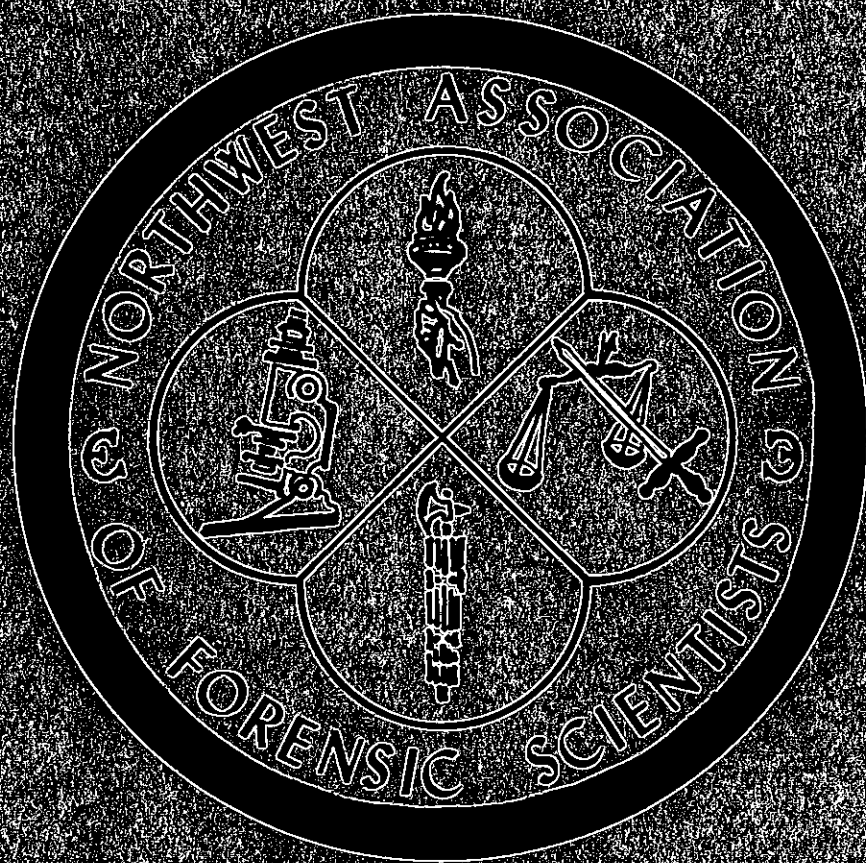


# THE NEWSLETTER of



June 1984

Vol 10 No 2

NORTHWEST ASSOCIATION OF FORENSIC SCIENTISTS

Executive Committee

President . . . . . Don MacLaren  
Vice President . . . . . Rich Brooke  
Secretary-Treasurer . . . . . Lionel Tucker  
Executive Committee Member-at-Large . . . . . Wally Baker  
Past President . . . . . Ken Konzak

Committees

Ethics . . . . . Arnold Melnikoff  
Membership . . . . . Robert Sager  
Publication . . . . . George Matsuda  
Historical . . . . . Floyd Whiting  
Technical Advancement . . . . . Mike Grubb  
Continuing Education . . . . . Beth Carpenter

Upcoming Meeting

FALL 1984

October 3, 4 & 5

Holiday Inn  
Medford, Oregon

Program Chairman:  
Brad Talyea  
650 Royal Ave., Suite 11  
Medford, OR 97501  
(503) 776-6118

BUSINESS MEETING  
OF THE  
NORTHWEST ASSOCIATION OF FORENSIC SCIENTISTS

MAY 4, 1984

COEUR D'ALENE, IDAHO

- I. MEETING WAS CALLED TO ORDER BY PRESENT DON MAC LAREN.
- II. THE MINUTES OF THE FALL MEETING IN VANCOUVER WERE ADOPTED AS PUBLISHED IN THE NEWSLETTER.
- III. TREASURER'S REPORT: BY LIONAL A. TUCKER, JR.; OCTOBER 5, 1983 TO JUNE 4, 1984

