detected, including ethanol

CASE NO. 3: A 44 y.o.m. was involved in a single car MVA. No serious injuries were incurred. The arresting officer smelled alcohol on his breath. BrAc via an "Alcosensor" was 0.03%. In the officer's opinion, this individual was "in the bag," therefore, the officer requested a blood sample for drug screens. A marijuana pipe was found in his shirt pocket. The blood was drawn 2 hours after the breath test.

Tox Results: BAC 0.13%

Blood: diazepam 0.22 mg/L and nordiazepam 0.67 mg/L

1993 S.O.F.T. DUES NOTICES IN NEXT ToxTalk!!!

A SPECIAL "THANK YOU" TO ABBOTT LABORATORIES for their contribution toward the SOFT Hospitality Suite at the 1992 AAFS meeting in New Orleans.

DUID COMMITTEE

"State of the Practice" Survey for DUID Cases

1. Affiliation (check all that apply)

- a. [] Clinical/Hospital
b. [] Forensic
c. [] Independent Testing
d. [] Academic
e. [] Federal Law Enforcement
f. [] State/Local Law Enforcement
g. [] Other (please specify)

2. In DWI/DWAI cases please indicate your normal procedure:

- a. [] Perform only BAC determination.
b. [] Perform both BAC and routine drug screen.
c. [] Perform drug of abuse panel only if low BAC.

3. What specimens are normally received for testing?

- a. [] Urine only
b. [] Blood only
c. [] Urine and blood
d. [] Whole blood
e. [] %NaF
f. [] Other (please specify)

4. How many DUI cases do you process in a year?

- a. _____
b. Male _____%
c. Female _____%
d. Average DUI Breath/BAC _____ g%.

5. Please indicate racial distribution of DUI cases.

- a. Asian _____%
b. Black _____%
c. Caucasian _____%
d. Hispanic _____%
e. Other (please specify)

6. Based on your DUI cases, please indicate which age group (male and female) is the most likely to experience this charge?

Table with 3 columns: Male, AGE, Female. Rows a-h representing age groups from 16 to 71+.

7. How many DUID cases do you process per year?

a. _____

8. In positive drug cases, please indicate occurrence among males and females and drug most often abused.

- a. Male _____%
b. Female _____%
c. Male, abused drug _____
d. Female, abused drug _____

9. Please indicate racial distribution of DUID cases.

- a. Asian _____%
b. Black _____%
c. Caucasian _____%
d. Hispanic _____%
e. Other (please specify race)
_____%

"State of the Practice" Survey for DUID Cases

10. Based on your DUI cases, please indicate which age group (male and female) is the most likely to experience this charge?

Male	AGE	Female
a. []	16 to 20	[] j.
b. []	21 to 25	[] k.
c. []	26 to 30	[] m.
d. []	31 to 40	[] n.
e. []	41 to 50	[] p.
f. []	51 to 60	[] q.
g. []	61 to 70	[] r.
h. []	71 & older	[] s.

15. Routinely screened compounds include (check all that apply).

- a. [] Amphetamines
- b. [] Antidepressants
- c. [] Barbiturates
- d. [] Benzodiazepines
- e. [] Cannabinoids
- f. [] Cocaine/metabolites
- g. [] Methadone
- h. [] Methaqualone
- i. [] Opiates
- j. [] Phencyclidine
- k. [] Propoxyphene
- m. [] Other (please list)

11. Is there a population more at risk for drug versus alcohol cases?

16. If low BAC determines the use of a drug screen, what is the BAC cutoff level?

a. _____ g%

12. Type of DUI/DWI law.

- a. [] Per Se Law
- b. [] Implied Consent
- c. [] Ethanol and/or
- d. [] drugs
- e. [] Other (please specify)

b. Is drug screen at request of police officer?

[] YES [] NO

c. Do you have a Drug Recognition Expert Program in use?

[] YES [] NO

f. Does DUI/DWI law have provisions for "drug positive cases"?

[] YES [] NO

13. What are the boundaries of your jurisdiction?

- a. [] Federal
- b. [] State
- c. [] County
- d. [] City/Township

14. Please indicate your population base.

- a. [] >5,000,000
- b. [] 3,000,000 - 4,999,999
- c. [] 1,000,000 - 2,999,999
- d. [] 500,000 - 999,999
- e. [] 100,000 - 499,999
- f. [] < 100,000

17. Please indicate methods of screening (blood and urine).

Check all that apply.

Blood		Urine
a. []	EMIT	[] k.
b. []	FPIA	[] m.
c. []	GC	[] n.
d. []	GC/MS	[] p.
e. []	HPLC	[] q.
f. []	RIA	[] r.
g. []	TLC	[] s.
h. []	UV	[] t.
i. []	Other	[] u.

