

The CAC News

Newsletter of the California Association of Criminalists

Winter 1991

A Message From The President



would like to take this opportunity to thank Seminar Chairman Hiram Evans and all of his seminar staff at the San Bernardino Crime Laboratory for putting on the semi-annual seminar in October. The Founder's Day lecture by Professor Osterburg and the presentation of the Roger Greene Award to Dr. McCrone were special events in a program filled with many interesting presentations. The successful, innovative requests for POST funding and AAFS grant may provide means to help defray some of the cost of member's participation in future seminars. To all of you in San Bernardino, congratulations for a job well done!

In September the Endowment Committee met to consider the proposals submitted to it for 1991-92. The committee awarded money for training courses, scholarships, and research. These awards are the first in this exciting new benefit for CAC members that should get bigger and better with time.

The Paul Kirk Award is awarded annually to a member who has been working in the field for less than five years and who has made significant contributions to criminalistics during that time. In August the Awards Committee calls for nominations. Each year the Committee receives only one or two nominations. I know there are many others throughout the state who also qualify for the award and who also deserve the opportunity to be recognized. You don't have to work in the same laboratory as the individual you wish to nominate, and the nomination form doesn't take too long to complete. This award was created in memory of a man who devoted much of his life to teaching and developing new criminalists. I encourage all of you to take the time to nominate those newer members you have worked with who have demonstrated those qualities that Dr. Kirk championed.

Best wishes to all of you as we begin 1992. Hopefully, the new year will bring bigger budgets, smaller backlogs, and time to prepare presentations for the Spring and Fall seminars!

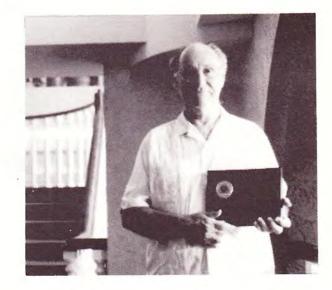
Carole

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San Bernardino Hosts Fall '91 Seminar

The Founder's Day lecture was given by James Osterburg (right) during the recent CAC Fall semi-annual seminar in Ontario. *More photos inside*.



Abstracts From the NWAFS Meeting...

Submitted by Roger Ely

The following are the abstracts of papers given at the Fall meeting of the Association held at the Coeur d'Alene Lake Resort in Coeur d'Alene, Idaho during the week of October 1-4. If you have any questions concerning any of the papers presented here, please contact the author directly.

Modeling the Elimination Rate of Mouth Alcohol and Its Forensic Implications

Rod G. Gullberg Washington State Patrol Breath Test Section 6431 Corson Avenue South Seattle, WA 98108-3462

The presence of mouth alcohol is of concern in forensic breath alcohol analysis since it can falsely bias the accurate measurement of end-expiratory breath. Mouth alcohol, however, will be eliminated over time and is shown in the present study to follow a single-term decaying exponential:

 $B = B_0 e^{-kt} + C$

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The CAC News

Lisa M. Brewer CAC Editorial Sect'y Editor John Houde Ventura Sheriff's Lab Layout / Design

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Notice to Contributors

This newsletter publishes material of interest to its readers and is pleased to receive manuscripts from potential authors. Meeting announcements, employment opportunities, course announcements, etc. are also solicited.

Advertisements are also accepted, although a fee is charged for their inclusion in The CAC News. The acceptance of any advertisement is at the sole discretion of the Editorial Secretary.

Because of the computerized typesetting employed in the preparation of The CAC News, the Editorial Secretary requests that where possible, submissions to the News be made in the form of IBM or MS-DOS compatible files on 5.25 or 3.5 inch floppy disks (high or low density). It is preferred that text files from word processors be saved as ASCII files without formatting codes, e.g. bold, etc. An accompanying hardcopy of the file may be submitted along with the disk to illustrate the author's preference for special emphasis.

Graphics, sketches, photographs, etc. can also be placed into articles. Please contact the Editorial Secretary for details. FAX submissions are also acceptable. The FAX number for the Editorial Secretary is (408) 298-7501.

The deadlines for submissions to The CAC News are: December 15, March 15, June 15 and September 15.



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Immediate Past President ESTON SCHWEKE Huntington Beach Police Department 2000 Main Street Huntington Beach, CA 92648 (714) 536-5681 On Preparing Good Abstracts...

"A wellprepared
abstract enables
readers to
identify the
basic content of
a document
quickly..."

We are attempting to improve the quality of our abstracts as they are published in the Journal of the Forensic Science Society. Seminar Program Chairs have been instructed to return abstracts which are vague and uninformative. In order to accommodate those who might submit an abstract before the work is totally finished --Would anyone really do that?!-- some abstracts might be returned to the author for updating and/or more detail before they are sent to England.

The following is an excerpt from "How to Write and Publish a Scientific Paper" by R.A. Day describing an effective abstract. We hope this will guide future seminar presenters as to what is needed in CAC Seminar abstracts.

"A well-prepared abstract enables readers to identify the basic content of a document quickly and accurately, to determine its relevance to their interests, and thus to decide whether they need to read the document in its entirety". The Abstract should not exceed 250 words and should be designed to define clearly what is dealt with in the paper. Many people will read the Abstract, either in the original journal or in Biological Abstracts, Chemical Abstracts, or one of the other secondary publications.

The Abstract should (i) state the principal objectives and scope of the investigation, (ii) describe the methodology employed, (iii) summarize the results, and (iv) state the principal conclusions. The importance of the conclusions is indicated by the fact that they should be said three times: once in the Abstract, again in the Introduction, and again (in more detail probably) in the Discussion.