	<u>CREIT</u>	<u>DEBIT</u>
FUNDS FORWARDED; CHECKING ACCOUNT	\$3,000.31	
DUES COLLECTED	\$2,358.49	
INTEREST CHECKING ACCOUNT	\$213.74	
RETURN CHECK FROM A.C.S.	\$1,213.11	
MISCELLANEOUS	\$100.00	
SERVICE CHARGE; CHECKING ACCOUNT		\$51.75
TRANSPORTATION FOR WORKSHOP SPEAKERS AT COEUR D'ALENE		\$924.00
SPEAKERS FEES		\$200.00
ADVANCE MEETING - COEUR D'ALENE		\$700.00
A.C.S. EDUCATION MATERIAL FEES		\$1,318.50
MISCELLANEOUS		\$100.00
NEWSLETTER		\$500.00
DREYFUS FUND		\$1,000.00
TOTALS:	<u>\$6,885.65</u>	<u>\$4,794.25</u>
AMOUNT IN MONEY MARKET ACCOUNT:		\$4,547.40
TOTAL AMOUNT IN TREASURY:		<u>\$6,638.80*</u>

\* UNAUDITED

IV. COMMITTEE REPORTS:

A. CONTINUING EDUCATION - RICH BROOKS REPORTING FOR BETH CARPENTER

1. MATERIALS HAVE BEEN RE-ORDERED FROM THE A.C.S.: TAPES ON GC, TLC, STATISTICS AND ATOMIC ABSORPTION WILL BE AVAILABLE. SO FAR, NO ONE HAS TAKEN ADVANTAGE OF DEA'S OFFER TO LOAN TAPES ON GC/MS, NMR AND ORGANIC SYNTHESIS.

2. WORKSHOPS IN COMPUTERS, STATISTICS AND MC CRONE ARE BEING CONSIDERED TO BE HELD IN CONJUNCTION WITH REGULAR MEETINGS. ANOTHER CONSIDERATION IS TO USE THE R.C.M.P. FACILITY TO HOLD WORKSHOPS IF WE HAVE ANOTHER JOINT MEETING WITH THE CANADIAN SOCIETY. ANY OTHER SUGGESTIONS WOULD BE APPRECIATED.

B. LIBRARY - JAMES GASKILL

1. NEED MORE RECOMMENDATIONS FOR BOOKS TO PURCHASE. AT PRESENT WE HAVE TWO BOOKS: (1) GLASS MANUAL; (2) ANIMAL SPERMATOCYTES. THE COMMITTEE IS AUTHORIZED \$1,000 FOR BOOK PURCHASES.

2. IT WAS RECOMMENDED THAT THE FBI SYMPOSIUM ON ELECTROPHORESIS AND SEX CRIMES BE VIDEO TAPED. TOM JENKINS WILL TAKE CARE OF THE DETAILS.

C. PUBLICATION COMMITTEE - NO REPORT

1. WE NEED SUBMISSIONS FOR THE NEWSLETTER TO KEEP IT GOING. ANYTHING GOES: RECEIPTS, GOSSIP (ONLY IF IT'S JUICY) AND OFCOURSE THINGS OF "SCIENTIFIC NATURE."

D. EXECUTIVE COMMITTEE REPORT

1. VENDOR FEES WILL BE SET BY PROGRAM COMMITTEE CHAIRPERSON TO INCLUDE THE REGISTRATION FEE AND FOOD.

2. THREE BY-LAWS CHANGES WILL BE PROPOSED TO THE MEMBERSHIP AT THE FALL MEETING FOR APPROVAL.

A. ESTABLISH CONTINUING EDUCATION COMMITTEE AS A STANDING COMMITTEE.

B. CHANGE OFFICE OF VICE PRESIDENT TO PRESENT-ELECT.

C. HOLD FALL MEETINGS IN WASHINGTON OR OREGON.

3. A DISCUSSION ON HAVING ONLY ONE MEETING A YEAR WITH A WORKSHOP TO TAKE THE PLACE OF THE OTHER MEETING WAS HELD. BESIDES NOT BEING ABLE TO SUPPORT SUCH WORKSHOPS, MANY LIKE THE IDEA OF TWO MEETINGS A YEAR FOR THE DISSEMINATION OF INFORMATION.

