

Proceedings Note:

Publication of the March proceedings was delayed by the change in CAT assistant and office location. Paper copies of the Proceedings are in the process of being mailed as of June 15. Publication of the Proceedings within a month of the meeting will resume with the June and September meetings. Presentations from the March meeting were published on the web site shortly after the meeting.

Reminder: CAT Website Features

Home page: <http://www.cat-tox.org>

- Contains links to SOFT employment listings, CAT Forum, CCI courses and the searchable CAT Online Toxicology literature review.
- Updated information for the next CAT meeting and its program.
- Contact information for the CAT office, board members and chairs.

Proceedings Page: <http://secure.lunaweb.net/cal-tox/site/Proceeding.asp>

- Members-only access to the Proceedings and scientific presentations.

You must enter the password "ctox" (lower case, no quotes) to access electronic copies of the Proceedings and previous scientific presentations from CAT meetings.

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California Association of Toxicologists

ATTENTION MEMBERS

Effective April 15, 2004, the *California Association of Toxicologists* office will be relocating. The new address and phone number are:

California Association of Toxicologists (CAT)
4951 Flower Court
Rohnert Park, CA 94928
(707) 576-2415

Please send all correspondence, annual dues payments, and meeting registration to this new address. The new *California Association of Toxicologists* website is located at www.cal-tox.org. Please bookmark this site location and use the **contact CAT** link anytime you want to update your membership information, ask questions, and/or contact Board members or committee chairs.

QUARTERLY WORKSHOP AND MEETING

Friday, June 18 and Saturday, June 19, 2004

Important Pre-Registration and Hotel Information

Pre-registration deadline for the workshop and quarterly meeting is June 4, 2004. Both the correct payment in full and the pre-registration form must be received by June 4, 2004, to avoid the late fee and ensure that lunch is included. Do not fax "intent to register". Whether or not a late fee is assessed depends on the date that the form and payment are received. Payment by mail must be check or cash. No credit or ATM cards are accepted. Make check payable to "CAT". Pre-registration received after June 4, 2004, is charged a \$10 late fee per session. Payment cannot be refunded for cancellations received after June 4, 2004. There is no written acknowledgment of pre-registration prior to the meeting unless a self addressed and stamped envelope accompanies the payment.

For pre-registration: Mail the Quarterly Meeting Pre-Registration Form and payment to:

CAT ASSISTANT: 4951 Flower Court, Rohnert Park, CA 94928

***** NOTICE ADDRESS CHANGE FOR CAT OFFICE *****

Note that members must register for EACH DAY of the meeting (see below).

Hotel Accommodations: The meeting will be held at the Westin Hotel located at 191 North Los Robles in the beautiful historic Pasadena. All room rates must be placed before *May 30, 2004*. The discounted CAT conference rate is \$135/night.

- For reservations, call (800) 937-8461.
- Shuttle info: Super Shuttle (800) 258-3826 Burbank – \$15/passenger one way; LAX – \$17/passenger one way.
- For hotel shuttle please call Guest Services at (800) 937-8461.

Directions from Burbank-Glendale-Pasadena Airport: From East exit, bear left (North) onto N Hollywood Way towards I-5/Golden State Fwy South, continue southbound on I-5 to SR-134 (Ventura Fwy) East, exit onto Corson St towards Fair Oaks Ave/Marengo Ave, turn RIGHT (South) onto N. Los Robles Ave, travel about 1 block to hotel.

Directions from LAX Airport: travel South on Sepulveda Blvd South to the I-105 [Century Fwy] take I-105/Norwalk, continue to northbound I-110 towards Los Angeles, continue North into Pasadena and make right (East) on Colorado Blvd., LEFT (North) onto N. Los Robles Ave, travel about 2 blocks to hotel.

CAT WORKSHOP AND QUARTERLY MEETING REGISTRATION FORM

Workshop: Basic Toxicology Methods: Friday June 18, 2004

- | | | | |
|-----|---------|--|------------------------------|
| () | \$65.00 | Pre-registered CAT Members | (\$75.00 after June 4, 2004) |
| () | \$45.00 | Pre-registered CAT Emeritus/Student Member | (\$55.00 after June 4, 2004) |
| () | \$75.00 | Pre-registered Non Member | (\$85.00 after June 4, 2004) |

CAT Quarterly Meeting and Drug Facilitated Sexual Assault Workshop: Saturday June 19, 2004

- | | | | |
|-----|---------|--|------------------------------|
| () | \$65.00 | Pre-registered CAT Members | (\$75.00 after June 4, 2004) |
| () | \$45.00 | Pre-registered CAT Emeritus/Student Member | (\$55.00 after June 4, 2004) |
| () | \$75.00 | Pre-registered Non Member | (\$85.00 after June 4, 2004) |

Enclosed is the total pre-registration of \$ _____

Name

Professional/Business Affiliation:

Address

City/State/Zip

Phone

CALIFORNIA ASSOCIATION OF TOXICOLOGISTS

Friday, June 18, 2004

Basic Toxicology Methods

Site: **Westin Hotel**
191 North Los Robles Avenue
Pasadena, CA 91101
Ph: (800) 937-8461
Fax:: (626) 795-7669
www.westin.com/pasadena

Host: **Kristina Takeshita**
LAPD Crime Lab
555 Ramirez Street
Space 270
Los Angeles, CA 90012
Ph: (213) 847-0070
V8485@lapd.lacity.org

PRELIMINARY AGENDA

- 8:00am – 8:45am Registration and Continental Breakfast
- 8:45am – 9:00am Vendor Instructions
- 9:00am – 10:00am Debra Folsom, PhD – Huntington Library, San Marino, CA
Plant Derived Drugs
- 10:00am – 11:00am Dawn Parker – San Diego County Medical Examiner, San Diego, CA
Analysis of Benzodiazepines in Alternate Matrices by HPLC
- 11:00am – 11:15am BREAK
- 11:15am – 12:15pm Ric Cuchetto – LECO Separation Sciences
Multi-dimensional Chromatography/Simultaneous Scanning for Investigative Analyses: GCxGC-FID or Time of Flight MS (4D)
- 12:30pm – 1:35pm LUNCH
- 1:30pm – 1:45pm Tanisha Paige-Smith – LAPD Crime Lab, Los Angeles, CA
Did this DUI Case Show Flaws in Blood Evidence Handling? Case Review of People v. Bergamo
- 1:45pm – 2:45pm Dan Anderson, Supervising Toxicologist – Los Angeles County Coroner's Office, Los Angeles, CA
Up ... Up ... and Away! Living in a Cloud of Volatiles
- 2:45pm – 3:00pm BREAK
- 3:00pm – 4:00pm Eucen Fu – Los Angeles County Coroner's Office, Los Angeles, CA and Todd Swanton – LAPD Crime Lab, Los Angeles, CA
Phencyclidine: Dust, Dippers and Death
- 4:00pm – 5:00pm Marc Baggeri – Phenomenex, Torrance, CA
Demystifying Solid Phase Extraction for Toxicological Analysis of Biological Samples
- 5:00pm **Friday Night Social with MARTINI BAR!!!**

