

**AMERICAN CHEMICAL SOCIETY
JOINT BOARD-COUNCIL
COMMITTEE ON CHEMICAL SAFETY
229th ACS National Meeting**

March 14, 2005

**Combined Open and Executive Session
Marriott Gaslamp Quarter Hotel
Carillo Ballroom A
San Diego, CA**

Dr. Alan Hazari, Committee Chair, called the Spring 2005 meeting of the Committee on Chemical Safety to order at 8:30 AM on March 14, 2005. The Committee members participated in a moment of silence to honor the memory of Larry Funke. New members Dr. Patrick Barber, Dr. David Crumrine, Ms. Marsha Phillips, and Mr. Norman Henry III, and ConC Liaison Dr. Lawrence Barton were announced.

The following Committee members, associates, consultants, and liaisons attended all or part of the meeting:

Dr. Joseph Antonucci, Dr. Cherlynlavaughn Bradley, Ms. Jean Delfiner, Dr. Kenneth Fivizzani, Ms. Barbara Foster, Dr. Alan Hazari, Dr. Arthur Marcinkowsy, Dr. Daniel McDonald, Mr. Russell Phifer, Dr. Paul Schickedantz, Mr. Erik Talley, Dr. Wayne Wolsey, Dr. Patrick Barber, Dr. Lester Bynum, Dr. David Crumrine, Dr. Laurence Doemeny, Mr. James Kapin, Ms. Marsha Phillips, Dr. Robert Alaimo, Dr. Diane Schmidt, Dr. Lawrence Barton, Dr. Jack Breazeale, Jr., Mr. Robert Gates, Mr. Mike Nevill, Ms. Eileen Segal, and Dr. Robert Rich, ACS Staff Liaison.

Guests who were present for all or part of the meeting included Steve Sichak, ACS Councilor.

1. Approval of Minutes

Following a formal introduction of members and guests, the minutes of the August 23, 2004 meeting were reviewed and approved, as amended.

CCS01-2005 - The Committee VOTED unanimously to approve, as amended, the minutes of the August 23, 2004 Philadelphia meeting.

2. Chair's Report – Dr. Alan Hazari

- Welcome to members and guests

Dr. Hazari extended thanks to Dr. Fivizzani for his assistance and his words of wisdom during the transition phase.

- Written Report to Council (Philadelphia Meeting)

Dr. Hazari discussed a few actions that were taken by the Committee since the Philadelphia meeting, including the review of the Consumer Products Safety Commission publication, *School Chemistry Laboratory Safety Guide*.

Dr. Hazari announced the following official Committee appointments:

- Dr. Cheryl Lavanaugh Bradley, Chair of Partnerships Subcommittee
- Dr. Wayne Wolsey, CCS Liaison to the Committee on Community Activities
- Ms. Jean Delfiner, CCS Liaison to the Inter-Committee Safety Working Group
- Ms. Barbara Foster, First Appointed Committee Secretary
- Mr. Erik Talley, Chair of CCS (former CCS-CEI) Task Force on Laboratory Environmental Health and Safety

3. Staff Liaison's Report – Dr. Robert Rich

- Report on distribution of Committee publications

Dr. Rich discussed the Inventory Report and Year End Sales Report regarding the various CCS publications. Dr. Rich reported that he has shipped free copies of Committee publications on behalf of Committee members presenting to various groups. Persons ordering hardcopies of publications should call the ACS Office of Society Services at 800-227-5558. Committee members who are interested in receiving free copies of publications to distribute at official CCS presentations should contact Dr. Rich.

- Reprinting of *Safety in Academic Laboratories, Volume 2*

SACL, Volume 2, has been reprinted with an orange cover and will be shipped out as current stocks are exhausted.

- Update on interim actions on behalf on the Committee

Dr. Rich mentioned the Consumer Products Safety Commission document review and thanked members for their assistance with this request.

