

**Joint Board-Council Committee on Environmental Improvement
March 30-31, 2019, Orlando, FL**

Vision: A sustainable world enabled through the sustainable practice and use of chemistry.

Mission: Advance sustainability thinking and practice across ACS and society for the benefit of earth and its people.

Website:

<http://www.acs.org/content/acs/en/about/governance/committees/cei.html>

Blog:

<https://communities.acs.org/groups/cei>

Social Media Links:

Twitter: @ACS_CEI

LinkedIn group: ACS CEI

Facebook: <http://www.facebook.com/ACSC EI>

UPCOMING MEETINGS

Date	Location	Meeting Theme (Chair)
Fall 2019, Aug. 24-25	San Diego	Chemistry of Water (Elise Fox and Chris Avery)
Spr. 2020, Mar. 21-22	Philadelphia	Macromolecular Chemistry: The Second Century (Tim Lodge and Kris Matyjaszewski)
Fall 2020, Aug. 15-16	San Francisco	Chemistry from Bench to Market (Janet Bryant and Judy Giordan)
Spr. 2021, Mar. 20-21	San Antonio	Bonding through Chemistry
Fall 2021, Aug. 22-26	Atlanta, GA	Resilience of Chemistry

The full tentative schedule of ACS National Meetings is available at the following website:
<https://www.acs.org/content/acs/en/meetings/national-meeting/about/future-meetings.html>

ATTENDANCE (Group photo on Freedcamp)

Members, Associates, Consultants, and Liaisons:

- ***In attendance:*** Chris Avery (Chair), Ray Garant (Staff Liaison), Carl Maxwell (Asst. Staff Liaison) Kate Aubrecht, Marie Bourgeois, Ed Brush, George Cobb, Jetty Duffy-Matzner (ConC Liaison), Stephanie DeLuca, Elise Fox, Naomi Gevaerd de Souza, Robert Giraud, Jillian Goldfarb, Carol Henry, Katie Hunt, Keisuke Ikehata, John Jayne, Michael Matthews, Faye McNeill, Cathy Middlecamp, Sherine Obare, Melissa Pasquinelli, Keith Peterman, Susan Shih (SOCED Liaison), Peter Smith (Secretary), Jennifer Tanir, Jane Wissinger

Other ACS Staff: David Constable (GCI)

Guests: Geneva Huttenlocher, Bradley Scates, Brenda Snyder

SATURDAY MEETING

APPROVAL OF INTERIM ACTIONS

As our first order of business, the Committee voted by voice to ***certify the interim actions of appointing Pete Smith as Secretary of CEI, approving the minutes of the Fall 2018 meeting of the Committee in Boston, MA, and approving the appropriation of CEI programming funds to Fall 2019 National Meeting (San Diego, CA) theme planning and to COP Kids events.***

REPORT FROM ConC LIAISON (Jetty Duffy-Matzner, PowerPoint slides on Freedcamp)

- Jetty reviewed these items
 - ACS Committee appointment process
 - ACS Committee Demographic Survey
 - CEI participation is currently higher than average. All committee members are encouraged to participate.
 - Council action on streamlining of ACS governance documents
 - This change would move information from Constitution and Bylaws to new Standing Rules.
 - Standing Rules would be more easily and quickly changed.

POLICY STATEMENT ORIENTATION & REPORT FROM EAC (Carl Maxwell, PowerPoint slides on Freedcamp)

- Carl reviewed these items
 - ACS Policy Statement writing process
 - Goal is help frame chemical sciences and ACS members to policymakers, as well as to advance sustainability
 - Even if you are not on a writing team, your input is valued. Reach out to Carl, Ray, and/or Chris
 - Approved statements become lobbying documents for ACS staff
 - If you join a writing team, committee calls are not optional
 - Staff liaisons are not scribes and note takers, they are fully participating members
 - The ACS is unique among societies that members write the policy statements
 - 2018 Congressional elections
 - Updated committee on political appointees
 - Role of ACS/CEI in Green New Deal discussions
 - Carl reported that Republican members of Congress are in 3 camps
 - hardcore deniers
 - "we accept climate change but don't know how bad it really is and need more information"
 - Representatives/Senators from highly agricultural states - man is a part of climate change and we need to listen to the science and start talking about adaptations
 - The areas of the Green New Deal where ACS could potentially take action are climate change and renewable energy.

PROJECT WORK SESSION #1

The committee spent some time on Saturday afternoon working in project teams according to the following schedule:

2:45 – 3:15 pm	3:15 – 3:45 pm
1.1 – UN SDGs	
1.2 – Meetings Engagement	
1.3 – Social media	3.1 – Communications to ACS Communities
2.4b – Climate policy statement	3.3 – Education

FULL COMMITTEE EXECUTIVE SESSION FOR GOAL 1

The current portfolio dashboard and project updates for Goal 1 are given in **Tab 7 of the Agenda Book**. Additional discussions and updates on particular projects are given below, and other project items such as minutes or slides are available on Freedcamp.