The Abstract should never give any information or conclusion that is not stated in the paper. References to the literature must not be cited in the Abstract (except in rare instances, such as modification of a previously published method).



TECHNICAL NOTE

ALASKAN GASOLINE

Kristen Nelson and Chris Beheim presented a paper at the NWAFS Spring 1991 meeting entitled "Alien Gasoline Identified in North Carolina". I contacted Chris Beheim and asked him to publish this paper in our newsletter. Instead he thought a comparison of California gasoline with Alaska gasoline would be more appropriate for our newsletter. The following is a result of that comparison as well as examples from the North Carolina case. Our arson analysts will find this interesting and possibly helpful in future casework. I, for one, have seen quite a few Alaskan license plates on the road! Many thanks to Chris Beheim for the extra work on our behalf.

-- Ed.

Arson analysts usually identify any accelerants present by their distinctive chromatographic patterns. Gasoline patterns vary dependent upon the crude oil used to produce the gas as well as the differences in refinery production which adds further distinction. The gasoline produced and sold in Alaska is unusual as a result of both of these factors and may provide valuable evidential information for arson investigators.

The following chromatograms were obtained under these conditions: All samples were diluted with carbon disulfide and run on a Hewlett-Packard 5880 GC equipped with an FID detector and a 45 meter, 0.31 mm ID crosslinked methyl silicone column. Run parameters: 2 minute hold at 40° C, ramped to 270° C at a rate of 20° C/minute.

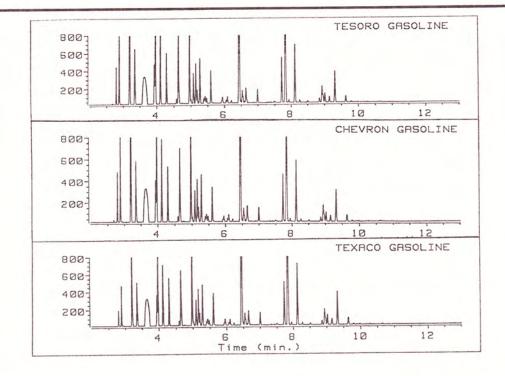
Please refer to the figures on the following pages.

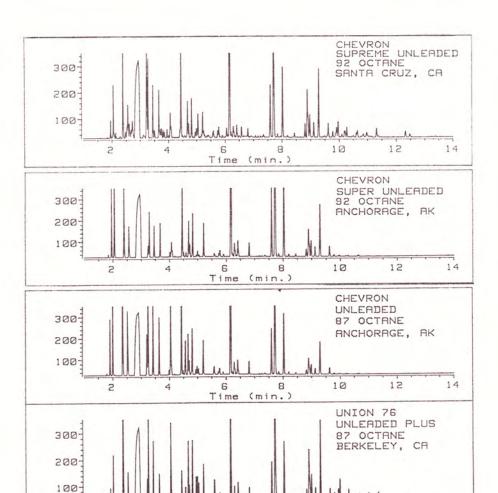
The unknown accelerant is from an arson case in North Carolina where the suspect had just arrived in the state from Alaska. The accelerant was unlike anything the North Carolina lab staff had encountered, and a sample of the unknown was forwarded to the Anchorage lab for a comparison with known Alaskan gasoline. The unknown chromatogram in Figure 3 is typical of an evaporated "Alaskan" gasoline.

The Alaskan gasoline lacks the higher boiling components found in the California and North Carolina gasoline samples. A Tesoro chemist states that their refinery is optimized for the production of jet fuel and therefore the heavier hydrocarbons are all diverted to that end.

Chris Beheim, Scientific Detection Lab. 5500 E. Tudor Rd., Anchorage, Alaska 99517

FIGURE 1. Three chromatograms of gasoline samples obtained from three different Anchorage gas stations. The Tesoro refinery south of Anchorage supplies the local Chevron and Texaco stations.





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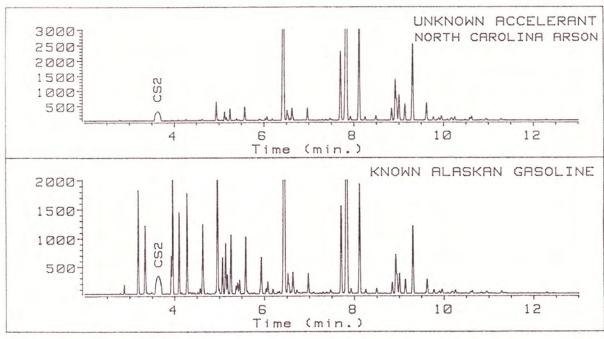
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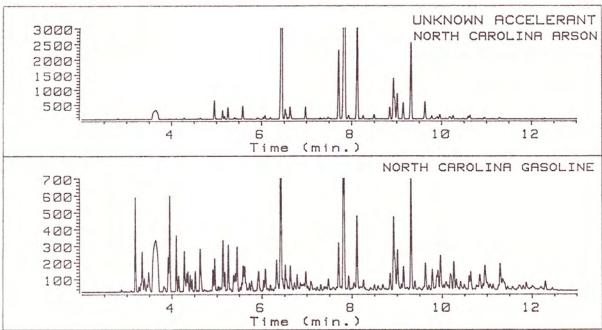
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FIGURE 2. Chromatograms of Alaskan gasoline compared to gasoline from California gas stations.

FIGURE 3. Case Example. See text.





Upcoming

Offerings...