(Please specify)

18. If blood is assayed indirectly via an immunoassay, please give a brief description.

19. Please give a brief outline of your methodology for confirmation/quantitation.

20. Please list the five (5) most frequently encountered drugs in decreasing order of occurrence (a.= most frequent, e.= least frequent). Be more specific than class compounds (i.e. list Diazepam/Valium not benzodiazepine).

- a. _____
- b. _____
- c. _____
- d. _____
- e. _____

21. In your jurisdiction, what type of cases go to court most often?

- a. DWAI
- b. Serious Injury
- c. Fatals
- d. Other (please specify)

22. Which positive drug cases are the most contested in court?

- a. Benzodiazepine
- b. Marijuana
- c. Ethanol +
- d. Other (please specify)

23. What percent of drug positive cases plead to charges?

a. _____%

In these cases which drug is most often involved?

b. _____

24. What percent of drug positive cases require court testimony?

a. _____%

In these cases which drug is most often involved?

b. _____

25. Please give an example of a BAC/Drug concentration type of case and your interpretation.

26. Please list the more important literature sources you use or cite in court to support your interpretation.

Benzodiazepines

- a. _____
- b. _____
- c. _____

Cocaine

- d. _____
- e. _____
- f. _____

Ethanol

- g. _____
- h. _____
- i. _____

DUID COMMITTEE

"State of the Practice" Survey for DUID Cases

26. continued
Marijuana

j. _____
k. _____
m. _____

Others: _____

Comments: _____

Name/Telephone number of contact person for
your agency:

NAME: _____
TITLE: _____
TELEPHONE () _____
FAX: () _____

Abbreviations Used:

- BAC = Blood Alcohol Concentration
- DUI = Driving Under the Influence (alcohol)
- DUID = Driving Under the Influence of Drugs
- DWAI = Driving While Ability Impaired
- DWI = Driving While Intoxicated
- EMIT = Enzyme Immunoassay
- FPIA = Fluorescence Polarization Immunoassay
- GC = Gas Chromatography
- GC/MS = Gas Chromatography/Mass Spectrometry
- HPLC = High-Pressure Liquid Chromatography
- RIA = Radioimmunoassay
- TLC = Thin-layer Chromatography
- UV = Ultraviolet Spectrometry

Return completed form by: SEPT. 15
Telephone (315)435-3802 FAX (315)435-5720
FAX submissions must include:

TO: H. Chip Walls
435-3802

FOLD HERE ↓

Place
Stamp
Here

**H. Chip Walls
Toxicology Laboratory
Onondaga County Health Department
600 South State Street
Syracuse, New York 13202**

TAPE HERE



1. **RELATIONSHIP BETWEEN DRUG PLASMA CONCENTRATIONS AND PSYCHOMOTOR PERFORMANCE AFTER SINGLE DOSES OF ETHANOL AND BENZODIAZEPINES.** J Ingum, R Bjorklund, et al. *Psychopharmacology* 107:11-17. 1992.
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6. **QUANTITATIVE LIQUID CHROMATOGRAPHY, THERMOSPRAY/TANDEM MASS SPECTROMETRY (LC/TSE/MS/MS) ANALYSIS OF SOME THERMOLABILE BENZODIAZEPINES IN WHOLE-BLOOD.** A Verweij, P Lipman, and P Zweipfenning. *Forensic Science International* 54:67-74 1992.
7. **ALPRAZOLAM OVERDOSE: CLINICAL FINDINGS AND SERUM CONCENTRATIONS IN TWO CASES.** SR McCormick, J Nielsen, and P Jatlow. *J Clin Psychiat* 46:247-248 1985.
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12. **COCAINE AND CHEST PAIN: CLINICAL FEATURES AND OUTCOME OF PATIENTS HOSPITALIZED TO RULE OUT MYOCARDIAL INFARCTION.** MJ Gitter, SR Goldsmith, et al. *Annals of Internal Medicine* 115:#4:277-282 1991
13. **COCAINE USE, RISK TAKING, AND FATAL RUSSIAN ROULETTE.** PM Marzuk, K Tardiff, et al. *JAMA* 267:#19:2635-2637 1992.
14. **POTENTIATION OF COCAINE AND D-AMPHETAMINE TOXICITY WITH CAFFEINE.** RW Derlet, JC Teng, and TE Albertson. *AM J Emerg Med* 10:211-216 1992.
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16. **EFFECTS OF INTRAVENOUS COCAINE ON UTERINE BLOOD FLOW IN THE GRAVID BABOON.** MA Morgan, SL Silavin, et al. *Am J Obstet Gynecol* 164:1021-30 1991.
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23. **FACTORS REGULATING ETHANOL TOLERANCE.** AD Le. *Annals of Medicine* 22:265-8 1990.
24. **EFFECT OF USING ALCOHOLIC AND NON-ALCOHOLIC SKIN CLEANSING SWABS WHEN SAMPLING BLOOD FOR ALCONOL ESTIMATION USING GAS CHROMATOGRAPHY.** RA McIvor. *BJCP* 44:#6:235-6 1990.
25. **THE PHARMACODYNAMICS OF ETHANOL: EFFECTS ON PERFORMANCE AND JUDGMENT.** FM Gengo, C Gabos, et al. *J Clin Pharmacol* 30:748-754 1990.
26. **EFFECT OF CONCENTRATION OF INGESTED ETHANOL ON BLOOD ALCOHOL LEVELS.** RP Roine, T Gentry, et al. *Alcohol Clin Exp Res* 15:#4:734-738 1991.
27. **EDITORIAL -- ALCOHOL AND DRIVING.** PA Toseland. *Med Sci Law* 31:#3:185-86 1991.
28. **THE RESPONSE OF EVIDENTIAL BREATH ALCOHOL TESTING INSTRUMENTS WITH SUBJECTS EXPOSED TO ORGANIC SOLVENTS AND GASES. I. TOLUENE, 1,1,1-TRICHLOROETHANE, AND BUTANE.** R Gill, JD Ramsey, et al. *Med Sci Law* 31:#3:187-200 1991.