The AACC will probably approve this workshop for 6 ACCENT Credits. **AACC ACCENT CREDIT IS GIVEN ONLY FOR ATTENDANCE DURING A WHOLE SESSION.**

CALIFORNIA ASSOCIATION OF TOXICOLOGISTS

Saturday, June 19, 2004

Drug Facilitated Sexual Assault Workshop and Semi-Quarterly Meeting

Site: **Westin Hotel**
191 North Los Robles Avenue
Pasadena, CA 91101
Ph: (800) 937-8461
Fax:: (626) 795-7669
www.westin.com/pasadena

Host: **Kristina Takeshita**
LAPD Crime Lab
555 Ramirez Street
Space 270
Los Angeles, CA 90012
Ph: (213) 847-0070
V8485@lapd.lacity.org

PRELIMINARY AGENDA

- 8:00am – 8:30am Registration and Continental Breakfast
- 8:30am – 9:00am Business Meeting
- 9:00am – 10:00am Tony Wold, Deputy District Attorney, Ventura County
The Andrew Luster Case – The Prosecution of the Max Factor Heir
- 10:00am – 10:15am BREAK
- 10:15am – 11:15am Jo Ellen Dyer, PharmD – California Poison Control System, San Francisco, CA
GHB Abuse. Addiction and Assault
- 11:15am – 12:15pm Ginger Baker– New Mexico Department of Health, Albuquerque, New Mexico
A Review of Drug Facilitated Sexual Assault Cases in New Mexico
- 12:15pm – 1:30pm LUNCH
- 1:30pm – 2:00pm Dr. Raymond Kelly – Tox Tech, Henderson, NV
Evidentiary Issues in Drug Facilitated Sexual Assaults
- 2:00pm – 3:00pm Sara Kegler - Los Angeles County Coroner's Office, Los Angeles, CA
What's the Scoop on "Scoop"? Case Studies Involving GHB
- 3:00pm – 3:30pm Kenji Ota – California Department of Justice, Sacramento, CA
Endogenous Levels of GHB
- 3:30pm – 4:30pm Kenji Ota – California Department of Justice, Sacramento, CA
A Flunitrazepam Metabolite Confirmed by GC/MS from a Submitted Sexual Assault

The AACC will probably approve this workshop for 6 ACCENT Credits. **AACC ACCENT CREDIT IS GIVEN ONLY FOR ATTENDANCE DURING A WHOLE SESSION.**

THANKS TO VENDORS!

The March 2004 meeting received tremendous vendor support, with a total sponsorship contribution of \$8,100.00. Attendees participated in a "vendor trivia" quiz, and participant's names were entered in a raffle; Negin Aghdaie of L.A.P.D. Crime Laboratory was the lucky winner of a \$150 gift certificate to Best Buy.

When you are considering new technology in your laboratory, please give the our March 2004 sponsors an opportunity to assist you:

- ✓ Venture Labs
- ✓ Utak Laboratories, Inc.
- ✓ Shimadzu Scientific Instruments
- ✓ San Mateo Sheriff's Department
- ✓ Perkin Elmer Instruments
- ✓ Orasure Technologies, Inc.
- ✓ Neogen Corporation
- ✓ Immunalysis Corporation
- ✓ Full Spectrum Analytics
- ✓ Draeger Instruments
- ✓ Biochemical Diagnostics

California Association of Toxicologists
RESEARCH ASSISTANT GRANT

The California Association of Toxicologists has made available \$2,500 for a Research Assistance Grant. This grant is intended to fund research projects in the area of clinical and forensic toxicology. In addition, up to \$500 is available for travel expenses to recipients of the grant who will be expected to present their findings at a future CAT meeting. For further information, contact the Chair of CAT Research Assistant Grant by fax, mail or e-mail at the address below.

Robert L. Fitzgerald, Ph.D.
VAMC-113
3350 La Jolla Village Drive
San Diego, CA 92161
Ph: (959) 552-8585, ext. 7761 / Fax: (858) 642-6304
E-mail: rlfitzgerald@vapop.ucsd.edu

CAT QC/QA SPECIMEN SURVEY

The QC/QA program exists because of strong involvement with 38 laboratories over 14 different states participating in this unique inter-laboratory exchange proficiency program. It has become a way for host laboratories to test participants on problematic analytes or a way to introduce new drugs or trends that they are experiencing in their geographical region. There is minimal amount of work involved with hosting a proficiency sample and volunteers are obviously needed to keep this program striding in the right direction. If you are interested in hosting a survey or participating in the CAT proficiency sample, please contact:

DAN ANDERSON
Ph: (323) 343-0530
E-mail: danderson@coroner.co.la.ca.us

How Can I Join?

1. Your laboratory must be in the US or Canada
2. The analyst (or at least one member of the laboratory) must be a member of the California Association of Toxicologists (CAT).
3. Turn in the half-sheet below to Dan Anderson (Quality Assurance Chair, CAT).

DAN ANDERSON
Los Angeles County Dept of the Coroner
1104 N Mission Rd
Los Angeles, CA 90033
Ph: (323) 343-0530 / Fax: (323) 225-2235
E-mail: danderson@coroner.co.la.ca.us

YES, I wish to join the CAT Survey. My laboratory analyzes:

- Urine** **Serum** **Whole Blood**
 Drugs of Abuse **Broad Spectrum Screening**

Name _____

Lab _____

Address _____

Phone No: _____ FAX: _____

- I am not a member of the CAT. I have attached an application form.*

*A Membership Application Form and explanation of membership requirements is enclosed in this *Proceedings*; see "Forms."