Course

1992 WINTER QUARTER January - March

B101 Forensic Serology

B202 Forensic Examination of Sexual Assault Evidence

B250 DNA - Polymerase Chain Reaction

C152 Analysis of Low Explosives

C201 Clandestine Laboratory Analysis and Synthesis

E102 Overview of Firearms and Toolmark Identification

E151 Latent Print Techniques

S212 Forensic Crime Scene Investigation II (offsite)

1992 SPRING QUARTER April - June

A103 Courtroom Presentation of Evidence

B100 Supervisor's Training - Serology

E101 Firearms Safety in a Laboratory Environment

E251 Specialized Latent Print Techniques

L101 Online Forensic Science Informational Resources

M101 Forensic Microscopy

S213 Forensic Crime Scene Investigation III

1992 SUMMER QUARTER July - September

A101 Forensic Academy

B201 Forensic Serology - Zone Electrophoresis

B211 Forensic Serology - Isoelectric Focusing

C151 Arson Accelerant Detection

C201 Clandestine Laboratory Analysis and Synthesis

E152 Latent Print Comparison

M101 Forensic Microscopy

S111 Forensic Crime Scene Investigation I

S201 Bloodstain Pattern Interpretation

For detailed information regarding a specific course, please contact the California Criminalistics Institute (CCI) at (916) 739-4380.



John Davis Wins '91 Paul Kirk Award

John Davis of the Orange County Sheriff- Coroner' Lab was the winner of the 1991 Paul Kirk Award. John is active in his laboratory in the areas of arson analysis, crime scene investigations, and clandestine drug lab investigations. Specific problems he has addressed include programming the GC/MS and autosampler for overnight controlled substance analysis, and devising methods for steroid analyses. John is co-chairman of the Southern Section Drug Study Group.



Most Outstanding **Presentation:**

REBECCA REYNOLDS

For the second time in as many years, Rebecca Reynolds has been chosen as the recipient of the Most Outstanding Presentation. Her paper entitled, "A PCR-Based System for Determining the Quality of Forensic DNA Samples", was deemed the best presentation at the 78th Semi-Annual Seminar held in Ontario, CA. In addition to the praises of excellent organization and well-rehearsed delivery, the judges also noted that Rebecca's paper presented original research material which rated highly in technical merit. Dr. Reynolds will receive her second Merit Award and a \$100 stipend for her outstanding efforts at the Spring Seminar to be hosted by DOJ-Fresno.

The panel of judges also wanted to extend an "Honorable Mention" to Luke Haag for his paper, "Some Thoughts, Observations, and Recommendations on Giving Technical Papers at Seminars." Luke's papers are always of high caliber, and his latest is full of hints and tricks to make anyone's presentation more concise, focused and interesting.

Dave Stockwell Awards Committee DEATH INVESTIGATION COURSE March,1992 he University of Washington, Division of Continuing Medical Education is sponsoring a Death Investigation course March 23-26, 1992 at the Warren G. Magnuson Health Sciences Center in Seattle, Washington.

A formal death investigation system provides significant public services such as the detection of criminal activity, the resolution of civil claims, the detection of communicable diseases, and providing for information valuable for the prevention of injuries and premature death. This course is designed to provide useful training and information for professionals working within the death investigation system, aimed at improving the quality of medical and legal services involved in the process. The seminar is recommended for coroners, law enforcement officers, pathologists, and interested individuals in the legal and medical professions.

The goals of the seminar are:

To improve understanding of significant aspects of the forensic autopsy, for determining medical and technical information relevant to death investigation.

To increase skills in death scene investigation and processing with lectures on terrorist violence, disasters, time of death, and drugs and poisons.

To increase skills in investigation of childhood deaths and expert court testimony of child abuse cases.

To improve the quality of information developed in death investigation and presented in prosecution of criminal activity and resolution of civil claims.

The course is sponsored by the University of Washington School of Medicine, Department of Pathology, Office of Continuing Medical Education; King County Department of Public Health, Medical Examiner Division; and the National Association of Medical Examiners.

The course fee is \$250.00 if registered by February 23, 1992; and \$285 if registered after February 23, 1992. The course offers 18.75 Category 1 CME credits, with continuing Legal Education Credit pending.

For more information, contact:
University of Washington School of Medicine
Office of Continuing Medical Education
1325 Fourth Avenue, Suite 2000
Seattle, WA 98101
(206) 543-1050 or (800) 869-2633
(206) 543-3195 (FAX)

NWAFS Abstracts, cont'd

The model and its parameters can be experimentally determined by administering mouth alcohol to subjects prior to and following alcohol consumption and then subjecting the data to non-linear regression methods. It is observed that following alcohol consumption the asymptotic value C (the true end-expiratory breath alcohol) is reached much sooner than when no alcohol is in the system and C=0. Data collected from two volunteers showed asymptote times to decrease by 41% and 19% respectively. A 15 minute observation time is more than adequate to ensure mouth alcohol will not bias the accurate measurement of end-expiratory breath alcohol.

Typewriter Ribbon Cartridge and Correction Tape: Their Importance as Evidence in Crime Scenes

Robert C. Phillips, Examiner of Questioned Documents 2208 Wilkins Place Olympia, WA 98501-3134

The typewriter often plays an important role in an investigation. Its importance is not recognized at first but as the investigation progresses, the sudden appearance of a document becomes an important factor. The reason and method of seizing the ribbon and correction tape are discussed, and the method of reading and interpreting three line ribbons (such as the IBM memory type ribbon) and the value of using the correction tape in this process will be discussed. Methods of preserving and packaging these items and preserving them for court presentation by re-producing them using a xerox and transparency will also be discussed.