JOURNAL CLUB (CONTINUED)

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

29. **THE RESPONSE OF EVIDENTIAL BREATH ALCOHOL TESTING INSTRUMENTS WITH SUBJECTS EXPOSED TO ORGANIC SOLVENTS AND GASES. II. WHITE SPIRIT AND NONANE.** R Gill, JD Ramsey, et al. Med Sci Law 31:#3:201-213 1991.
30. **THE RESPONSE OF EVIDENTIAL BREATH ALCOHOL TESTING INSTRUMENTS WITH SUBJECTS EXPOSED TO ORGANIC SOLVENTS AND GASES. III. WHITE SPIRIT EXPOSURE DURING DOMESTIC PAINTING.** R Gill, JD Ramsey, et al. Med Sci Law 31:#3:214-220 1991.
31. **STUDY INTO THE ABILITY OF PATIENTS WITH IMPAIRED LUNG FUNCTION TO USE BREATH ALCOHOL TESTING DEVICES.** PJ Gomm, MD Osselton, et al. Med Sci Law 31:#3:221-225 1991
32. **THE EFFECTS OF SALBUTAMOL ON BREATH ALCOHOL TESTING IN ASTHMATICS.** PJ Gomm, MD Osselton, et al. Med Sci Law 31:#3:227-228 1991
33. **TOP TEN DEFENCE CHALLENGES AMONG DRINKING DRIVERS IN SWEDEN.** AW Jones. Med Sci Law 31:#3:229-237 1991
34. **DOES A BLOOD ALCOHOL LEVEL OF 0.15 OR MORE IDENTIFY ACCURATELY PROBLEM DRINKERS IN A DRINK-DRIVER POPULATION?** AJ Gijssbers, A Raymond, and G Whelan. The Medical Journal of Australia 154:448-452 1991.
35. **SERUM DETERMINATIONS IN TOXIC ISOPROPRANOL INGESTION.** D Jerrard, V Verdile, et al. Am J Emerg Med 10:200-202 1992.
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38. **CRITERIA FOR USE OF FENTANYL CITRATE, SUFENTANIL CITRATE, AND ALFENTANIL HYDROCHLORIDE.** DUE Criteria Clinical Pharmacy 10:635-637 1991
39. **PHARMACOLOGICAL MANAGEMENT OF CANCER PAIN.** SA Schug, R Dunlop, and D Zech. Drugs 43:#1:44-53 1992.
40. **A SIMPLE, RAPID METHOD FOR THE SIMULTANEOUS DETERMINATION OF MORPHINE AND ITS PRINCIPAL METABOLITES IN PLASMA USING HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY AND FLUOROMETRIC DETECTION.** PA Glare, TD Walsh, and CE Pippenger. Therapeutic Drug Monitoring 13:226-232 1991.
41. **HIGH-PERFORMANCE LIQUID CHROMATOGRAPHIC DETERMINATION OF MORPHINE AND ITS 3- AND 6-GLUCURONIDE METABOLITES: IMPROVEMENTS TO THE METHOD AND APPLICATION TO STABILITY STUDIES.** RW Milne and RL Nation. Journal of Chromatography 565(1991)457-464
42. **SIMPLE METHOD FOR THE DETERMINATION OF MORPHINE AND ITS ACTIVE GLUCURONIDE METABOLITE IN HUMAN PLASMA BY HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY WITH ELECTROCHEMICAL DETECTION.** JL Mason, SP Ashmore, and AR Aitkenhead. Journal of Chromatography 570(1991) 191-197.
43. **DIRECT DETERMINATION OF CODEINE, NORCODEINE, MORPHINE, AND NORMORPHINE WITH THEIR CORRESPONDING O-GLUCURONIDE CONJUGATES BY HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY WITH ELECTROCHEMICAL DETECTION.** C. Verwey-Van Wissen and PM Koopman-Kimenai. Journal of Chromatography 570(1991)309-320.
44. **DETERMINATION OF BUPRENORPHINE BY HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY WITH FLUORESCENCE DETECTION: APPLICATION TO HUMAN AND RABBIT PHARMACOKINETIC STUDIES.** S Ho, J Wang, and W Ho. Journal of Chromatography 570(1991)339-350.
45. **DETERMINATION OF MORPHINE AND 6-ACETYLMORPHINE IN PLASMA BY HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY WITH FLUORESCENCE DETECTION.** DA Barrett, PN Shaw, and SS Davis. Journal of Chromatography 570(1991)135-145.
46. **AMIODARONE AN OVERVIEW OF ITS PHARMACOLOGICAL PROPERTIES, AND REVIEW OF ITS THERAPEUTIC USE IN CARDIAC ARRHYTHMIAS.** J Gill, RC Heel, and A Fitton. Drugs 43:#1:69-110 1992.
47. **GENETIC ASPECTS OF DRUG DISPOSITION AND THERAPEUTICS.** RJ Guttendorf and PJ Wedlund. J Clin Pharmacol 32:107-117 1992.
48. **THE DISPOSITION OF PARACETAMOL AND THE ACCUMULATION OF ITS GLUCURONIDE AND SULPHATE CONJUGATES DURING MULTIPLE DOSING IN PATIENTS WITH CHRONIC RENAL FAILURE.** U Martin, RM Temple, et al. Eur J Clin Pharmacol 41:43-46 1991.
49. **CLINICAL PHARMACOKINETICS OF ANXIOLYTICS AND HYPNOTICS IN THE ELDERLY THERAPEUTIC CONSIDERATIONS (PART I).** DJ Greenblatt, JS Harmatz, and RI Shader. Clin Pharmacokinet 21:#3:165-177 1991.
50. **DIAGNOSIS AND MANAGEMENT OF PHENCYCLIDINE INTOXICATION.** HT Milhorn, Jr. AFP 43:#4:1293-1302 1991.
51. **ESTIMATING THE RATE OF THIOFENTAL BLOOD-BRAIN EQUILIBRATION USING PSEUDO STEADY STATE SERUM CONCENTRATIONS.** PO Maitre, M Buhner, et al. Journal of Pharmacokinetics and Biopharmaceutics 18:#3:175-187 1990.
52. **EFFECT OF NEUROTRAUMA ON HEPATIC DRUG CLEARANCE.** BA Boucher, DA Kuhl, et al. Clin Pharmacol Ther 50:487-97 1991.

