DivCHED Newsletter
Fall 2018

Upcoming Travel Award Deadlines

In Remembrance of I. Dwaine Eubanks

IUPAC Report from Sydney, Australia by Marcy Towns

ACS 256th National Meeting
Nanoscience, Nanotechnology & Beyond

August 19-23 2018 | Boston, MA

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**LETTERS FROM THE EXECUTIVE COMMITTEE**
- From the Chair .................................................. 1
- From the Chair-Elect ............................................ 2
- From the Division Ledger ...................................... 3
- From the Member-At-Large ................................. 4

**In Remembrance of I. Dwaine Eubanks**

**NEWS, MATERIALS, REPORTS & OPPORTUNITIES**
- Get Involved ...................................................... 7
- The Dorothy and Moses Passer Education Fund ............. 7
- Division of Chemical Education Travel Award ............... 7
- ACS Division of Chemical Education International Travel Award ............................... 7
- 2018 ACS Fellows ............................................... 9
- IUPAC report From Sydney, Australia ......................... 10
- James Bryant Conant Award in High School Chemistry Teaching .................................. 11
- ChemEd X: An Online Community for Chemistry Teachers ........................................ 12
- Nomination Form for CHED Committees & Elected Positions .................................. 15
- Division of Chemical Education Teaching Excellence Endowment ................................ 16
- DivCHED Publications .......................................... 16
- Know your way around the Division .......................... 1
- CHED Connections .............................................. 29

**COMMITTEE/BOARD REPORTS**
- International Activities Committee ......................... 18
- Regional Meetings Committee ................................. 19
- Safety Committee .............................................. 20

**256th ACS Meeting & Exposition, Boston, MA**
- Technical Program .............................................. 21
- Schedule of CHED Committee/Board Meetings and Social Events ............................... 23
- AGENDA – Executive Committee (Open) ..................... 24
- Chemistry Teacher Program .................................. 25
- Future ACS National Meetings ............................... 25
- 2018 Regional ACS Meetings .................................. 25
- Project SEED 50th Anniversary Celebration ............... 26
- Boston ACS Meeting Shuttle Map ......................... 28
Letters from the Executive Committee

From the Chair, Cheryl Frech [cfrech@uco.edu]

BCCE News: By the time you read this, more than 1600 chemistry educators will have returned home from the 25th Biennial Conference on Chemical Education, held at Notre Dame University July 29-August 2, 2018. Many thanks to Steve Wietstock, Cate Reck, and Jim Parise plus their organizing committee for planning and executing a fantastic BCCE. Marcy Towns, who delivered a memorably cool opening plenary talk in the ice rink, delved into the history of the Biennial Conferences, which began with a small invitation-only gathering in Aspen, Colorado in the summer of 1970. If you weren’t able to attend the BCCE this year, mark your calendar for the next one, to be held July 18-23, 2020 at Oregon State University, in Corvallis, OR. Please note that the dates of the 2020 BCCE are more than a week earlier than we have typically met, and adjust your future summer plans accordingly.

ACS Boston: Many CHED committees will meet in Boston at the 256th ACS National Meeting. Committee meetings start as early as Friday, August 17 when Finance Committee convenes. Our hats are off to the tenacious chair, Cathy Middlecamp, who has worked with our financial firm, Turbo Execs, and Division Treasurer, David Licata, and the entire Finance Committee to bring order to the Division’s financial affairs.

The Division Executive Committee meets on Saturday, August 18. If you want to be in the “room where it happens” (otherwise known as the open session of ExComm) please join us from 1:30-4:00 pm in the Seaport World Trade Center Waterfront Ballroom 3.

An ongoing project this year has been the revision of the Division’s Operations Manual. Each committee has been asked to update their Ops Manual entries according to a standard format. Our Division member-at-large, Deanna Cullen, is coordinating this complex effort. If you are on a committee, please provide input on the Ops Manual process to your chair.

If you are attending the Boston ACS meeting, check out the intriguing programming in CHED. The meeting theme is “Nanoscience, Nanotechnology, and Beyond”. Multiple symposia incorporate this theme, including “What are undergraduates learning about nanoscience nanotechnology?” and “State-of-the-Art: From Making Nanomaterials to Understanding Their Global Impact”. Also in Boston, the GSSPC symposium, entitled “Frontiers in Computational Chemistry: Bridging the Gap Between Theory and Experiment. A Symposium in Memory of Dr. Jeffry D. Madura”, is focused on highlighting the recent advancements in computational chemistry and its broader impact on the chemical enterprise. GSSPCs are completely planned and organized by graduate students; this meeting’s team is from Duquesne University.

CHED hosts a reception at 5:30 pm Sunday at the Boston ACS meeting (Seaport World Trade Center Cityview Ballroom 2). Please come by and say hello.

We need YOU! The work of the Division of Chemical Education is accomplished by a number of committees, boards, officers, and members. Just one person can make an impact by getting involved. A simple way to voice your interest is to volunteer through the webpage. If you have a question about a particular committee or role, please don’t hesitate to inquire.

Cheryl Frech, PhD
ACS DivCHED Chair-Elect
University of Central Oklahoma

Know Your Way Around the Division

If you need to pay membership dues, want to make a contribution to the DivCHED Service Award fund, or want to know about money, budgets, etc., contact the Treasurer.

If you want to change your mailing address, want a Division publication, or want to know about official Division actions, etc., contact the Secretary. If you want to receive this DivCHED Newsletter (or not receive it), contact the Secretary.

If you want to bring an idea before the Executive Committee or want to make an opinion known, contact the Member-at- Large.

If you want to contribute something to DivCHED News, contact Heather Johnson.
Letters from the Executive Committee

From the Secretary/Councilor, Dan King [dk68@drexel.edu]

Greetings to all. I hope you have enjoyed a relaxing and/or productive Summer. As many of you start to prepare for the upcoming academic year, keep your eyes open for the Division election. Ballots should arrive via email towards the end of August, with voting open during the month of September. Each ballot will include statements from each candidate. The candidate’s for this year’s elections are:

Chair-elect: Dawn Del Carlo and Julie Smist
Councilor/Alternate Councilor: Laura Anna, Steven Fleming, Scott Lewis, Sally Mitchell, Rick Moog and Rachel Morgan Theall.

Best of luck and thanks to all of the candidates for volunteering to serve the Division.

Congratulations to the 6 Division members who have been named as ACS Fellows.

You can find a list of them on the Division website.

I’m pleased to report that the Division was awarded an Innovative Project Grant (IPG) from ACS. The proposal is entitled, “ACS-RSC Collaboration to Promote Chemical Education Initiatives via Social Media”.

If you are coming to the Fall Meeting in Boston, MA, I hope to see you at the Division Social on Sunday evening. I wish everyone a productive academic year and remind you to let me know if you have any suggestions as to how to improve the Division.

Daniel King, PhD
Secretary/Councilor
Drexel University

From the Chair-Elect, Irv Levy [irvin.j.levy@gmail.com]

Typically, these essays relate to current divisional business and agendas relevant to our membership; however, in this offering, I will take a different tack. I am delighted that we will welcome many of you to my home area for the Boston national meeting this August. Chemistry has a longstanding historical significance here. Most are aware of the many outstanding institutions of higher education in Boston and Cambridge that continue to push the envelope of human knowledge in the chemical domain. But fewer know that chemistry is, literally, of monumental proportion in our history.

Each October, one week before Mole Day, chemically-minded Bostonians celebrate October 16 as “Ether Day”. Yes, there is a day-long celebration of diethyl ether (CAS #60-29-7).

Perhaps other cities celebrate specific molecules. If so, please share this with me! But Boston surely does. And why? On October 16, 1846, at Massachusetts General Hospital (MGH) in a surgical theater now known as the Ether Dome, a surgeon demonstrated to an audience the use of diethyl ether for the painless removal of a tumor from the neck of a patient, an historical moment in medicine. Afterwards the surgeon declared, “This is no humbug” which is something I frequently say, cryptically, when handing a bottle of diethyl ether to a student.

The Ether Dome is open to the public and is worth the wander over to the campus of MGH, Monday-Friday between 9:00 and 5:00 to see this site that is both a National Historic Landmark and an entry in the Atlas Obscura. For more info, including location: click here.

“But,” as they say in the infomercials, “wait, there’s more!”

After visiting the Ether Dome you might want to, next, amble to Boston’s Public Garden in one corner of which you will find the Garden’s oldest monument. And guess what? It’s the Ether Monument, which bears this inscription, “In gratitude for the relief of human suffering by the inhaling of ether.” What better places for a chemist to take a selfie than in the Ether Dome and beside the Ether Monument? You can post them to social media next October 16 to celebrate Ether Day!

I would love to receive your photos if you make this pilgrimage. You can send them to me at irvin.j.levy@gmail.com -- I anticipate that we will have a wonderful time at the ACS meeting in Boston and I will look forward to seeing many of you there.

Irvin J. Levy
Chair-Elect
Gordon College
Changes are afoot for several areas involving Division financial operations. Heather Good, one of the business management team at Turbo Execs has worked with the Treasurer and Executive Assistant to create a new system to help manage payments, reimbursements, grants and awards, and invoicing. This system is accessed through the Financial tab at http://divched.org.

This new Financial tab on the website contains links to forms which members can use to request a variety of financial transactions, such as:

- Reimbursement for travel,
  - A copy of the ACS Councilor Reimbursement Form (which those attending Council must file in addition to the Division reimbursement request)
  - Reimbursement of expenses paid on behalf of the Division,
  - Checks to be sent to winners of minor awards or service providers,
  - Payment of Division grants (travel, Passer, or IAC, for example), and
  - A request for an invoice to be sent to individuals who will pay the Division (GSSPCs will use this for requesting donations, for example).