4. IR WAS DECIDED TO SEND RESULTS OF THE PROFICIENCY SAMPLES TO THE LABORATORY DIRECTORS.
  5. WALLY BAKER IS DEVELOPING A FORMAT FOR ABSTRACTS TO THE NEWSLETTER.
  6. DUTIES FOR RESPECTIVE PROGRAM CHAIRPERSONS ARE IN THE PROCESS OF BEING WRITTEN FOR EACH COMMITTEE.
- E. TECHNICAL ADVANCEMENT COMMITTEE - NO REPORT
- F. HISTORICAL COMMITTEE - NO REPORT, HOWEVER BRAD HAS VOLUNTEERED HIS SERVICES AS A MEMBER.
- G. MEMBERSHIP COMMITTEE - BOB SAGER REPORTED THAT WAYNE PIERCE AND GLEN VANIMAN HAVE RESIGNED THEIR MEMBERSHIPS.
- H. OLD BUSINESS - NONE
- I. NEW BUSINESS
1. PREPARATIONS FOR THE FALL MEETING IN MEDFORD, OREGON ARE IN PROGRESS. PROPOSED DATED: OCTOBER 3-5, 1984, AT THE HOLIDAY INN, \$33.00 SINGLE; \$38.00 DOUBLE. THERE WILL BE AN ARSON WORKSHOP ON THE 3RD; 4TH AND 5TH: PAPERS.
  2. SPRING MEETING 1985 JOINT MEETING WITH THE SOUTHWEST ASSOCIATION IN DENVER, COLORADO: DATES: MAY 2-4, 1985; HOTEL: WRITERS MANOR; COST: \$48.00 DOUBLE OR SINGLE. THE REGISTRATION WILL INCLUDE LUNCH, BANQUET AND THREE CONTINENTAL BREAKFASTS. PROGRAM CHAIRPERSONS: NWAFS: K. BROWN SWAFS: D. LYMAN
  3. THE ASSOCIATION APPRECIATES THE WORK OF WALLY, PAM AND BOB FOR PUTING THIS MEETING TOGETHER.
  4. ALSO, MANY THANKS TO GEORGE MATSUDA FOR TAKING CARE OF THE NEWSLETTER.

The following excerpts are from PICOGRAM, a publication of the Washington State Patrol Crime Laboratory edited by Kerstin Gleim and Chris Sewell in Seattle. The excerpts are reprinted here with the individual contributor's permission.

CHEMISTRY

From the Kennewick Lab:

Small white single-scored tablets, very rounded, which look like phenobarbital tablets were found to contain pyridoxine (Vitamin B<sub>6</sub>). Detection was by UV. Pyridoxine's UV spectrum is very sensitive to pH changes.

1-Cyclohexyl-2-methylaminopropane or propylhexadrine (non-controlled) has been identified via IR in light tan powder. This compound is very similar to methamphetamine in structure and has been seen before in Spokane. See attached sheet. See MICROGRAM, Vol. XV, No. 4 (April 1982), p. 51-58 for information on methods of analysis.

--Gary Mong

From the Seattle Lab:

Dihydroxyphenylalanine (DOPA) was found in two vials of white powder (1.5 grams net total). Tentative identification was via IR directly (KBr pellet) as compared to the literature. See attached sheet for further testing information. According to one pharmacist, a possible attraction for this compound is its somewhat vague reputation as an aphrodisiac.

Quinine was found as a white powder in clear capsules. See drawing of markings. Tentative identification was via IR (as compared to the literature) on the chloroform extract of the basic (in NaOH) solution.

2184

--Chris Sewell



From the Everett Lab:

Temazepam has been seen again as "Restoril" (aqua and deep red capsules). This drug is controlled as Schedule IV federally, but is not controlled in Washington at this time. This status is being reviewed currently by the Board of Pharmacy.

--Robin Bussoletti

A brown compressed material, somewhat similar in appearance to opium gum, was found to contain HEROIN. It was identified via IR of a chloroform extract of a 3N HCl solution of the material. An IR of the brown material itself (see attached spectra) indicates it to be relatively pure; quantitation by DEA indicated a purity of 40% heroin HCl. In spite of this, only gold bromide crystals were obtained directly on this material.