4. Reports of the Subcommittees

A. Safe Practices - Mr. Russell Phifer

- Plant safety issues

Mr. Phifer discussed the Subcommittee's "Checklist for Small Chemical Plant and Academic Facility Security Managers to Deal with Terrorism and Vulnerability Issues." He asked the Committee members to review the information and provide feedback to him.

- Nanomaterial safety

Nanomaterial safety was discussed in the Subcommittee meeting. Members concluded that there is not enough data at this time to draw conclusions about safety. Informative Web sites regarding nanotechnology include:

NIOSH <http://www.cdc.gov/niosh/topics/nanotech/> (accessed March 2005)

NIH <http://www.niehs.nih.gov/oc/factsheets/nano.htm> (accessed March 2005)

- Teaching safety

Teaching safety to undergraduates was discussed at the meeting, with a special mention of an online course that was held during the fall semester, 2004. The Division of Chemical Health and Safety conducted a daylong Teaching Safety symposium at the San Diego meeting.

- *Student Laboratory Code of Conduct*

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Mr. Phifer presented the Subcommittee members with a copy of the West Chester Area School District (located in West Chester, Pennsylvania) *Student Laboratory Code of Conduct, Secondary Science Program*. The members will review and standardize this document so that it can be posted to the CCS Website and used as a template for secondary schools.

Mr. Kapin announced the Presidential Symposium on Chemical Plant Security, to be held on Monday, at the ACS National Meeting in Washington, DC. There was much discussion about the need to move the CCS meeting to another day to allow the members to attend the symposium. It was suggested that the meeting could be held on Monday evening to accommodate the members' schedules. Dr. Rich will investigate the various meeting time scenarios.

B. Resources - Dr. Daniel McDonald

➤ Biotechnology and nanotechnology

Subcommittee members were reminded of the need for proactive pursuit of establishing chemical health and safety practices for academic laboratories engaged in emerging technologies, such as biotechnology and nanotechnology. Members were encouraged to attend the CHAS symposium on nanotechnology, held on Monday afternoon at the San Diego meeting.

➤ Spanish translation of *SACL*

The members discussed the recent Spanish translation of *SACL* and supported posting this translation on the CCS Website.

➤ Teaching safety

The members discussed teaching undergraduate safety in labs and how to include lab safety aspects in the ACS Committee on Professional Training (CPT) guidelines, which were created by CCS and CHAS in 2002. It was suggested that responsible parties should examine how chemical safety is taught as part of the accreditation process. The accreditation practices of the American Board of Engineering Technology (ABET) could be used as a model.

➤ Green chemistry

It was suggested that the Subcommittee examine further integration of green chemistry concepts in future editions of *SACL* and other CCS publications.

C. Partnerships - Dr. Cherlynlavaughn Bradley

➤ Committee affiliate

Dr. Bradley reported that Wayne Collins, a lab safety manager, wishes to assist the Subcommittee as appropriate and will attend the fall meeting.

➤ K-12 Science Safety Guidelines

Ms. Delfiner reported that most states have not written K-12 science safety guidelines. New York City published a set of guidelines in the sixties that were revised about two years ago. This publication is now available online and Mr. Talley suggested that CCS could provide a link to this document.

➤ *Chemical Safety for Small Businesses Manual*

Dr. Fivizzani reported that the revision of the manual is approximately one-third completed at this time. He hopes to present the final draft to Dr. Rich by the end of June.

➤ Publications

The Subcommittee discussed various ways to publicize the CCS safety publications. Suggestions included CLIPs, Cut and Paste, Divisional newsletters, the Councilors' newsletters, the student

affiliates' newsletters, and the 2-year college list serve. Other ideas included participation at science fairs and teachers' conferences. Dr. Hazari distributed a one-page informational sheet that lists the

CCS publications in a concise format. A possible source for publicizing safety documents is the *Journal of Chemical Education*, although this would require an expenditure of funds. There was a brief discussion on the Spanish translation of *SACL*.