The landing page of the Financial tab includes links to the Division travel reimbursement policy and a handy table that summarizes the approved payments. It also gives a description of which form is to be used for which type of payment. Clicking the link to a payment form gives the user the opportunity to save the spreadsheet form locally. The user then completes the spreadsheet, scans or takes a picture of necessary receipts (following directions in the form), and emails them to our business manager: divchemed@turboexecs.com.

The Board of Publication, Program Chairs, Regional Meeting Representatives, members of the Executive Committee, and others specifically authorized to receive travel funds will use the forms found in the Financial tab. The new set of financial forms should simplify the process for everyone who needs a check, reimbursement, or to send an invoice. Using the form will assure that all transactions are properly recorded, easily tracked, and well-organized. Appropriate reimbursement amounts for each case are clearly stated so each person making a request will know what to expect.

We also now have a single business address for all Division financial operations. Paper copies of the financial forms and receipts, invoices to the Division and Board of Publication, and checks for payments or donations may all be sent the new address:

Division of Chemical Education, Inc.

590 Centerville Rd. #287

Lancaster, PA 17601-1306

A final piece of good news from the summer is that the Division is now recognized by TechSoup, Inc. as a registered nonprofit organization. This can provide the Division with discounts and reduced prices for a number of online and technology-based services. For example, the Division now has free access to Google Suite, and its own, free, Gmail-based email domain. Heather Johnson and Heather Good both worked to secure this certification.

As a result of our new, free access, the Division Treasurer has a new email address – treasurer@divched.org

Heather Johnson also has a new address for Division business – HLJohnson@divched.org

The Finance Committee has been hard at work on the budget for 2019. Like the 2018 budget, the Division is spending more than it expects to take in. While for a couple years the excess spending can be covered by withdrawals from the Division investment account. But, clearly, this is not an acceptable long-term situation. The next task will be to start identifying areas in which cuts can be made to bring the budget back into balance.

The business managers have provided good advice, and their assistance with cutting expenses will be crucial. But the participation of all Division members in continued support of the Division is also needed, not only in financial areas, but also to support all the important programs and services that the Division seeks to provide to serve the chemical education community.

Summer 2018

David P. Licata
Division Treasurer
From the Member-At-Large, Deanna Cullen [cullendeanna@gmail.com]

As I am writing this, I am attending the Division of Chemical Education’s official meeting, BCCE, and celebrating the 25th such meeting in the past 50 years on the beautiful campus of Notre Dame. With more than 1600 attendees, this is the largest BCCE yet! The programming is phenomenal! I have met first time attendees that are already planning to attend again in the future. The programming committee, the Notre Dame chair and co-chairs along with other volunteers have been incredibly responsive and welcoming. Many thanks to all for a job well done. Looking forward, the next BCCE will be held in Corvallis, OR the week of July 18 -23, 2020.

Thinking of meetings, many of us will be attending the National ACS meeting in Boston in a couple short weeks. Whether you are new to the division or a long-term member, you may or may not be familiar with DivCHED governance. I am fairly certain that many members are unaware that they are welcome to attend many of the committee meetings, including the Executive Committee meeting to find out more about how governance works and what is going on in the Division. This is an excellent way to meet new people as well. If you would like to get more involved, this is an excellent place to begin. See the schedule of meetings on page 23 of this newsletter. (Note that some meetings are closed for part of the time.) Of course, another great networking opportunity is the DivCHED social scheduled for August, 19th, Sunday evening from 5:30-7pm in the Seaport World Trade Center, Cityview Ballroom 2.

If you are interested in becoming involved in governance, you are able to self-nominate and identify what type of service you are interested in. Others may submit your name to the Personnel and Nomination Committee. If you are involved with activities or work that you would like to share with the larger membership, I hope you will share it by submitting it to our DivCHED newsletter.

I also want to mention one of the perks of being a DivCHED member. Once you have been a division member for three years, you are eligible to apply for a travel award. The deadline for submission of your application is coming up soon: September 15.

In my role as Member at Large, I receive occasional messages through the DivCHED website asking about membership, symposia and a variety of other topics. I have not always known how to answer every question immediately, but I have been able to find the answer or at least make a connection. I hope you will feel comfortable with reaching out if you have a question or comment. Even better, if you see me at a meeting, I hope that you will introduce yourself to me.

Deanna Cullen
Member at Large
Whitehall High School Chemistry
In Remembrance of I. Dwaine Eubanks

by Cheryl Frech

Everyone has heard the axiom, “The only constant in life is change”, which is attributed to the Greek philosopher Heraclitus. He actually wrote “panta rehí”, which translates as “life is flux”. Some years apparently have more flux than others. On July 23, 2018 the chemistry education community unexpectedly lost one of our dear colleagues, Dwaine Eubanks. The breadth of Dwaine’s contributions to the Division and ACS is enormous. He was a local section leader in both Oklahoma and South Carolina. He was chair of CHED in 1985, and director of the Exams Institute from 1988-2001. He worked on several major curriculum projects with the division and ACS including Chemistry and the Community and Chemistry in Context; his work included not only writing and editing, but also illustrating.

For many of us, Dwaine Eubanks was an enduring presence in both the Division and ACS. I knew Dwaine from his leadership in the Oklahoma local section alongside my father, also a chemist. He was a faculty member at my undergraduate institution. Then, he was the very first person I ran into at my first BCCE in Waterloo, Ontario. Dwaine always had a kind greeting, words of encouragement, and usually a funny story or anecdote. He was a gentleman scholar in the best sense of the term. Heraclitus also wrote that “it’s impossible to step in the same river twice”. Those of us who knew Dwaine will no longer chat with him wherever chemistry or ACS events are happening. But in his honor, please take the time to be a generous contributor, a friendly face, and an encouraging presence for all.

From A. Truman Schwartz:

To me, and no doubt many others, Dwaine Eubanks epitomized collegiality. He was most generous in sharing his knowledge of chemistry and how to teach it with hundreds of students and fellow faculty members. My own career owes much to Dwaine. He was responsible for my first involvement in the Division of Chemical Education, when he invited me to serve on the general chemistry examination committee. A few years later, when he decided to propose Oklahoma State University as the site of the 1982 Biennial Conference on Chemical Education and offer to serve as the conference chair, he asked me be the program chair. I accepted with enthusiasm and I gained much from our association. In fact, we worked so well together that we decided to write a college general chemistry book. Although we signed a contract and made some progress on the project, it never reached publication and print. I think that was unfortunate, because the book had considerable potential. But both of us found other useful ways to serve the profession, including contributing to other books and curricula such as Chemistry in the Community and Chemistry in Context. And there were many more opportunities for us to collaborate. In every instance Dwaine demonstrated his capacity for hard work, his generosity toward his coworkers, and his dedication to chemistry and its teaching. Those of us who enjoyed Dwaine’s friendship have unforgettable memories of the impact of a true colleague.

From Mary Virginia Orna:

I have many memories of my myriad wonderful and happy interactions with Dwaine from the time I met him in a hotel hallway in the 1970s and he Invited (or should I say corralled?) me into working on the Gen Chem Exam to my final goodbye to him on the doorstep of the Clemson Emeritus Faculty College (March 2018), of which he had recently become the Director. Together we “made waves in Stillwater,” planned the 1996 Clemson BCCE as we sat in his Woodland Ave. hot tub, and I had the honor of presiding at his 2015 Pimentel Award Symposium in Denver, as well as editing the ACS symposium volume that was its outcome, “Sputnik to Smartphones: A Half-Century of Chemistry Education.” Dwaine’s influence on my own chemistry education career was inestimable. He always gave sound advice, solved technology problems, thought through difficult problems with care and compassion, was always on hand with support and encouragement, and remained a constant friend through thick and thin. It is hard to imagine a world without Dwaine Eubanks, and since that is impossible, I take courage from Saint John Chrysostom’s reflection on death and resurrection: They whom we love and lose are no longer where they were before: they are now wherever we are.
From Amina El-Ashmawy:

I met Dwaine Eubanks at my first BCCE in Davis, 1992. He warmly greeted me and asked me to serve on an exam committee. This would be the first of many exam committees on which I would serve. Even though I only had a Masters at the time and was teaching at a community college, Dwaine had enough confidence in me to appoint me chair of two different committees. I consider Dwaine and Lucy to be my mentors and professional parents. Based on their advice, I got more involved in the Division and then on ACS task forces, committees, and advisory boards. I always looked forward to seeing Dwaine and Lucy at national meetings. I was so happy when Dwaine and Lucy attended the ACS Fellows ceremony in 2013 to celebrate my award. Their presence made the honor feel complete for me. I have treasured their presence and strong support for the past 26 years as it changed my life for the better. I owe them both a debt of gratitude and will deeply miss Dwaine's warm, kind, giving soul. May you rest in peace, Dwaine.
**News, Materials, Reports & Opportunities**

**Attention New DivCHED Members!**

The Division would like to welcome all new members of ACS Division of Chemical Education. Many of you may have joined this Division to network and become more involved. An easy way to get involved may be joining a committee. To do so, fill out the form on the Divisions webpage to self-nominate yourself for participation in one of the 15 committees. Visit here for the nominations form: [http://www.divched.org/content/nominations-ched-committees-elected-positions](http://www.divched.org/content/nominations-ched-committees-elected-positions). You can also find a copy of this form in this section of the newsletter.

**The Dorothy and Moses Passer Education Fund, Deadline September 1, 2018**

Applications Being Accepted for The Dorothy and Moses Passer Education Fund.