Glass Density by Temperature Variation

Helen R. Griffin WSP Crime Laboratory 610 3rd Avenue 2nd Floor Public Safety Building Seattle, WA 98104-1820

There are advantages for determining glass density as outlined in "Density, Refractive Index and Dispersion in the Examination of Glass," by D.P. Slater and W. Fong, Journal of Forensic Sciences, Vol. 27, No. 3, 1982, pp. 474-483. One notable advantage is the ability to eliminate false rejections. Other advantages include low exposure to the potentially harmful liquids used, the ability to perform either comparative measurements or quantitative measure-

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EMPLOYMENT OPPORTUNITIES



The Serological Research Institute (SERI) has openings at the following levels:

ASSISTANT FORENSIC SEROLOGIST

No experience, but requiring a minimum of a Bachelor's degree in Biology, Molecular Biology, Biochemistry, Chemistry or Forensic Science. Other major science degrees may be considered. We are looking for a person with a genuine interest in forensic serology and having completed course work or projects(s) in this area will be useful. Salary is \$26,000 plus benefits.

FORENSIC SEROLOGIST

A minimum of two years casework experience in serology and a Bachelor's degree in Biology, Molecular Biology, Biochemistry, Chemistry or Forensic Science. Other major science degrees may be considered. Prefer experience in as many genetic marker typing systems as possible. Court testimony experience also preferred. Experience with DNA techniques helpful. Serologists appointed will be trained in both serology and DNA examinations. Salary is \$32-42,000 plus benefits. We may consider offering moving and relocation expenses depending on experience.

For further information, please contact Brian Wraxall (510) 223-7374 as soon as possible.

NEW GENERATION KAPAK BAG EVALUATION

REFERENCE: Kinard, W.D. and Midkiff, C.R.,Jr., "Arson Evidence Container Evaluation: II. 'New Generation' Kapak Bags," *Journal of Forensic Sciences*, Vol 36, No 6, Nov 1991, pp. 1714-1721.

ABSTRACT: Packaging for arson evidence must be convenient to transport to and from the scene, available in a range of sizes, water resistant, easy to seal, and effective at providing containment of accelerant vapors. Traditional containers have several limitations for use in the field and the laboratory. A polyester-polyolefin composite film bag was an attractive candidate but had been largely abandoned because of a contamination problem. Similar bags made with film from a modified process designed to eliminate the contaminant were studied to assess their suitability as containers for routine use by arson investigators. This study showed the "new generation" bags to be free of the prior contaminant and sufficiently retentive for packaging and storage of arson evidence.

Kapak Corporation, a recognized leader in the area of evidence collection and preservation, is very pleased to announce the newest addition to its family of specialized laminated materials. Kapak spent two and one half years developing an new "Fire Debris Pak".

The new innovative StandPak style pouch has a contoured bottom to allow storage of gallon paint cans or to use as a primary container. For the unusual sized items, Kapak offers tubular roll stock 16" x 175'.

For further information, pricing, samples, or to place an order, contact Sheldon Saffe or Tali Poe at 1-800-527-2557 or 612-541-0735.

Meeting Announcements

AMERICAN ACADEMY OF FOR-ENSIC SCIENCES

February 17-22, 1992

The 44th Annual Meeting of the American Academy of Forensic Sciences will be held at the Hyatt Regency Hotel in New Orleans, Louisiana. For further information, please contact: Anne H. Warren, AAFS, PO Box 669, Colorado Springs, CO 80901-0669 (719) 636-1100

CALIFORNIA ASSOCIATION OF CRIMINALISTS

May 7-9, 1992

The Semi-Annual Seminar of the California Association of Criminalists will be held at the Pines Resort at Bass Lake in Madera County. It is being hosted by the Department of Justice, Fresno Regional Laboratory. For further information, please contact: Gary Cortner, Department of Justice, 6014 North Cedar, Fresno, CA 93710 (209) 278-2982

NORTHWEST ASSOCIATION OF FORENSIC SCIENTISTS

May 18-22, 1992

The Semi-Annual Seminar of the Northwest Association of Forensic Scientists will be held at the Nugget Hotel/Casino in Sparks, Nevada, which is just minutes from the Reno Airport. The program will include two days of workshops in specialized areas of criminalistics and two days of technical presentations. For further information, please contact: Floyd Whiting, Washoe County Sheriff's Crime Lab, 911 Parr Blvd., Reno, NV 89512-1000 (702) 328-2800.

NWAFS Abstracts, cont'd

ments (using glass density standards), and the ability to obtain multiple measurements on glass fragments (allowing determination of statistical reproducibility).

Microtome Sections of Paint Chips

Helen R. Griffin WSP Crime Laboratory 610 3rd Avenue 2nd Floor Public Safety Building Seattle, WA 98104-1820

Epon 812 is currently used as an embedding material for the sectioning of paint chips using a microtome. 5 mm sections have been effective in providing information on paint layers using transmitted and polarized light with magnifications up to approximately 500X. These sections are also used for chemical and solvent tests as well as in FTIR analysis using a microscope attachment.

Reflections of a Glass Analyst - A GRIM Tale

Terry McAdam WSP Crime Laboratory 610 3rd Avenue 2nd Floor Public Safety Building Seattle, WA 98104-1820

Differences between the British forensic labs and the US labs in their approach to analysis. Introduction of GRIM and its impact on casework. Preliminary data on dispersion using GRIM will be presented. A bibliography of 150 glass analysis references will be available for distribution to interested NWAFS members.

DNA Update for Washington State

Captain Bruce Bjork WSP Crime Laboratory System Olympia, WA

An overview of how the Washington State Patrol DNA laboratory was established. Presentation focused on Washington State DNA legislation, administrative codes, and convicted felon DNA database program. Examples of DNA case submission protocol and problems / issues that have surfaced since the DNA statutes became effective were discussed.