--Ed Suzuki

From the Tacoma Lab:

LSD was identified on small reddish-brown pasta stars.

White with green speckled oblong tablets (marked "C-C 135") were found to contain PHENDIMETRAZINE. Identification was by IR and microcrystals.

HEROIN was confirmed in a submission of 58 individually wrapped dark brown chunks weighing a net total of approximately 36 g. Identification was via IR on the chloroform extract of a 3N HCl solution.

--Jean Johnston

From the Spokane Lab:

A white powder exhibit sold as cocaine was found to contain ephedrine, dyclonine, procaine, and lidocaine. Confirmation was by GC-MS.

--Daryl Brender

#### CRIMINALISTICS

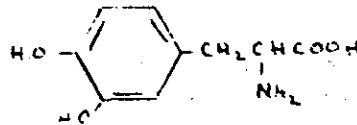
From the Seattle Lab:

For an excellent and quick method to make 1:1 control shoe prints on transparent film, see Petraco, Resua, and Harris, "A Rapid Method for the Preparation of Transparent Footwear Test Prints," Journal of Forensic Sciences, Vol. 27, No. 4 (Oct. 1982), p.935-937. We have been successfully using this method for about a year. We have found this method shows greater detail than either powder or grease test prints. Also, this method usually gives more accurate prints than 1:1 photographic transparencies of a shoe sole because shoe soles are rarely flat and, therefore, photographs are distorted. This method is also much quicker than photographic techniques. The Kodak roller, transport clean-up film is available from VWR Graphics as item #KK166-2303.

--Cindi Jay

DESCRIPTION and AVAILABILITY

Dihydroxyphenylalanine(DOPA)

COLOR TESTS

MARQUIS	Slow purple
MECKE	Yellow to yellow/brown
FROEHDE	Slow avacado
RUYBAL'S	No Reaction
COBALT THIO-	"
MAYER'S	"
LIEBERMAN'S	Instant black
EHRlich'S	No Reaction
DILLE-KOPPANYI	"

Solubilities

Does not extract dilute NaOH into chloroform or dilute HCl into chloroform.

FOR YOUR INFORMATION

Samples of OPIUM standard may be obtained free of charge from:

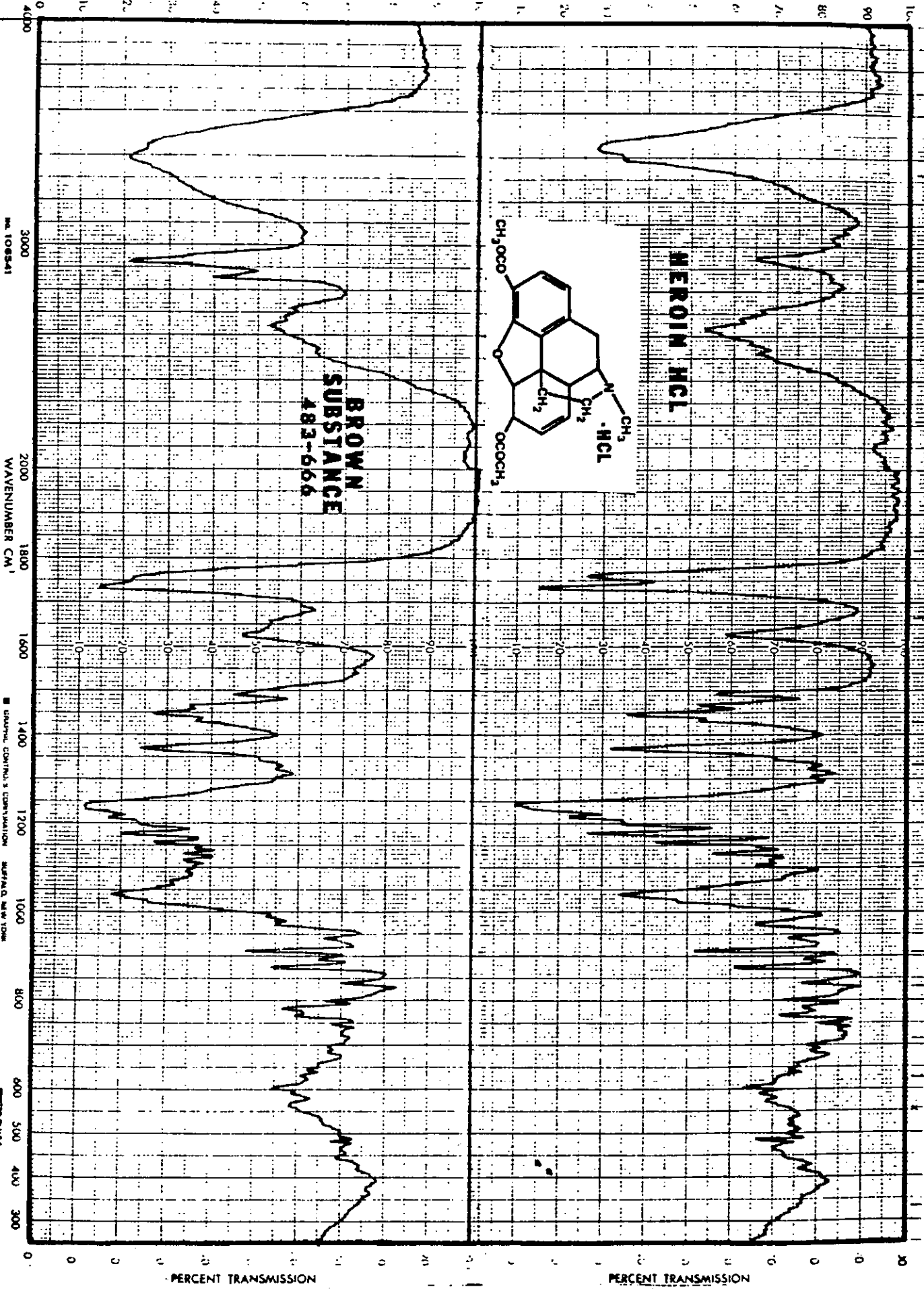
Customer Service  
S.B. Pennick  
1050 Wall Street West  
Lyndhurst, NJ 07071

--Judy Erickson

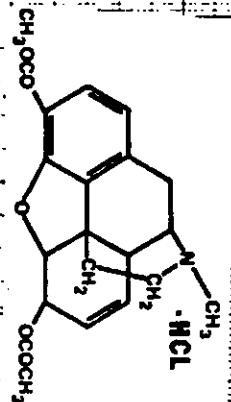
FLASH! Recent innovation - Instant in-house 35mm slides at a cost similar to outside processing (for 36 exposures) can be obtained with Polaroid's new 35mm Rapid Auto Processor for both black and white (ASA 125) and color (ASA 40) slide film. The cost would be more for 12 exposures. The basic unit includes the auto processor, slide mounter and slide mounts (box of 100) and is available from Boyle Instruments in Gig Harbor, VWR in Seattle, and other supply houses. The cost is approximately \$110. It's great on those occasions when a few slides are needed and time is of the essence.

--Mike Nolan





HEROIN HCL



BROWN  
SUBSTANCE  
483-666

MA 108541

WAVENUMBER CM<sup>-1</sup>

LABORATORY CONTROL & VERIFICATION  
MURKIN, NEW YORK

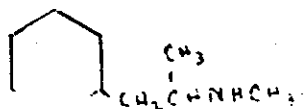
REVISION 10-8-8

PERCENT TRANSMISSION

PERCENT TRANSMISSION

**DESCRIPTION and AVAILABILITY**

1-Cyclohexyl-2-methylaminopropane also known as propylhexadrine. Comes as a light tan or white powder. A component of "Benzedrex", an over-the-counter decongestant inhaler.



COLOR TESTS

MARQUIS	_____
MECKE	_____
FROEHDE	_____
RUYBAL'S	_____
COBALT THIO-	_____
MAYER'S	_____
LIEBERMAN'S	_____
EHRlich'S	_____
DILLE-KOPpanyI	_____
WAGNER'S	Chocolate colored precipitate
2° AMINE	Deep blue

No gold chloride phosphoric acid microcrystals

GC

Isothermal at 130° on OV-101 has the same retention time as methamphetamine.

