

Joint Board-Council Committee on Environmental Improvement
15 August 2015 – Boston, MA

UPCOMING MEETINGS

Date	Location	Meeting Theme (Chair)
03/12/16	San Diego	Computers in Chemistry (Kenneth Merz)
08/20/16	Philadelphia	Chemistry of the People, by the People and for the People (Rudy Baum)
04/01/17	San Francisco	Advanced Materials, Technologies, Systems and Processes (Kathryn Beers)
08/19/17	Washington D.C.	Chemistry's Impact on the Global Economy (Nancy Jackson)
03/17/18	New Orleans	Nexus of Water, Energy, and Food
08/18/18	Boston	Chemistry – from Bench to Market
03/30/19	Orlando	Chemistry for New Frontiers
08/24/19	San Diego	Chemistry of Water
03/21/20	Philadelphia	TBD
08/22/20	San Francisco	TBD

ATTENDANCE (Group photo in Appendix 1)

Members, Associates, Consultants, and Liaisons:

- **In attendance:** Laura Pence (Chair), Ray Garant (Staff Liaison), Chris Avery, Bryan Balazs (ConC Liaison), Jerry Bell, George Cobb, Alan Elzerman, Jurgen Exner, Jack Fowle, Elise Fox, Helen Gerhard (Ethics Liaison), Emily Grumbling, Katie Hunt (CA Liaison), John Jayne, Michael Matthews, Timothy McAuley, Faye McNeill, Cathy Middlecamp, Martin Mulvihill, Anthony “Tony” Noce, Eileen Nottoli, Sherine Obare, Melissa Pasquinelli (Secretary), Keith Peterman, Robin Rogers, Barclay Satterfield, Susan Shih (SOCED Liaison), Bassam Shakhashiri, James Seiber, Jennifer Tanir
- **Absent:** Carol Henry, Laura McConnell, Darlene Schuster, Kate Weber

ACS Staff: Jenny MacKellar (ACS GCI), Carl Maxwell (ACS OPA)

Guests: David Constable (ACS GCI), Glenn Ruskin (Director, ACS Office of Public Affairs), Brian Walker (Washington, D.C. Section), Anne T. O'Brien (New York Section).

APPROVAL OF THE MINUTES OF THE MARCH 2015 MEETING

As our first order of business, the Committee voted by voice to *certify the interim action (via email) of the approval of minutes from the 21 March 2015 meeting of the Committee in Denver, CO.*

CONC LIAISON'S MINUTE

Bryan Balazs, CONC Liaison, recognized Laura Pence for her service and leadership as CEI Chair for 3 years and presented her a plaque. A photo is given in Appendix 1.

CHAIR'S REPORT

Pence reported that with the sponsorship of CEI, CFC's as a National Historic Chemical Landmark had passed through the NHCL committee and would be considered by the Board after the ACS meeting.

Pence explained the appointment process for Members, Associates, and the Chair. She also explained that the Vice Chair position is not designed to be for succession planning.

Pence gave congratulations to the new ACS Fellows from CEI: Tony Noce and George Cobb, and Past CEI Member and Chair Matt Fisher.

Pence asked for people to contact her if they are interested in volunteering for any of the projects listed in the new strategic plan that is in Tab 3 of the agenda book.

SUSTAINABILITY SUBCOMMITTEE

The Sustainability Subcommittee materials may be found behind Tab 5 in the agenda materials. A written report is given in Appendix 2.

Motions

The Subcommittee on Sustainability moved and the Committee voted by voice to ***fund the Local Section Sustainability Activity Grant Proposal from the Portland Local Section.***

The Subcommittee on Sustainability moved and the Committee voted by voice to ***impanel from the subcommittee and authorize to act on behalf of the Committee in the selection of the 2016 recipients of the ACS-CEI Award for Incorporating Sustainability into Chemical Education.***

Pence appointed Sherine Obare to chair the review.

PUBLIC POLICY SUBCOMMITTEE

Public Policy Subcommittee materials may be found behind Tab 6 in the agenda materials. A written report is given in Appendix 3.

Motions

The Subcommittee moved and the Committee voted by voice to ***recommend that the ACS Board of Directors adopt the draft ACS Statement “Energy Policy.”*** Chris Avery abstained from the vote.

The Subcommittee moved and the Committee voted by voice to ***recommend that the ACS Board of Directors adopt the draft ACS Statement “Testing for Endocrine Disruption,” as revised.***

The Subcommittee moved and the Committee voted by voice to ***impanel four writing teams to revise the policy statements “Biomonitoring,” “Global Climate Change,” and “Chemical Risk Assessment and Regulatory Decision Making,” as well as to develop a new statement concerning “Genetically Modified Organisms.”***

Pence appointed George Cobb to lead the writing team on biomonitoring, John Jayne and Faye McNeil to lead the writing team on global climate change, Carol Henry to lead the writing team on chemical risk assessment, and Chris Avery to lead the writing team on genetically modified organisms.