This Fund was established by a generous donation of Dorothy and Moses Passer. Moses (Mike) Passer was for many years the head of the ACS Education Division. The Fund grants for teachers at two- and four-year colleges or universities that do not have any advanced degree programs in the chemical sciences.

The awards support continuing education activities that must be directly related to the applicant’s teaching and must take them away from their campus.

The applicant must be a full time faculty member at his or her institution. The applications are reviewed by a committee. There is no application form but the application must include a description of the proposed activity and how it relates to his/her teaching with dates, locations, titles and contacts; a brief description of the applicant’s institution and department; a short curriculum vita; an itemized estimate of expenses, amount of aid requested and sources of all supplemental funds. No support will be given for general attendance at national, regional or local ACS meetings or for any sabbatical support.

Closing dates are three times each year: January 1, April 1, and September 1. Applications may be submitted online [http://www.divched.org/content/passer-education-grant-application-form](http://www.divched.org/content/passer-education-grant-application-form) or emailed in pdf format to the Chair of the Passer Education Grant Review Committee, Catherine MacGowan, cmacgowan@georgiasouthern.edu.

**Division of Chemical Education Travel Award, Application Deadline is September 15, 2018**

DivCHED provides this service to members to grant financial support for travel to meetings. Up to 12 members will receive the award each year. The DivCHED Travel Award provides up to 80% of travel expenses for one meeting with a limit of $1,000 for the Spring National ACS Meeting. To be considered for this award, you must be in at least your third year as a member of the Division of Chemical Education at the time of application. The award application deadline is September 15, 2018. Visit [http://divched.org/content/division-chemical-education-travel-award-application](http://divched.org/content/division-chemical-education-travel-award-application) for more information and to apply.

**ACS Division of Chemical Education International Travel Award**

The Division of Chemical Education funds a Travel Award each year in support of a division member who presents and fully participates in an international chemical education conference held outside the U. S. The awardee will have the responsibility to communicate information and insights gained at the conference to the membership through available CHED publications and by postings on the DivCHED Website.

At the New Orleans meeting, the Executive Committee adopted guidelines developed by the International Activities Committee (IAC); these are described below. Questions as well as completed applications can be sent electronically on or before **November 30, 2018**, to Resa Kelly, current chair of CHED IAC. She can be reached at resa.kelly@sjsu.edu.

**Eligibility:**

The applicant must be a member of the Division of Chemical Education and be a full-time college, university, or high school faculty member. Preference will be given to junior and/or underrepresented faculty members who have not had the opportunity to attend an international meeting in chemical education.

**Selection Process:**

1. An announcement about the availability of this Award for the following year will be submitted for publication in the Fall CHED Newsletter, appropriate issues of JCE, and to C&EN News. The announcement will also be posted on the CHED website.
2. The application package is due November 30 each year. It should be sent to the Chair of CHED-IAC. The award, presently $2000.00, is made for the following year.
3. CHED-IAC members serving on the Awards subcommittee appointed by the CHED-IAC Chair will review the applications.
4. The selected applicant will be announced by January 15 each year. An alternate will be selected in case the original awardee is not able to attend.

**Application Package:** Submit applications to [http://divched.org/content/acs-divched-international-activities-travel-award](http://divched.org/content/acs-divched-international-activities-travel-award)
DivCHED provides this service to members to grant financial support for travel to meetings. Up to 12 members receive the award each year. The DivCHED Travel Award provides up to 80% of travel expenses for one meeting with a limit of $1,000 for the Spring National ACS Meeting. To be considered for this award, you must be in at least your third year as a member of the Division of Chemical Education at the time of application.

From Previous Awardees....

“One of my goals for this meeting was to network with other chemists. Many times the most valuable information is gleaned from informal discussions with other attendees.”

“At the 2016 BCCE I was able to discuss my desire to find another position with colleagues and also explore opportunities with businesses surrounding the poster sessions.”

“Attending the ACS National Meeting in San Diego in March provided a variety of experiences that will benefit my career as a teacher, researcher, and member of the division.”

“I successfully presented my work to a large audience, learned about other researchers’ work in symposiums and poster sessions, discussed research and teaching with practitioners and researchers, participated YCES committee activities, and became a YCES member afterwards.”

“The first impact of conference attendance was encouragement – I am not alone and there are other educators that are seeking to hone their craft in order to enrich the lives of students.”

“It was truly remarkable to be surrounded by so many enthusiastic colleagues who share my passion for chemical education and research!”

Visit [http://divched.org/content/division-chemical-education-travel-award-application](http://divched.org/content/division-chemical-education-travel-award-application) for more information and to apply.
Congratulations the DivCHED members who have been named ACS Fellows in 2018

The Division of Chemical Education is fortunate to the include the following 2018 ACS Fellows in the DivCHED membership:

**Gauthier, Carmen V.**
Florida Southern College
Contribution to the science/profession: Recognized for her contributions in the field of metal-organic materials (MOMs), mentoring students involved in undergraduate research, and tireless efforts fostering local, regional and international collaborations.
Contribution to the ACS community: Recognized for her leadership in the Florida Local Section as Chair and Councilor, as well as service to SOCED, Membership Affairs, Community Activities, and the Division of Chemical Education.

**Howson, Elizabeth M.**
Chatham High School
Contribution to the science/profession: Recognized for innovative and effective teaching strategies, applications of science education technologies, leadership in professional development collaboration, and encouraging and mentoring students in premier state and national science competitions.
Contribution to the ACS community: Recognized as chair of the Committee on Chemical Safety, and leadership in developing, promoting, and implementing chemical safety education guidelines and in advocating for an improved safety culture throughout the chemistry profession.

**Karukstis, Kerry Kathleen**
Harvey Mudd College
Contribution to the science/profession: Recognized for her leadership in collaborative research with undergraduates, in externally funded initiatives promoting undergraduate research at the national level, and in strategies advancing women STEM faculty at liberal arts institutions.
Contribution to the ACS community: Recognized for service as Vice Chair and member of the Committee on Professional Training; Journal of Chemical Education feature editor; contributor to symposia mentoring younger chemists and women STEM faculty.

**Kim, Judy E.**
University of California at San Diego
Contribution to the science/profession: Recognized for contributions to biophysical chemistry and spectroscopy, with focus on membrane protein folding and amino acid radicals.
Contribution to the ACS community: Recognized for service to the Division of Physical Chemistry, including the Biophysical Subdivision and Undergraduate Physical Chemistry Awards, and leadership as Vice Chair of the Graduate Education Advisory Board.

**Munson, Burnaby**
University of Delaware
Contribution to the science/profession: Recognized for initiating fundamental research in ion chemistry and ion molecule reactions, which led to his invention of chemical ionization, a method used to identify molecular structures.
Contribution to the ACS community: For introducing thousands of University of Delaware students to the ACS through the Student Affiliate section, providing them with opportunities for leadership, community service, and professional development.

**Zimmerman, Doris Lucile**
Thiel College (Retired)
Contribution to the science/profession: Recognized as a tireless educator in STEM education, encouraging everyone, especially women, to pursue careers in chemistry. As a teacher, she modeled excellence in science to thousands of students.
Contribution to the ACS community: Doris Zimmerman is a Councilor and a member of C&B, currently serving as Secretary. She has served on the executive committees for POBS and CERM for over 27 years.
**IUPAC report From Sydney, Australia meeting of the Committee on Chemical Education**

Professor Marcy H. Towns, Purdue University

The committee purpose and composition may be found here: https://iupac.org/who-we-are/committees/committee-details/?body_code=050

CCE met July 9-10, 2018, prior to the International Conference on Chemistry Education meeting that took place July 10-14, 2018. Here are highlights from the CCE meeting.

I. Ongoing Projects associated with the CCE

A. Gender Gap in Science project presented by Professor Mei-Hung Chiu of National Taiwan Normal University. Please see the following websites for more information: https://iupac.org/projects/project-details/?project_nr=2017-007-1-020
https://gender-gap-in-science.org/2017/10/24/project-report-at-the-icsu-general-assembly/

The focus of this project is as follows from the IUPAC website: To encourage girls and young women to study and work in science, we will conduct a global survey on female scientists and mathematicians covering background, career, experiences, and attitudes about gender. Results will enable recommendations for stakeholders (e.g., scientific unions, educators, scientists, especially persons in the developing world regions) by identifying key variables shaping women's experiences in science.

Dr. Mei-Hung Chiu reported on the progress of the work as it is in a data collection phase. It is clear that more respondents are needed in order to meet the project's global goal of 45,000 participants. Please see the project website and take the survey here https://gender-gap-in-science.org/.

B. Systems Thinking in Chemical Education - STICE presented by Professor Peter Mahaffy of The King's University, Edmonton, Canada
https://iupac.org/projects/project-details/?project_nr=2017-010-1-050

From the IUPAC website: Recent high profile global initiatives highlight the crucial role of chemistry in finding solutions to multiple emerging global challenges. Progress toward solutions by the profession of chemistry will require a more visible and consistent integration of systems thinking into chemistry education at various levels. Students need guidance in seeing the relevance of their education in and through chemistry for addressing challenges such as sustainability, alternative energy, planetary boundaries, and the UN Sustainable Development Goals.

The project held a half-day meeting on July 10 and a lunch meeting on July 13. Currently, the project is planning to submit papers to define systems thinking in chemical education and raise awareness of the need to teach chemistry with a more systems oriented approach.

C. IUPAC100 Periodic table challenge

https://iupac.org/projects/project-details/?project_nr=2017-031-1-050

Objective from the website: The year 2019 marks 100th anniversary of IUPAC and 150th anniversary of the Periodic Table. The **IUPAC Centenary** is a prime opportunity to reflect on the value and work that is carried by the IUPAC. While doing so, one can not only inform the audiences of the variety of IUPAC activities but do so in a manner that covers each and every decade, not just the recent years.