Apparent Loss of Blood Group Substances on a Semen-Stained Vaginal Swab

Jean Johnston WSP Crime Laboratory 610 3rd Avenue 2nd Floor Public Safety Building Seattle, WA 98104-1820

Serological evidence of a semen-stained vaginal swab showed the absence of any soluble blood group substances. The semen concentration on the exhibit was greater than 1:200 which strongly indicated the semen was from a non-secretor. The jeans worn by the victim also exhibited a strong semen stain; however, the A and H (O) blood group substances were detected in this sample. Testing on the blood and saliva controls from the victim showed she was a group A non-secretor and the suspect was a group A secretor. Subsequent RFLP typing by Cellmark Diagnostics showed a match between the DNA banding pattern on the vaginal swab, blue jeans stain, and control blood from the suspect. The significance of this case is in the apparent loss of blood group substances in the vagina or on the vaginal swab without substantial loss of spermatozoa, P-30, or acid phosphatase.

Don't Eat Your Greens

Larry Campbell Vancouver Regional Coroner B.C. Coroner's Service 4595 Canada Way Burnaby, BC CANADA V5G 4L9

A recent death in the Lower Mainland of British Columbia indicated a new and innovative method for addicts to obtain morphine. The method has also been seen in the Seattle area by the DEA. This paper will review the available evidence from both instances and will be of interest to not only drug personnel but also home gardeners.

Quantitation by Automated GC/ MSD

Bradley Johnston WSP Crime Laboratory Route #7 Box 12450 Kennewick, WA 99337-2002 (509) 545-2022

A quick, easy, reliable and reproducible quantitation method was presented. The procedure utilizes automated GC/MSD with selected ion monitoring (SIM). An HP 5970 MSD, HP 5890 GC, and HC

NWAFS Abstracts, cont'd 7673A autosampler were used to generate all data. Tetracosaine was chosen as an internal standard, cocaine hydrochloride for the analyte and chloroform as the solvent. A four point calibration curve was created from samples ranging in concentration of 300 ng/ml to 1200 ng/ml of analyte. Multiple injections of test samples were run and the data indicates the method produces accurate quantitative data within 2% of the actual concentration. A simple macro-program was written to automate all data collection, quantitative calculations and report generation. Once the method is in place and the calibration curve created, an accurate quantitation can be performed on an unknown sample with only five minutes of bench time added to your qualitative analysis.

Paper Fiber Identification

Bill Schneck WSP Crime Laboratory Room 100, Public Safety Building Spokane, WA 99201-2043 (509) 456-4144

The major hardwood and softwood species utilized in the manufacture of paper are differentiated by their morphology using light microscopy. Hardwood species are characterized by vessel elements (baggy cells), which are elongated, tubular, pitted cells with open ends. Softwood species are identified by their fibers, having doughnut-shaped bordered pits found in rows, and distinctive groupings of ray cross field pits. Fibers are stained to distinguish between mechanical and various chemical processing types using Graff's C stain and Azo stain.

Clay Mineral Identification of Building Materials and Soils by Light Microscopy

Bill Schneck WSP Crime Laboratory Room 100, Public Safety Building Spokane, WA 99201-2043 (509) 456-4144

Clay minerals associated with building materials and soil were examined using polarized light microscopy and microchemical methods. Grain mounts of montmorillonite, kaolinite, vermiculite, and illite were characterized by refractive index, morphology, dispersion staining, pleochroism and birefringence. Montmorillonite and kaolinite were further differentiated by using a malachite-green/nitrobenzene solution which preferentially stains

montmorillonite yellow and kaolinite green. A rapid distinction between many clay minerals can be employed using these techniques when analytical methods such as XRD, SEM and TEM are not available.

A Semen's Life

Stan McGee WSP Crime Laboratory Room 100, Public Safety Building Spokane, WA 99201-2043 (509) 456-4144

No abstract submitted

GC/MS Autosampler Macros

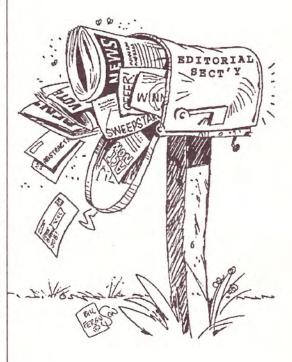
Kevin Fortney WSP Crime Laboratory Room 100, Public Safety Building Spokane, WA 99201-2043 (509) 456-4144

No abstract submitted

GC/MS Autosampling Techniques, Applications and Software

Steven Harnos, Ph.D. Hewlett Packard Instruments Portland, OR

No abstract submitted



CAC SECTION ACTIVITIES

Section

On Wednesday, September 25, 1991, a CAC Southern Section Dinner Meeting was held at the Holiday Inn in Huntington Beach. The Dinner Meeting was hosted by Jeff Thompson and Chris Breyer of the Huntington Beach Police Department. The guest speakers were Will and Michael Fowler of TECH-FX, a special effects company in North Hollywood. Their topic was "Forensic Science Goes Hollywood"; they discussed technical and computer effects from their work on shows such as Sledgehammer, Hill Street Blues, Max Headroom and Naked Gun $2\frac{1}{2}$. The meeting was attended by 76 individuals. Door prizes were furnished by Barry Fisher and CAC (coffee mugs and CAC hat).



Study Groups

TOXICOLOGY / DRUG STUDY GROUP COMBINED MEETING

Tox Chair: Manuel Munoz, Los Angeles County, Chief Medical Examiner-Coroner; Drug Chairs: Elizabeth Thompson and John Davis, Orange County Sheriff-Coroner.

Guest Speaker was Deputy District Attorney Vickie Hix of Orange County, who discussed what she, as a deputy district attorney, expects from an expert witness, enhancements and Proposition 115. She also discussed clan labs and the use of charts and diagrams to help simplify things for the jurors. Thiry-nine individuals attended the combined study group meeting.