➤ Partnerships

Mr. Talley reported that the American Biological Safety Association (ABSA) is interested in partnering with CCS. It was suggested that CCS and ABSA could include the partner's Web site and designate liaisons to coordinate documents. Dr. Hazari received contact names from Dr. Hill for ABSA and the NIH Division of Safety.

Dr. Wolsey has received no response to his emails to the radiation safety contacts. He plans to call them upon his return. Dr. Wolsey has been appointed as the CCS Liaison to the Committee on Community Activities (CCA). The 2005 National Chemistry Week theme is "The Joy of Toys." Ms. Delfiner is the CCS Liaison to NCW's safety issues.

5. Web Site Update – Mr. Erik Talley

➤ Report on activities since the last meeting

Mr. Talley reported that he has updated the Committee Roster and the Chair's Message and added the Spring 2004 National Meeting Committee and Subcommittee meeting minutes. Additionally, he updated the external links and plans to make a link to nanosafety Web sites. Please send ideas for new links to him for inclusion on the site. Mr. Talley encouraged persons to look at their work sites to see if they are linking to our CCS Web site, <http://www.chemistry.org/committees/ccs>.

Mr. Kapin volunteered to provide biological safety links. He suggested that a CCS member should make a presentation at the next ACS Leaders Conference.

Dr. Hazari mentioned that local sections should include a link to CCS on their Web sites.

Dr. Rich reported that the ACS is redesigning their Web site and that there will be changes in the near future.

6. Reports of CCS Liaisons

➤ CCS Task Force on Laboratory Environmental Health & Safety – Mr. Russell Phifer

The former CCS-CEI Laboratory Environmental Health and Safety Task Force is now the CCS Task Force on Laboratory Environmental Health and Safety. This Task Force is the oldest continuing ad hoc task force, functioning for 24 years. Dr. Alaimo will continue to serve as the CCS Liaison for this Task Force. Mr. Talley has been appointed as Chair of the Task Force. Several members will meet with ACS Books Monday afternoon to discuss the next edition of their book, *Laboratory Waste Management*. Four members attended an EPA hearing in DC and met with other partnership groups, including the Campus Safety, Health and Environmental Management Association (CSHEMA), a division of the National Safety Council.

➤ **ACS Division of Chemical Health and Safety - Ms. Eileen Segal**

Mr. Phifer displayed the 2003 ChemLuminary Award that was presented to CHAS at the Philadelphia meeting.

CPT members Will Polik, Vice-Chair, and Cathy Nelson, attended the CHAS meeting to discuss incorporation of safety training and education into the undergraduate chemistry curriculum. CPT created a supplement to the "Guidelines and Evaluation Procedures in Undergraduate Professional Education in Chemistry." CPT requested that CHAS members submit news items to include in the CPT newsletter, which is distributed to all faculty members at ACS-approved institutions. Additionally, CPT suggested the development of safety-related material, which could be distributed to faculty members.

Several CHAS members have submitted resumes and notices of interest to participate in the Organization for the Prohibition of Chemical Weapons (OPCW). The program's aim is to improve technical compliance of laboratories in developing countries and in countries whose economies are in transition.

CHAS members voted to maintain the dues at the current rate for 2006.

C&EN reported that they intend to ask CHAS to review safety-related news prior to publication. (CCS members discussed the role of CCS in reviewing safety-related materials.)

The editor of *AIChE Safety News* will accept news items from CHAS for publication in its online newsletter.

The CHAS 2005 Award winners were announced:

- The Howard Fawcett Chemical Health and Safety Award - Edward Rau
- The Tillmanns-Skolnick Award – Russ Phifer
- The College and University Health and Safety Award – MIT and the University of Nevada-Reno

CHAS members continue to be involved in Regional Meetings.

Ms. Segal invited CCS members to attend the CHAS/Small Business Division Joint Social on Tuesday, from 5:00-6:30 PM at the San Diego Marriott, Columbia Room 2.

