DivCHED Newsletter
Spring 2018

2018 BCCE
Jul. 29-Aug. 2, 2018 | University of Notre Dame

Malta VIII: Research and Education in the Middle East—A Bridge To Peace

The Dorothy and Moses Passer Education Fund,
Deadline April 1, 2018

ACS 255th National Meeting
The Food, Energy, Water Nexus

March 18-22, 2018 | New Orleans, LA

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American Chemical Society
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Letters from the Executive Committee

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

People who are not teachers sometimes ask, “How can you teach the same courses over and over? Yet those of us who teach know that a particular course is never the same, even if taught frequently and/or regularly. The students are different, you are different, and the world is different each time you and your students work your way through the course material. The work of Division of Chemical Education is similar. Although it may seem that the division does the same things every year, we make improvements in our processes and policies to benefit the wider chemical education community. And each year brings new meetings, programming, and events.

What’s new in 2018?

Have you seen our division video? Ellen Yezierski graciously agreed to be the spokesperson for CHED and worked with production staff to create an excellent short video to encourage others to join the division. You can find it on the CHED homepage, http://www.divched.org.

In our ongoing efforts to professionalize the division’s work, we have hired a firm on a trial basis to handle much of the division’s business and to assist the Board of Publication and Board of Trustees with their financial affairs. Many thanks to the team of MaryKay Orgill, Cathy Middlecamp, David Licata, Rick Moog, Julie Adams, and Anna Wilson who created a job description, interviewed firms, and finalized the contract to hire the firm.

Many hours of work also went into the revision of the division bylaws, which were recently approved and certified. In 2018 we turn to the Operations Manual, which is posted on our website under the tab, “About CHED”. Each committee will be asked to revise their portion of the Operations Manual and we will implement a plan to regularly review this document. Our member-at-large, Deanna Cullen, will lead this effort.

A glance at our most recent division eRoster shows that we have about 4390 members. In only six years, we have lost about 1000 members. The reasons behind this rather precipitous decline are certainly complex, and may also reflect the move of some pre-college members to our sister organization, the American Association of Chemistry Teachers, AACT. Nevertheless, the eRoster also shows that CHED has some 822 members who are in their first year of membership. I challenge each of you to find one of those 822 people at your regional meeting, at the 2018 ACS national meetings in Orlando or Boston, or at this summer’s BCCE at the University of Notre Dame. Ask them why they joined, and help them find a way to get involved in the division.

In a 1675 letter to his contemporary and rival Robert Hooke, Isaac Newton states, “If I have seen further it is by standing on the shoulders of Giants”. Many “Giants” of the CHED chair succession have preceded me. Cathy Middlecamp was the immediate past chair in 2017, but there is nothing “past” about Cathy. She has boundless energy and the willingness to tackle new projects. MaryKay Orgill, my predecessor as chair, is always working at least three steps ahead. Her attention to detail and careful analysis of any problem is extremely valuable. I am grateful to both women for their support, assistance, and kindnesses.

CHED hosts a reception at 5:00 pm Sunday at the New Orleans ACS meeting. We invite you to drop in and make a personal connection.

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.
From the Chair-Elect, Irv Levy [Irv.Levy@gordon.edu]

“Begin at the beginning… and go on till you come to the end: then stop.”
— Adventures in Wonderland, Lewis Carroll 1832-1898

Greetings! I am beginning my time of service on the Division of Chemical Education’s chair succession this winter. Even though I have been busy working behind the scenes with the Executive Committee during the past seven years, as the Division’s Program Chair, I am impressed with the many projects and activities that are underway and I am inspired by the dedication of our volunteers who are leading those initiatives.

There are two specific overarching themes that I will continue to work on in the next several years. First is our explicit goal to increase diversity, writ large, in our activities and Committees. For example, the “Call for Symposia” for the Boston meeting (fall 2018) was the first to have this statement:

“The Division of Chemical Education includes members that vary in ethnic/racial background, gender, sexual orientation, and disability status, as well as professional level and area of expertise. To meet the needs of its membership, the Division encourages and supports a wide range of topics for its programming. Specifically, the Division seeks to recruit diverse symposium organizers and to provide programming that attracts speakers of various backgrounds, appeals to a variety of audience members, and focuses on issues related to diversity and inclusion.”

Many thanks to Andy Marsh and the Program Committee for crafting this statement. I look forward to creative ways that this will broaden participation in our meetings and to the ways that other Division Committees will do likewise.

This past January several of us attended the ACS Leadership Conference in Dallas. I was particularly pleased to learn about the resources that ACS has to assist Divisions in the development of a strategic plan. Critical to any strategic plan is the ability to clearly understand the organization’s mission, vision, and purpose. I plan to put significant effort into facilitating a strategic plan for our Division during the next few years. If you have had experience developing strategic plans, please reach out and share your expertise with us.

I look forward to seeing many of you in the Big Easy; Laissez les bon temps roulez!

Irvin J. Levy
Chair-Elect
Gordon College

From the Immediate Past Chair, MaryKay Orgill [marykay.orgill@unlv.edu]

Standing with Giants

Sir Isaac Newton is often credited with the following quotation: “If I have seen further, it is only by standing on the shoulders of giants.” In many ways, this seems an apt description of the activities and progress of the Division of Chemical Education. Those who have gone before us—our leaders, teachers, and friends—have laid a foundation that we are able to build on year after year. In this way, the Division becomes more professional, more focused, more useful, more compassionate—better—every year. In my past 2+ years as a member of the Chair Succession, I have been able to recognize and appreciate how the efforts of others in the past have established patterns and possibilities from which the Division has benefitted.

I have also noticed, however, that I am not only standing on the shoulders of giants, but that I am standing WITH giants. When I applied for graduate programs in chemical education research, there were only 3 in the country. I felt that the community I was entering was small, and I thought I would have to find my way through my chosen profession on my own. It turns out that I was wrong. Not only was the chemical education community much larger than I originally thought it was, but it has been growing rapidly over the past two decades. Moreover, my interactions with each of the members of the Division, especially over the past few years, have taught me that I am fortunate to be working WITH giants—insightful researchers, gracious colleagues, dedicated workers, and creative teachers—who allow me to learn from them as I continue to grow both professionally and personally.

It has been a privilege to work closely with the members of the Division for the past few years. I appreciate the insights and time you contribute the activities of the Division. I appreciate your examples. I appreciate your willingness to forgive mistakes. I appreciate your optimism and sense of humor. I appreciate the concern you demonstrate for others. Thank you for being the giants that I stand with.

MaryKay Orgill
Immediate Past Chair
University of Las Vegas

Letters from the Executive Committee
Greetings to all. Since we last spoke, we have been busy. I appreciate you putting up with and participating in two separate elections. Given the number of changes to the Division bylaws, we thought it was important to run that as a separate election, rather than include that with the regular election.

Regarding the Fall election, I want to offer my congratulations to the newly elected DivCHED Officers: Irv Levy (Chair-elect), Roxie Allen (Councilor), and Patrick Daubenmire (Alternate Councilor). Thank you also to the other candidates who agreed to run for each position. I also want to thank everyone who provided comments on the ballot. Overall, feedback was positive regarding the logistics and format of the ballot. If you have additional suggestions, please let me know. We are always looking to improve the process.

We thank those who read through and voted on the Division bylaw revisions. Special thanks to MaryKay Orgill, who was invaluable in making sure this process made it to completion. Once we receive final approval from ACS, we will be able to move on to the next big project, which is updating the Division operations manual. We’ll keep you posted on that process.