CASE NOTES

SUBMITTED BY: Donald R. A. Uges, Ph.D., Pharm.D., Laboratory for Clinical and Forensic Toxicology and Drug Analysis, State University Hospital, The Netherlands.

During a period of about 4 years, 3 people (a 59-yr-old male, 39-yr-old male and his 68-yr-old mother) died in different cities in the north of Holland. Each of their general physicians believed that his patient died a natural death (heart attack). Several months after the last death, these cases were connected to each other, and 2 bodies were exhumed.

In the stomach contents the equivalent of approximately 1 bottle of Seresta Forte (25 tablets, 50 mg oxazepam) was found. The hypothesis was that the friend (a nurse) of these victims administered the tablets and, when the persons were fully unconscious, killed them, possibly by suffocation with a plastic bag or pillow.

The police asked me whether it would be possible for someone to administer that amount of tablets without attracting attention. Initially, I thought "not possible," but then I used my criminal fantasy. Perhaps all these tablets could be dissolved in the warm whiskey or hot coffee of a cup of Irish coffee. After testing, it seemed this was not possible because the tablet powder sunk to the bottom of the cup. Then I found the solution: the powder of 25 crushed Seresta Forte tablets could be easily mixed with the whipped cream on the top of the Irish coffee without any visual perception or taste. This means that the drug could administered with any whipped cream.

CONCLUSION: It is better to say "no" to a piece of pie with whipped cream than "no" to the questions, "Could it be possible?"