Given the anniversary of the Periodic Table and its central role in chemistry, this project seeks to create an online global competition centered on the Periodic Table and IUPAC. The objective of the project is to promote IUPAC's role in shaping the global affairs of chemistry through a competitive online quiz. With this global activity, we aim at reaching a global audience of young students in a way that will be attractive to them, cost-effective to IUPAC, and that will give visibility to the work that IUPAC has been doing over the last 100 years.

The project committee is currently crafting questions for the online quiz and a mechanism to gamify the administration of it.

D. International Year of the Periodic Table (2019)

UNESCO has proclaimed that 2019 will be the International Year of the Periodic Table of Elements, a year that coincides with the 100th anniversary of IUPAC. Their intention, along with other organizations, is to "promote and celebrate the significance of the periodic table of elements."

E. The Chemistry Teacher International: https://iupac.org/projects/project-details/?project_nr=2016-002-4-050

Objective: To launch, with De Gruyter support, an open access journal called 'The Chemistry Teacher International'. The online journal will be peer reviewed and focus on good practices. The target group will be teachers in secondary education as well educational researchers.

Jan Apotheke, University of Groningen, The Netherlands, is the leader of this project and the Chair of the CCE. This will be an open access journal with plans is to publish twice a year. For more information see https://www.degruyter.com/view/j/cti

F. Flying Chemists Program – This program supports chemists traveling to countries to give teacher workshops to improve the teaching and learning of chemistry. Usually the countries face challenges in their educational systems. Currently there is discussion about setting a trip to Mongolia.

II. International Conference on Chemical Education in 2020

The next International Conference on Chemical Education will be in Cape Town, South Africa on July 13-17, 2020. Specifically, the conference will be held at the Lagoon Beach Conference Centre, Minerton. Dr. Bette Davidowitz of University of Cape Town gave a presentation about the upcoming conference.
III. Brief report from ICCE 2018

The ICCE 2018 was held at the University of Sydney featuring plenaries, presentations, and workshops across eight strands:

- Translating assessment into the next dimension
- Enhancing the transition to tertiary chemistry
- Joining the dots in laboratory learning.
- Reimaging the chemistry classroom paradigm
- Systems thinking in chemistry education
- Linking to secondary chemistry education research
- Creating the nexus between research and practice
- Building connections within the wider community

Presentations focused on chemistry education practice and chemistry education research globally, and the US was well represented. The problems faced by countries and schools with little to no equipment, no water in the classrooms, etc. are daunting and make implementing laboratory a challenge. Some of the presentations addressed these issues in new ways (i.e., using bottle caps to form well plates, discussions of local plants that can be used to make a universal indicator like red cabbage indicator, and “chemistry-in-a-box” in the Philippines where a chemistry activity with supplies is held within a small plastic box). There will be book published by Springer (similar to a proceedings) that will contain chapters from many of the presentations.

III. IUPAC 100 Anniversary

Please see https://iupac.org/100/

Activities of note beyond the periodic table challenge are the periodic table of young chemists and the global women’s breakfast.

Please read about and nominate a young chemist to be considered for the periodic table of young chemists. IUPAC will honor a diverse group of 118 outstanding younger chemists from around the world who in embody the mission and core values of IUPAC.

The Global Women’s Breakfast will take place on February 12, 2019 and will kick off in New Zealand. Please register your site https://iupac.org/100/global-breakfast/.

James Bryant Conant Award in High School Chemistry Teaching

Sponsor: Journal of Chemical Education and ChemEdX

Purpose: To recognize, encourage, and stimulate outstanding teachers of high school chemistry in the United States, its possessions or territories, at the national level.

Nature: The award consists of $5,000 and a certificate. Up to $2,500 for travel expenses to the meeting at which the award will be presented will be reimbursed. A certificate will also be provided to the recipient’s institution for display.

Eligibility: The award will be granted regardless of race, gender, age, religion, ethnicity, nationality, sexual orientation, gender expression, gender identity, presence of disabilities, and educational background. Any individual, except a member of the award selection committee or currently enrolled student of the nominee, may submit one nomination or support letter in any given year. Local sections are especially encouraged to submit nominations for the award. The nominee must be actively engaged in the teaching of chemistry in a high school (grades 9-12).

Deadline: November 1 apply online
ChemEd X: An Online Community for Chemistry Teachers

Who We Are

Chemical Education Xchange (ChemEd X, www.chemedx.org) provides a welcoming place for high school and college chemistry teachers to collaborate globally, to communicate experiences, and to share pedagogical ideas and tips. All ChemEd X content is moderated and includes articles and activities, which are peer-reviewed by high school and college-level chemistry teachers, as well as blogs, “picks,” and event announcements. Registered users (sign up for free) can enjoy interactive features by asking questions and providing comments. New and experienced teachers alike have contributed curriculum resources and ideas they have used successfully in their own classrooms. Among the topics considered are Modeling Instruction, project-based learning, technology applications, and standards-based grading.

Our Mission

To provide an online platform that allows readers and contributors to:

- **Xplore** resources and activities related to the central science
- **Xperience** with one another the profession of teaching chemistry
- **Xtend** outside the boundaries of traditional chemistry
- **Xchange** knowledge, ideas, and instructional materials

Our History

ChemEd X has a long association with the *Journal of Chemical Education (JCE)*. For many years, *JCE* offered chemistry teachers resources beyond the scope of the journal itself via *JCE* Online. *JCE* Online included software collections, assessment resources, and other materials specifically of interest to the chemistry teaching community.

In 2009, the Division of Chemical Education of the American Chemical Society and ACS Publications entered into an agreement to co-publish *JCE*. The shared publishing agreement did not include many *JCE* Online resources. Given the popularity and usefulness of those resources, now called “legacy material,” chemedx.org was created in 2012 to host the

“ChemEd X is like the ultimate teacher staff room. Every teacher there is passionate, kind, and great at what they do. They are always willing to help and share, and I always come away as a better educator. It is a huge bonus for my students.”

Chad Husting
Sycamore High School
resources. However, ChemEd X offers much more than the JCE Online resources and has become a virtual home for members of the high school chemical education community.

Since its inception, ChemEd X has not only continued to host legacy material, but has expanded to become a dynamic space for collaboration and community building. Recognizing its significance to the high school community as well as its application to other communities of practice within chemical education, the ACS Division of Chemical Education Board of Publication has established Chemical Education Xchange as an independent entity operating separately from JCE with its own Editor-in-Chief and staff. Jon Holmes, former editor of JCE Software and JCE Online and currently Managing Editor for JCE, has been selected by the Board of Publication to serve as Editor-in-Chief for ChemEd X. Although JCE and ChemEd X are now separate entities and feature different kinds of content, they continue to share similar goals and to support each other in advancing teaching and learning in chemistry.

Our Future

ChemEd X intends to serve communities of practice within chemical education. Other than the pre-college community where we currently concentrate, look for ChemEd X to provide services to the two-year college and the chemical education research communities starting this year. ChemEd X Conferences, a virtual conference service at conference.chemedx.org, is currently organizing its first conference and we expect to offer this service to other chemical education communities. ChemEd X strives to serve as a virtual home for its communities of practice and as its communities expand and identify desired online services, we will endeavor to provide those services.
How To Get Involved

In order to thrive, ChemEd X depends on content contributed by members of the chemical education community. To review the types of content you might contribute to ChemEd X, please go to www.chemedx.org. To submit content, go to “Request to contribute.”

Interactive features (such as posting comments) are available to registered users and registration is free. Registered users may choose to receive monthly newsletters highlighting recent content and may also request their own personal blog to informally share ideas.

A paid subscription provides critical support for ChemEd X. Paid subscribers gain access to premium ChemEd X content, which includes legacy material formerly available at JCE Online with the “Chemistry Comes Alive!” video and image collection, the “ChemEd X video collection,” and other instructional web-based software.

ChemEd X is maintained by chemistry teachers as a service to their peers. Deanna Cullen, a high school chemistry teacher from Michigan, serves as the Editor for the pre-college community. Twelve “lead contributors,” representing a wide variety of expertise in the field, serve as advisors and most contribute content on a regular basis.

Readers can follow ChemEd X on Facebook or on Twitter @ChemEdX.

For Further Information

The following Journal of Chemical Education articles provide more information:

JCE Chemical Education Xchange
Jon L. Holmes DOI: 10.1021/ed3007617

JCE Chemical Education Xchange: X Marks the Spot for Finding Quality Chemistry Education Resources
Deanna M. Cullen DOI: 10.1021/ed300790q

Direct inquiries and questions to:

Jon Holmes jon.holmes@chemedx.org Editor-in-Chief
Deanna Cullen deanna.cullen@chemedx.org Editor
Nomination Form for CHED Committees & Elected Positions

Below are listed the various committees or elected positions of the CHED Division. If you are interested in serving, or if you know of division members who are willing to become involved please fill out this form. For more information, please visit the Division of Chemical Education website at <www.acs.org> or contact the individuals listed below.