With one year under my belt, I think I am starting to get a feeling for this job. As always, if there is anything that I (or we as a Division) can do to improve your experience in the Division, please let me know. If you are making the trip to New Orleans, I hope to see you at the DivCHED social reception and/or Division business meeting, both on Sunday evening.

Daniel King, PhD
Secretary/Councilor
Drexel University

From the Division Ledger, David P. Licata [DivCHEDTreasurer@gmail.com]

This will be a year with many changes for the way the Division does business. I hope that the majority of changes will be completely transparent to most members. The Division has engaged a professional management firm, TurboExecs, based in Lancaster, PA to provide business management and accounting services.

The most obvious change will be a new mailing address for Division business. Other changes will be introduced slowly over the rest of this year. For example, TurboExecs will eventually send all billing invoices and receive all payments and donations. Similarly, TurboExecs will receive and process reimbursement requests through the Division’s accounting address, DivChemEd@TurboExecs.com. Specific information will be sent to those who need it in the coming months.

TurboExecs will also begin management tasks for the Board of Publication which oversees the Journal of Chemical Education and the online site Chemical Education Xchange (ChemEdX).

TurboExecs will handle finance and accounting duties for both the Division and the Journal. They will prepare reports for ExComm, Finance Committee, and the Board of Publication. They will also help manage records retention and other fiduciary responsibilities for Division officers and committees.

These changes have been proposed for many years. The dedication of several cycles of the chair succession, several Board of Pub and other committee chairs, and the past and current treasurers have brought the Division to this point. Chemists and chemistry educators will do what they do best, and we now have a management firm that will work in conjunction with Executive Assistant Heather Johnson and Program Planning Partner John Michael Sophos to oversee the non-chemistry but crucial management and financial functions.

Just as it has taken the contributions and participation of many members to get to this point in professionalizing Division operations, the continued support of all our membership is crucial to the continued growth, success, and progress of the Division and its efforts to support educators and chemistry education.

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

I want to begin this message by offering thanks and congratulations to those that worked many hours on updating our division bylaws. Our Chair Succession, with the help of past and current committee members, has worked to modify the legally binding document. I was happy to read the recent announcement that the voting members of CHED overwhelming supported the changes. Sending the results of the vote to the ACS Committee on Constitution & Bylaws for certification will complete this process. Our next project will address the Operations Manual that is posted on the CHED website. Although it is not legally binding, it outlines the practices of CHED and of each committee. Updating this on an annual basis will help advise those taking on new governance roles, allowing for more seamless transitions and continuity.

The 255th ACS meeting, along with many committee meetings, is quickly approaching. An important component of successful committees and the division as a whole is communication. In this age of technology, we have an increasing number of modes of communication at our disposal. I hope that our relatively new Strategic Task Force for Public Relations will help advise our committees on the most effective ways to use social media and other modern media to reach our communication goals, expand our network, and attract new membership.

The larger ACS community is also working toward greater communication with members and potential members using marketing videos highlighting members of each of the 32 technical divisions. Ellen Yezierski, an ACS and CHED member since 2000, current Chair of the Board of Publications, and professor at Miami University, speaks in a video promoting CHED, representing our rich diversity beautifully.

The abstract submission deadline for the 25th BCCE has just passed. The organizing committee and symposium hosts are beginning the work of scheduling for the meeting to be held at the University of Notre Dame July 29th through August 2nd. I look forward to seeing many of you there.

As Member at Large, I often field questions from members. I enjoy these interactions and hope that you will reach out if I can support you.

Deanna Cullen
Member at Large
Whitehall High School Chemistry

View from the Program Chair, Anderson Marsh [marsh@lvc.edu]

As I eagerly (and nervously!) anticipate my first national meeting as program chair, I want to take time to say thank you to Irv Levy, who not only served as the lead CHED Program Chair from 2011-2016, but also stepped into the role briefly during the transition last year. Irv has been a tremendous help with all things related to the Program Committee, particularly with putting together the program for the upcoming spring meeting.

Right around the corner is the 255th ACS National Meeting in New Orleans, LA from March 18-22, 2017. Nicole Snyder and Carmen Valdez Gauthier are your meeting co-chairs, and, along with Irv Levy, they have assembled an exciting program. Our meeting program will be held in the New Orleans Downtown Marriott at the Convention Center. It features 40 symposia, along with the Undergraduate Research Posters, with 7 to 8 concurrent sessions each half-day for the entire meeting, including Thursday morning! For the 25th BCCE, CHED is honored to host three ACS award symposia: the George C. Pimentel Award in Chemistry Education (Pratibha Varma-Nelson); the ACS-CEI Award for Incorporating Sustainability into Chemistry Education (Vicki Grassian, Muhamad Hugerat, Rachel Mamlok-Naaman, Jane Wissinger, Anne Marteel Parrish); and the ACS Award for Achievement in Research for the Teaching and Learning of Chemistry (George Bodner). We will also be host to a state-of-the-art symposium in New Orleans entitled “State of the Art: Two Decades Advancing the 12 Principles of Green Chemistry”. Thanks go to John Warner for bringing these speakers to our division as part of our program. For those of you who might have an idea for a state-of-the-art symposium for the future, please let us know!

We are fortunate to have Sherri Rukes as our organizer for the Chemistry Teachers Day (formally High School) program. We will have the traditional Sunday AM session/luncheon/PM session format. The luncheon is now called the “Chemistry Educators Luncheon” to emphasize that both secondary and post-secondary educators are welcome. For pre-college teachers who want to get extra content especially designed for their use, Polymer Ambassador Sherri Rukes will once again provide a program for teachers on Monday night at the meeting, a popular session which has become a standard element at national meetings. In addition, the James Bryant Conant Award (Brian Kennedy) will be given during the Chemistry Teachers Day.

There are always individuals behind the scenes that provide critical support for our programming at a national meeting. Many thanks to the ACS staff who take care of a number of things that keep our meetings organized and make them worthwhile. Special thanks go to Robin Green, Nicole DiFabio, Jessica Roberts, and Vern Beatty for their contributions. I would
also like to mention **Heather Johnson** for all her work at the Division level. Quality meetings would not happen without the contributions of all of these individuals.

The Call for Papers for the Fall 2018 ACS National Meeting in Boston has already gone out. **Patrick Daubenmire** and **Deborah Bromfield Lee** have put together an engaging set of symposia. We hope you will submit an abstract to join us in Boston. **The deadline for submission is March 26, 2018.**

The CHED Program Committee is here to produce programming at national meetings that is useful, relevant, and serves the needs of Division members. If you have suggestions for improving the program, please let us know what you would like to see. If you'd like to volunteer to help out, we are always looking for symposia organizers for upcoming national meetings, as well as prospective committee members. Please do not hesitate to contact me ([marsh@lvc.edu](mailto:marsh@lvc.edu)) with your ideas. I look forward to seeing you in New Orleans!
March 18-22, 2018
Theme: The Food, Energy, Water Nexus

Meeting Co-Chairs:
Carmen Gauthier Valdez, Florida Southern College, gauthier@flsouthern.edu
Nicole Snyder, Davidson College, nsnyder@snyderglycosciencegroup.org

Chemistry Teachers Day Chair:
Sherri Rukes, Libertyville High School, scrukes@comcast.net

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:
Nathan Richey, Brooke Barnes, Steven LoCicero, Becky Olson, Michael Sims, Yunlu Zhang, University of Florida, Department of Chemistry, “Finding Our Place at the Bottom: A Symposium in Memory of Richard Feynman”

Program Synopsis
The Spring 2018 ACS abstracts can be found at https://plan.core-apps.com/acsnola2018/abstracts.