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N.I.D.A. NEWS

Someone put ToxTalk on NIDA's (National Institute on Drug Abuse) mailing list. Information included in the material coming across the Editor's desk follows:

NIDA GRANT FOR SYSTEMATIC RESEARCH ON USE OF HAIR TESTING to develop procedures and safeguards, scientific basis for routine use in workplace situations, etc. In fiscal year 1993, NIDA expects to support two to three new grants in the following specific areas of interest:

a) pharmacological studies exploring drug absorption, distribution and metabolic reaction in hair as well as effects of environmental exposure and hair washing or treatment procedures.

b) analytical studies to evaluate or develop and validate methods for hair analysis

c) cost-benefit ratio studies comparing drug testing using hair -vs- urine/blood

Application deadlines: October 1, 1992 and February 1, 1993 Contact Robert L. Stephenson II, Div. of Applied Research, NIDA, Rm 9A-53, 5600 Fishers Ln, Rockville, MD 20857 (tel: 301-443-6710)

NIDA RESEARCH MONOGRAPHS:

#61 - "Cocaine Use in America: Epidemiologic and Clinical Perspectives." (ADM87-1414), 1985, Eds: N Kozel and E Adams

#100 - "Drugs in the Workplace: Research and Evaluation Data, Vol II" (ADM 91-1730) Eds: S Gust et al

#108 - "Cardiovascular Toxicity of Cocaine: Underlying Mechanisms" (ADM 91-1767) Ed: P Thadani

#110 - "Epidemiology of Cocaine Use and Abuse." (ADM 91-1787) Eds: S Schober and C Schade

#114 - "Methodological Issues in Controlled Studies on Effects of Prenatal Exposure to Drugs of Abuse." (ADM 91-1837) Eds: M Kilbey and K Asghar

OTHER NIDA PUBLICATIONS:

"Laboratory Inspector's Training Manual (ADM 91-1796) - NLCP

"Putting Hair to the Test: Researchers are Examining Whether Hair Analysis Can Be Used Reliably and Accurately to Detect Drug Use" by A Keegan. NIDA NOTES Winter 1991-1992, pages 10-12.

Single copies of NIDA publications are available FREE from the National Clearinghouse for Alcohol and Drug Information, telephone: 1-800-729-6686 (toll free).

ELMER GORDON OPEN FORUM: AN OPPORTUNITY FOR INFORMAL DIALOGUE

Congratulations to Dick Prouty who is honeymooning in Alaska with his lovely bride, Audrey.

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CAREER OPPORTUNITIES

CHIEF TOXICOLOGIST - Ph.D. ABFT
cert/eligible desired for statewide ME forensic tox lab. Contact: Dr. John Butts, Chief M.E., Office of the Chief Medical Examiner, Chapel Hill, SC 27599-7580. Tel: 919-966-2258.

CHIEF FORENSIC TOXICOLOGIST - Ph.D./M.D.
with 5 yrs exp and ABFT cert/eligible recommended, grant funded \$72-80K salary plus airfare & shipping. Letter, CV + 3 refs to: Guam Police Dept, Special Programs Sections, 287 W O'Brien Dr., Agana, Guam 96910. FAX 671-472-9704.

FORENSIC LAB MANAGER - Ph.D. or MS/BS with extensive experience, regulatory knowledge and witness experience. Contact Steve Perna, MetPath, Inc., One Malcolm Ave, Teterboro, NJ 07608. (Tel: 201-393-5211)

TECHNICAL DIRECTOR - Ph.D./MS for expanding NIDA lab, Wausau, WI. Contact Susan Neren, Gary Bell Associates (201-670-4900 FAX: 201-670-4940)

TECHNOLOGIST - BS/MS + 1 yr experience including GC/MS. NYC license/eligible. Contact Steve Perna, MetPath (see above).

ANALYTICAL CHEMIST - Ph.D./M.S., trouble shooting & methods development expertise, Nashville, TN. Contact S. Neren (above).

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DON'T WAIT UNTIL THE LAST MINUTE!

REGISTER EARLY FOR THE 1992 S.O.F.T. ANNUAL MEETING

PROFESSIONAL CALENDAR

CALIFORNIA ASSOCIATION OF TOXICOLOGISTS quarterly meetings and workshops. For information contact Susan Knight, CAT V.P., 18457 Santa Carlotta, Fountain Valley, CA 92708 (phone/fax: 714-965-9854) AUG 7-8: IA Workshop, Santa Clara, CA; NOV 6-7 QC Workshop, Garden Grove, CA.