Committees
Biennial Conference (BCC)
Chemistry Education Research (CER)
Chemistry in the Two Year College (COCYT)
Computers in Chemical Education (CCCE)
Finance (FC)
Pre College (PreC)
International Activities (CIA)
Long-Range Planning (LRPC)
New Member (NMC)
Passer Portfolio (PPC)
Personnel & Nominations (CPN)
Program (PC)
Recognition (RC)
Regional Meetings (RMC)
Safety (SC)
Younger Chemistry Education Scholars (YCES)

Elected Positions (3 year terms)
Chair-Elect (Chair, Immediate Past Chair)
Secretary/Councilor
Treasurer
Member-at-Large (3 positions)
Alternate Councilor (4 positions)

Boards
Board of Publications (J. Chem. Ed.)
Board of Trustees (Exams Institute)

Name
__________________________________________________________________________________________________
Institution _______________________________________________________________________________________
E-Mail _____________________________________________________________________________________________
Committee or Position _______________________________________________________________________________

Name
__________________________________________________________________________________________________
Institution _______________________________________________________________________________________
E-Mail _____________________________________________________________________________________________
Committee or Position _______________________________________________________________________________

Jennifer Lewis, Chair, Personnel & Nominations
University of South Florida
Department of Chemistry/
Department of Women’s & Gender Studies
4202 East Fowler Avenue FAO 011
Tampa, Florida 33620
jennifer@usf.edu

Cheryl Frech
Professor of Chemistry
University of Central Oklahoma
Department of Chemistry
100 N. University Drive
Edmond, OK 73034-5209
cfrech@uco.edu
**Division of Chemical Education Teaching Excellence Endowment**

Why are you a chemist? Many of us would agree with Eli Pearce, Past President of the American Chemical Society (ACS), when he said “my excellent high school teacher was definitely responsible for my choosing chemistry as a career.” And now you can join the effort to ensure that the great teachers who launch so many scientific careers are recognized and rewarded by their professional society!

The ACS Division of Chemical Education has stepped forward to establish an endowment that will support awards for high school science teachers in every Region of the ACS. By establishing an effort to solicit funds for the Division of Chemical Education Teaching Excellence Endowment, the Division is making a firm financial commitment to high school science teaching, ACS Regions, and the profession of chemistry. But the project will not be successful without your help.

Our goal is not just a financial one; we are anxious to assemble a lengthy list of donors containing names, of both individuals and collective entities, that will demonstrate to the secondary education community that there is a large number of science professionals who appreciate the value of good science teaching in the Nation's high schools and who are willing to reward it.

Join other individuals and organizations that have already contributed to the. Most of all join what will be thousands of people who know, without that special teacher, their future would look very different.

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**DivCHED Publications**

Division Members are involved in a wide variety of activities that lead to publications in the area of chemical education.

The Journal of Chemical Education is the main publication outlet for the division.

DivCHED is also responsible for the publication of the ACS Exams via the Examinations Institute.

Other journals in which Members publish scholarly articles include:

- The Chemical Educator
- Education in Chemistry
- Science Education
- Journal of Research in Science Teaching
- International Journal of Science Education
- Journal of College Science Teaching
- The Science Teacher
- ChemMatters
- Chemistry Education Research and Practice
Membership Form

Introduce a friend, colleague, or student to the Division of Chemical Education

I wish to join DivCHED:  _____ as a Member, $20/year (for ACS members only)

   _    _ as an Affiliate, $20/year (for non-ACS members). Affiliates have all 
   membership privileges except voting for CHED Councilors and holding 
   elective office.

   _    _ as a Student, $20/year (for student ACS members only)

New members will receive information about CHED in general and about its major activities such as the 
Exams Institute, the Journal of Chemical Education/JCE Software/JCE Online, and 2YC3.

The ACS Membership Application is available online at 
www.acs.org/content/acs/en/membership-and-networks.html

General Information

Your Name: ______________________________  ACS membership no.: __________________

Home Address:  Send mailings here  Work Address:  Send mailings here

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

Email: ______________________________  Email: ______________________________

Did anyone encourage you to become a DivCHED member?  Yes  No

If yes, who? ______________________________

Payment Information

Payment ($20) must be made in U.S. funds on a U.S. bank—by draft or credit card. Purchase orders not 
accepted. There is a $30 charge for all returned checks.

___ Check or money order enclosed, payable to ACS Division of Chemical Education, Inc.

   _ MasterCard   _ VISA   _ American Express   _ Discover

_________________________________________  Credit Card Number

Expiration Date Month: _____ Year: _____

Signature of Card Holder: ______________________________

Return This Form

Mail: American Chemical Society, Member and Subscriber Services, 
PO Box 182426, Columbus, Ohio 43218-2426 
Phone: (800) 333-9511, Fax (614) 447-3671 
E-mail: service@acs.org

Rev 3/2018
Committee/Board Reports

International Activities Committee, Resa Kelly [resa.kelly@sjsu.edu], Chair

The IAC works to engage and connect with other networks of chemistry educators with global interests. Through these networks, we will exchange ideas about chemistry education research and practices that promote equity and diversity in chemistry education. We are very interested in learning how we can better assist our Division members to get involved with our committee, please contact DivCHED IAC Chair Resa Kelly if you want to learn more about our committee.

Since we last met at the ACS National Meeting in New Orleans the book: International Perspectives on Chemistry Education Research and practice – ACS Symposium Series was published (https://pubs.acs.org/isbn/9780841233461). Heartly congratulations go to DivCHED IAC members and co-editors Charlie Cox and Wendy Schatzberg!

At the spring meeting in New Orleans we discussed the following topics: 1) Conference work/symposia 2) Creating an International Lounge at future BCCEs 3) Travel award advertisement 4) Outreach to Graduate Students and Postdocs and 5) International Student Chapter Connections.

1. Conference Work/Symposia – we recognize that conference symposia are an important way to involve international speakers with US speakers. For the spring meeting (2019) to be held in Orlando, Florida we plan to organize two symposia that fit with the interests of international members. Chair Kelly has submitted an abstract on the topic of Science Olympiads while the trio of way We would like to encourage people to contribute abstracts or to direct others to these symposia who might be interested.

Kelly in collaboration with former DivCHED IAC chair Carmen Valdez Gauthier, will represent the DivCHED IAC at the Ibero Americano de Quimica conference in Lima, Perú to be held in October of 2018. The symposium will focus on the ways that we engage students to learn chemistry concepts that have interdisciplinary connections, and real-world applications or that bridge to advanced chemistry concepts.

Several of our members attended the ICCE in Sydney, Australia – these were: Alison Flynn, Wendy Schatzberg, Hanna Sevian and Roy Tasker.

2. International Lounge – At the BCCE in Notre Dame we have requested a place where international guests can be encouraged to meet and where we can have facilitators to assist international guests. To kick off the conference, Chair Kelly has organized an international mixer and we hope we can begin to brainstorm additional ways that we can better assist international attendees at conferences and promote collaboration. IAC members will be brainstorming ways that we can use the lounging space to promote deeper relations and collaborations.

3. Travel Award – at the BCCE, we will once again be attempting to have a small business card with our travel award application information included in the BCCE bags. We will continue to use social media as a way to reach out too.

4. Outreach to Graduate Students and Postdocs – we would like to put the call out to YCES of both DivCHED and the ACS to find ways to develop international outreach to graduate students and postdocs and exchange students. Akiko Nakamura and Alexey Leontyev attended social events at the ACS in New Orleans and they reported back that there is much interest in learning about international job openings, how to apply and how to be competitive internationally. This area is ripe for our future efforts.

5. International Student Chapters – There are currently 49 international student chapters as reported through the IAC of the Society. Former DivCHED IAC member Dr. Santiago Sandi-Urena attended our last meeting and reported on his efforts to begin a chapter in Costa Rica. He established the need to bring a small team of Costa Rican students to the BCCE and we have worked with DivCHED IAC member Conrad Bero to offer travel assistance. Bero has graciously donated a small travel endowment to the committee to assist international members with travel to ACS and BCCE meetings. Sachel Villafane will be interviewing the Costa Rican students on behalf of DivCHED IAC to help us learn more about their vision and goals. We look forward to finding ways that we can collaborate with other international chapters and we hope to find a way to extend our committee size to allow us to add 3 to 5 international student chapter representatives onto the committee roster.

Thank you for reading!

DivCHED IAC Chair Resa Kelly
Regional Meetings Committee, Marty Perry [Marty.Perry@stlcop.edu] Chair

The Regional Meetings Committee (RMC) is charged by the Division to:

1. Provide oversight of the ACS Division of Chemical Education Region Awards, which includes the development and maintenance of Award Guidelines, participation in the selection and presentation of the Region Awards,
2. Insure that a Chemical Education Program is part of each Regional Meeting, and
3. Promote the purpose and work of the ACS Division of Chemical Education.

RMC is pleased to outline in this NEWSLETTER Report recent efforts to address its charge.

1. ACS Division of Chemical Education Region Awards:

2018 ACS Division of Chemical Education Region Award Recipients:

Eight of the ten ACS Regions will hold meetings in 2018 providing opportunities to recognize and reward excellence in the teaching of high school chemistry. RMC is pleased to report on the one region Award presented in Spring/Summer 2018.

The 45th ACS Middle Atlantic Regional Meeting, June 3, Bethlehem, PA

The winner of the 2018 Division of Chemical Education Middle Atlantic Region Award for Excellence in High School Chemistry Teaching is Dr. Nader Makarious from Brandywine High School in Wilmington, DE.

Dr. Nader Makarious, a native of Egypt, was born to parents who were both educators. After obtaining his bachelor’s degree in Chemistry & Physics Education from Alexandria University, Egypt, he started teaching at public schools in Egypt. In 2000, Nader moved to the US, obtained his teaching certificate, and worked for a year at Aquinas Academy, a private school in Bear, DE. The following year he moved to Brandywine High School in Wilmington, DE, where he currently teaches. At BHS, he has taught all levels of chemistry: conceptual, college preparatory, honors, advanced placement, and environmental chemistry.