FUTURE MEETINGS

- **American Association for Clinical Chemistry Annual Meeting and Clinical Lab Expo**

July 25-29, 2004

Los Angeles Convention Center

Los Angeles, CA

- **2004 FBI Forensic Toxicology Symposium & Joint Meeting of the Society of Forensic Toxicologists (SOFT) and The International Society of Forensic Toxicology (TIAFT)**

August 28 – September 3, 2004

JW Marriott Hotel on Pennsylvania Avenue

Washington, DC

Last day for online registration: July 1 www.soft-tox.org

CONTACT:

Marc A. LeBeau

Federal Bureau of Investigation

FBI Laboratory

Ph: (703) 632-7408

Fax: (703) 632-7411

Email: mlebeau@fbi.gov

California Association of Criminalists:

The Ventura County Sheriff's Department Crime Laboratory will be hosting the Fall 2004 meeting of the California Association of Criminalists, October 25-29, 2004, at the Ventura Beach Marriott Hotel.

A two-day Drugs and Driving Workshop will be presented by Sgt. Thomas Page and Dr. Marcelline Burns. The workshop will be of interest to both new and experienced toxicologists. Segments include DUI detection, Drug Recognition Evaluation, Impairment, Courtroom Issues between incident reports and toxicological findings, Standardized Field Sobriety Tests, case studies, and a controlled study of alcohol-dosed subjects.

More information and registration materials will be available at the California Association of Criminalists website, www.cacnews.org.

Future CAT Meetings:

- June 18-19, 2004 (two day meeting)
Kristina Takeshita, Los Angeles Police Department
Forensic Toxicology Basics
Westin Pasadena, CA (\$135/nt)
- Sept 24-25, 2004 (two day meeting)
Melinda Raines, Arizona Department of Public Safety
SSRI Workshop
Tempe Mission Palms (\$139/nt)
- March 11-12, 2005 (two meeting)
Kenji Ota and Dan Coleman, California Department of Justice
Workshop tentatively "Medical Conditions Affecting DUI"
Sacramento
- Summer 2005 (two day meeting)
Janice Deggendorf, Orange County Sheriff-Coroner
Orange County, CA
- Winter 2005 (two day meeting)
Jim Bourland, APL
Alternative Matrix Workshop
Las Vegas, NV (tentative)

- Spring 2006 (two day meeting)
Cathy Hamm, San Diego Medical Examiner's Office
Workshop TBA
San Diego, CA

BOARD OF DIRECTORS MEETING

March 12, 2004, Oakland, CA

The meeting commenced at 7:00 pm. The following members were present: Sarah Kerrigan, Todd Swanton, Kristina Takeshita, Greg Priebe, Kristina Fritz, Daniel Coleman, Tiffany Kuwahara, Kenton Wong and Michelle Sandberg. The meeting was chaired and recorded by Sarah Kerrigan (Vice President) on behalf of Jim Meeker (President) and John Hughes (Proceedings Secretary) who were unable to attend the meeting.

Kristina Takeshita and Todd Swanton (upcoming hosts) presented information on the upcoming CAT meeting, scheduled for June 18-29, 2004, in Pasadena. The theme for the workshop is "Back to Basics". The preliminary agenda and meeting budget was presented and accepted. Registration fees for pre-registered members will be \$65/day with the usual discounts for students and retired members and increased rates for non-members and on-site registrants. Rates at the hotel are \$135/night and a "martini event" is scheduled for the evening mixer.

On behalf of **Jim Meeker** (President), Sarah Kerrigan presented the nominees for officers and members at large as follows:

President:	Sarah Kerrigan
Vice President	Daniel Anderson
Secretary of Membership:	Greg Priebe
Secretary of Proceedings:	John Hughes
Treasurer:	Kristina Fritz
Member at Large – North:	Daniel Coleman
Member at Large – South:	Tiffany Kuwahara

Sarah Kerrigan (Vice President) presented information on upcoming meetings (see Future CAT Meetings)

In addition, a number of the CAT documents have been updated and will be circulated to officers and board members in April/May.

Greg Priebe (Membership Secretary) presented the slate of new members. Two emeritus members were approved by the Board. It was suggested that two additional volunteers would be beneficial to assist with review of CAT membership applications. A solicitation for volunteers will be made at the business meeting on Saturday. The Membership Management System from Breeze Interactive was also highlighted. This offers a number of advantages in terms of membership tracking, due payments, meeting registration and a number of other features.

Kristina Fritz (Treasurer) presented financial reports which are in good standing. Once again, advantages of the Membership Management System were highlighted. All board members were asked to review this before the next meeting to provide feedback. The Board will investigate this further. The most critical elements identified were: CAT roster, dues payment (tracking) and meeting registration. Also, Kristina suggested that all website changes are coordinated through the Proceedings Secretary so that they can be "batched" and prioritized to reduce the costs of frequent updates to the website.

Daniel Coleman (Member at Large North) announced that CCI will host the Forensic Alcohol Supervisor course in May. Also, certified phlebotomists may now draw blood following new legislation. The Northwestern Association of Forensic Science will host a Marijuana Symposium, similar to the one hosted by SOFT several years ago. Dan also suggested an Elmer Gordon style forum at the CAT meetings, for which there was general support, along with "roundtable" style meetings.

Tiffany Kuwahara (Member at Large South) reported on the CAC meeting last month.

Michelle Sandberg (Vendor Liaison) gave an update on vendor-related issues and reminded the Board that we rely heavily on their support due to the cost of meetings.

Other committee reports presented at the meeting included:

- Quality Assurance (Michelle Sandberg for Daniel Anderson)
- ACCENT Credits (Kenton Wong)
- Lending Library (Cathy Hamm)

The meeting was closed to non-voting members.

Kristina Fritz indicated that a number of checks have been returned because they are not being sent to her within an acceptable time frame. The CAT Special Assistant is waiting 5 months to send checks to CAT for payment.

Due to ongoing problems with the CAT Assistant (primarily, geographical location, lack of familiarity with CAT operations and meetings, timeliness of financial transfers and sporadic difficulties with meeting hosts) a vote to replace the assistant was held. The vote to replace the current CAT Assistant was unanimous. Potential candidates for the duties of the CAT Assistant were presented at an earlier meeting (November 2003). They included Mary Howard (formerly with the California Dept. Justice), Lyn Alkan/Greg Priebe and Association Management (who currently provide service to the American Society for Mass Spectrometry). Lyn Alkan/Greg Priebe were selected (4/6 vote). Greg Priebe was not permitted to vote. This decision was based upon Greg's knowledge of the organization and Lyn's relevant work experience.