CEI STRATEGIC PLAN 2016-2018

Laura Pence provided a summary of the Strategic Planning Retreat held in mid-June by a subgroup of the CEI membership. She emphasized that the Strategic Plan is meant to be a dynamic document rather than a static one. Please see Tab 3 of the agenda materials for more details. Specific items that were highlighted include:

- New Vision Statement: A sustainable world enabled through the sustainable practice and use of chemistry.
- New Mission Statement: Advance sustainability thinking and practice across ACS and society for the benefit of earth and its people.
- From the following goals, several projects (also called ‘strategies’ by ACS Strategic Planning language) were developed for the next 1-2 years, as given in the agenda materials (pages 3.3 to 3.19):
 - Goal 1: Engage key researchers, industry decision makers, and consumers to incorporate sustainability into their practice and use of chemistry.
 - Goal 2: Equip ACS members and advocates to be influential voices about policies in sustainable chemistry via development of appropriate tools for the relevant audiences.
 - Goal 3: Engage networks of chemists and citizens to advance sustainability education and communication.
- Moving forward, Pence requested input on committee and meeting organization, and the following were suggested:
 - One person stated that the current committee structure seems appropriate for achieving these goals.
 - It was asked about what will be done with work that is being done in the subcommittees that were not reflected in the strategic plan.
 - It was pointed out that there are overlapping goals across current subcommittees and there tends to not be sufficient cross-talk across the subcommittees to be the most efficient in accomplishing that work. It was suggested to find ways to facilitate the dynamics.
 - Other ideas include meeting by project rather than by subcommittee during the in-person meeting, and fostering communications between in-person meetings.
 - Should we have a third subcommittee on communications and advocacy?
 - Have an additional activity for the policy subcommittee for roll-out beyond developing policies?
 - Highlight particular projects by giving presentations within the conference itself, through committee awards, or disseminate through publications and such.
 - Organize by topic rather than by function? (Thus the “water” group would do policy, rollout, programming, etc.) Or have focus groups during the meetings to help support particular topics from different constituents (programming, education, communication, etc.) It was noted that not all policy statements need this type of support, but rather the high impact ones.
 - Can we increase the visibility and caliber of our awards by getting external sponsors and making official national awards? It was noted that there are already existing national awards, and so we should consider what we could contribute to that space or any gaps that we could fill.
 - We need to couple our activities with measurable items relative to our mission statement.
 - It’s important to keep in mind the audience for all activities and the likelihood of participation from those audiences.
 - Is there a way that we can restructure our outreach (such as our local section awards) to foster others to be our ambassadors around topics and policies?

Pence appointed:

- Alan Elzerman to lead the project on CPT support materials.
- Katie Hunt to lead the project on developing an industrial activities report.
- Elise Fox to lead the project on CEI advocacy fly-ins.
- Marty Mulvihill to lead the project on sustainability talking points.

- Chris Avery and Barclay Satterfield to lead the project developing the policy statement communication plan.

OFFICE OF PUBLIC AFFAIRS REPORT

Maxwell provided a verbal summary report, and a written report in Tab 7 (pages 7.2 to 7.11) in the agenda materials. Specific items that were highlighted include:

- Energy: A broad energy package is moving forward, which includes Shaheen-Portman energy efficiency, critical minerals and rare earths R&D, grid security/modernization, exoscale computing, microlabs, DOE science reauthorization.
- Climate: The clean power plan includes reductions in emissions by 2030 to be 32% below 2005 and caps on emissions by state according to a formula; states refusing to comply will have a federal plan imposed, which is meant to encourage cap and trade, and states have until Sept 2016 to submit a plan.
- Sustainable and Green Chemistry: Trying to get a Sustainable Chemistry Research and Development Act (Senator Coons), which includes reauthorization of NSF Green Chemistry program, public/private partnerships in green chemistry, and interagency coordination and research support.
- Toxic Substances Control Act:
 - Passed TSCA Modernization Act of 2015 (H.R. 2576), but does not including language of sustainable chemistry, so ACS is currently deciding whether to endorse it.
 - Frank R. Lautenberg Chemical Safety for the 21st Century Act of 2015 (S. 697), passed committee, expecting action in September. ACS has already endorsed this bill.