SEROLOGY STUDY GROUP

Chairs: David Hong, LASD and Don Jones, San Bernardino Sheriff.

Dan Gregonis from the San Bernardino County Sheriff's Crime Laboratory, reviewed the Laura Bradbury case. Working with Ed Blake (FSA) and Cetus, the DNA (HLA DQ alpha and mitochondrial DNA) from the recovered skull cap was compared to the parental reference standards. These results terminated the nationwide search for the missing child.

As part of the Serology Study Group's "Back-to-Basics" sessions, an open forum discussion was held on case approaches. Case history scenarios were provided and opinions were solicited on thought processes on how to obtain the most information from limited bits of data; what questions need to be asked and answered and what considerations must be addressed before actually handling the evidence.

This discussion elicited many outstanding points to consider and seemed to be informative

for both the experienced and newer serologists. Twenty-six individuals attended the serology study group meeting.

TRACE STUDY GROUP

Chairs: Lynne Herold, LASD; Jeff Thompson, Huntington Beach PD and Wayne Moorehead, Orange County Sheriff-Coroner.

James Bailey, LASD, reviewed the INTER-MICRO Meeting. Discussions on the OSHA regulations that are or will be affecting forensic labs and employee drug testing. Seventeen individuals attended the trace study group meeting.

Northern Section

On September 26, 1991, the Santa Clara County Crime Lab hosted a dinner meeting at Brandons Restaurant located in Milpitas. The guest speaker for the evening was Aiko Lawson the San Diego Police Department. Her topic was "A Day at the Armed Forces Port Mortuary", a description of her experiences during Operation Desert Storm.

The Serology Study Group met at the Santa Clara County Lab before the dinner meeting. Presentations were made by Jennifer Mihalovich, on the constituents of human semen, and Debbie Warnick (Sandos Crop Protection), on recombinant DNA techniques used in plant breeding.

SEROLOGY STUDY GROUP

Chairs: Gary Sims and Michele Horne, DOJ DNA Lab.

The Northern Section Serology Study Group met on December 2, 1991 at the Oakland Police Department. Twelve people attended. The featured speaker was Laurie Rawlinson from SERI. Her topic was the use of p-30 in the forensic examination of semen. Of particular interest was the continuing discussion of the quantitative approach to the interpretation of typing results. We plan to continue the discussion at our next meeting, with Mary Gibbons from the Oakland Police Dept. speaking on the role of acid phosphatase in semen stain analysis.