The meeting was adjourned at 9:45 pm

BUSINESS MEETING

March 13, 2004, Oakland, CA

The meeting was called to order at 8:30 am by Vice President, Sarah Kerrigan. The **Vice President** thanked Kenton Wong and staff from the San Mateo County Sheriffs Crime Laboratory for hosting the current meeting. **Jim Meeker, President** of CAT, was not able to attend the business meeting and sent his apologies. Also, **John Hughes, Recording Secretary/ Proceedings Editor** was currently in Australia and was therefore unable to attend.

Sarah reminded members of recent changes to the CAT website and thanked Alan Barbour for his many years of service. The Board is also considering additional website development to include a membership management system that would allow meeting registration and dues payments to be made online. Sarah announced that Bill Phillips would be showcasing the CAT website later during the business meeting. She thanked Bill, Rob Fitzgerald and John Hughes for their involvement in the ad hoc "Website Innovation Committee". They were responsible for soliciting bids,

determining feasibility, and laying the groundwork for the new site. In other activities, Sarah announced that she is updating CAT documents, including the Policies and Procedures Manual and Host Guidelines. These should be ready for circulation sometime in May. Jim Meeker is also in the process of contacting committee chairs to discuss consolidation of some activities. These decisions will be approved by the Board and announced to the membership at the June meeting in Pasadena. Sarah thanked the CAT Officers for all of their hard work during the last quarter and encouraged members to participate in CAT as either meeting hosts or committee members. The Board is looking for two additional members for the Membership Committee. Anyone interested should speak to Sarah Kerrigan or Greg Priebe after the meeting.

Vice President, Sarah Kerrigan presented upcoming CAT meetings scheduled through Spring 2006 (see Future Meetings)

Membership Secretary, Greg Priebe, presented candidates for CAT. A show of hands vote approved the following:

Associate Members

Roster Information

Members Name: Ryan Bascon
Degrees: BS Biology, CEBU Doctors Coll. Of Medicine, Phillipines
Name of Business: Varian, Inc.
Business Address: 25200 Commercentre Drive Lake Forest, CA 92630
Business Title: Technical Support Specialist
Business Phone: (800) 854-0277, ext. 7717
Fax: (949) 699-3687
E-mail: ryan.bascon@varianinc.com
Mailing Address: 25200 Commercentre Drive Lake Forest, CA 92630

Roster Information

Members Name: Jamie Kelly
Degrees: BS Biology, Humboldt State Univ, Arcata, CA
Name of Business: Varian, Inc.
Business Address: 25200 Commercentre Drive Lake Forest, CA 92630
Business Title: Toxi-Lab/Dat Technical Consultant
Business Phone: (949) 639-5437
Fax: (949) 699-3687
E-mail: jamie.kelly@varianinc.com
Mailing Address: 524 E. Wilshire Ave Fullerton, CA 92832

Roster Information

Members Name: Mark M. Stoltman
Degrees: BS Bio-med, St. Cloud State Univ, St. Cloud, MN
Name of Business: US Dept Homeland Security/TSA
Business Address: 3300 Sky Harbor Blvd Phoenix, AZ 95034
Business Title: Security Screener
Business Phone: (602) 267-9578
Mailing Address: 2020 E. Inverness Ave, 1062 Mesa, AZ 85204

Roster Information

Members Name: Harry Burnett
Degrees: BS Chemistry, SD State Univ
Name of Business: US Drug Enforcement Admin
Business Address: 2815 Scott St
Vista, CA 92083
Business Title: Chemist
Business Phone: (760) 597-7947
Fax: (760) 597-7884
E-mail: hburnett2@cox.net
Mailing Address: 2141 Chateau Court
Chula Vista, CA 91913

Roster Information

Members Name: Lynette Kogler
Degrees: BS Physics & Astronomy, Texas
Christian Univ Fort Worth
Name of Business: Scottsdale Police Department
Business Address: 9065 E. Via Linda
Scottsdale, AZ 85258
Business Title: Criminalist I
Business Phone: (480) 312-5289
Fax: (480) 312-5092
E-mail: lkogler@scottsdaleaz.gov
Mailing Address: 9065 E. Via Linda
Scottsdale, AZ 85258

Roster Information

Members Name: H. Chip Walls
Degrees: BS Chemistry/Bio, Univ Alabama
Birmingham
Name of Business: Univ of Miami School of Med,
Dept of Pathology
Business Address: 12500 SW 152nd Street
Miami, FL 33177
Business Title: Technical Director, Toxicology Lab
Business Phone: (305) 232-7020
Fax: (305) 232-7461
E-mail: hchipw@aol.com
Mailing Address: 12500 SW 152nd Street
Miami, FL 33177

Reclassification to Full Member

Roster Information

Members Name: Dan Anderson
Name of Business: LA Co Dept of Coroner
Business Address: 1104 N. Mission Rd
Los Angeles, CA 90033
Business Title: Supervising Criminalist
Business Phone: (323) 343-0530
Fax: (323) 222-5171
E-mail: danderson@coroner.co.la.ca.us
Meetings Attended: Albuquerque – May 2003, Culver
City – Nov 2003

Roster Information

Members Name: Michelle Sandberg
Name of Business: LA Co Coroner Office, Toxicology
Business Address: 1104 N. Mission Rd
Los Angeles, CA 90033
Business Title: Senior Criminalist
Business Phone: (323) 343-0530
Fax: (323) 222-5171
E-mail: msandberg@lacoroner.org
Meetings Attended: Albuquerque – May 2003, Culver
City – Nov 2003
Sponsors: Joseph Muto, Robert Taylor

Full Members

Roster Information

Members Name: Diane Machen
Name of Business: Washoe County Sheriff's Office
Business Address: 911 Parr Blvd
Reno, NV 89503
Business Title: Criminalist
Business Phone: (775) 328-6397
Fax: (775) 328-2831
E-mail: dmachen@mail.co.washoe.nv.us
Meetings Attended: Albuquerque – May 2003, Culver
City – Nov 2003
Sponsors: Dr. James Meeker, Kenton Wong
Mailing Address: 911 Parr Blvd
Reno, NV 89503