GOAL 1: Engage key researchers, industry decision makers, and consumers to incorporate sustainability into their practice and use of chemistry.			
Strategy		Lead	Report
1.1	UN Sustainability Goals	Brush and Wissinger	<p>Leads reviewed the 17 SDGs and commented on the role that chemists will play in meeting these goals by 2030.</p> <p>CEI is programming around the SDGs:</p> <ul style="list-style-type: none"> • Symposium in Boston, Fall 2018 • Leads presented at AASHE in October 2018 • Symposium in Orlando, Spring 2019 • Symposium at GCE, June 2019 • Symposium in San Diego, Fall 2019 <p>There will be a special issue of the <i>Journal of Chemical Education</i> on the SDGs.</p> <p>Committee discussed the project portfolio on Freedcamp. In particular, the discussion centered on increasing committee participation and budget/resources.</p> <p>David reported on the SDGs from the ACS Scientific Advancement perspective.</p> <p>There are three obvious tie-ins for the ACS/CEI</p> <ul style="list-style-type: none"> • 4 – quality education • 5 – general equality • 17 – partnerships for the goals <p>These SDGs are material to chemistry – ACS proposed: 2,3,6,7,9,13 – under discussion</p> <p>There is ongoing discussion about how the different units of the ACS fit into the SDGs.</p> <p>Goal 1 leads (and David) have been working on a spreadsheet with the details from a deep dive</p>
		David Constable	

			<p>through the specifics of the SDGs. This spreadsheet will be made available to the committee.</p> <p>Chris emphasized that the amplification of SDGs is a core project in the strategic plan.</p>
1.2	Meetings engagement	Middlecamp	<p>Cathy led a discussion about CEI programming.</p> <ul style="list-style-type: none"> • What are we doing right now in program world? <ul style="list-style-type: none"> ○ There are 15 symposium related to CEI (cosponsored, should have cosponsored, CEI members presentations, etc.) at the Spring 2019 meeting ○ Robert and Carol are leading an Ocean Plastics symposium at GCE • What do we want to be doing? <ul style="list-style-type: none"> ○ We can't answer that right now. • What do we see the role of CEI to be in programming? • Do we have a special niche in programming? <ul style="list-style-type: none"> ○ 80% should be in divisions ○ 20% should be in CEI niche • How can we better support CEI-related programming in divisions? • How many sessions should we co-sponsor in each division? <ul style="list-style-type: none"> ○ Co-sponsoring does not require funds. • In which division are CEI members? Program Chairs? • How do we sustain programming with Divisions over time? <ul style="list-style-type: none"> ○ Chris commented that this is the most important question. Sustaining our programming is a much bigger task than brainstorming ideas. The committee was encouraged to talk about this topic over dinner.
1.3	Social Media	Chris McCarthy	Chris reviewed social media best practices with the committee.
		McNeill	Faye reminded the committee that the members are responsible for generating content for CEI's social media platforms.

			<p>Social media stories/requests should be sent directly to Faye.</p> <p>Please contact Faye before tagging CEI in a post.</p> <p>Chris McCarthy noted that social media training is likely to be part of a larger science communication training initiative by ACS.</p>
1.4	Industry engagement	Tanir	<p>PISCES report came out Fall 2018 Boston CEI meeting.</p> <p>June 2018 – Workshop on accelerated integration of G&SC in formulated product sectors</p> <p>Draft paper on supply chain and PISCES report in Freedcamp</p> <p>Jen and Katie want to put a core group together to prioritize recommendations from PISCES and workshops and find volunteers for doing the work.</p>

FULL COMMITTEE EXECUTIVE SESSION FOR GOAL 2

The current portfolio dashboard and project updates for Goal 1 are given in **Tab 8 of the Agenda Book**. Additional discussions and updates on particular projects are given below, and other project items such as minutes or slides are available on Freedcamp.

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.			
Strategy		Lead	Update
2.2	Project output planning	Aubrecht	Discussion focused on the perception that Goal 2 Strategy 2 and Goal 3 Strategy 1 seem very similar.
2.3	State & local governance engagement	Cobb	Team is compiling information about ongoing ACS efforts to engage state and local governance. CEI does not want to duplicate efforts.
2.4a	Chemical Risk policy statement	Bourgeois	<p>Conversations have begun among the team and with other committees to make sure that work is not duplicated.</p> <p>First phone call will be in early April.</p>
2.4b	Climate policy statement	Jayne	Work is about to begin. Reach out to John if you would like to participate.

OPEN FLOOR FOR DISCUSSION

Discussion focused on local section (LS) engagement and CEI awards to local sections.