GREEN CHEMISTRY INSTITUTE (GCI) REPORT

David Constable provided a report on the highlights of ACS Green Chemistry Institute[®] (ACS GCI) activities since their last report to CEI in March 2015. Please see Tab 7 (pages 7.12 to 7.18) of the agenda materials for more details. Specific items that were highlighted include:

- Looking forward to the 20th Annual Green Chemistry and Engineering Conference in Portland, OR, June 14 – 16, 2016.
- Continuing to work on the GC&E Education Roadmap; planning workshops to generate content. Look out for opportunities to participate! You can find out more here: <http://www.acs.org/content/acs/en/greenchemistry/students-educators/education-roadmap.html>
- Several successful roundtables pushing science and research as well as educational activities.
- Different level of roundtable discussion for industry engagement: Biochemical Technology Leadership Roundtable concept, across the value chain.
- Now online: Green Chemistry Innovation Portal, www.greenchemistryportal.org, in collaboration with Green Chemistry and Commerce Council:
 - Discover research and funding opportunities in green chemistry.
 - Continue discussions outside of conferences.
 - Ask questions and seek answers from experts.
 - Request help for making B-2-B connections.
 - Showcase green chemistry innovations.

ANNOUNCEMENTS

Chris Avery reminded that the debate that he is hosting is Tuesday afternoon, “How Do We Respond to Climate Change?” It is being co-sponsored by ENVR and PRES, and will be held in the Boston Park Plaza hotel in the Plaza Ballroom, 3:30-5:00 pm.

George Cobb mentioned that on Monday there is a joint session of ENVR, AGRO, and TOXI on global issues that we face and what outcomes have come out so far, entitled “Global Research Needs: Identifying and Prioritizing Efforts to Sustain Environmental Quality.”

Eileen Nottoli mentioned that with her local section, the California Section, is working on funding to have Jerry Bell, Ph.D., present workshops for high school chemistry teachers (K-8 science teachers would be welcome as well) in June 2016. The Section is large geographically and they would like workshops in the Bay Area and three rural areas.

NEW BUSINESS

(None)

RECOGNITIONS

MOTION: Be it resolved that the Committee on Environmental Improvement recognize and thank committee member Darlene Schuster for her decade of service to the committee and the Society.

MOTION: Be it resolved that the Committee on Environmental Improvement recognize and thank CEI Chair Laura Pence for her extraordinary leadership in that role during 2012 and 2014-2015 and wish her Godspeed in all of her future endeavors.

Laura Pence also made specific acknowledgements to each member of the CEI ‘family.’

ADJOURNMENT

The meeting adjourned at 5:40 pm.

This document completes the Minutes of the Joint Board-Council Committee on Environmental Improvement for 15 August 2015 in Boston, MA.

Respectfully submitted,
Melissa A. Pasquinelli
Secretary

Appendix 1—Photos
Attendee Group Photo



Pence Receiving Recognition Plaque from Bryan Balazs



Appendix 2—Sustainability Subcommittee Notes (submitted by Tony Noce, Chair)

Subcommittee on Sustainability, Committee on Environmental Improvement

Meeting Notes—Fall 2015 (Boston)

Saturday, August 15, 2015

In Attendance: Tony Noce (Chair), Jenny MacKellar (Staff Liaison), Sherine Obare, Mike Matthews, Susan Shih, Eileen Nottoli, Alan, David Constable, Cathy Middlecamp (morning only), Keith Peterman, Robin Rogers, Jennifer Tanir, Melissa Pasquinelli, Katie Hunt, Helen Gerhard (afternoon only)

Summary of Discussions (as compiled by Jenny MacKellar)

1. Support material for inclusion of sustainability in CPT guidelines
 - a. Alan Elzerman will help to support this going forward. Melissa has information about what has been done by CEI in the past.
2. Local Section Mini-Grants
 - a. Consideration of any current applications (for action) – We have funded 3 mini-grants so far. We have budget for 4 winners per year but there is some extra money in the budget so we could propose to use additional funds to support both submissions if they are both worthy.
 - i. Other considerations – how can we involve the local sections? Can we bring people or these ideas to National Meeting? If we want to share the outcomes from the mini-grants we would need to create a format for sharing information after the fact. We could put these requirements into the application. The liaison should discuss the reports with the subcommittee. The liaison should help the winners create their reports.
Action: Revise the application to ask for more impact reporting. (Melissa and Jennifer)
 - ii.
 - b. Reports from Champions on the three mini-grants awarded at the Denver meeting
 - i. Cornell
 - ii. Lehigh Valley
 - iii. Midland
 - c. Continuing discussion of how to expand the community
 - d. Proposed changes to the application process (*Weber, Tanir, Pasquinelli*)
3. ACS Initiatives
 - a. Climate (including the Climate Toolkit)
 - i. What else can we be doing here? We have Jerry and Bassam to support our efforts. Can we create a program/example of how to use the program? How are we facilitating access to the toolkit?
 - b. COP Project (ACS student participation in international climate negotiations)
 - c. Water (in collaboration with ES&T Editor David Sedlak)
4. ACS-CEI Sustainability in Education Award
 - a. Establishment of Award Review Panel (**for action**)
 - b. Proposed changes to the award rubric (*Peterman, Elzerman, Middlecamp*)
 - c. Report on advertising of the award (*Peterman*)
 - d. Award timeline status
 - e. Discussion of a possible journal article looking back at award winners to date
5. Programming
 - a. Report of the CEI Representative to the Multidisciplinary Program Planning Group (Tanir, Themes for Future Meetings)