➤ **Committee on Community Activities – Dr. Jack Breazeale**

Dr. Breazeale reported that CCA has established a working group on safety to review various publications. The NCW theme for 2005 is "The Joy of Toys." *Safety Guidelines for Community Activities* is available online and is available as a CD from David Harwell, ACS Staff Liaison, at 202-872-6078.

➤ **Committee on Chemists with Disabilities – Dr. Bob Gates**

The CWD reviewed "The Chemical Safety Manual for Small Businesses" and submitted comments to Dr. Fivizzani for inclusion in the revised document.

➤ **National Registry of Certified Chemists (NRCC) – Dr. Robert Alaimo**

Dr. Alaimo serves as one of two ACS members (with Ruth Hathaway) of the Board of Directors of NRCC. It was noted that CCS sponsored the original CHO certification program. The ACS was one of the original sponsors of NRCC, but withdrew funding. NRCC has lobbied the ACS to resume funding and will be notified of the ACS decision at the San Diego meeting.

7. Old Business

➤ Update on revision of *Chemical Safety Manual for Small Businesses* – Dr. Ken Fivizzani

Dr. Fivizzani plans to finish the revision of this manual and send the text to Dr. Rich by the end of June 2005.

➤ Committee's role as an ACS "Policy-Related" Committee – Dr. Robert Rich

Dr. Rich discussed the ACS Policy Statement Development and Approval document, included in the Agenda Book. Mr. Phifer referred members to the ACS Web site

http://www.chemistry.org/portal/resources/ACS/ACSContent/government/issues/public_policy_priorities/PPP_2005_2006.pdf to access the document, "Public Policy Priorities 2005-2006."

8. New Business

➤ Translation to Spanish of *Safety in Academic Chemistry Laboratories, Volume 1*

Ms. Foster informed the members of the recent events that led to the Spanish translation of *SACL* by students at the University of Costa Rica. It has been noted by Dr. Hazari's colleague, Dr. Marco De Jesus, that the translation contains several idiomatic expressions that are unique to Costa Rican society. Dr. De Jesus advises that these terms must be written in a form that is universally recognized by all Spanish readers. Dr. Rich contacted a translation service and obtained a quote (\$875.00) for the cost of text editing of *SACL*. Members discussed the need for technical persons to review the document to ensure that the technical aspects are correctly translated to Spanish. Mr. Talley volunteered to take the lead on this project. Dr. Alaimo, Dr. McDonald, and Ms. Foster will assist. Dr. McDonald will contact the State Department in an effort to distribute the document to key colleagues in South America.

➤ Promotion and advertising of Committee publications

To further advertise CCS publications, Committee members suggested inclusion in Web sites, newsletters, and various publications. Mr. Phifer suggested an article on CCS publications in the journal of CHAS. Dr. Hazari will submit an article to *C&E News*. Dr. Fivizzani will present a paper at this meeting on the history and work of the CCS. Members should mention CCS at Regional Meetings.

Dr. Crumrine mentioned that the Advanced Placement teacher workshops are excellent venues to discuss the CCS. Ms. Phillips suggested participation at State Fairs.

Dr. Bradley will prepare a few paragraphs for inclusion in various publications on the importance of the CCS and the benefits of CCS to academia and other groups.

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➤ **Petition on Election Procedures**

The Committee discussed the Petition on Election Procedures

➤ **Liaisons to ACS Committees and other organizations**

The Committee discussed liaisons with other groups of interest, including: ACSSA, ASTM International, Two Year College Chemistry Consortium, Chemistry Chairs and Safety Officers, Green Chemistry Institutes, ACS International Activities Office, and the ACS Division of Chemical Technicians.

➤ **Plant Safety Symposium**

A Presidential Symposium, entitled, "Chemical Plant Safety – Where Will We Be in 2015?" has been planned for the Washington, DC meeting. This event, cosponsored by CHAS, CCS, and several other divisions, will affect our Monday meeting time. Members present indicated that they would be able to meet from 5:30-9:00 PM on Monday evening.

The meeting was adjourned at 11:35 AM.

Meeting minutes prepared and submitted by Barbara L. Foster.