SUNDAY

Chemistry Teachers Day Program
Location: Blaine Kern C/D, New Orleans Marriott Convention Center
Date & Time: Sunday, Mar 18 8:00 AM
Duration: 4 hours
Organizer: Sherri Rukes
Presider: Kathleen Gosciniak
Nominal Cosponsor: SOCED

Chemistry Education Research: Graduate Student Research Forum
Location: Fleur De Lis, New Orleans Marriott Convention Center
Date & Time: Sunday, Mar 18 8:30 AM
Duration: 3 hours 25 minutes
Organizers: Justin Pratt, Ashton Hjerstedt
Presiders: Justin Pratt, Ashton Hjerstedt

Citizens First!
Location: Tchoupitoulas, New Orleans Marriott Convention Center
Date & Time: Sunday, Mar 18 8:30 AM
Duration: 3 hours 15 minutes
Organizers: Cynthia Maguire, Richard Sheardy
Presiders: Richard Sheardy, Nasrin Kohan
Nominal Cosponsor: CEI

NMR Spectroscopy in the Undergraduate Curriculum
Location: Blaine Kern E, New Orleans Marriott Convention Center
Date & Time: Sunday, Mar 18 8:30 AM
Duration: 2 hours 25 minutes
Organizers: David Soulsby, Anton Wallner
Presiders: David Soulsby, Anton Wallner
Financial Cosponsor: Anasazi Instruments, Bruker BioSpin, JEOL, Magritek, Mestrelab
Research in Chemistry Education

Location: Fulton, New Orleans Marriott Convention Center
Date & Time: Sunday, Mar 18 8:30 AM
Duration: 3 hours 5 minutes
New & Noteworthy
Organizers: Gregory Rushton, Joi Walker
Presiders: Joi Walker, Gregory Rushton, Alena Moon, Regis Komperda

Strategies Promoting Success of Two-year College Students
Location: Blaine Kern B, New Orleans Marriott Convention Center
Date & Time: Sunday, Mar 18 8:30 AM
Duration: 3 hours 30 minutes
Organizers: Laura Anna, Thomas Higgins, Alycia Palmer
Presiders: Laura Anna, Alycia Palmer

Undergraduate Research Papers
Location: Magnolia, New Orleans Marriott Convention Center
Date & Time: Sunday, Mar 18 8:30 AM
Duration: 3 hours
Organic & Medicinal Chemistry
Organizers: Carmen Gauthier, Joshua Ruppel, Nicole Snyder
Presiders: Joshua Ruppel, Nicole Snyder

Using Light, Color & Spectroscopy to Increase Student Engagement in the Laboratory
Location: Blaine Kern A, New Orleans Marriott Convention Center
Date & Time: Sunday, Mar 18 8:30 AM
Duration: 3 hours 40 minutes

Chemistry Education Research: Graduate Student Research Forum
Location: Fleur De Lis, New Orleans Marriott Convention Center
Date & Time: Sunday, Mar 18 1:30 PM
Duration: 1 hour 30 minutes
Organizers: Justin Pratt, Ashton Hjerstedt
Presiders: Justin Pratt, Ashton Hjerstedt
Chemistry Teachers Day Program
Location: Blaine Kern C/D, New Orleans Marriott Convention Center
Date & Time: Sunday, Mar 18 1:30 PM
Duration: 3 hours 40 minutes
Organizer: Sherri Rukes
Presider: Kathleen Gosciniak
Nominal Cosponsor: SOCED

Citizens First!
Location: Tchoupitoulas, New Orleans Marriott Convention Center
Date & Time: Sunday, Mar 18 1:30 PM
Duration: 3 hours 10 minutes
Organizers: Cynthia Maguire, Richard Sheardy
Presiders: Cynthia Maguire, Leslie Robinson
Nominal Cosponsor: CEI

Green Chemistry Student Chapters: Stories of Success
Location: Blaine Kern B, New Orleans Marriott Convention Center
Date & Time: Sunday, Mar 18 1:30 PM
Duration: 3 hours
Organizers: Mollie Enright, Jennifer MacKellar
Presiders: Mollie Enright, Jennifer MacKellar

NMR Spectroscopy in the Undergraduate Curriculum
Location: Blaine Kern E, New Orleans Marriott Convention Center
Date & Time: Sunday, Mar 18 1:30 PM
Duration: 2 hours 5 minutes
Organizers: David Soulsby, Anton Wallner
Presiders: David Soulsby, Anton Wallner
Financial Cosponsor: Anasazi Instruments, Bruker BioSpin, JEOL, Magritek, Mestrelab

Perspectives on Climate Change Literacy & Education: Local to International
Location: Fulton, New Orleans Marriott Convention Center
Date & Time: Sunday, Mar 18 1:30 PM
Duration: 3 hours 10 minutes
Organizers: Gregory Foy, Keith Peterman
Presider: Gregory Foy
Nominal Cosponsor: CEI

Process-Oriented Guided Inquiry Learning (POGIL)
Location: Blaine Kern A, New Orleans Marriott Convention Center
Date & Time: Sunday, Mar 18 1:30 PM
Duration: 3 hours 50 minutes
Organizer: Richard Moog
Presider: Richard Moog

Undergraduate Research Papers
Location: Magnolia, New Orleans Marriott Convention Center
Date & Time: Sunday, Mar 18 1:30 PM
Duration: 3 hours
Analytical & Physical Chemistry
Organizers: Carmen Gauthier, Joshua Ruppel, Nicole Snyder
Presider: Joshua Ruppel

General Posters
Location: Hall D, Ernest N. Morial Convention Center
Date & Time: Sunday, Mar 18 7:00 PM
Duration: 2 hours
Organizer: Irvin Levy

MONDAY
ACS Award for Achievement in Research for the Teaching & Learning of Chemistry
Location: Blaine Kern C, New Orleans Marriott Convention Center
Date & Time: Monday, Mar 19 8:30 AM
Duration: 3 hours 15 minutes
Organizer: Marcy Towns
Presider: Marcy Towns

ACS-CEI Award for Incorporating Sustainability into Chemical Education
Location: Blaine Kern A, New Orleans Marriott Convention Center
Date & Time: Monday, Mar 19 8:30 AM
Duration: 3 hours 30 minutes
Organizer: Sherine Obare
Presider: Sherine Obare

Active Learning in the General Chemistry Curriculum
Location: Tchoupitoulas, New Orleans Marriott Convention Center
Date & Time: Monday, Mar 19 8:30 AM
Duration: 3 hours 15 minutes
Organizer: Jill Robinson
Presider: Jill Robinson

Curricular Innovations in Undergraduate Chemical Education Impacted by NSF
Location: Blaine Kern B, New Orleans Marriott Convention Center
Date & Time: Monday, Mar 19 8:30 AM
Duration: 3 hours 55 minutes
Organizers: Robert Boggess, Cindy Burkhardt
Presider: Cindy Burkhardt

International Perspectives of Chemistry Education Teaching & Practice
Location: Fleur De Lis, New Orleans Marriott Convention Center
Date & Time: Monday, Mar 19 8:30 AM
Duration: 2 hours 15 minutes
Organizers: Charles Cox, Alexey Leontyev, Wendy Schatzberg
Presiders: Charles Cox, Wendy Schatzberg

Research in Chemistry Education
Location: Fulton, New Orleans Marriott Convention Center
Date & Time: Monday, Mar 19 8:30 AM
Duration: 3 hours 5 minutes
Organizers: Mary Beth Anzovino, Justin Carmel
Presiders: Justin Carmel, Mary Beth Anzovino