IR

Notice that this compound is the saturated analog of methamphetamine. Consequently the IR looks the same for the two compounds except for the aromatic bands.



DEPARTMENT OF LAW ENFORCEMENT  
DIVISION OF SUPPORT SERVICES

SAM W. NOLEN - DEPUTY DIRECTOR

March 29, 1984

Mr. George Matsuda, Editor  
Oregon State Police Crime Laboratory  
1111 Southwest Second Avenue  
Room 1201  
Portland, Oregon 97204

Dear Mr. Matsuda:

It would be most appreciated if you would list the below position vacancy in the NWAFS Newsletter:

**Assistant Bureau Chief (Forensic Science Administrator III)**

Directs the statewide forensic science laboratory operations. Through subordinate program managers, organizes program goals and objectives and evaluates the overall effectiveness of seven regional forensic science laboratories. The applicant will preferably have a master's degree and at least two years of management experience over a variety of forensic disciplines.


This position would be at the Bureau of Scientific Services Headquarters located in Springfield, Illinois. The salary range is \$28,296 to \$43,320. Salary is negotiable, based on experience and qualifications.

Please send resumes no later than July 1, 1984, to Mr. Bruce W. Vander Kolk, Bureau Chief, Bureau of Scientific Services, 726 South College, Springfield, Illinois 62704.

Thank you for your cooperation.

Sincerely,

Sam W. Nolen  
Deputy Director

  
By: Bruce W. Vander Kolk  
Bureau Chief  
Bureau of Scientific Services

BWV:r

BUREAU OF SCIENTIFIC SERVICES - FORENSIC LABORATORY

This article by Ron Bridgemon is taken from the April 1984 issue of the SWAFS Journal.

## THE EXAMINATION OF CUT TIRES

*Rondal R. Bridgemon  
Arizona Department of Public Safety*

I don't know if there is a vendetta out for tires in southern Arizona or just more knives per capita but it seems that I've had more than my share of tire slashing cases over the years. Unfortunately the cases have been spaced far enough apart that each time it has been necessary to repeat some initial testing to review the class characteristics of knife cuts in tires. During the last such case, I wrote down a few general observations and passed them out to lab personnel. They thought it a handy reference that might be of interest to SWAFS members.

Tire stabbing identifications have been done for many years. That cuts on telephone cord made with consecutively manufactured knives could be differentiated and identified was demonstrated by Watson (1). Tuira(2) showed that this was also true for knife cuts in tires.

Tuira felt it probably best to use inflated tires for test marks while Carlson(3) preferred making his tests in Coe-Flex. I have always used the deflated evidence tire for my tests. This permits you to use exactly the same medium as the evidence cut which is preferable for striae reproduction and lighting under the comparison microscope. In numerous tests I have never noticed any difference in striae quality between cuts in inflated versus deflated tires. Tests using unmounted tires may produce striae with more curvature but this presents no comparison problem. Tuira's article gives an excellent description of the method employed to remove cut areas from tires for mounting under the microscope.

If a submitted knife has been deemed a possible, the first step in making a comparison is to determine the orientation of the knife when it punctured the tire. This saves time as it permits the examiner to compare one side of the evidence cut with the only possible side of the test cuts. If you indeed have the offending knife, it is normally possible to match each side of the blade (Figure 1). Sometimes one side of the blade will not produce fine striations; however, examination of even this side will generally exclude or include the knife for the experienced examiner.

Knives most normally used in tire vandalism cases are the fixed or folding type in which the blade locks in the open position. Common brands encountered are Buck, Case, Puma, Gerber, and Kabar. The following general observations are for these knife types.

1. The force used to poke the knife through the sidewall of the tire usually causes it to enter up to the guard. If the knife is withdrawn without additional cutting, the outside of the tire will indicate the blade's greatest width. Often, blade orientation can be determined as its generalized cross-section is outlined around the cut. FIGURE 2.
2. Striae on the inside of the cut bulge toward the back of the blade. FIGURE 3.
3. Striae are generally more curved to entry side of the tire at the area of knife insertion as compared to any additional cutting subsequent to the entry poke.
4. There is an abrupt jump (line of demarcation) between poke (entry) area and any additional cuttings. This usually appears as an elevation change along the edge. FIGURE 4.
5. Striae in areas of cutting tend to be fainter than the striae in poke area but are often still "matchable."