"PROFESSIONAL PRACTICE IN TOXICOLOGY: A REVIEW" June 21-25, 1992 sponsored by AACC and NACB at the University of Cincinnati. Contact Joanna Glenn, AACC, 2029 K Street, NW, 7th floor, Washington, DC 20006 or call SOFT member Donald Cannon, Ph.D., 513-745-1359, FAX 513-745-1321

CSFS ANNUAL CONFERENCE - August 20-25, Halifax, Nova Scotia, Canada. Contact Fredricka Monti, Executive Secretary, CSFS, Suite 215, 2660 Southvale Crescent, Ottawa, Ontario, Canada K1B 4W5 (tel: 613-731-2096)

* S.O.F.T. ANNUAL MEETING - OCTOBER 12-17, 1992 - HARTFORD, CONNECTICUT: For *
* further information, contact C. Neal Reading, Ph.D., P.O. Box 1689, Hartford, CT *
* 06144 (telephone: 203-566-4258) *

"FORENSIC ENTOMOLOGY SEMINAR" - December 9, Baltimore, MD. C.E. seminar sponsored by the Entomological Society of America. Contact Betty Cox, 232 E. University Pkwy, Baltimore, MD 21218 (Phone/FAX 410-243-5943)

A.A.F.S. ANNUAL MEETING - FEBRUARY 15-20, 1993 - BOSTON

Future SOFT meeting sites: 1993 - SOFT/CAT Phoenix (V. Watts)
1994 - SOFT/TIAFT Tampa (H. McCurdy)
1995 - 25th Anniversary Baltimore (Y. Caplan)



SOFT 1992 MEETING
PRELIMINARY PROGRAM

Radison Convention Center
Cromwell, Connecticut
13 to 17 October 1992

DAY	DATE	TIME	ACTIVITY
TUES	13TH	0800-1700	SEMINAR- "Alcohol testing in the transportation workplace."
WED	14TH	0800-1700	REGISTRATION
		0800-1700	WORKSHOP - "The PC in the Toxicology lab"
		0800-1200	WORKSHOP - "NIDA certification inspections."
		1300-1700	WORKSHOP - "Training and Professional development in Toxicology."
		1800-1900	WELCOMING RECEPTION (included in registration)
THUR	15TH	0800-1500	REGISTRATION
		0800	EXHIBITS OPEN
		0800-1000	PLATFORM SESSION 1
		1000-1020	REFRESHMENTS
		1015-1200	PLATFORM SESSION 2
		1200-1330	LUNCH (ON OWN)
		1330-1500	PLATFORM SESSION 3
		1500-1520	REFRESHMENTS
		1515-1700	PLATFORM SESSION 4
		1800-2200	DINNER AND MURDER ON THE RIVER (OPTIONAL)
		2200-	President's information exchange
FRI	16th	0800-1200	REGISTRATION
		0800-1000	PLATFORM SESSION 5
		1015-1200	ANNUAL BUSINESS MEETING
		1200-1400	AWARDS LUNCHEON (included in registration)
		1400-1700	PLATFORM SESSION 6
		2100-	President's information exchange
SAT	17TH	0500-1800	DEEP SEA FISHING (OPTIONAL)
		0800-1300	WORLD CLASS GOLF (OPTIONAL)

DEADLINES TO REMEMBER: AUGUST 1 - CALL FOR PAPERS
OCTOBER 2 - REGISTRATION (\$20 LATE FEE THEREAFTER)
SEPTEMBER 21 - HOTEL REGISTRATION



**SOFT ANNUAL MEETING 1992
WORKSHOPS AND SEMINAR**

SEMINAR: "Alcohol Testing in the Transportation Workplace."

The *Omnibus Transportation Employee Testing Act of 1991* has directed the Secretary of Transportation to establish a program which conducts preemployment, reasonable suspicion, random and post accident testing of all personnel engaged in interstate commerce who are responsible for safety-sensitive functions (as determined by the Administrator) for the use in violation of Federal regulation, of alcohol or controlled substances

TUESDAY
10/13
8 a.m. to
5 p.m.

Procedures for testing are to be established by Federal regulations. Once again the science of Forensic Toxicology will come under expanded regulatory supervision and it is important that SOFT take an active roll in determining how these regulations are formulated. This seminar will provide a forum for examining the issues and providing a balanced view of the possible solutions. Your attendance is important as your input could be crucial.

WORKSHOP: "The PC in the Toxicology Laboratory."

The personal computer has grown in power and versatility to where it now rivals and in some instances surpasses the main frame computer. This development has been coupled with an ever decreasing cost of the hardware and an increase in the versatility and ease of use of the software. This workshop will explore the options available to the Toxicology Laboratory in terms of off the shelf equipment and software which allow us to do our work faster, smarter and at less cost.

WEDNESDAY
10/14
8 a.m. to
5 p.m.

WORKSHOP: "NIDA certification inspections."

NIDA certification has become increasingly important for many laboratories. The stringent requirements of this certification require an exact attention to detail. NIDA inspections have shown that several problems are common to many labs and that often the same or very similar mistakes are repeated. This workshop, presented by NIDA inspectors, will highlight those areas of common and repeated problems.

WEDNESDAY
10/14
8 a.m. to
noon

WORKSHOP: "Training and professional development in Toxicology."