In 2008, Nader obtained his Master’s degree in Chemistry Education from the University of Pennsylvania. A few months later, he joined the doctoral program at the University of Delaware, where he earned his doctoral degree in Education Leadership, Curriculum, Technology, and Higher Education in 2017. His interest in using models in teaching chemistry led him to design his dissertation, “Designing an Educative Curriculum Unit for Teaching Molecular Geometry in High School Chemistry.” During his doctoral work, Nader received the Robert W. Stegner Excellence Award for demonstrating outstanding qualities and dedication to the teaching profession.

During his study at UPenn, Nader was highly interested in cultural adaptive practices in education; he presented “Using Hip-Hop to Teach and Learn Chemistry in High School” at NYU’s “Sharing our Success Conference,” at the National Association for Research in Science Teaching (NARST), and Lehman College in NY, and at UPenn. He is interested not only in cultural competency in the classroom but also in Environmental Chemistry; he completed his thesis on Biodiesel Fuel.

At BHS, Nader is an active member on the district’s science curriculum committee, AP alignment committee, and is head of the teacher-of-the-year committee in addition to serving as a Peer Group Connection ambassador. His passion for extracurricular science activities has lead him to coach Odyssey of the Mind and Science Olympiad, and to collaborate with other science, math, and technology teachers as a “STEM Team”, where he creates and co-presents at the University of Delaware’s Interdisciplinary Laboratory. He was named the ACS Delaware Section High School Teacher of the Year in 2016.

Finalists for the Spring 2018 ACS Division of Chemical Education Region Awards for Excellence in High School Teaching:

In 2014 RMC began the practice of using the DivCHED Newsletter to recognize all nominees for the Region Award for Excellence in High School Teaching and the schools at which they teach. In the tables below we list each Region Award, the 2018 Recipient, and all those whose complete nomination portfolios came before the Region Awards Committees.

2018 ACS Division of Chemical Education Middle Atlantic Region Award for Excellence in High School Teaching

AWARDEE

Nader Makarious
Brandywine High School
Wilmington, DE 19803

FINALISTS

Carol Conti
Briarcliff High School
Briarcliff Manor, NY 10510

Emilie Gingras
The Hun School of Princeton
Princeton, NJ 08540
2. Chemical Education Programming at Regional Meetings:

RMC continues to work with organizing committees for Regional Meetings early on in the planning process to not only encourage Chemical Education programming but to also volunteer to organize symposia, general sessions, or poster sessions. Attention is now directed toward expansion of the Chemical Education programming at the regional meetings planned for 2019.

3. Promotion of ACS Division of Chemical Education through Regional Meetings:

RMC continues its joint project with the New Members Committee involving the design, preparation, and display of a poster that describes, using text and images, the mission and activities of the Division of Chemical Education. The poster is displayed by the DivCHED Representative, at each of the Regional Meetings, in a formal poster session and/or in the Registration area. The poster serves as a device to disseminate information about Division and to recruit new members to the Division. The new poster includes new text and images highlighting Division activities, resources, and ways for members to become involved.

Safety Committee Report, Dave Finster [dfinster@wittenberg.edu] Chair

The Safety Committee continues to meet regularly at the national ACS meetings. These meetings are open and any CHED member is welcome to attend. The meeting in Boston will be from 4:00-5:30 on Sunday, August 19, in the Beacon Hill 2 Room of the Seaport World Trade Center. If you have questions, concerns, or ideas about chemical health and safety instruction, please feel free to join us. Otherwise, you can email Dave Finster (dfinster@wittenbeg.edu) anytime on such matters.

Plans are afoot to schedule two safety-related symposia at all national meetings. Please stay alert for Call for Papers announcements so you can share your ideas about promoting safety in educational settings.

A special edition of the Journal of Chemical Education about safety and green chemistry is planned for 2019. A Call for Papers should appear in the coming months.

The Safety Committee has now been operating for three years and any several other safety-related projects are in the works. There is a regular turnover personnel on CHED committees. If you are interested in joining the Safety Committee please use the “Get Involved” link on the Membership tab on the CHED homepage.

Stay Safe!
Dave Finster
Chair, Safety Committee
256th ACS Meeting & Exposition, Boston, MA

August 19-23, 2018

Theme: Nanoscience, Nanotechnology & Beyond

Meeting Co-Chairs:
Deborah Bromfield-Lee, Florida Southern College dbromfieldlee@flsouthern.edu
Patrick Daubenmire, Loyola University Chicago, pdauben@luc.edu

Chemistry Teachers Day Chair:
Sherri Rukes, Libertyville High School, scrukes@comcast.net
Ariel Serkin, Norfolk County Agricultural High School, aserkin@stemteachersmassbay.org

Undergraduate Poster Chair:
Nicole DiFabio, Undergraduate Programs Office, American Chemical Society, N_DiFabio@acs.org
Jessica Roberts, American Chemical Society j_roberts2@acs.org

CHED Program Chair:
Anderson Marsh, Lebanon Valley College, Marsh@lvc.edu

GSSPC Organizers:

Program Synopsis

SUNDAY MORNING
Chemistry Teachers Day Program
Cosponsored by PROF
S. C. Rukes, Organizer, Presiding
A. N. Serkin, Presiding
Informal STEM Education: Innovation & Collaboration
Cosponsored by CCA, CPRC and PROF
D. I. Lewis, D. F. Sittenfeld, Organizers, Presiding
Women of Color in the Academy: Empirical Studies & Models of Success
Sponsored by PROF, Cosponsored by CHED and WCC

SUNDAY AFTERNOON
Chemistry Teachers Day Program
Cosponsored by PROF
S. C. Rukes, Organizer, Presiding
Informal STEM Education: Innovation & Collaboration
Cosponsored by CCA, CPRC and PROF
D. I. Lewis, D. F. Sittenfeld, Organizers, Presiding
Undergraduate Research Papers
Cosponsored by SOCED
C. V. Gauthier, J. V. Ruppel, Organizers
N. L. Snyder, Organizer, Presiding

SUNDAY EVENING
General Posters
A. L. Marsh, Organizer

MONDAY MORNING
General Papers Curriculum
S. A. Fleming, Organizer
A. V. Mallia, Presiding
Science Diplomacy & Chemistry Education The Middle East
Cosponsored by IAC and PROF
M. Z. Hoffman, Z. M. Lerman, Organizers, Presiding
MONDAY MORNING (continued)
Approaches in Using Food & Cooking to Engage Diverse Audiences in Science
K. Hollar, V. Maini Rekdla, P. M. Sorensen, Organizers, Presiding
How to Get Your 1st Industrial Job
Sponsored by PROF, Cosponsored by CHED, CTA and YCC
Citizen Science & Chemistry
Sponsored by ENVR, Cosponsored by CEI and CHED

MONDAY AFTERNOON
From Nano to Macro: How to Let Students Discover the Applications of Materials
Financially supported by IPEC
S. C. Rukes, Organizer, Presiding
Science Diplomacy & Chemistry Education The Middle East & Beyond
Cosponsored by IAC and PROF
M. Z. Hoffman, Z. M. Lerman, Organizers, Presiding
Approaches in Using Food & Cooking to Engage Diverse Audiences in Science
K. Hollar, V. Maini Rekdla, P. M. Sorensen, Organizers, Presiding
Undergraduate Research Posters Agricultural & Food Chemistry
Cosponsored by AGFD and SOCED
N. Di Fabio, J. Roberts, Organizers
Undergraduate Research Posters Analytical Chemistry
Cosponsored by ANYL and SOCED
N. Di Fabio, J. Roberts, Organizers
Undergraduate Research Posters Biochemistry
Cosponsored by BIOL and SOCED
N. Di Fabio, J. Roberts, Organizers
Undergraduate Research Posters Biotechnology
Cosponsored by BIOT and SOCED
N. Di Fabio, J. Roberts, Organizers
Undergraduate Research Posters Chemical Education
Cosponsored by SOCED
N. Di Fabio, J. Roberts, Organizers
MONDAY AFTERNOON (continued)
Undergraduate Research Posters Colloid & Surface Chemistry
Cosponsored by COLL and SOCED
N. Di Fabio, J. Roberts, Organizers

Undergraduate Research Posters Computational Chemistry
Cosponsored by COMP and SOCED
N. Di Fabio, J. Roberts, Organizers

Undergraduate Research Posters Environmental Chemistry
Cosponsored by ENVR and SOCED
N. Di Fabio, J. Roberts, Organizers

Undergraduate Research Posters Green Chemistry & Sustainability
Cosponsored by CEI and SOCED
Financially supported by GCI; I&EC Green Chemistry
N. Di Fabio, J. Roberts, Organizers

Undergraduate Research Posters Inorganic Chemistry
Cosponsored by INOR and SOCED
N. Di Fabio, J. Roberts, Organizers

Undergraduate Research Posters Medicinal Chemistry
Cosponsored by MEDI and SOCED
N. Di Fabio, J. Roberts, Organizers

Undergraduate Research Posters Nanochemistry
Cosponsored by SOCED
N. Di Fabio, J. Roberts, Organizers

Undergraduate Research Posters Organic Chemistry
Cosponsored by SOCED
N. Di Fabio, J. Roberts, Organizers

Undergraduate Research Posters Physical Chemistry
Cosponsored by SOCED
N. Di Fabio, J. Roberts, Organizers

Undergraduate Research Posters Polymer Chemistry
Cosponsored by PMSE, POLY and SOCED
N. Di Fabio, J. Roberts, Organizers

TRiO & Chemistry
Sponsored by PROF, Cosponsored by CHED, MAC, WCC and YCC

MONDAY EVENING
Sci-Mix

Successful Student Chapters
Cosponsored by SOCED
N. Di Fabio, J. Roberts, Organizers

TUESDAY MORNING
General Papers General Chemistry
S. A. Fleming, Organizer
J. Houck, Presiding