### REFERENCES

1. Watson, Donald J. "The Identification of Tool Marks Produced from Consecutively Manufactured Knife Blades in Soft Plastics," AFTE Journal. Vol. 10, No. 3 (Sept. 1978), pp. 43-45.
2. Tuira, Y.J. "Tire Stabbing with Consecutively Manufactured Knives," AFTE Journal. Vol. 14, No. 1 (Jan. 1982), pp. 50-52.
3. Carlson, Carl J. "Use of Coe-Flex for Test Toolmarks," AFTE Journal. Vol. 15, No. 2 (April 1983) pp. 87.

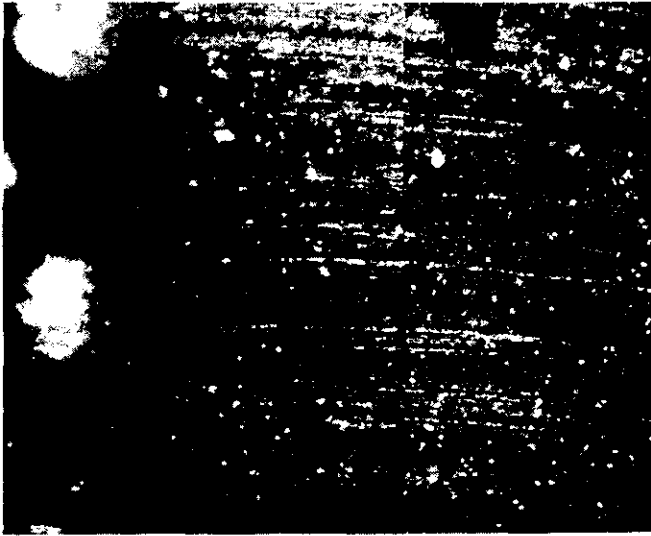


Figure 1



Figure 2



Figure 3

True Edge of Knife  
↓

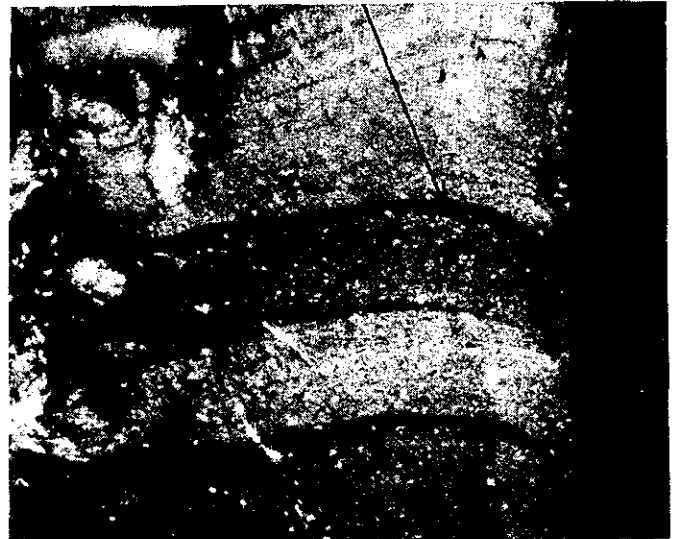


Figure 4

The Oakland Police Department Criminalistics Laboratory anticipates authorization to fill two new positions of Criminalist in mid 1984. Minimum qualifications will be a Bachelor's degree in criminalistics or a related physical science and two years full-time laboratory experience and/or graduate work. Strong background in chemistry and/or serology will be preferred. Current salary range is approximately \$2794-\$3091 per month. For further information, contact:

Jan S. Bashinski  
Laboratory Director  
Oakland Police Department  
Criminalistics Section  
455--Seventh Street, Room 608  
Oakland, CA 94607

(415) 273-3386

The Northeastern Association of Forensic Scientists is proud to announce that it will be holding its Tenth Annual Meeting October 26th and 27th, 1984 at the Long Island Marriott Hotel in Uniondale, New York. Special room rates for the meeting will be \$55, single or double occupancy.