State-of-the-Art: Two Decades Advancing the 12 Principles of Green Chemistry
Location: Blaine Kern E, New Orleans Marriott Convention Center
Date & Time: Monday, Mar 19 8:30 AM
Duration: 3 hours 15 minutes
Organizer: John Warner
Presider: Irvin Levy

Undergraduate Research Papers
Location: Magnolia, New Orleans Marriott Convention Center
Date & Time: Monday, Mar 19 8:30 AM
Duration: 3 hours
Biochemistry
Organizers: Carmen Gauthier, Joshua Ruppel, Nicole Snyder
Presider: Nicole Snyder
Undergraduate Research Papers
Location: Halls D/E, Ernest N. Morial Convention Center
Date & Time: Monday, Mar 19 12:00 PM
Duration: 2 hours
Green Chemistry & Sustainability
Organizers: Nicole Di Fabio, Jessica Roberts
Nominal Cosponsors: CEI, SOCED
Financial Cosponsor: GCI

Undergraduate Research Papers
Location: Halls D/E, Ernest N. Morial Convention Center
Date & Time: Monday, Mar 19 12:00 PM
Duration: 2 hours
Organic Chemistry
Organizers: Nicole Di Fabio, Jessica Roberts
Nominal Cosponsor: SOCED

Undergraduate Research Papers
Location: Halls D/E, Ernest N. Morial Convention Center
Date & Time: Monday, Mar 19 12:00 PM
Duration: 2 hours
Physical Chemistry
Organizers: Nicole Di Fabio, Jessica Roberts
Nominal Cosponsor: SOCED

Undergraduate Research Papers
Location: Halls D/E, Ernest N. Morial Convention Center
Date & Time: Monday, Mar 19 12:00 PM
Duration: 2 hours
Medicinal Chemistry
Organizers: Nicole Di Fabio, Jessica Roberts
Nominal Cosponsors: MEDI, SOCED

Undergraduate Research Papers
Location: Halls D/E, Ernest N. Morial Convention Center
Date & Time: Monday, Mar 19 12:00 PM
Duration: 2 hours
Environmental Chemistry
Organizers: Nicole Di Fabio, Jessica Roberts
Nominal Cosponsors: ENVR, SOCED

Undergraduate Research Papers
Location: Halls D/E, Ernest N. Morial Convention Center
Date & Time: Monday, Mar 19 12:00 PM
Duration: 2 hours
Nanochemistry
Organizers: Nicole Di Fabio, Jessica Roberts
Nominal Cosponsor: SOCED

Undergraduate Research Papers
Location: Halls D/E, Ernest N. Morial Convention Center
Date & Time: Monday, Mar 19 12:00 PM
Duration: 2 hours
Chemical Education
Organizers: Nicole Di Fabio, Jessica Roberts
Nominal Cosponsor: SOCED

 ACS Award for Achievement in Research for the Teaching & Learning of Chemistry
Location: Blaine Kern C, New Orleans Marriott Convention Center
Date & Time: Monday, Mar 19 1:30 PM
Duration: 3 hours 40 minutes
Organizer: Marcy Towns
Presider: Marcy Towns
Active Learning in the General Chemistry Curriculum  
Location: Tchoupitoulas, New Orleans Marriott Convention Center  
Date & Time: Monday, Mar 19 1:30 PM  
Duration: 3 hours 15 minutes  
Organizer: Jill Robinson  
Presider: Ann Murkowski  

Curricular Innovations in Undergraduate Chemical Education  
Impacted by NSF  
Location: Blaine Kern B, New Orleans Marriott Convention Center  
Date & Time: Monday, Mar 19 1:30 PM  
Duration: 3 hours 25 minutes  
Organizers: Robert Boggess, Cindy Burkhardt  
Presider: Robert Boggess  

General Papers  
Location: Fulton, New Orleans Marriott Convention Center  
Date & Time: Monday, Mar 19 1:30 PM  
Duration: 3 hours 40 minutes  
Organizer: Steven Fleming  
Presider: Rebecca Kissling  

State-of-the-Art: Two Decades Advancing the 12 Principles of  
Green Chemistry  
Location: Blaine Kern E, New Orleans Marriott Convention Center  
Date & Time: Monday, Mar 19 1:30 PM  
Duration: 2 hours 20 minutes  
Organizer: John Warner  
Presider: John Warner  
Nominal Cosponsor: PRES  

Undergraduate Research Papers  
Location: Magnolia, New Orleans Marriott Convention Center  
Date & Time: Monday, Mar 19 1:30 PM  
Duration: 3 hours  
Inorganic, Bioinorganic & Materials Chemistry  
Organizers: Carmen Gauthier, Joshua Ruppel, Nicole Snyder  
Presider: Carmen Gauthier  

US-Cuba Collaborations in Chemical Education  
Location: Blaine Kern A, New Orleans Marriott Convention Center  
Date & Time: Monday, Mar 19 1:30 PM  
Duration: 3 hours 30 minutes  
Organizers: Charles Atwood, Resa Kelly  
Presiders: Resa Kelly, Charles Atwood  

STRETCH Your Students’ Minds by Using Materials to Engineer Ideas about Water, Food & Energy in the Chemistry Classroom  
Location: Blaine Kern F, New Orleans Marriott Convention Center  
Date & Time: Monday, Mar 19 5:00 PM  
Duration: 3 hours 40 minutes  
Organizer: Sherri Rukes  
Presider: Sherri Rukes  
Financial Cosponsor: IPEC  

Sci-Mix  
Location: Halls D/E, Ernest N. Morial Convention Center  
Date & Time: Monday, Mar 19 8:00 PM  
Duration: 2 hours  
Organizers: Carmen Gauthier, Nicole Snyder, Anderson Marsh  

Successful Student Chapters  
Location: Halls D/E, Ernest N. Morial Convention Center  
Date & Time: Monday, Mar 19 8:00 PM  
Duration: 2 hours  
Organizers: Nicole Di Fabio, Jessica Roberts  

TUESDAY  
Active Learning in the General Chemistry Curriculum  
Location: Tchoupitoulas, New Orleans Marriott Convention Center  
Date & Time: Tuesday, Mar 20 8:30 AM  
Duration: 2 hours 55 minutes  
Organizer: Jill Robinson  
Presider: Renee Henry  

Advancing Undergraduate Research in Chemistry: Best Practices & New Innovations  
Location: Magnolia, New Orleans Marriott Convention Center  
Date & Time: Tuesday, Mar 20 8:30 AM  
Duration: 3 hours  
Early Course Integration  
Organizers: Bridget Gourley, Rebecca Jones  
Presiders: Bridget Gourley, Anna Cavinato  

Chemistry Learning & Math Learning: Which is the Cart & Which is the Horse?  
Location: Blaine Kern E, New Orleans Marriott Convention Center  
Date & Time: Tuesday, Mar 20 8:30 AM  
Duration: 3 hours 55 minutes  
Organizers: Kinsey Bain, Marcy Towns  
Presider: Kinsey Bain  

George C. Pimentel Award in Chemical Education  
Location: Blaine Kern A, New Orleans Marriott Convention Center  
Date & Time: Tuesday, Mar 20 8:30 AM  
Duration: 3 hours 30 minutes  
Organizer: Diane Bunce  
Presider: Diane Bunce  
Nominal Cosponsor: WCC  

Green Chemistry Theory and Practice: Food, Energy & Water Sustainability  
Location: Blaine Kern B, New Orleans Marriott Convention Center  
Date & Time: Tuesday, Mar 20 8:30 AM  
Duration: 3 hours 10 minutes  
Organizers: Edward Brush, Jane Wissinger  
Presider: Jane Wissinger  