- CEI should be working towards partnerships with LS, not simply acting as a granting agency.
- There was consensus that CEI should reach out to LS to evaluate our value proposition for CEI awards.

COMMENTS FROM THE CHAIR

- The need for additional conversation came up a lot. This is why we have implemented the use of the collaborative platform Freedcamp.
- These topics were deferred to dinner:
 - Communications
 - Meetings engagement (Programming vs. nonprogramming)
 - SDGs
 - Pie-in-the-sky
 - Robert – America’s place in the world on the environmental stage is in decline. We as chemists can make the slope positive.

SUNDAY MEETING

REPORT FROM GCI (David Constable, PowerPoint Slides on Freedcamp)

- David provided the committee with an update on the 2019 GCI conference.
- David told the committee that the GCI is seeing a significant decrease in the industrial implementation of green and sustainable practices.
- David informed the committee about GCI work with CPT and the Exams Institute
 - The green and sustainable chemistry supplement to ACS curriculum guidelines
 - Green and sustainable chemistry themes in the Anchoring Concept Content Maps
 - Integration of Systems Thinking in chemistry curricula

PROJECT WORK SESSION #2

The committee spent some time on Saturday afternoon working in project teams according to the following schedule:

9:15 – 9:45 am	9:45 – 10:15 am
1.5 – SD 2019 Theme	
3.4 – Local Section Grants and ChemLuminary Award	
2.1 – Website Revamp	2.4a – Chemical Risk policy statement
3.2 – CPT Guidelines	2.3 – State & Local work

FULL COMMITTEE EXECUTIVE SESSION FOR GOAL 3

The current portfolio dashboard and project updates for Goal 1 are given in **Tab 9 of the Agenda Book**. Additional discussions and updates on particular projects are given below, and other project items such as minutes or slides are available on Freedcamp.

GOAL 3: Engage networks of chemists and citizens to advance sustainability education and communication.

Strategy		Lead	Update
3.1	Communications to ACS Communities	Bourgeois	Team has identified language overlap for three projects in SP. They are working to clarify/modify these projects and are looking for volunteers to help.
3.2	CPT guidelines	Wissinger	<p>CEI generated the G&SC supplement to CPT Guidelines in January.</p> <p>The revised document was accepted as CPT supplement in March 2018.</p> <p>CEI members are writing a paper for the <i>Journal of Chemical Education</i> special issue on systems thinking.</p> <p>CEI has been asked to give a Beyond Benign – Green Chemistry Commitment webinar.</p> <p>Team will evaluate if the goal has been met and if a new goal should be crafted.</p>
3.3	Education 2019 Environmental Film Competition Showcase	Obare	<p>Team is working on aligning CPT guidelines with UN SDGs.</p> <p>Team has done an environmental scan to see what educational activities are ongoing outside ACS. Examples include:</p> <ul style="list-style-type: none"> • UNESCO for sustainable development • Cloud Institute for Sustainability Education • NWF • Cambridge Schools <p>Sherine updated the committee on the CEI Education Award and its outcomes since 2010 (49 awards to 65 recipients + one book).</p> <p>The team is discussing how best to highlight good work from CEI.</p> <p>The team will be placing a call for educational materials for use with a variety of audiences including K-12, Higher ed, decision/policy makers.</p> <p>Team is working with James Cobb who provides insider knowledge.</p> <p>Sherine presented these details about the competition:</p> <ul style="list-style-type: none"> • 9-12 minute films • 10 finalists in San Diego • Filmmakers collaborate with scientist

			<ul style="list-style-type: none"> • Films must meet meeting theme • "Best of" for each category for both student and professional filmmaker • 56 submissions so far with 30 more days for submissions! • Need volunteers for screening • The review window is between May 8 – May 31 • CEI members are encouraged to help team find people to help screen films.
3.4	Local Section Grants and ChemLuminary Award Voting	Matthews	<p>Team is discussing the future of LS activities. Keisuke and Melissa will lead discussions.</p> <p>There were 2 migrant applications under consideration.</p> <ul style="list-style-type: none"> • NC section seminar on sustainability for general public (recommended by working group) <ul style="list-style-type: none"> ○ No discussion ○ Motion carried unanimously with Melissa Pasquinelli abstaining • Orange County LS field trip to Riverside water treatment (permeable concrete) (recommended by working group) <ul style="list-style-type: none"> ○ No discussion ○ Motion carried unanimously with Keisuke Ikehata abstaining <p>Mike led discussion on the 2019 ChemLuminary award recommendations. Three finalists were chosen by team and presented to committee.</p> <ul style="list-style-type: none"> • Central New York • Georgia CCED • Northeastern – sustainability in the environment symposium (SDGs) <ul style="list-style-type: none"> ○ Discussion <ul style="list-style-type: none"> ▪ Last year it was a struggle to pick one finalist. This year there are three excellent candidates. The change may be attributed to a new call and advertising with updated questions and alignment with ACS SP – sustainability and chemistry's role <ul style="list-style-type: none"> • Motion carried unanimously with Ed Brush abstaining