Roster Information

Members Name: Trevor Gillis
Name of Business: Santa Clara Co Crime Lab
Business Address: 1557 Berger Drive, Ste B-2
San Jose, CA 95112
Business Title: Criminalist
Business Phone: (408) 793-6753
Fax: (408) 793-6759
E-mail: tgillis@crimelab.sccgov.org
Meetings Attended: Santa Rosa – Aug 2003, Culver
City – Nov 2003
Sponsors: Alice T King, Mercy Cardema
Mailing Address: 1557 Berger Drive, Ste B-2
San Jose, CA 95112

Reclassification to Member Emeritus (vote not required)

Roster Information

Members Name: Randall Baselt
Mailing Address: PO Box 8299
Foster City, CA 94404
Phone: (650) 344-2256
Fax: (650) 344-2256
E-mail: rbaselt@yahoo.com

Treasurer, Kristina Fritz presented reports for the November meeting (net expense of \$2,044). Second and third quarter financial reports were also presented. CAT has a checkbook balance of approximately \$23,000 and a reserve of approximately \$14,100 in a money market account. The detailed reports follow these minutes in the *Proceedings*.

Member-At-Large North, Daniel Coleman will also be hosting the March 2005 meeting. The location will be either Sacramento or Berkeley. The hosts are considering having the meeting on Thursday/Friday rather than Friday/Saturday. Anyone who has a preference of day or location should provide feedback to Dan as soon as possible. Dan also announced that CCI will hold Forensic Alcohol Supervisor class in May. He also advised of new legislation that will allow certified phlebotomists to draw blood in forensic casework and a Senate bill that affects proficiency testing for ASCLD-LAB accredited laboratories.

Michelle Sandberg presented the results of the CAT survey for **Quality Assurance Chair, Dan Anderson** (details published in the *Proceedings*).

Janet Seaquist of the **Drugs and Driving Committee** informed members about an upcoming meeting Seattle, hosted by Dr. Barry Logan and funded by the National Highway and Traffic Safety Administration. The purpose of the meeting is to

bring together officers, DREAs, toxicologists and attorneys to discuss drug-impaired driving issues.

Kenton Wong provided an update on **ACCENT Credit** information and **Cathy Hamm** indicated that the **Lending Library** was still active.

Bill Phillips showcased the new CAT website (www.ca-tox.org). He highlighted membership, upcoming meetings, literature review and proceedings sections of the new website. He thanked **Alan Barbour** for his many years of service as **CAT Webmeister** and informed the membership that Alan would be receiving a certificate of appreciation and gift certificate in recognition of his contribution to membership.

Future meeting host, Kristina Takeshita presented highlights of the June meeting. The meeting will be held at the Westin Pasadena at a rate of \$139/nt. The workshop focus is "Back to Basics" and the social event will include a martini party with evidential breath test equipment.

Finally, on behalf of **President, Jim Meeker**, Sarah Kerrigan presented nominees for CAT Officers and Members at Large as follows:

President:	Sarah Kerrigan
Vice President	Daniel Anderson
Secretary of Membership:	Greg Priebe
Secretary of Proceedings:	John Hughes
Treasurer:	Kristina Fritz
Member at Large – North:	Daniel Coleman
Member at Large – South:	Tiffany Kuwahara

The meeting was adjourned to the scientific sessions at approximately 9:10 am.

Respectfully submitted,

Sarah Kerrigan for:

John Hughes

Recording Secretary/Proceedings Editor

FINANCIAL REPORT

SECOND QUARTER 2003-2004

September 1, 2004 to November 30, 2003

Checking Account

Beginning Balance (9/01/04) **39,248.16**

Income

Membership Dues (2003-2004)	10,090.00
August 2003 Mtg Registration	11,005.00
November 2003 Mtg Registration	8,170.00
Interest	7.43
Total Income	\$ 29,272.43

Expenses

August 2003 Meeting	18,093.68
November 2003 Meeting	13,720.55
Taxes 2003	703.00
CAT Assistant	4,125.59
Web Site	3,463.00
AACC	85.00
Stamps	37.00
Returned Checks (2)	420.00
Total Expenses	\$ 40,647.82

Income Less Expenses

29,272.43 – 40,647.82 **<\$ 11,375.39>**

Ending Balance (11/30/04)

\$ 27,872.77

Money Market Account

Beginning Balance (9/01/03)

\$ 14,099.90

Interest

14.07

Ending Balance (11/31/03)

\$ 14,113.97

THIRD QUARTER 2003-2004

December 1, 2003 to February 29, 2004

Checking Account

Beginning Balance (12/01/03)

\$ 27,872.77

Income

Membership Dues (2003-2004)	940.00
November 2004 Meeting	6,845.00
Interest	6.94
Total Income	\$ 7,791.94

Expenses

November 2003 Meeting	2,338.56
CAT Assistant	2,752.69
Web Site	7,048.88
AACC	360.00
Returned Check	85.00
Total Expenses	\$ 12,585.13

Income Less Expenses

7,791.24 – 12,585.13 **<\$ 4,793.19>**

Ending Balance (2/29/04)

\$ 23,079.58

Money Market Account

Beginning Balance (12/01/03)

\$ 14,113.97

Interest

14.06

Ending Balance (2/29/04)

\$ 14,128.03

FINANCIAL SUMMARY

November 2003 Meeting

Income

Pre-Registration	6,845.00
On-Site Registration	1,170.00
Vendor Support	7,000.00
Total Income	\$ 15,015.00

Expenses

Hotel Costs	14,107.36
Speakers	1,329.35
Vendor Coordinator and Vendor Incentive	205.72
Meeting Materials (Copies)	1,416.68
Total Expenses	\$ 17,059.11

Income Less Expenses

15,015.00 – 17,059.11 **<\$ 2,044.11>**

CAT TOPICS

Report from Member at Large North – Dan Coleman

CCI Liaison

The California Criminalistics Institute (CCI) users advisory board last met on November 14, 2003. The chief of DOJ's forensic bureau is against losing CCI to budget cuts. A forensic alcohol supervisor course is planned for May 24, 2004 in Sacramento. DNA, trace and firearms are the major subjects currently being promoted by CCI due to the pending retirements in July of many veteran DOJ criminalists.

Do the members feel there is a need for toxicology courses? What is the demand? I would be happy to hear from members with ideas or interest in courses to be offered.

Future Meetings

Deadline dates for the SOFT meeting include May 3 for the FBI symposium registration. July 1 is the last day to cancel minus only a \$75 fee. August 1 is the last day for on-line registration. The SOFT website is chock full of info.