Research in Chemistry Education  
Location: Fulton, New Orleans Marriott Convention Center  
Date & Time: Tuesday, Mar 20 8:30 AM  
Duration: 2 hours 45 minutes  
Organizers: Mary Beth Anzovino, Justin Carmel  
Presider: Jordan Harshman  

GSSPC: Finding Our Place at the Bottom  
Location: Blaine Kern C, New Orleans Marriott Convention Center  
Date & Time: Tuesday, Mar 20 8:45 AM  
Duration: 3 hours 15 minutes  
Symposium in honor of Richard Feynman  
Organizers: Nathaniel Richey, Brooke Barnes, Steven Locicero,  
Becky Olson, Yunlu Zhang  
Presiders: Micheal Sims, Nathaniel Richey, Brooke Barnes, Steven  
Locicero, Becky Olson, Micheal Sims, Yunlu Zhang  
Cooperative Cosponsors: ANYL, COLL, ENVR, PMSE, PRES  
Nominal Cosponsor: INOR  

Active Learning in the General Chemistry Curriculum  
Location: Tchoupitoulas, New Orleans Marriott Convention Center  
Date & Time: Tuesday, Mar 20 1:30 PM  
Duration: 2 hours 55 minutes  
Organizer: Jill Robinson  
Presider: Jill Robinson
Advancing Undergraduate Research in Chemistry: Best Practices & New Innovations  
Location: Magnolia, New Orleans Marriott Convention Center  
Date & Time: Tuesday, Mar 20 1:30 PM  
Duration: 2 hours 50 minutes  
Advanced Course Integration  
Organizers: Bridget Gourley, Rebecca Jones  
Presiders: Sunghee Lee, Rebecca Jones

General Papers  
Location: Fulton, New Orleans Marriott Convention Center  
Date & Time: Tuesday, Mar 20 1:30 PM  
Duration: 3 hours 55 minutes  
Organizer: Steven Fleming  
Presider: Rebecca Broyer

George C. Pimentel Award in Chemical Education  
Location: Blaine Kern A, New Orleans Marriott Convention Center  
Date & Time: Tuesday, Mar 20 1:30 PM  
Duration: 3 hours 20 minutes  
Organizer: Diane Bunce  
Presider: Diane Bunce  
Nominal Cosponsor: WCC

Green Chemistry Theory and Practice: Food, Energy & Water Sustainability  
Location: Blaine Kern B, New Orleans Marriott Convention Center  
Date & Time: Tuesday, Mar 20 1:30 PM  
Duration: 3 hours 15 minutes  
Organizers: Edward Brush, Jane Wissinger  
Presider: Edward Brush  
Nominal Cosponsor: CEI  
Financial Cosponsor: ACS Green Chemistry Institute; I&EC Green Chemistry Subdivision

GSSPC: Finding Our Place at the Bottom  
Location: Blaine Kern C, New Orleans Marriott Convention Center  
Date & Time: Tuesday, Mar 20 1:30 PM  
Duration: 3 hours 25 minutes  
Symposium in honor of Richard Feynman  
Organizers: Nathaniel Richey, Brooke Barnes, Steven Locicero, Becky Olson, Micheal Sims, Yunlu Zhang  
Presiders: Nathaniel Richey, Brooke Barnes, Steven Locicero, Becky Olson, Yunlu Zhang, Micheal Sims  
Cooperative Cosponsors: ANYL, COLL, PHYS, PMSE, PRES  
Nominal Cosponsor: INOR

Statistics & Data Management in the Chemistry Curriculum  
Location: Blaine Kern E, New Orleans Marriott Convention Center  
Date & Time: Tuesday, Mar 20 1:30 PM  
Duration: 2 hours 5 minutes  
Organizers: Pamela Doolittle, Dan Sykes  
Presiders: Pamela Doolittle, Dan Sykes

**WEDNESDAY**  
Advancing Undergraduate Research in Chemistry: Best Practices & New Innovations  
Location: Magnolia, New Orleans Marriott Convention Center  
Date & Time: Wednesday, Mar 21 8:30 AM  
Duration: 2 hours 40 minutes  
Organizer: Craig Teague  
Presider: Alexander Grushow

Engaging Students in Physical Chemistry  
Location: Blaine Kern E, New Orleans Marriott Convention Center  
Date & Time: Wednesday, Mar 21 8:30 AM  
Duration: 2 hours 45 minutes  
Organizers: Craig Teague  
Presiders: Alexander Grushow

Fundamentals of Chemistry Outreach Education: From Program Design to Assessment  
Location: Blaine Kern A, New Orleans Marriott Convention Center  
Date & Time: Wednesday, Mar 21 8:30 AM  
Duration: 4 hours  
Organizers: Edward Brush, Emily Garcia Sega, Saritha Nellutla  
Presider: Emily Garcia Sega  
Nominal Cosponsors: CCA, LSAC, SOCED, YCC

Persistance in STEM: What Can we do to Support Students?  
Location: Blaine Kern C, New Orleans Marriott Convention Center  
Date & Time: Wednesday, Mar 21 8:30 AM  
Duration: 4 hours  
Organizers: Barbara Gonzalez, Sachel Villafane-Garcia  
Presider: Sachel Villafane-Garcia

Research in Chemistry Education  
Location: Fulton, New Orleans Marriott Convention Center  
Date & Time: Wednesday, Mar 21 8:30 AM  
Duration: 2 hours 45 minutes  
Organizers: Mary Beth Anzovino, Justin Carmel  
Presiders: Mary Beth Anzovino, Justin Carmel

Research on Learning in the Laboratory  
Location: Tchoupitoulas, New Orleans Marriott Convention Center  
Date & Time: Wednesday, Mar 21 8:30 AM  
Duration: 3 hours 5 minutes  
Organizers: Matthew Chrzanowski, Santiago Sandi-Urena  
Presider: Matthew Chrzanowski

Science Communication: Engaging Science Students, Scientists & Nonscientists through Modern Communication Modes  
Location: Blaine Kern B, New Orleans Marriott Convention Center  
Date & Time: Wednesday, Mar 21 8:30 AM  
Duration: 4 hours  
Organizers: John Meyers, Rich Singiser  
Presiders: John Meyers, Rich Singiser

Advancing Undergraduate Research in Chemistry: Best Practices & New Innovations  
Location: Magnolia, New Orleans Marriott Convention Center  
Date & Time: Wednesday, Mar 21 1:30 PM  
Duration: 2 hours 20 minutes  
Organizer: Craig Teague  
Presider: Alexander Grushow
Eye Tracking Research in Chemistry Education  
Location: Tchoupitoulas, New Orleans Marriott Convention Center  
Date & Time: Wednesday, Mar 21 1:30 PM  
Duration: 2 hours 35 minutes  
Organizers: Sarah Hansen, Jessica Vandenplas  
Presider: Jessica Vandenplas

Online & Upward: Improving Online Education to Increase Chemistry's Global Reach  
Location: Magnolia, New Orleans Marriott Convention Center  
Date & Time: Thursday, Mar 22 8:00 AM  
Duration: 2 hours  
Organizer: Mitzy Erdmann  
Presider: Mitzy Erdmann

Fundamentals of Chemistry Outreach Education: From Program Design to Assessment  
Location: Blaine Kern A, New Orleans Marriott Convention Center  
Date & Time: Wednesday, Mar 21 1:30 PM  
Duration: 3 hours 35 minutes  
Organizers: Edward Brush, Emily Garcia Sega, Saritha Nellutla  
Presider: Saritha Nellutla  
Nominal Cosponsors: CCA, LSAC, SOCED, YCC