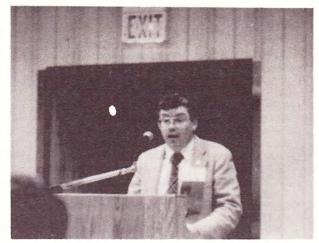


SERG









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Alameda Co Sheriff	15001 Foothill Blvd	San Leandro Walnut Creek		94578 94598	(510) 667-7700	(510)667-3642 FAX (510)486-3166 FAX
ATF Laboratory	355 N. Wiget Lane PO Box 6638	Phoenix		85005-6638	(510)486-3170 (602) 262-2394	(602)223-2913 FAX
AZ Dept Pub Safety Lab Bell and Bell	7857 Esterel Dr	La Jolla		92037	(619) 743-2498	(002)220-2310171
Brauner, Post &Granado		Moreno Valley		92337	(818) 338-3722	
CA DOJ - CCI	4949 Broadway Rm F104	Sacramento		95820	(916) 739-4380	(916)454-5433 FAX
CA DOJ - Chico	3870 Morrow Lane Ste A	Chico		95928	(916) 895-5024	(916)895-4657 FAX
CA DOJ - DNA Lab	626 Bancroft Way	Berkeley	CA	94720	(510) 486-7044	(510)486-6681 FAX
CA DOJ - Eureka	1101 W Wabash	Eureka	CA	95501	(707) 445-6682	(707)445-6688 FAX
CA DOJ - Fresno	6014 N. Cedar	Fresno		93710	(209) 278-2982	(209)297-3544 FAX
CA DOJ - Modesto	2213 Blue Gum Ave	Modesto		95351	(209) 576-6215	(209)526-4223 FAX
CA DOJ - Redding	1515N. Old Oregon Trail	Redding		96003	(916) 255-2830	(916)241-8409 FAX
CA DOJ - Riverside	1500 Castellano Road	Riverside		92509	(714) 782-4170	(714)782-4128 FAX
CA DOJ - Sacramento CA DOJ - Salinas	4949 Broadway Room #F-201	Sacramento Watsonville		95820 95076	(916) 739-5136 (408) 761-7620	(916)739-2839 FAX (408)761-7629 FAX
CA DOJ - Santa Barbara	440A Airport Blvd 820 Francis Botello Rd	Goleta		93117	(805) 681-2580	(805)964-1034 FAX
CA DOJ - Santa Barbara CA DOJ - Santa Rosa	7505 Sonoma Hwy	Santa Rosa		95405	(707) 576-2415	(707)576-2141 FAX
CA DOJ - Stockton	1001 W Mathews Rd.	French Camp		95231	(209) 948-7554	(209)948-7714 FAX
CA State Univ Sac'to	6000 J Street	Sacramento		95819	(916) 278-6486	(
Cal Lab of Forensic Sci	17842 Irvine Blvd- #224	Tustin	CA	92680	(714) 669-9461	(714)669-1316 FAX
Cetus Corporation	1400 53rd Street	Emeryville	CA	94608	(510) 420-3359	(510)420-4116 FAX
Contra Costa Co Sheriff	1960 Muir Rd.	Martinez	CA	94553	(510) 313-2832	(510)646-2913 FAX
COPI Geotech Center	6001 Bollonger Cyn Rd	San Ramon	1	94583-0946	(414) 842-0025	(415)842-1831 FAX
CSU-LA	5151 State University Pl.	Los Angeles		90032	(213) 343-4610	
DEA S.W. Regional Lab	410 W. 35th St	National City		92050	(619) 557-6490	(619)557-5892 FAX
DEA Western Laboratory		San Francisco		94105	(415) 744-7051	(415)744-7055 FAX
Denver Police Sci. Lab	1331 Cherokee	Denver		80204	(303) 640-3627	(303) 640-1271
Dept Sci Serv Singapore Document Examination	P.O. Box 488	Singapore Martinez	031 CA	94553	65-2290742 (510) 228-9292	
Du Page Co. Sheriff	501 North County Farm Rd.	Wheaton	IL	60187	(708) 682-7314	(708)682-7860 FAX
DWM Laboratory	P.O. Box 112	Ojai		93024	(805) 646-6290	(, 00,002 , 000 , , , ,
El Cajon Police Dept.	100 Fletcher Parkway	El Cajon		92020	(619)579-3378	(619)444-8312 FAX
FBI	11000 Wilshire Blvd	Los Angeles	CA	90024	(213) 272-6161	
Federal Forensic Assoc	P.O. Box 31567	Raleigh	NC	27612	(919) 848-3696	
FL Dept Law Enf.	P.O. Box 151776	Tampa	FL	33684	(813) 871-7125	(813) 871-7027 FAX
Forensic Analytical Cons	. 18471 Mt. Langley Ste S	Fountain Valley	CA	92708	(714) 964-5832	
Forensic Analytical Spec		Hayward		94545	(510) 887-8828	
Forensic Lab. Svcs.	P.O. Box 1484	San Luis Obispo			(805) 543-5202	(T. (A) AAA AAAT TAY
Forensic Sci Associates	3053 Research Drive	Richmond		94806	(510) 222-8883	(510)222-8887 FAX
Forensic Sci Services	6215 N Fresno St. #104	Fresno		93710	(209) 431-7875	(209)431-7080 FAX
Forensic Science Svc.	P.O. Box 402	Moraga		94556-0402 92020	(415) 376-1611	
Forensic Science Consul Forensic Science Serves		El Cajon Los Angeles		90004	(619) 441-1418 (213) 957-9800	
Forensic Science Serves		Phoenix		85019	(602) 841-6153	
Fresno CO Sheriff	2200 Fresno St.	Fresno		93717	(209) 488-3875	(209)488-1899 FAX
Honolulu Police Dept.	1455 S Beretania St	Honolulu	HI	96814	(808) 943-3281	(/
Human Identification Lab		Tuscon		85721	(602) 621-2827	(602)621-2088 FAX
Huntington Beach PD	2000 Main St	Huntington Bch	CA	92648	(714) 536-5682	(714)536-7172 FAX
Illinois State Crime Lab	1330 Marley Road	New Lenox	IL	60451-1314	(815) 727-5301	
Independent Examiner	2100 S. Park Ave.	Sanford	FL	32771	(407) 321-0772	
Indiana State Police Lab		Indianapolis,	IN	46219	(317) 899-8521	
Inst of Forensic Science		Oakland		94609	(510) 451-0767	(510)451-8329 FAX
	y 40 South Alabama Street	Indianapolis	IN	46204	(314) 236-3670	
John Jay College of C.J.		New York		10019	(212) 237-8899	(805)325-7026 FAV
Kern Regional Crime Lat		Bakersfield		93301	(805) 861-7656 (702) 229-3947	(805)325-7026 FAX (702)229-2948 FAX
Las Vegas P.D.	6765 W. Charleston Blvd.	Las Vegas		89102-9003	(213) 590-7207	(213)590-7080 FAX
Long Beach Police Dept.		Long Beach		90802 90057	(213) 974-7086	(213)413-7637 FAX
Los Angeles Co Sheriff	2020 W Beverly Blvd 555 Ramirez Space #270	Los Angeles Los Angeles		90012	(213) 237-0031	(213)237-0040 FAX
L.A. Co Dept of Coroner		Los Angeles		90033	(213) 343-0530	(213)223-5630 FAX
L.A. Co - USC Med Ctr	1200 N State St.Rm 2519	Los Angeles		90033-1084	(213) 226-7126	(/
McCrone Associates	1990 Jamestown Lane	Elgin	IL	60123	(708) 697-6268	
Canada de la Labora gamento	700 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7			1	The state of the s	