Miscellaneous

Legislative activity brought to my attention by Bill Phillips, if it has not been brought up already: AB 371 has taken effect. This law allows registered phlebotomists to draw blood for alcohols. SB 1623 has been recently introduced. This bill would allow ASCLD certified labs in the state to obtain licenses from DHS, allow ASCLD inspections to substitute for DHS, sets up a review committee (on which the CAT will be represented) for complaints, allow ASCLD proficiency program. The Spring 2005 meeting is being hosted by DOJ. I am helping to plan a two-day meeting in Sacramento. I am seeking feedback on members' preferences for meeting days. A Thursday/Friday combo has been suggested. This may allow for cheaper hotel rates, convenience for vendors and members whose labs grant time for the meetings. I have only received feedback in favor of the Thursday/Friday format. Our workshop idea is "Medical Conditions and DUI". We would like to present how various medical conditions may affect a DUI investigation. How these conditions may affect the DRE exam and field sobriety testing. Suggestions or speaker ideas are welcomed.

COMMITTEE REPORTS

Report of the Drugs and Driving Committee

Janet Anderson-Seaquist

In May, CCI is offering the Forensic Alcohol Supervisor's Course from the 25 through the 29 of the month. The National Highway Traffic Safety Administration is a sponsor of a Harmonization meeting to be held in Washington. The meeting participants will include toxicologists, attorneys and law enforcement personnel and CAT will be represented at the meeting.

In June, the International Association of Chiefs of Police will be sponsoring a DRE training conference in Phoenix Arizona from the 7 through the 9 of the month.

In October, CAC is expecting to host a two day seminar on "Licit and Illicit Drugs and Their Impairment" as part of the CAC meeting.

The National Safety Council's Committee on Alcohol and Other Drugs has just finalized a report dealing with the scientific validity of time of test laws. The report should be available to review on their website, soon.

Report of the Forensic Alcohol Advisory

Halle Weingarten

There is a piece of legislation pending in state Senate, SB 1623, that will have a profound effect on forensic alcohol testing in California; if passed. This differs from previously proposed legislation that would have required DHS to license any ASCLD accredited lab, would give an inordinate amount of control of alcohol testing to only three crime lab directors, and seemingly would deregulate alcohol testing for some labs while retaining the present structure for others.

The current (April 12, 2004) version would eliminate DHS licensure for forensic alcohol labs or personnel. This is a major departure from current legislation, from previously proposed legislation and from regulations in most (all?) other states, as well as federal breath alcohol testing regulations. This goes before the Senate Health and Human Services Committee April 14, past the *Proceedings* deadline. You can obtain more information by going to the Legislature website:

www.leginfo.ca.htm

Please email Committee or Officers Report to Proceedings Secretary, John Hughes and President, Jim Meeker by June 11, 2004. Thank you.

Report of the Legislative Liaison

Anne ImObersteg

The following Bills of interest to the members of CAT are currently being considered:

AB 506, Maze. Sexual assault victims: toxicology testing. Existing law sets forth minimum standards for the examination and treatment of victims of sexual assault, including the collection of physical evidence. This bill would provide, in addition and subject to the victim's refusal, that where indicated by the history of the contact, the victim's urine and blood sample would be collected for toxicology purposes, to determine if drugs or alcohol were used in connection with the assault. The bill would provide that the toxicology results obtained would be inadmissible in any criminal or civil action or proceeding against any victim and would be confidential except for purposes of prosecuting or defending the crime or crimes necessitating the examination.

AB 1026, as amended, Levine. Vehicles: driving-under-the-influence: penalties.(1) Existing law requires a court to consider a concentration of alcohol in the person's blood of 0.20% or more, by weight, or the refusal of the person to take a chemical test as a special factor that may justify enhancing the penalties in sentencing, in determining whether to grant probation, and, if probation is granted, in determining additional or enhanced terms and conditions of probation, when a person is convicted of violating specified driving-under-the-influence provisions (DUI). This bill would decrease the required blood-alcohol concentration from 0.20% to 0.15%. The bill would make conforming changes in other, related provisions of law.

AB 1108, Bermudez. Child custody: drug testing. Existing law requires a court to consider the habitual or continual illegal use of controlled substances, as defined, or continual use of

alcohol by either parent in making a determination of the best interest of a child in child custody proceedings. This bill would, until January 1, 2008, authorize a court to require any parent who is seeking custody of, or visitation with, a child who is the subject of the proceeding, to undergo testing for the illegal use of controlled substances and the use of alcohol under specified circumstances. The bill would require the court to order the least intrusive method of testing, be in conformity with certain federal procedures, provide that the results of this testing shall be confidential and maintained as a sealed record, and would permit a parent or guardian who is tested to contest the test results at a hearing.

AB 1938, as amended, Maze. Driving under the influence: sanctions. Existing law requires a court to consider a concentration of alcohol in the person's blood of 0.20% or more, by weight, or the refusal of the person to take a chemical test as a special factor that may justify requiring the installation of certified ignition interlock device for a first-time offense, enhancing the penalties in sentencing, in determining whether to grant probation, and, if probation is granted, in determining additional or enhanced terms and conditions of probation, when a person is convicted of violating specified driving under the influence provisions (DUI). This bill would require if a person is convicted of a DUI offense, and the concentration of alcohol in the person's blood is 0.20% or more, by weight, that person is guilty of a felony punishable by imprisonment in a county jail or the state prison depending upon the underlying offense and the number of prior convictions occurring within 7 years of the recent violation. The bill would provide that if under other applicable sentencing provisions that otherwise would be imposed, the sentence would be imprisonment in county jail or imprisonment in county jail or state prison, the court would be required, in either case, to impose a sentence of imprisonment in state prison for 16 months, 2 or 3 years or a longer term if so prescribed in the applicable provision.

AB 2571, as introduced, Longville. Alcohol and drug abuse professionals. Existing law provides for the licensure and regulation of various healing arts practitioners, including those who provide counseling-related services, such as psychologists, social workers, and marriage, family, and child counselors. This bill would create the Board of Alcohol and Other Drugs of Abuse Professionals in the Department of Consumer Affairs. The bill would provide for the licensing and certification of alcohol and other drugs of abuse professionals. The bill would prohibit a person from engaging in the professional practice of alcohol and other drugs of abuse counseling outside of a licensed or certified treatment facility unless the person is licensed. The bill would establish criteria and unspecified fees for certification and licensure to provide alcohol and other drugs of abuse counseling and treatment. The provisions of the bill on licensing and certification would become operative on January 1, 2006, subject to certain conditions, and would become inoperative and be repealed on January 1, 2007.