Persistence in STEM: What Can we do to Support Students?  
Location: Blaine Kern C, New Orleans Marriott Convention Center  
Date & Time: Thursday, Mar 22 8:00 AM  
Duration: 3 hours 40 minutes  
Organizers: Barbara Gonzalez, Sachel Villafane-Garcia  
Presider: Barbara Gonzalez  
Nominal Cosponsors: CCA, LSAC, SOCED, YCC

General Papers  
Location: Fulton, New Orleans Marriott Convention Center  
Date & Time: Wednesday, Mar 21 1:30 PM  
Duration: 3 hours 55 minutes  
Organizer: Steven Fleming  
Presider: Jeffrey Statler

Research in Chemistry Education  
Location: Fulton, New Orleans Marriott Convention Center  
Date & Time: Thursday, Mar 22 8:00 AM  
Duration: 3 hours 35 minutes  
Organizers: Edward Brush, Emily Garcia Sega, Saritha Nellutla  
Presiders: Shalini Srinivasan, Derek Behmke

There's an App for That!  
Location: Blaine Kern B, New Orleans Marriott Convention Center  
Date & Time: Wednesday, Mar 21 1:30 PM  
Duration: 3 hours 5 minutes  
Organizers: Elvin Aleman, Koni Stone  
Presiders: Elvin Aleman, Koni Stone

Persistence in STEM: What Can we do to Support Students?  
Location: Blaine Kern C, New Orleans Marriott Convention Center  
Date & Time: Thursday, Mar 22 8:00 AM  
Duration: 3 hours 40 minutes  
Organizers: Barbara Gonzalez, Sachel Villafane-Garcia  
Presider: Barbara Gonzalez

Using Videos in Teaching  
Location: Blaine Kern B, New Orleans Marriott Convention Center  
Date & Time: Thursday, Mar 22 8:00 AM  
Duration: 4 hours  
Organizer: Jessica Par  
Presider: Jessica Parr

THURSDAY

Chemistry Safety in the Classroom: Best Practices & Learning Experience  
Location: Tchoupitoulas, New Orleans Marriott Convention Center  
Date & Time: Thursday, Mar 22 8:00 AM  
Duration: 2 hours 45 minutes  
Organizer: Susan Wiediger  
Presider: Susan Wiediger

Fundamentals of Chemistry Outreach Education: From Program Design to Assessment  
Location: Blaine Kern A, New Orleans Marriott Convention Center  
Date & Time: Thursday, Mar 22 8:00 AM  
Duration: 3 hours 35 minutes  
Organizers: Edward Brush, Emily Garcia Sega, Saritha Nellutla  
Presider: Edward Brush  
Nominal Cosponsors: CCA, LSAC, SOCED, YCC

General Papers  
Location: Blaine Kern E, New Orleans Marriott Convention Center  
Date & Time: Thursday, Mar 22 8:00 AM  
Duration: 3 hours  
Organizer: Steven Fleming  
Presider: Ramee Indralingam
# Schedule of CHED Committee/Board Meetings and Social Events

<table>
<thead>
<tr>
<th>Date</th>
<th>Meeting Details</th>
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</table>
| **Friday, March 16** | Finance Committee (open)  
New Orleans Marriott CC, Fleur De Lis  
3:00PM – 6:30PM  |
| **Saturday March 17** | ACS Exams Institute, Board of Trustees (open)  
New Orleans Marriott CC, Blaine Kern A  
7:30AM – 12:00PM  
JCE, Board of Publications (open)  
New Orleans Marriott CC, Blaine Kern B  
7:30AM – 12:00PM  
Program Committee (open)  
New Orleans Marriott CC, River Bend ½  
10:30AM – 12:00PM  
Executive Committee  
New Orleans Marriott CC, River Bend 1/2  
1:00PM – 1:30PM (closed)  
1:30PM – 4:00PM (open)  
4:00PM – 5:30PM (closed)  |
| **Sunday, March 18** | International Activities Committee (open)  
Hilton Garden Inn CC, Carmellia Room  
8:00AM – 10:00AM  
Biennial Conference Committee (open)  
Embassy Suites New Orleans, Prytania Room 9:00AM – 11:00AM  
Chemical Education Research Committee (open)  
Hilton Garden Inn CC, Carmellia Room  
12:00PM – 1:30PM  
Regional Meetings (open)  
Hilton Garden Inn CC, St. Charles Room  
12:00PM – 2:00PM  
Long Range Planning Committee (open)  
Hilton Garden Inn CC, Carmellia Room  
2:30PM – 4:30PM  
Safety Committee (open)  
Hilton Garden Inn CC, St. Charles Room  
4:00PM – 5:30PM  
Business Meeting (open)  
Hilton Garden Inn CC, Azalea Room  
4:30PM – 5:00PM  
DivCHED Social Reception (open)  
Ernest N. Morial CC, Great Hall D  
5:30PM – 7:00PM  |
| **Monday, March 19** | Young Chemistry Education Scholars Committee (open)  
Hilton Garden Inn CC, Gardenia Room  
12:00PM – 2:00PM  
New Member Committee (open)  
Hilton Garden Inn CC, St. Charles Room  
12:30PM – 2:30PM  
Two-Year College Chemistry Consortium Meeting (open)  
Hilton Garden Inn CC, Carmellia Room  
3:00PM – 5:00PM  |
AGENDA – Executive Committee (Open)
Division of Chemical Education
Saturday, March 17, 2018
New Orleans Downtown Marriott Convention Center, River Bend 1/2
New Orleans, LA

Notes:
1. The agenda packet is available on the Division web site: 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><strong>Call to order</strong></td>
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<tr>
<td>X</td>
<td></td>
<td>Approve meeting agenda and consent agenda reports</td>
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<tr>
<td>X</td>
<td></td>
<td>Approval of the Fall 2017 ExComm Meeting Minutes, Open Session</td>
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<tr>
<td><strong>Introductions</strong></td>
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<tr>
<td>Chair’s Announcements – C. Frech</td>
<td></td>
<td>• Welcome to new members of ExComm • Introduction of TurboExecs representatives • Councilors serving as parliamentarians • Business Meeting of the Division and Social on Sunday</td>
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<tr>
<td>Past Chair’s Announcements – M. Orgill</td>
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<td>• Bylaws process update</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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<tr>
<td><strong>Discussion</strong></td>
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<tr>
<td>Finance Committee Updates – C. Middlecamp</td>
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<td>• New budgeting request process</td>
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<td>Biennial Conference Committee update – D. Sykes</td>
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<td>Operations Manual Update Process – D. Cullen</td>
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<td>3:00</td>
<td>Break</td>
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<td>3:15</td>
<td>Division Councilors’ Report – I. Black</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>Board of Trustees of the ACS Exams Institute Oral Report – A. Grushow</td>
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<td>3:45</td>
<td>Open Discussion/Input to the Executive Committee</td>
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<td>AACT Representative - Amiee Modic</td>
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<td>ACS Education Division Highlights – J. Wesemann</td>
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<td>x</td>
<td>Committee Chair Voices</td>
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<td>CHED Liaisons</td>
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<tr>
<td>4:00</td>
<td>Adjourn Open Session</td>
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</table>
• Reduced price for pre-college (high & middle school) teachers! Cost for Middle/High School Teachers: $120

• All day Sunday & Monday evening programming for teachers

• Participants in the Sunday teacher program will receive a polymer kit to conduct activities.

• Monday attendees will participate in make-and-take activities. Demo aids and other materials will be distributed during the first session, plus other supplies will be given for the other presentations.