In addition to the usual sessions on drugs, criminalistics, toxicology and serology, special sessions are planned on forensic paint analysis, computer assisted instrumentation, laboratory safety, and clandestine laboratory synthesis.

For additional information contact:

Jeffrey M. Weber  
Drug Enforcement Administration  
Northeast Laboratory  
555 West 57th Street  
Suite 1886  
New York, New York 10019  
212-399-5137

Your assistance in this matter is greatly appreciated, not only by NEAFS but by the entire forensic community.

Sincerely,



Jeffrey M. Weber  
President-Elect

The Midwestern Association of Forensic Scientists is pleased to announce that their fall meeting will be October 3 through October 5, 1984 in Des Moines, Iowa. Plans are being made at this time to coordinate the program, get workshops, round table discussions and tours set up.

The meeting will be held in the newly remodeled Hotel Fort Des Moines in downtown Des Moines. Free parking is available and the hotel is within easy walking distance to many restaurants and shopping areas and within driving distance to the Botanical Center, the Art and Science Centers, the State Capitol, the State Historical Building and several large shopping malls.

The \$30 registration fee, payable to MFS, can be made in advance or at the door. Daily registration fee is \$10 and does not include lunch.

We would like to extend an invitation to any of your association members to participate in our meeting, either by presenting papers or poster sessions or just by attending the meeting.

For more information, please feel free to phone either Mike or myself at (515) 281-3666.

Sincerely,



KIM KRULL  
Program Chairman

MICHAEL L. REHBERG  
Local Arrangements Chairman

1984 FALL CONFERENCE  
of  
THE NORTHWEST ASSOCIATION  
OF FORENSIC SCIENTISTS

Call for Papers

Type of presentation:

Research paper \_\_\_\_\_  
Technical note \_\_\_\_\_  
Case history \_\_\_\_\_

Title of presentation: \_\_\_\_\_

Author(s) including degrees: \_\_\_\_\_

Business affiliation: \_\_\_\_\_

Address: \_\_\_\_\_

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

Co-Authors: \_\_\_\_\_

Audio visual requirements: \_\_\_\_\_

Time required: \_\_\_\_\_

Abstract including purpose, results and summary: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Abstracts should be received by September 1, 1984.

Send to:


B. C. Telyea, Lieutenant  
Oregon State Police  
Crime Detection Laboratory  
650 Royal Avenue, Suite #11  
Medford, OR 97504



## "THE MEANING OF THE LOGO"

The color scheme is in three parts: Gold meaning Science, Blue meaning Truth and Purple meaning Justice.

The four pictures of equal balance are The Scales of Justice, The Torch of Knowledge, The Microscope denoting Criminalistics or Forensic Science and The Fasces, the Symbol of Authority.

The Association's name is part of the Logo and the pharmaceutical symbol  denotes the Association as having scruples.

The Editor

## THE NEWSLETTER

A Newsletter published by the Association dedicated to the:

1. encouragement of the exchange of ideas and information within the field of forensic sciences through improving contacts between persons and laboratories engaged in the forensic sciences;
2. stimulation of research and the development of new and/or improved techniques; and
3. promotion of the improvement of professional expertise of persons working in the field of forensic science.

## SUGGESTIONS FOR CONTRIBUTORS

The Newsletter includes the following regular features:

1. Correspondence and inquiries (letters)
2. Methodological notes (bench top)
3. Abstracts of papers presented at NWAFS meetings
4. Short technical reports
5. Case reports
6. Employment opportunities
7. News of meetings, schools, workshops, training opportunities
8. Legal news
9. Editorials

Contributions should be titled, include author credits and any pertinent references. The contributions should be typed, single spaced, on plain white paper and compacted as much as possible.

Submit all contributions to the Newsletter Editor:

George K. Matsuda  
Oregon State Police Crime Laboratory  
1111 S.W. 2nd Avenue, Room 1201  
Portland, OR 97204

The Newsletter is published four times a year. Contributions should be submitted by February 1, May 1, August 1 and November 1, each year.