SB 249, as introduced, Knight. Vehicles: driving under the influence. Existing law makes it a crime for a person to drive a vehicle under the influence of alcohol or drugs or both alcohol and drugs. This bill would set forth the intent of the Legislature to enact legislation reforming the laws of the state relating to driving under the influence of alcohol or drugs or both alcohol and drugs.

SB 408, Torlakson. Vehicles: driving under the influence: driver's license sanctions. 1) Existing law authorizes the Department of Motor Vehicles to impose restrictions on a person's privilege to drive, instead of a complete suspension, based upon a showing of a critical need to drive, after the department has issued an order suspending or delaying the driving privilege as a result of a violation of a specified provision prohibiting a person under the age of 21 years from driving with a blood-alcohol concentration of 0.01% or greater, as measured by a preliminary alcohol screening test or other chemical test. This bill, additionally, would require the department to determine that the person has no prior DUI convictions within 7 years of the current offense, and that the person's driving privilege has not been suspended or revoked under certain DUI provisions, prior to imposing a restriction instead of a suspension on the driving privilege. (2) Existing law provides that any document containing data prepared and maintained in the governmental forensic laboratory computerized database system that is electronically transmitted or retrieved through public or private computer networks to or by the department is the best available evidence of the chemical test results in all administrative proceedings conducted by the department. This bill, additionally, would provide that any other official record that is maintained in the governmental forensic laboratory, relates to a chemical test analysis prepared and maintained in the governmental forensic laboratory computerized database system, and is electronically transmitted and retrieved through a public or private computer network to or by the department is admissible as evidence in the department's administrative proceedings.

SB 1694, as introduced, Torlakson. Driving under the influence: sanction. (1) Under existing law, it is unlawful to drive a motor vehicle while under the influence of alcohol, a drug, or both, or 0.08% or more, by weight, of alcohol in one's blood, or while addicted to the use of a drug. There is another crime of driving under the influence of alcohol, a drug, or both, or with 0.08% or more, by weight, alcohol in one's blood, and causing injury to another person. Under existing law, for violations of each of these offenses, commonly known as driving under the influence and driving under the influence causing injury, respectively, a court may impose sanctions, as specified. Existing law imposes increased sanctions on persons who have previously been convicted of DUI offenses within 7 years of the commission of the current offense. This bill would delete the 7-year condition as a condition to imposing the increased sanctions on repeat offenders.

SB 1697, as introduced, Torlakson. Vehicles: driving under the influence: driver's license sanctions. 1) Existing law requires the Department of Motor Vehicles to suspend the driver's license of any person arrested for driving under the influence (DUI). The department, under certain circumstances, is also required to suspend, restrict, or revoke the driver's license of any person convicted of DUI. A court is authorized to order, as a condition of probation for a conviction of DUI, that the defendant's driver's license be restricted, as specified. This bill would consolidate the driver's license suspension, restriction, and revocation functions for DUI arrests and convictions under the department, as revised. The bill would authorize the court to disallow the issuance of a restricted license if the court determines that a person would present a traffic safety or public safety risk if allowed to operate a motor vehicle during a suspension period. The bill would require the court to advise a person convicted of a DUI offense at the time of sentencing that the driving privilege may not be restored

until the person provides proof satisfactory to the department of successful completion of a driving-under-the-influence program of the appropriate length required by law, which is based on the blood-alcohol concentration and number of prior DUI convictions.

SB 1623, as introduced, Johnson. Laboratories: licensing and accreditation. Under existing law, the State Department of Health Services is required to adopt and publish regulations to be used in approving and governing the operation of laboratories conducting testing by or for law enforcement agencies of blood, urine, or tissue for the purposes of determining the concentration of ethyl alcohol in the blood of persons involved in traffic accidents or in traffic violations, and the testing of breath samples under the same circumstances. This bill would require the department to adopt and publish regulations, that incorporate model specifications published by the National Highway Traffic Safety Administration, to be used in approving and governing the operation of laboratories and law enforcement agencies engaging in breath testing under the circumstances described above. The bill would require the department to convene a review committee, prior to adopting the regulations, and to submit the proposed regulations to the committee for review. This bill would additionally authorize the performance of the blood, urine, or tissue tests described above by a laboratory holding a current accreditation to perform the test from the American Society of Crime Laboratory Directors/Laboratory Accreditation Board (ASCLD/LAB). The bill would require the department to issue a license to a laboratory so accredited, and would exempt these laboratories from departmental regulations governing blood, urine, and tissue tests, except with respect to proficiency testing requirements. The bill would establish procedures that permit laboratories accredited by the ASCLD/LAB to appeal the director's determinations. The bill would require the department to accept proof of inspection by the ASCLD/LAB in satisfaction of the department's existing inspection requirement. The bill would make additional conforming changes to existing law.

Additional information may be found on the internet at:
<http://www.leginfo.ca.gov/index.html>

Report of CAT Research Assistant Grant

No new applications have been received although there have been several inquiries related to the grant. The CAT has money available to sponsor at least one grant this year, so get your applications in. If you have any questions, please contact Rob Fitzgerald at:

rfitzgerald@vapop.ucsd.edu

The following committees report no new information:

- By-laws Review and Revision
- Lending Library
- New Drugs

WINTER 2004 SURVEY RESULTS

Case History:

A 44-year-old female was found unresponsive, apneic and cyanotic on the floor at home. Paramedics transported her to the hospital with CPR in progress. She was pronounced dead shortly after arrival in the ER. Her medical history is remarkable for schizophrenia, seizure disorder, hypertension and medication/illegal drug abuse.

Autopsy:

Autopsy findings are significant for cardiomyopathy and pulmonary congestion.

Cause of Death:

Pending toxicology.

Specimens:

Approximately 12 mL peripheral autopsy blood preserved with sodium fluoride.