• 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

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

Follow #ACSTeacherDay on Twitter
HOURS OF OPERATION

SUNDAY, March 18
7:00 AM - 10:00 AM ............ 15 minute service
10:00 AM - 4:00 PM ............ 30 minute service
4:00 PM - 7:00 PM ............ 15 minute service
7:00 PM - 11:00 PM ............ 30 minute service

MONDAY, March 19
7:00 AM - 10:00 AM ............ 15 minute service
10:00 AM - 4:00 PM ............ 30 minute service
4:00 PM - 11:00 PM ............ 15 minute service

TUESDAY, March 20
7:00 AM - 10:00 AM ............ 15 minute service
10:00 AM - 4:00 PM ............ 30 minute service
4:00 PM - 11:00 PM ............ 15 minute service

WEDNESDAY, March 21
6:30 AM - 11:00 PM ............ 30 minute service

THURSDAY, March 22
7:00 AM - 6:00 PM ............ 60 minute service

SHUTTLE SERVICE SCHEDULE

255th ACS National Meeting & Exposition
March 18-22, 2018 | New Orleans | #ACSNOLA

route 1
route 2
route 3
walk to convention center
boarding location

KEY
1. Astor Crowne Plaza New Orleans French Quarter
2. Courtyard New Orleans Downtown Near the French Quarter
3. Courtyard New Orleans Downtown/Convention Center
4. Courtyard New Orleans Downtown/Iberville
5. Embassy Suites New Orleans
6. Hampton Inn & Suites New Orleans-Convention Center
7. Hilton Garden Inn New Orleans Convention Center
8. Hilton New Orleans Riverside
9. Hotel Monteleone New Orleans
10. Hyatt Place New Orleans Convention Center
11. InterContinental New Orleans
12. JW Marriott New Orleans
13. Loews New Orleans Hotel
14. Le Meridien New Orleans
15. Le Meridien New Orleans
16. New Orleans Downtown Marriott at the Convention Center
17. New Orleans Marriott
18. Omni Riverfront Hotel
19. Omni Royal Crescent Hotel
20. Renaissance New Orleans Arts Hotel
21. Residence Inn New Orleans Downtown
22. Sheraton New Orleans
23. SpringHill Suites New Orleans Downtown/Convention Center
24. The Westin New Orleans Canal Place
25. W New Orleans - French Quarter
26. Wyndham New Orleans - French Quarter

ROUTE
1. Main Entrance - Canal St. & Bourbon St.
2. Walk to Sheraton New Orleans-Canal & Camp St
3. Walk to Le Meridien - Poydras St. & Tchoupitoulas St.
4. Walk to Sheraton New Orleans-Canal & Camp St
5. Walk to Le Meridien - Poydras St. & Tchoupitoulas St.
6. Walk to Sheraton New Orleans-Canal & Camp St
7. Walk to Le Meridien - Poydras St. & Tchoupitoulas St.
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14. Walk to Le Meridien - Poydras St. & Tchoupitoulas St.
15. Walk to Le Meridien - Poydras St. & Tchoupitoulas St.
16. Walk to Ernest N. Morial Convention Center
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SHUTTLE BOARDING LOCATION
1. Main Entrance - Canal St. & Bourbon St.
2. Walk to Sheraton New Orleans-Canal & Camp St
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Scan here to download a copy of this schedule onto your smart phone or device.

For all shuttle and wheelchair assistance inquiries, please call:
1-866-439-8564

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**Upcoming Meeting Information**

**256th ACS National Meeting, 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

**Symposia**

- **Alternate Assessment Methods (Oral)**  
  Organizer: Marina Koether

- **Approaches in Using Food and Cooking to Engage Diverse Audiences in Science (Oral)**  
  Oral, Contributed  
  Organizers: Kathryn Hollar, Pia Sorensen

- **Celebrating 20 Years of an Exchange Program for German & American Chemistry Students (Invited) (Oral)**  
  Oral, Invited  
  Organizers: Thomas Gilbert, Caitlyn Mills, Jackie O’Neil  
  Cosponsor: YCC

- **Chemistry Teachers Program (Invited) (Oral)**  
  Oral, Invited  
  Organizer: Sherri Rukes

- **Citizens First! Using Real-World Contexts for Engaging Students in Learning Chemistry (Oral)**  
  Oral, Contributed  
  Organizers: Ginevra Clark, Patrick Daubenmire  
  Cosponsor: CEI

- **CUR Transformations Project: Introductory Chemistry (Oral)**  
  Oral, Contributed  
  Organizers: Saritha Nellutla, Sarah Soltau

- **Facilitating Student Success in General Chemistry I Laboratory (Oral)**  
  Oral, Contributed  
  Organizer: Gloria Brown

- **From Nano to Macro: How to Let Students Discover the Applications of Materials (Invited) (Oral)**  
  Oral, Invited  
  Organizer: Sherri Rukes

- **General Papers (Oral)**  
  Oral, Contributed  
  Organizer: Steven Fleming

- **General Posters (Posters)**  
  Poster, Contributed  
  Organizer: Anderson Marsh

- **Green Chemistry Theory & Practice: Nanoscience, Nanotechnology & Beyond (Oral)**  
  Oral, Contributed  
  Organizers: Edward Brush, Jane Wissinger  
  Cosponsor: CEI

- **Growing with Project SEED: 50 Years & Over 10,000 Underrepresented High School Chemistry Researchers (Invited) (Oral)**  
  Oral, Invited  
  Organizers: Joshua Pak, Don Warner

- **GSSPC: Frontiers in Computational Chemistry: Bridging the Gap Between Theory & Experiment (Invited) (Oral)**  
  Oral, Invited  
  Organizer: Sean Fischer  
  Cosponsor: COMP

- **Informal STEM Education: Innovation & Collaboration (Oral)**  
  Oral, Contributed  
  Organizers: Doris Lewis, David Sittenfeld

- **Process-Oriented Guided Inquiry Learning (POGIL) (Oral)**  
  Oral, Contributed  
  Organizer: Richard Moog

- **Research in Chemistry Education (Oral)**  
  Oral, Contributed  
  Organizers: Hannah Sevian, Joi Walker

- **Science Diplomacy & Chemistry Education (Oral)**  
  Oral, Contributed  
  Organizers: Morton Hoffman, Zafra Lerman  
  Cosponsor: IAC

- **State-of-the-Art: From Making Nanomaterials to Understanding Their Global Impact (Invited) (Oral)**  
  Oral, Invited  
  Organizer: Anderson Marsh

- **Successful Student Chapters (Poster)**  
  Poster, Contributed  
  Organizers: Nicole Di Fabio, Jessica Roberts  
  Cosponsor: SOCED

- **Undergraduate Research Papers (Oral)**  
  Oral, Contributed  
  Organizers: Nicole Di Fabio, Jessica Roberts  
  Cosponsor: SOCED

Abstract deadline for the Fall 2018 ACS Meeting is Monday, March 26.  
[https://callforpapers.acs.org/boston2018](https://callforpapers.acs.org/boston2018)
Meetings

Undergraduate Research Posters: Agricultural & Food Chemistry (Poster)
Poster, Contributed
Organizers: Nicole Di Fabio, Jessica Roberts
Cosponsor: AGFD, SOCED

Undergraduate Research Posters: Analytical Chemistry (Poster)
Poster, Contributed
Organizers: Nicole Di Fabio, Jessica Roberts
Cosponsor: ANYL, SOCED

Undergraduate Research Posters: Biochemistry (Poster)
Poster, Contributed
Organizers: Nicole Di Fabio, Jessica Roberts
Cosponsor: BIOL, SOCED