GSSPC: Frontiers in Computational Chemistry: Bridging the Gap Between Theory & Experiment
Cosponsored by COMP
S. Fischer, K. Pellegrone, Organizers, Presiding

Citizens First! Using Real-World Contexts for Engaging Students in Learning Chemistry
Cosponsored by CEI
Financially supported by Strem Chemicals, Inc.
G. Clark, P. L. Daubenmire, Organizers, Presiding

Broadening Participation in STEM: Empirical Studies & Models of Success
Improving Participation through Research & Partnerships
Sponsored by PROF, Cosponsored by CHED, MAC and WCC

Chemistry Librarians of the Future
Sponsored by CINF, Cosponsored by CHED

WEDNESDAY MORNING
General Papers Organic
S. A. Fleming, Organizer
K. R. Caldwell, Presiding

Green Chemistry Theory & Practice: Nanoscience, Nanotechnology & Beyond
Cosponsored by CEI
Financially supported by GCI; I&EC Green Chemistry
J. E. Wissinger, Organizer
E. J. Brush, Organizer, Presiding

Facilitating Student Success in General Chemistry I Laboratory
G.A. Brown Wright, Organizer, Presiding

Henkel Award for Outstanding Graduate Research in Polymer Chemistry: Symposium in honor of Aleksandr V. Zhukhovitskiy
Sponsored by PMSE, Cosponsored by CHED‡, POLY‡ and PROF

WEDNESDAY AFTERNOON
Research in Chemistry Education
Financially supported by ACS DivCHED Committee on Chemistry Education Research
H. Sevian, J. P. Walker, Organizers, Presiding

Green Chemistry Theory & Practice: Nanoscience, Nanotechnology & Beyond
Cosponsored by CEI and IAC
Financially supported by GCI; I&EC Green Chemistry
E. J. Brush, Organizer
J. E. Wissinger, Organizer, Presiding

Alternate Assessment Methods
M. C. Koether, Organizer, Presiding

THURSDAY MORNING
General Papers
Lab Oriented Issues
S. A. Fleming, Organizer
S. K. Hurst, Presiding
Schedule of CHED Committee/Board Meetings and Social Events

Friday, August 17
Finance Committee (open)
Boston Convention & Exhibition Center
Room 103
3:00PM – 6:30PM

Saturday, August 18
ACS Exams Institute, Board of Trustees (open)
Seaport World Trade Center
Beacon Hill 3
7:30AM – 12:00PM

JCE, Board of Publications (open)
Seaport World Trade Center
Beacon Hill 2
7:30AM – 12:00PM

Program Committee (open)
Seaport World Trade Center
Cambridge 2
10:30AM – 12:00PM

Executive Committee
Seaport World Trade Center
Waterfront Ballroom 3
1:00PM – 1:30PM (closed)
1:30PM – 4:00PM (open)
4:00PM – 5:30PM (closed)

Sunday, August 19
Long Range Planning Committee (open)
Boston Convention & Exhibition Center
Room 103
2:30PM – 4:30PM

Safety Committee (open)
Seaport World Trade Center
Beacon Hill 2
4:00PM – 5:30PM

DivCHED Social Reception (open)
Seaport World Trade Center:
Cityview Ballroom 2
5:30PM – 7:00PM

Boston Convention & Exhibition Center
415 Summer Street
Boston, MA 02110
(617) 954-2000

Seaport Hotel & World Trade Center
One Seaport Lane
Boston, MA, 02210
(877) 732-7678
AGENDA – Executive Committee (Open)
Division of Chemical Education
Saturday, August 18, 2018
Seaport World Trade Center, Waterfront Ballroom 3, Boston, MA

Notes:
1. The agenda packet is available on the Division web site: [http://www.divched.org/](http://www.divched.org/)
2. The Executive Committee (ExComm) consists of 19 members, 13 elected members, plus the Chair of the Board of Publication, Editor-in-Chief, J. Chem. Educ., the Chair of the Board of Trustees, the Director, Examinations Institute and the Chair, Division Program Committee (Chair and Chair Elect). Only ExComm members are present in Executive Session. Input is welcomed from all in attendance at the Open Session, but ExComm members are the only persons who may vote on actions before the Executive Committee.

Open Session -1:30PM to 4:00PM

<table>
<thead>
<tr>
<th>Action (X)</th>
<th>Time</th>
<th>Items</th>
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<tbody>
<tr>
<td></td>
<td>1:30</td>
<td>Call to order</td>
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<td>X</td>
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<td>Approve meeting agenda and consent agenda reports</td>
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<td>Approval of the Spring 2018 ExComm Meeting Minutes, Open Session</td>
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<td>Introductions</td>
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<td>Chair’s Announcements – C. Frech</td>
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<td>• Public Relations Task Force Update</td>
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<td>Past Chair’s Announcements – M. Orgill</td>
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<td>Chair Elect’s Announcements – I. Levy</td>
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<td>Secretary’s Announcements – D. King</td>
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<td>Operations Manual Update – D. Cullen</td>
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<td>3:00</td>
<td>Biennial Conference Committee Update – D. Sykes</td>
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<td>Break</td>
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<td>Review of conference-childcare conundrum birds-of-father meeting at BCCE – C. Frech</td>
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<td>Program Committee Report – A. Marsh</td>
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<td>Treasurer’s General Report – D. Licata</td>
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<td>Board of Publication Oral Report – E. Yezierski</td>
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<td>3:45</td>
<td>Board of Trustees of the ACS Exams Institute Oral Report – A. Grushow</td>
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<td>Open Discussion/Input to the Executive Committee</td>
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<td>AACT Representative – A. Modic</td>
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<td>ACS Education Division Highlights – J. Wesemann</td>
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<td>Recognition of Division Award Winners – C. Frech</td>
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<tr>
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<td>4:00</td>
<td>Adjourn Open Session</td>
</tr>
</tbody>
</table>
**Chemistry Teacher Program**

- Reduced price for pre-college (high & middle school) teachers!
- All day Sunday & Monday afternoon programming for teachers
- Full access to the chemistry teacher program AND the entire ACS meeting AND the exposition!
- Networking opportunities with other chemistry teachers
- Earn Professional Development hours

**Registration**

Cost for Middle/High School Teachers: $120

Pre-college teacher registrants:

The Chemistry Educators Luncheon is included with your registration, as generously provided by the ACS Division of Chemical Education.

Your registration includes full access to the ACS meeting and exposition hall.

**PD Hours**

Attendees can track up to 24 professional development hours for sessions attended at the ACS National Meeting. Forms will be distributed during the chemistry teacher programing. Upon submission of the form, a certificate will be mailed documenting hours of participation.

Visit [www.acs.org/chemistryteacherprogram](http://www.acs.org/chemistryteacherprogram) for up-to-date information

Follow #ACSTeacherDay on Twitter

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**Future ACS National Meetings**

| 257th ACS National Meeting & Exposition | March 31-April 4, 2019 | Orlando, Florida |
| 258th ACS National Meeting & Exposition | August 25-29, 2019 | San Diego, CA |
| 259th ACS National Meeting & Exposition | March 17-21, 2024 | New Orleans, LA |

**2018 Regional ACS Meetings**

| Northeast Nanomaterials Meeting (NENM) | June 1 - 3 | Lake Placid, NY |
| NanoMARM | June 3 | Bethlehem, PA |
| Northwest (NORM) | June 24 - 27 | Richland, WA |
| Midwest (MWRM) | October 21 - 23 | Ames, IA |
| Southeastern (SERMACS) | October 31 - November 3 | Augusta, GA |
| Southwest (SWRM) | November 7 - 10 | Little Rock, AR |
Project SEED 50th Anniversary Celebration

Presidential Symposium:  Growing with Project SEED: 50 years and 10,000+ Students
Monday, August 20, 2018
Sheraton Boston Hotel – Back Bay D

8:30 AM Introductory Remarks – Don Warner
8:35 AM Madeleine Jacobs (with Sir Fraser Stoddart)–Project SEED: An audacious experiment turns 50
8:55 AM Teri-Quinn Gray (1981)–Relationship. Relevance. Reach
9:15 AM Kevin Hunt (1989)– Project SEED: From Farm to Pharma
9:55 AM Intermission
10:05 AM David Chavez (1992)–The Explosive Impact of Project SEED
10:45 AM Rocio Del Mar Aviles-Mercado (2016)–Project SEED: The Nucleus of My Career
11:05 AM “The Impact of Project SEED: A Panel Discussion”
(George Fisher, Elaine Gomez, Javoris Hollingsworth, Nadia Makar, Ajay Mallia, and Elaine Yamaguchi)
11:25 AM Concluding remarks – Peter Dorhout, ACS President

Co-Sponsors: ACS Publications Division, Chemical Abstracts Service AGFD, AGRO, ANYL, BIOL, BMGT, CA, CARB, CCS, CHED, CINF, CMA, COLL, CPT, CTA, CWD, ENFL, ENVR, HIST, I&EC, IAC, LSAC, ORGN, PROF, SCHB, SEED, SOCED, WCC, YCC

Reception:  Project SEED 50th Anniversary Celebration
2:00 – 4:00 PM
Sheraton Boston Hotel – Republic B

Poster Session:  Sci-Mix
8:00 – 10:00 PM
BCEC, Exhibit Hall B2/C
PRESIDENTIAL SYMPOSIUM AND EVENTS

ACS 256th National Meeting
Monday, August 20, 2018

Presidential Symposium
Growing with Project SEED: 50 years and 10,000+ Students
Sheraton Boston Hotel – Back Bay D
8:30 – 11:30 AM

Reception
Project SEED 50th Anniversary Celebration
Sheraton Boston Hotel, Republic B
2:00 – 4:00 PM