Sample Preparation:

Drug-free porcine blood, preserved with sodium fluoride, was supplemented with the following:

Loxapine	1.0 mg/L
Amoxapine	0.2 mg/L
Phenytoin	5.0 mg/L
Morphine, free	50 ng/mL

Results:

Thirty-eight laboratories received the survey sample. The response rate was 60.5% or 23 laboratories submitting results. All three reference laboratories reported the first three drugs. It should be noted that the level of free morphine fell below screening and/or confirmation limits for many labs. None of the reference laboratories reported morphine; therefore it is considered a "bonus drug." However, morphine was reported and quantitated by 11 of the 23 respondents.

8 of 23	(35%)	laboratories detected all four drugs
7 of 23	(30%)	laboratories detected three of four drugs
2 of 23	(9%)	laboratories detected two of four drugs
2 of 23	(9%)	laboratories detected one of four drugs
4 of 23	(17%)	laboratories reported none detected

The four labs that reported no drugs found are primarily using immunoassays only for specific drug classes or screening with TLC or immunoassays ONLY for drugs of abuse.

Proficiency Sample Objectives:

Loxapine is a tricyclic antipsychotic that has been in use since 1976. After seeing none for years, we have had several loxapine cases in the last few months.

Amoxapine was added as one of the metabolites of loxapine. It was added in a much lower concentration to reflect the levels we have found in casework.

Phenytoin is a commonly prescribed anticonvulsant (Dilantin) with a therapeutic range of about 10-20 mg/L. Low levels of the drug are of interest in postmortem work to confirm use (or non-use) of the drug as well as possible diagnosis of seizure based on subtherapeutic dosing of an epileptic patient. It should be noted that the reporting limit for many labs is 10 mg/L. Therefore, two labs reported phenytoin levels detected at < 10 mg/L.

Morphine (free) was added at a low level to evaluate the laboratories detection limits. In postmortem casework, even a low level of 50 ng/mL may have significance to the case when all information is taken together to determine cause of death.

This combination of drugs/levels were taken directly from one of our cases. Just as an aside, the liver levels in this case were Loxapine, 194 mg/kg and Amoxapine, 38 mg/kg. The gastric contained approx. 300 mg of loxapine. Also detected were methamphetamine and amphetamine. The cause of death in this case was listed as loxapine toxicity and polysubstance abuse with the mode as accidental.

CAT SURVEY
Winter 2004

Lab #	Loxapine mg/L	Amoxapine mg/L	Phenytoin mg/L	Morphine ng/mL	Comments
R1	0.86	0.19	2.3		
R11	0.92	0.12	<10		
R13	1.30	0.2	3.5		
3	present	present	present	50	
6	1.00	0.31		53	
7			5.1		Methanol
8				72	Morphine below cutoff
9					SAMSHA-5 plus Benzos/Elisa
10	present		present		
14	1.60	0.28	5.1	42	Also reported 8-hydroxyamoxapine
15					EIA only common drugs of abuse
16	1.48	0.23	6.4	50	
17	0.93	0.24	5.3	43	
18	0.89	0.22	3.25		
20	present	present		50	
21	1.10	0.13	<10	46	
22	present	present			
24	1.20	0.19	5.3	49	
27					EMIT barb, op, amph, pcp, coc
					THC, Benzo, methadone, methaqualone, propoxy
31					TLC/GLC
33	present		present		
36	qns	0.19	6.4	49	
38	1.10	0.22	5	53	

SUMMARY TABLE

	Loxapine	Amoxapine	Phenytoin	Morphine
N=	11	12	10	11
mean	1.12 mg/L	0.21 mg/L	4.8 mg/L	51 ng/mL
SD	0.23	0.05	1.27	7.6
2SD range	0.65 – 1.6	0.11 – 0.31	2.3 – 7.3	36 – 66

Presentations from March 2004 Meeting

Available in Members-Only Section fo CAT website: www.cat-tox.org
Password: ctox

Speaker presentations (provided at the speakers option) are posted as pdf files on the CAT Proceedings home page, accessible only to CAT members.

EXOTIC DRUGS AND TOXINS WORKSHOP

Friday, March 12, 2004

- Jerry Bucklin President, Network Environmental Systems, Folsom, CA.
Designer Drug Analogs.
- Thomas J. Inzana, Ph.D. Professor of Bacteriology, Virginia Technical College of Veterinary Medicine, Blacksburg, Virginia.
***Francisella tularensis* as a Bioterrorism Agent.**
- Sarah Kerrigan, Ph.D. Chief Toxicologist – New Mexico Department of Health, Albuquerque, NM.
Strychnine Overdose: Suicide or Broken Heart?
- John Perez, Ph.D. Professor of Biology and Director of the Natural Toxins Research Center, Texas A&M University, Kingsville, TX.
Venom Toxin Profiling and the Serpentarium Database.
- Dan Anderson, MS and Michelle Sandberg, MS Los Angeles County Coroner's Laboratory
Where the Wild Things Are: Oleander and Other Weeds.
- Richard Ko and Pharm. D., Ph.D. Food and Drug Research Scientist, California State Department of Health Services, Sacramento, CA
Poisonings in Selective Traditional Chinese Medicines.
- James Meeker. Ph.D. West Tennessee Healthcare – Medical Center Lab, Jackson TN.
Ma Huang Intoxication.

Saturday, March 13, 2003

- Leo Kadehjian, Ph.D. Biomedical Consultant, Palo Alto, CA.
Khat and Cat at CAT.
- Alexander Shulgin, Ph.D. Author of *Pikhal* and *The Simple Isoquinolones*
Psychoactive Cacti [presentation not provided]
- Jon C. Mirsalis, Ph.D. DABT, Director of Toxicology and Pharmacology, Stanford Research Institute (SRI) International, Biosciences Division, Menlo Park, CA
Preclinical Toxicity and Pharmacokinetics of Therapeutics for Infectious Diseases and Biodefense Pathogens.
- Vina Spiehler, Ph.D. DABFT, Spiehler and Associates, Newport Beach, CA
Foxglove (*Digitalis purpea*) and the Work of Vincent Van Gogh. [presentation not provided]
- Mary Silver, Ph.D. Professor of Ocean and Marine Sciences, University of California at Santa Cruz, Santa Cruz CA
Toxic Algal Blooms on the Coast.
- Chris Feasel Deputy District Attorney, San Mateo County District Attorney's Office, Redwood City, CA
Kava Kava DUI: A Courtroom Experience. [presentation not provided]
- James Tolliver , Ph.D. Pharmacology Division, Drug Enforcement Administration (DEA) Headquarters, Washington, DC
Salvia Divinorum: A New Drug of Abuse. [presentation not provided]