Medical-Legal Cons	8494 El Paseo Grande	La Jolla	CA	92307	(619) 459-7277	
Mesa Police Department	130 N Robson	Mesa	AZ	85201	(602) 834-2324	
Millett, Vanderwood	5500 Oakbrook Pky #200	Norcross	GA	30093	(404) 662-8509	(404)662-8532 FAX
Miragen Corp	10655 Sorrento Valley Rd.	San Diego	CA	92121	(619) 453-9777	
Morris-Kopec Forens In	7523 Aloma Ave #207	Winter Park	FL	32792	(407) 678-5508	(407)678-5508 FAX
Nichols Inst of Substanc	8985 Balboa Ave.	San Diego	CA	92123	(619) 694-5050	
NIS Regional Foren Lab	PO Box 220 Naval Station	San Diego	CA	92136-5220	(619) 556-4980	(619)556-5879 FAX
NISRFL-Pacific	P.O. Box 135	Pearl Harbor	HI	96860	(808) 471-9957	
North, III. Police Lab	1677 Old Deerfield Rd	Highland Park	IL	60035	(312) 432-8160	
N.J. State Police	P.O. Box 7068	West Trenton	NJ	08628	(609) 882-2000	
Oakland Police Dept	455 7th St. Rm. 608	Oakland	CA	94607	(510) 273-3386	(510)273-2251 FAX
Orange Co Sheriff-Cor	601 N. Ross	Santa Ana	CA	92701	(714) 834-4510	(714)834-4519 FAX
Oregon State Police	1111 SW 2nd Avenue	Portland	OR	97204	(503) 229-5017	(503)229-6638 FAX
Phoenix P.D.	620 W. Washington Street	Phoenix	AZ	85007	(602) 262-6197	
Quantum Analytical Lab	1000 8th Ave. #705	Seattle	WA	98104	(206) 621-1264	
Richard Whalley & Assoc		San Diego	CA	92102	(619) 232-6543	
Sacramento Co Dist Atty	4400 V Street	Sacramento	CA	95817	(916) 732-3840	(916)732-9620 FAX
San Bernardino S.O.	200 S. Lena Ave.	San Bernardino	CA	92307	(714) 387-2200	(714)387-2688 FAX
San Diego Co Sheriff	3520 Kurtz St	San Diego	CA	92110	(619) 692-5630	(619)296-4279 FAX
San Diego Coroner	5555 Overland Vae.Bldg 14	San Diego	CA	92123	(619) 694-2907	
San Diego Police Dept.	1401 Broadway MS 725	San Diego	CA	92101	(619) 531-2577	(619)531-2950 FAX
San Francisco ME Office		San Francisco	CA	94103	(415) 553-1694	
San Francisco P.D.	850 Bryant St	San Francisco	CA	94103	(415) 553-1161	(415)553-1483 FAX
San Mateo Co Sheriff	31 Tower Road	San Mateo	CA	94402	(415) 573-2906	(415)573-3667 FAX
San Mateo Police Dept.	2000 S. Delaware St.	San Mateo	CA	94403-1497	(415) 377-4588	(415)578-1455 FAX
Santa Clara County	1557 Berger Dr., #B-2	San Jose	CA	95112	(408) 299-2224	(408)298-7501 FAX
Serological Research Inst		Richmond		94806	(510) 223-7374	(510)222-8887 FAX
Technical Associates, Inc		Altadena	CA	91001	(818) 797-4827	(818)791-9695 FAX
Univ of Calif - Berkeley	Sch. of Public Health	Berkeley	CA	94720	(510) 642-1271	
Univ of Illinois	Univ. IL-Chicago Box 4348	Chicago	IL	60680	(312) 996-4632	
Univ of Okla, Coll. of Med	P.O. Box 26901 Rm. 38-R	Oklahoma City	OK	73190	(405) 271-2270	
University of Idaho	Dept. of Chemistry	Moscow	ID	83843	(208) 885-5985	
US Customs Laboratory	630 Sansome St., Rm 1508	San Francisco	CA	94111	(415) 705-4408	
Utah Dept. Public Safety	4501 S 2700 W	Salt Lake City	UT	84119	(801) 965-4487	
Valley Toxicology Svc.	P.O. Box 427	Sacramento	CA	95691	(916) 371-5440	
Ventura Co Sheriff	800 S. Victoria Ave.	Ventura	CA	93009	(805) 654-2394	(805)654-3399 FAX
WA State Pat Spokane	100 Public Safety Bldg.	Spokane	WA	99201	(509) 456-4144	(509)456-4051 FAX
WA State Pat Seattle	200 Public Safety Bldg.	Seattle	WA	98104	(206) 464-7038	(206) 587-5023 FAX
Washoe Co S.O. For Sci		Reno	NV	89512-1000	(702) 328-2800	(702)328-2831 FAX
Weber State College	WSC Crime Lab	Ogden	UT	84408-1206	(801) 626-6147	
Wonder Institute	P.O. Box 13891	Sacramento	CA	95853	(916) 488-8139	



"Your honor, having presented no witnesses and little or no evidence, the defense now wishes to punt..."



"Come with us, ma'am - and if I were you, I'd get a good lawyer. No one's gonna buy that 'my-husband-was-only-hibernating' story".

DISTINGUISHED MEMBER AWARD

AWARDS COMMITTEE

> Call for Nominations

The New Year is traditionally a time to reflect upon the past, to remember accomplishments, and to recognize very special people among us. The CAC is indeed fortunate to have a great number of people who generously share their talents with our organization, and it is fitting that we utilize this time to reflect on the services of our most distinguished members.

Since 1983, nine individuals have received the Distinguished Service Award:

George Sensabaugh	1983
Jan Bashinski	1984
Edward Blake	1985
Jim White	1986
Jerry Chisum	1987
Luke Haag	1988
John Thornton	1989
Dorothy Northey	1990
Edward Rhodes	1991

The Awards Committee is now seeking nominations for the Tenth Distinguished Member. Any member of the Association may nominate another for this award. Please use the form included with this newsletter for your nominations. Nominations must be received by February 28, 1992.

Distinguished Member Award Criteria:

- The candidate must be a member of the CAC (any category).
- 2) The candidate must have contributed significantly to the Association in one or more of the following areas:
 - a) Long-term service to the Association as a member of the Board of Directors and/or in committee(s).
 - Sustained production of papers or technical notes in newsletters or at seminars.
 - c) Organization of study groups, workshops, etc.
 - d) Significant research and dissemination of the information to the forensic community (i.e. journal or newsletter publication, seminar papers, workshops, studygroups, etc.)
 - e) Any other unususal or significant contributions to the improvement of the profession of criminalistics.

Dave Stockwell Awards Committee