Sci-Mix
Project SEED Student Research Posters
Boston Convention & Exhibition Center
Exhibit Hall B2 & C
8:00 – 10:00 PM

Cosponsored by: ACS Publications Division, Chemical Abstracts Service
AGFD, AGRO, ANYL, BIOL, BMGT, CA, CARB, CCS, CHED, CINF, CMA, COLL, CPT, CTA, CWD, ENFL, ENVR, HIST, I&EC, IAC, LSAC, ORGN, PROF, SCHB, SEED, SOCED, WCC, YCC
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Division Office
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Note: The Executive Committee (ExCom) has 16 members; all are elected except the Editor, Journal of Chemical Education, the Director, Examinations Institute and the Program Chair. Only these 16 members have a vote on issues before or actions pending before the Executive Committee in its semiannual meetings.
2018 DivCHED Committee Chairs

Executive Committee (ExComm)
Cheryl Frech
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Melanie Teichert
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chair@2yc3.org

Committee on Computers in Chem Ed (CCCE)
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University of Minnesota Rochester
pratr001@umn.edu

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jlmking@hotmail.com
Rachel Morgan Theall
Southeast Missouri State University
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rmtheall@semo.edu

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Committee on Personnel & Nominations (CPN)
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(Address Page)

Recognition Committee (RC)
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Marty.Perry@stlcop.edu

Web Committee (WEB)
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Journal of Chemical Education
Tel. 608.262.7917
jlholmes@chem.wisc.edu

Young Chemists (YCC)
Jordan Harshman
Auburn University
jth0083@auburn.edu
Biennial Conference Committee
Dan Sykes (13-18), Chair (17-18)
Justin Carmel (18-20)
Renee Cole (17-19)
Scott Donnelly (18-20)
Irv Levy (17-19)
Suzette Mooring (15-17, 18-20)
Barbara Murry (18-20)
MaryKay Orgill (13-18)
Alice Putti (18-20)
Clarissa Sorensen-Unruh (17-19)
Vickie Williamson (12-17, 18-20)

Chemical Education Research
Jack Barbera (member 13-15; co-chair 16, chair 17-18)
Melonie A. Teichert (member 15-17, co-chair 18, chair 19-20)
Thomas Bussey (17-19)
Melanie Cooper (18-20)
Barbara Gonzalez (18-20)
Lisa Kendhammer (17-19)
Cynthia Luxford (16-18)
Sam Pazicni (13-18)
Thomas Pentecost (17-19)
Stephanie Ryan (18-20)
Vicente Talanquer (17-19)
Joi Walker (16-18)

Committee on Chemistry in the Two-Year College
Mary Roslonowski, Chair
Peter Larkowski, Chair-Elect '18
Robert Kojima, Chair-Elect '19
Kathy Carrigan, Past Chair
Tamika Duplessis, Online Conference Coordinator
Julie Elleson-Kuehn, Treasurer
Jason Jadin, Membership Chair
Neil Bastian, CHED Representative
Amy Jo Sanders, Workshops Liaison
DeeDee Allen, Industrial Sponsors Chair
Scott Donnelly, Future Sites Coordinator
Jonathan Gittins, Newsletter Editor
Luca Preziati, Webmaster

Computer Committee
Xavier Prat-Resina (member 11-13, 14-16, 17; chair 18-19)
Jennifer Muzyka (chair 16-17; member 12-15, 18-20)
Jordan Beck (16-18)
Jordi Cuadros (11-13, 14-16, 17-19)
Eric (Rick) Epp (13-15, 16-18)
Tanya Gupta (16-18)
Ling Huang (17-19)
Emily Moore (13-18)
Rick Nelson (15-17, 18-20)
Maria Pacheco (17-19)
Harry Pence (11-13, 14-16, 17-19)
Justin Shorb (15-17, 18-20)
Rick Spinney (18-20)

Finance Committee
Catherine Middlecamp, Chair (15-17, 18-20)
Cheryl Frech (CHED Chair-elect 18-20)
MaryKay Orgill (CHED Past Chair 16-18)
David Licata (CHED Treasurer 18-20)

Passer Portfolio Committee
Catherine MacGowan (13-14), Chair (15-17)
Roxie Allen (14-16, 17-19)
Laura Anna (15-17, 18-20)
Chris Bauer (17-19)
Tom Higgins (14-16, 17-19)
Susan Shelbie (16-18)
Julie Smist (12-17, 18-20)
Gail Webster (15-17, 18-20)
Dan King, Ex-Officio (19-17)

Long Range Planning Committee
Tom Jose, (12-14), Co-Chair (15, chair 16-18)
Iona Black (14-16, 17-19)
Bill Donovan (2018-20)
Cheryl Freech (15-17, 18-20)
Tom Higgins (18-20)
Kim Linenburger Cortes (15-17, 18-20)
James MacArthur (17-19)
Sherri Rukes (18-20)

Committee on International Activities
Resa Kelly member (13-15), co-chair (16, 17-19)
Nicole Becker (15-17, 18-20)
Conrad Berigo (14-16, 17-19)
Charlie Cox (15-17, 18-20)
Alison Flynn (16-18)
Sarah Hansen (15-17, 18-20)
Alexey Leonov (17-19)
Akiko Nakamura (17-19)
Stephanie Ryan (17-19)
Hannah Sevian (13-18)
Roy Tasker (16-18)
Sachiel Villafane (17-19)

New Member Committee
Michelle Head (13-15, Chair 16-18)
MaryBeth Anzovino (16-18)
Katherine Aubrech (16-18)
Rich Bauer (17-19)
Dawn DelCarlo (17-19)
Nichole DePaul (12-17, 18-20)
Ushiri Kultunung (15-17, 18-20)
LaKeisha McClary (18-20)
Cinzia Muzzi (15-17, 18-20)
Andri Smith (18-20)
Deanna Cullen (17-19) Member-at-Large

Personnel & Nominations
Jennifer Lewis (13-14), Chair (15-18)
Roxie Allen (14-16, 17-19)
Laura Anna (15-17, 18-20)
Chris Bauer (17-19)
Tom Higgins (14-16, 17-19)
Arlene Russell (15-17, 18-20)
David Licata, Ex-Officio (18-20)

Pre-College Committee
Jo King (14), Co-Chair (15-16, 17-19)
Rachel Morgan Theall (13-15) Co-Chair (16-18)
Roxie Allen (17-19)
Kate Anderson (13-15, 16-18)
Jamie Benigna (18-20)
Sarah Boesdorfer (14-16, 17-19)
Michael Dianovskiy (16-18)
Kathy Kitzmann (14-16, 17-19)
Matt Miller (18-20)
Sally Mitchell (14-16, 17-19)
Michael Morgan (15-17, 18-20)
Paul Price (17-19)
Laura Slocum (11-16, 17-19)
Analice Sowell (11-16, 17-19)
Erin Wasserman (16-18)
Program Committee
Anderson Marsh (13-16) Chair (17-18)
Iona Black (13-18)
Deborah Bromfield-Lee (15-17, 18-20)
Amy Cannon (11-13, 14-16, 17-19)
Patrick Daubenmire (13-15, 16-18)
Mitzy Erdman (18-20)
Steve Flemming (12-17, 20-18)
Nick Grossoehme (16-18)
Kermin Martinez-Hernandez (18-20)
Patti McCall (18-20)
Cathy Middlecamp (14-16, 17-19)
Emily Moore (15-17, 18-20)
Cinzia Muzzi (17-19)
MaryKay Orgill (07-18)
Jeffery Raker (17-19)
Beatriz Rios McKee (12-17, 18-20)
Wendy Schatzberg (15-17, 18-20)
Julianne Smist (17-19)
Ryan Sweeder (18-20)
Craig Teague (18-20)
Jessica VandenPlas (18-20)
Li-Qiong Wang (15-17, 18-20)
Denyce Wicht (16-18)
Lou Wojcinski (18-20)

Recognition Committee
Frank Torre, Chair (15-17, 18-20)
Julie Ellefson-Kuehn (14-16)
John Gelder (18-20)
Judith Iriarte-Gross (18-20)
Resa Kelly (17-19)
Amy Modic (17-19)
Arlene Russell (11-16, 17-19)

Regional Meeting Committee
Marty Perry (15-17)
Chair (16-17, 18-20)
Seth Anthony (14-16, 17-19)
Ted Clark (18-20)
Matt Horn (16-18)
Sara Johnson (18-20)
Patricia Mabrouk (16-18)
Andrea Martin (15-17, 18-20)
Stephen Prilliman (17-19)
Jerry Sarquis (12-17, 18-20)
Susan Shih (16-18)
Janelle Torres y Torres (15-17, 18-20)

Safety Committee
David Finster, Chair (15-17, 18-20)
Irene Cesa (15-17, 18-20)
Melissa Charlton-Smith (15-16, 17-19)
Jim Kaufman (15-17, 18-20)
Mark Lassiter (15-18)
Barbara Mowery (15-18)
Sammye Sigmann (15-17, 18-20)
Larry Tirri (15-16, 17-19)
Haim Weizman (15-16, 17-19)
Sue Wiediger (15-16, 17-19)
John Wiginton (15-18)
Monique Wilhelm (15-17, 18-20)
Frankie Wood-Black (15-17, 18-20)
Jing-Yi Chin (18-20)

Web Committee
Jon Holmes, Chair (2007-present)
Heather Johnson (2011-present)

Young Chemists Committee
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Anthony Harrison (18-20)
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Travis Lund (18-20)
Courtney Ngai (18-20)
David Wren (15-17, 18-20)
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MaryKay Orgil (16-18) Ex-Officio
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Deanna Cullen (17-19) Ex-Officio
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