The *Forensic Toxicology Laboratory Guidelines* adopted by SOFT and the AAFS Toxicology Section state that the director will be responsible for both the training and documentation of training of laboratory personnel. The California Association of Toxicologists (CAT) has initiated efforts to prepare a manual that can be used in training of new entrants into our profession. Drawing on this work and adding some new perspectives, this workshop will present some concepts that need to be incorporated into a program for training new employees. Topics will include the philosophy and techniques for continuing professional development in the toxicology laboratory, components of and documentation for on the job training, sample collection, preservation and processing; mass spectrometry and problems of a medical examiner toxicology laboratory. At the conclusion of this workshop participants should have many ideas for addition to, revision of or development of a training program for use in their laboratory.

WEDNESDAY
10/14
1 p.m. to
5 p.m.



SOCIETY OF FORENSIC TOXICOLOGISTS, INC
1992 ANNUAL MEETING

OCTOBER 13-17
RADISON CONFERENCE CENTER
CROMWELL, CONNECTICUT

REGISTRATION FORM

NAME _____ DEGREE _____
 AGENCY/CO _____
 ADDRESS _____
 CITY _____ STATE _____ ZIP _____
 TELEPHONE () _____ - _____ CURRENT SOFT MEMBER YES () NO ()

	SOFT MEMBER	NON- MEMBER	TOTAL ENCLOSED
MEETING REGISTRATION: includes Welcome Reception and Awards Luncheon: Beef(); Fish(); Chicken(). Chicken served unless otherwise noted above.	\$45	\$65	\$ _____
SEMINAR: <i>Alcohol Testing in the Tues 10/13 Transportation workplace.</i>	30	40	_____
WORKSHOP: <i>The PC in the Toxicology Lab.</i> Wed 10/14 all day	50	60	_____
WORKSHOP: <i>NIDA certification inspections.</i> Wed 10/14 am	30	40	_____
WORKSHOP: <i>Training and professional Wed 10/14 pm development in Toxicology.</i>	30	40	_____
STUDENT REGISTRATION: includes Welcome Reception and Awards Luncheon. Make selection under Meeting Registration above.			\$20 _____
EXTRA TICKETS: AWARDS LUNCHEON			20 _____
LATE FEE: for all registration after Friday, 10/2/92			20 _____
TOTAL ENCLOSED: check or money order, <u>US FUNDS ONLY</u>			\$ _____

All workshops have limited enrollment, are subject to cancellation due to insufficient enrollment, and require pre-registration. Meeting registration at the the door will be accepted as space allows, but materials are not guaranteed.

The hotel is the Radison Conference Center, 100 Berlin Road, Cromwell, CT. 06416, 203-635-2000, Deadline for reservations is September 21, 1992.

Send completed registration form and payment, made out to SOFT, to:

Neal Reading
SOFT REGISTRATION
3 Tanner Street
Manchester, CT. 06040 (Phone 203-649-4896)



S.O.F.T. ACTIVITY INTERESTS
October 14-16, 1992

The Radisson Hotel is located at Cromwell, just south of Hartford and will require car or travel arrangements to visit many of the areas of interest in Connecticut. Please indicate your interests in the following possibilities. If a spouse or guest plans to attend with you, please indicate as we will try to arrange specific activities during the day. Fees vary.

MUESUMS AND HISTORICAL SITES, SHOPPING	SELF	GUEST
New Britain Museum Of American Art	_____	_____
Hartford Wadsworth Atheneum (art)	_____	_____
Hartford Mark Twain House	_____	_____
Harriet Beecher Stowe Home	_____	_____
Area Malls: Crystal, West Farms etc.	_____	_____
Wethersfield: Old Wethersfield (shops)	_____	_____
Restaurants and Homestead Museum	_____	_____
Mystic: Whaling Seaport Village	_____	_____
Mystic Marine Aquarium	_____	_____
Mystic Town shops and antiqueing	_____	_____
David Gillette Castle, (Sherlock Holmes)	_____	_____
 CONNECTICUT RIVER EXPERIENCE		
Essex Railroad and /or River Trips (Lunch, Dinners, Shopping)	_____	_____
River Cruises: Luncheons, Dinners	_____	_____
Murder Mystery dinner cruise	_____	_____
 GAMBLING		
Plainfield dog track	_____	_____
Hartford Jai Alai	_____	_____
Ledyard casino gambling	_____	_____
 SPORTS:		
Deep Sea Fishing (Group Charter)	_____	_____
Golf	_____	_____
Par 3 course available		
Payers Club - site of the Greater Hartford open (own clubs)		
Tennis: (own racket)	_____	_____
Outdoor and indoor courts		
Tri-Town Sport (one mile from hotel)	_____	_____
Aerobics, Nautilus, ice skating rink (own Skates) basketball, volleyball, saunas, lap pool		
Radisson: Pool, nautilus, sauna, jacuzzi		

I/We will be driving____,renting a car____,without a vehicle_____.