- b. Award Symposia
 - i. Award in Excellence in Sustainable Education – happens at the spring meeting. Keith can provide guidance but wants to focus on COP program. Several years of the award could position us well to write a J Chem Ed article. Matt Fisher would also be a good resource for this project. Need to establish award review panel during this meeting.
 - ii. Rubric revised – p. 86 of agenda book. Revisions are meant to clarify the scoring rubric. The subcommittee was happy with the revisions.
 - iii.
- c. Regional Meeting programming w/ ENVR
 - i. Two local section grants went to regional meeting programming and CEI has done some programming with ENVR. ENVR just did a strategic planning session and they would like to partner more closely with CEI to do more programming at regional meetings and local sections.
 - ii. AACT would be a good partner for programming but there is concern about the quality of information submitted from teachers to the AACT sharing platform. Information submitted should be peer reviewed. Could be a good option for mini-grant program
- d. Chemistry & the Environment Film Series (*McConnell, Obare*)
 - i. Matt Meo (?) and someone from Undergrad Programs wanted to put together a small group from SOCED and CEI (4 volunteers and 4 staffers) to discuss the movie. This group will look to revamp the film series. Sherine and Laura will volunteer to serve on this group.
ACTION: Tony will connect Sherine and Laura to Matt Meo.
 - ii.
 - iii. Want a program that lasts beyond the week of the National Meeting. Where is CEI making a lasting impression? Can we create something that we can easily share with other groups and at other meetings. We should consider this with every program.
 - iv.
- e. Program your passion
 - i. Three ways to be involved: create programming, find others that are doing programming on an interesting topic and co-sponsor, work with another Division to make it happen
 - ii. ENVR and CHED have both been good places to co-sponsor. Look here and we can put our name on things with these Divisions and any others that have appropriate programming
 - iii. How late is too late to co-sponsor? Technically never, but it might not be in the program book if it happens later.
 - iv. Strategic Plan indicates that CEI should be creating more programming. Partner with GCI and other Divisions to do this.
 - v. CEI, MPPG, CA did a join symposium on separation science that will be in ES&T.
 - vi. We should be thinking about how we're sharing outcomes from symposia
- 6. ChemLuminary Award
 - a. Jennifer volunteers to make changes to the application for clarity. Should be clearer about what we want to get out of this award. Clarify our metrics of success. Update to reflect goals of our current strategic plan.

Appendix 3—Public Policy Subcommittee Notes (submitted by Jurgen Exner, Chair)

CEI Policy Subcommittee

Boston ACS Meeting

August 15, 2015

In Attendance: Jurgen Exner (Chair), Carl Maxwell (Staff Liaison), Chris Avery, George Cobb, Jack Fowle, Elise Fox, Helen Gerhard, Emily Gunderson, John Jayne, Tim McAuley, Faye McNeil, Mary Mulvihill, Laura Pence, Barclay Satterfield, Jim Seiber

Summary of Discussions (as compiled by Chris Avery)

- Laura/Carl/Ray provided an overview of how the policy development process within ACS works.

Policy statements being developed in 2015

- Energy statement
 - Jack Fowle moved to approve the statement as is. Elise Fox seconded the motion.
 - After discussion, the subcommittee voted to approve the statement as is. Chris Avery abstained for the record.
- Endocrine disruption statement
 - Subcommittee made recommendations for altering the statement from the version in our committee agenda books:
 - Alterations of recommendations on solely advocating funding
 - Small wording changes to broaden the focus to include environmental impacts
 - Laura Pence moved to accept the statement as altered. George Cobb seconded the motion.
 - The subcommittee voted unanimously to approve the statement as edited.
- Inherently Safer Technologies: Statement is complete. No action required.

Policy statements for developing in 2016

- Climate: John and Faye will chair the Climate Statement writing team, and Emily Grumbling & Elise Fox will join the team.
- Biomonitoring: Laura will appoint a writing team to make a decision on whether we need to refresh, retire, or subsume the biomonitoring statement into other policy statements. George and Jim will participate in the team.
- Risk Assessment: Writing team established. Carol Henry was voluntold to chair it, and Jack Fowle, George Cobb, Chris Avery, and Barclay Satterfield will join the team.

New topics for policy statements

- GMOs: Scoping team will determine how to move forward on this topic. Chris Avery, Jim Seiber, Marty Mulvihill. Team will investigate programming for the San Diego meeting to socialize the topic among CEI and inform a decision on whether a policy statement is both needed and appropriate.