			<p>The team recommend that the ChemLuminary award be given to the Central New York LS. Mike told the committee that this LS was chosen because the project had the strongest focus on chemistry (green & sustainable) and was a novel activity.</p> <ul style="list-style-type: none"> • Keisuke noted his dissent because application was incomplete and confusing. <ul style="list-style-type: none"> ○ Mike explained that the form indicated that there were no participants but that the discussion provided the actual participant numbers. ○ Keisuke noted that the budget was also improperly filled out. ○ Faye agreed that the Georgia LS application was much more clear. • Jillian noted that the Central New York event aligned with the SDGs • Robert commented that it was important to recognize the Georgia LS because it recognizes the Southeast in environmental chemistry and environmental improvement. Left coast and NE are dominant. SE is usually not represented. This is significant. <ul style="list-style-type: none"> ○ Mike told the committee that a southeastern LS did win in 2014 (Louisiana). • George encouraged the committee to trust the work of the team. • Katie commented that both events appear to be really good. There is precedent for two winners. <ul style="list-style-type: none"> ○ Carol commented that the team talked about that. The application form had been rewritten to ask for new and outstanding events. Central New York's activity was judged to be new and outstanding, form anomalies notwithstanding. • Mike told the committee that the team had significant discussion about the ACS SP and the transformative power of chemistry. Chemistry was evident in Central New York's event. • Vote was 15 yes to 4 no (identified not as against Central New York, but for Georgia). Ed Brush abstained.
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DISCUSSION OF FALL 2019 MEETING THEME PREPARATION (Elise Fox, PowerPoint slides on Freedcamp)

- The meeting will have three subthemes
 - People and Water
 - Land and Water
 - Water's Effect on Chemistry
- There are 79 total symposium under the theme
- Elise reported that the proposed Charity Row at the Expo will not happen.
- Elise also reported that the proposed podcast series will not happen.
- ACS Reactions (video series) is producing three videos in conjunction with the meeting theme.
 - Superheated water death
 - Pharmaceuticals in water
 - Desalination
- The team is working on adding a donation line item to the registration form for Chemists without Borders.
- 500 water bottles with the meeting theme are being produced.
 - CEI members will be given a bottle to prominently display and use to encourage sustainable practices.
- Elise reported that the team is trying to arrange tours of the USNS Mercy, which should be in port during the meeting.
- Cathy asked if donation to Chemists without Borders could be required for USNS Mercy tour?
 - Elise will look into that idea.
- Chris asked about the status of stickers with the meeting logo/theme.
 - Marie asked if the stickers could be mailed by the ACS with registration packets.
 - Elise reported that this is not for San Diego because budget has been set for 2019. However, this may be possible for 2020 as an outgrowth of San Diego meeting.

NEW BUSINESS AND CEI MEMBER UPDATES ON ISSUES – OPEN FLOOR

- Sherine reminded the committee of the Tuesday morning ACS CEI award symposium.
- Keith reminded the committee about the COP student observers project in Santiago, Chile in Dec. He encouraged applicants, but the students will need their own support.
- Naomi asked if it is possible to have politicians speak at ACS National Meetings. Carl said that it is possible, but highly unlikely. Politicians typically do not speak at these types of events.
- Jennifer gave the MPPG update:
 - Spring 2020 – Philadelphia, PA – Macromolecular Chemistry: The 2nd Century
 - Fall 2020 – San Francisco, CA – Chemistry from Bench to Market
 - Spring 2021 – San Antonio, TX – Bonding through Chemistry (International, D&I)
 - Fall 2021 – Atlanta – Resilience of Chemistry (adaptivity, disasters, failures)
 - Spring 2022 – San Diego – Biotechnology?
 - Fall 2022 – Chicago – SDGs?
- Carol commented that an ocean plastics symposium has been organized for the Green Chemistry & Engineering Conference.

- Cathy commented that the SDGs are the most important discussions that CEI can be having.

FINAL COMMENTS FROM CHAIR

- Chris reminded that committee that the Fall 2019 meeting in San Diego is particularly important for CEI. He implored the committee to get the word out.
- Chris told the committee that he is considering focusing on broader issues instead of projects during the CEI meeting in San Diego. In particular, he would like to:
 - Invite guest speakers on ocean plastics to present to CEI.
 - Plan a policy symposium for 2020 with Corporation Associates and ComSci.

ADJOURNMENT

The meeting adjourned on Sunday, March 31, 2019 at 12:05 pm

This document completes the Minutes of the Executive Session of Joint Board-Council Committee on Environmental Improvement for March 30-31, 2019 in Orlando, FL

Respectfully submitted,
Peter M. Smith
Secretary