Name: _____

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Guest name: _____

Willing to drive. _____

Group day trips. _____

Will go it alone. _____

SOCIETY OF FORENSIC TOXICOLOGISTS, INC.

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OCTOBER 12-17, 1992
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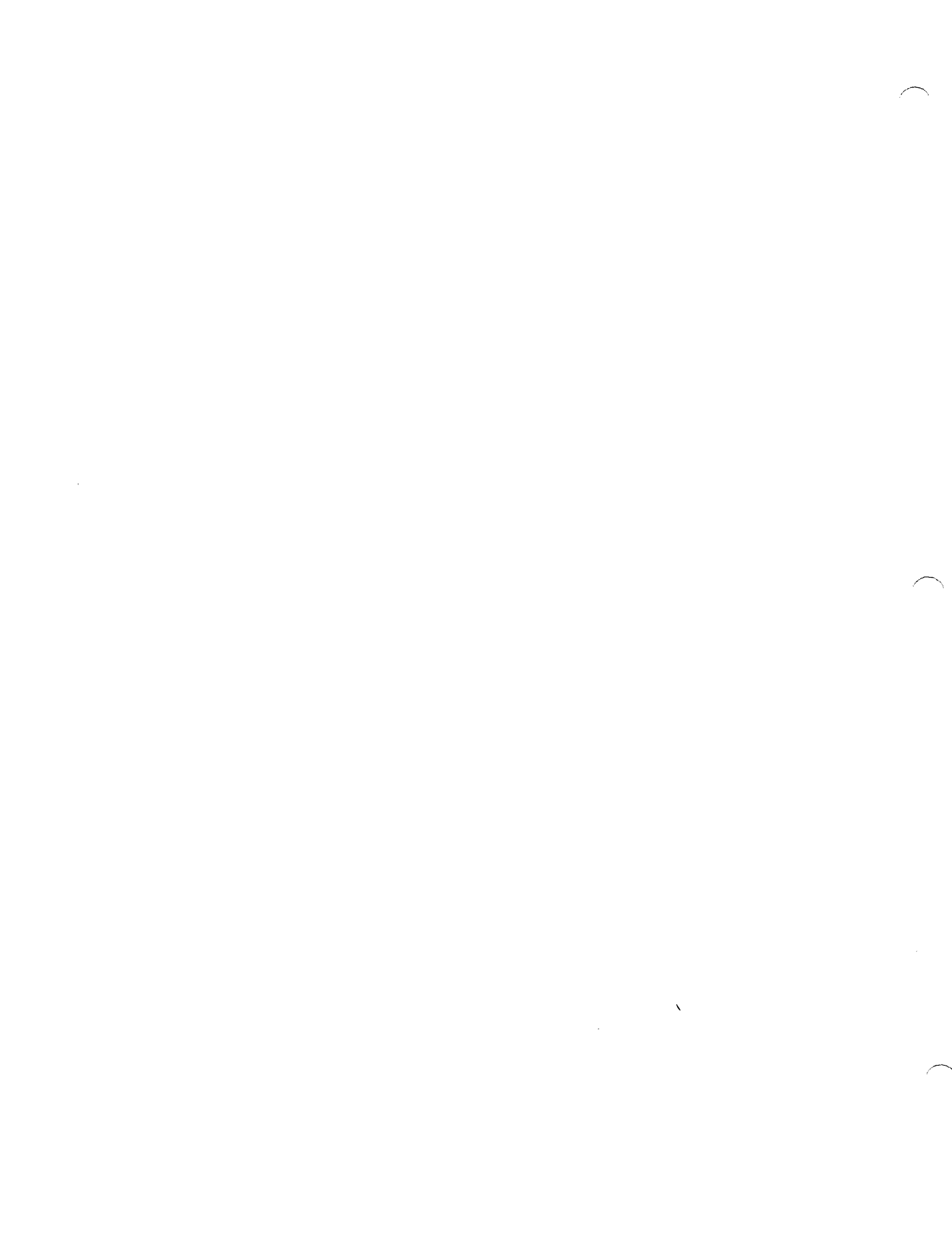
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M E M O R A N D U M

DATE: July 17, 1992
TO: Editor Monforte
FROM: Patricia Mohn-Monforte, ToxTalk, Publications Editor
RE: JUNE 1992 TOXTALK - PRODUCTION REPORT

388 copies of the MARCH 1992 issue of TOXTALK were distributed 6/22/92

BULK RATE: 356 U.S. (346 members & applicants, 1 comp. (AAFS)
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I have about \$7 in 1st class postage stamps left. Each issue spends approximately \$50 for 1st class postage, mostly for non-US mailings. I am requesting an additional \$150 for postage.

Plans for Sept and Dec issues enclosed. We need material and ideas for future issues.

c: President Beno, Treasurer Lewis