Undergraduate Research Posters: Biotechnology (Poster)
Poster, Contributed
Organizers: Nicole Di Fabio, Jessica Roberts
Cosponsor: BIOT, SOCED

Undergraduate Research Posters: Chemical Education (Poster)
Poster, Contributed
Organizers: Nicole Di Fabio, Jessica Roberts
Cosponsor: SOCED

Undergraduate Research Posters: Colloid and Surface Chemistry (Poster)
Poster, Contributed
Organizers: Nicole Di Fabio, Jessica Roberts
Cosponsor: COLL, SOCED

Undergraduate Research Posters: Computational Chemistry (Poster)
Poster, Contributed
Organizers: Nicole Di Fabio, Jessica Roberts
Cosponsor: COMP, SOCED

Undergraduate Research Posters: Environmental Chemistry (Poster)
Poster, Contributed
Organizers: Nicole Di Fabio, Jessica Roberts
Cosponsor: ENVR, SOCED

Undergraduate Research Posters: Geochemistry (Poster)
Poster, Contributed
Organizers: Nicole Di Fabio, Jessica Roberts
Cosponsor: GEOC, SOCED

Undergraduate Research Posters: Green Chemistry & Sustainability (Poster)
Poster, Contributed
Organizers: Nicole Di Fabio, Jessica Roberts
Cosponsor: CEI, SOCED

Undergraduate Research Posters: Inorganic Chemistry (Poster)
Poster, Contributed
Organizers: Nicole Di Fabio, Jessica Roberts
Cosponsor: INOR, SOCED

Undergraduate Research Posters: Medicinal Chemistry (Poster)
Poster, Contributed
Organizers: Nicole Di Fabio, Jessica Roberts
Cosponsor: MEDI, SOCED

Undergraduate Research Posters: Nanochemistry (Poster)
Poster, Contributed
Organizers: Nicole Di Fabio, Jessica Roberts
Cosponsor: SOCED

Undergraduate Research Posters: Organic Chemistry (Poster)
Poster, Contributed
Organizers: Nicole Di Fabio, Jessica Roberts
Cosponsor: SOCED

Undergraduate Research Posters: Physical Chemistry (Poster)
Poster, Contributed
Organizers: Nicole Di Fabio, Jessica Roberts
Cosponsor: SOCED

Undergraduate Research Posters: Polymer Chemistry (Poster)
Poster, Contributed
Organizers: Nicole Di Fabio, Jessica Roberts
Cosponsor: POLY, SOCED, PMSE

Use of Computer Simulation to Teach Chemical Kinetics & Enzyme Kinetics in Undergraduate Research & Education (Oral)
Oral, Contributed
Organizer: Denyce Wicht
Cosponsor: BIOL, COMP

What are Undergraduates Learning about Nanoscience & Nanotechnology? (Poster)
Oral, Contributed
Organizers: Robin Tanke, Luanne Tilstra, Guo Zhang

2YC Conferences

Spring Conference 2018
March 16-17, 2018
219th Conference
Delgado Community College
New Orleans, LA
Conference Website
Registration
Program Chair: Diondra DeMolle: ddemol@dcc.edu

Fall Conference 2018
October 2018 (dates TBD)
University of New Mexico-Valencia
Los Lunas, NM
Program Chair: Tracy Terry: tjterry@unm.edu
25th Biennial Conference on Chemical Education

July 29-August 2, 2018 | University of Notre Dame
Theme: Chemical Education is Golden
General Chair: Steve Wietstock, Notre Dame
Program Co-Chairs: Cate Reck, Indiana University; Jim Parise, Notre Dame

Dates

Early Registration (best fees) is from 16 February 2018 through 11:59 PM on 1 June 2018.
Late Registration begins on 2 June 2018 and runs through 23 July 2018.
After 23 June 2018, you may only register on-site in the McKenna Hall Conference Center.

Workshops

Below is a link to the list of workshops that have been approved for the 25th BCCE. They will be offered assuming that minimum enrollments set by the workshop leaders are met. You must register for these workshops using the online conference registration system. NOTE - This is a tentative schedule and subject to change. The BCCE website, www.BCCE2018.org will be kept up to date as the organizers progress through the registration process.

http://www.bcce2018.org/Program.../WorkshopCatalog.pdf

Symposia

(Symposia descriptions can be found at www.bcce2018.org/Presenting.../Symposia/SymposiaCatalog.pdf)

1. 3D printing in chemistry education
2. A day in the life of my classroom
3. Accelerated Chemistry: Teaching One Course at a Time
4. Active Learning in Organic Chemistry
5. Active Learning in Physical Chemistry
6. Addressing Underrepresented Groups in STEM
7. Aligning Assessment Practices with Inquiry Learning
8. Alternative ways to teach important concepts in Organic Chemistry
9. Applications of Learning How to Learn in the Chemistry Curriculum
10. Arithmetic the key to success in STEM especially Chemistry the central Science
11. Beyond AP: 2nd-Year Chemistry Electives in High School
13. Biochemistry Education: Discussions of the Laboratory Environment
15. Bringing Civic Engagement and SENCER to Chemistry Courses and Curricula
16. Building a Culture of Learning for Chemistry Students
17. Building an Identity as a Scientist from Orientation to Graduation.
18. Building Bridges to Transition Two-year Students to Four-year Programs
19. CERtainly You Can Do Inquiry in Chemistry
20. Chemical Education Xchange: Engaging with Contributors
21. Chemistry and Community Outreach: Ideas and Events
22. Chemistry Education Research about Multiple Representations
23. Chemistry Education Research: Graduate Student Research Symposium
24. Collaboration Cubed: Two-Year College Chemistry Faculty Thrive on Collaboration, Creativity and Connections.
25. Collaborative and Cooperative Learning
26. Communicating Chemistry Via Social Media
27. Communication in chemistry: Engaging students with oral communication in lecture and laboratory classes
28. Community outreach throughout all grade levels
29. Course-embedded research experiences in the first and second year curriculum
30. Creating a Local Professional Learning Community
31. Creativity in the Classroom: Games and Manipulatives that Encourage Learning
32. Current Research on the Undergraduate Chemistry Laboratory
33. Developing and Supporting Chemistry Teachers
34. Discourse Frameworks in Active Learning Chemistry Classrooms
35. Engaging non-science majors in chemistry through current scientific topics
36. Engaging students in organic chemistry
37. Engaging Students in Physical Chemistry
38. Enhancing student learning and retention in introductory “gatekeeping” chemistry courses
39. Finalizing Education of Chemistry Majors: How do we better prepare chemistry graduates for careers in industry and graduate school?
40. Food Chemistry
41. General Papers
42. General Posters
43. George R. Hague Jr. Memorial AP Chemistry Symposium
44. Get To Know the USNCO: Chemistry Excellence at the High School Level
45. Green Chemistry in High School, College & University Curricula (and Beyond!)
46. Helping Students Learn Chemistry: Visualizations, Analogies, Games, and Toys
47. Helping Students Learn How to Learn: Metacognition (and more!) in the Chemistry Classroom
48. How Do We Know That?
49. Improving Student Learning Strategies in Chemistry Courses.
50. Innovating Inorganic Chemistry Education at the Intersection of Research and Practice
51. Innovative Ways to Lower Course Material Costs
52. Integrating civic engagement into chemistry courses
53. Integrating Laboratory Safety Education Into the Chemistry Curriculum
54. Interdisciplinary Collaboration in Chemistry Courses: Practices and Challenges
55. Issues in teaching and learning in a biochemistry course for nonmajors

Meetings
56. Learning About Quantitative Research in Chemistry Education Research
57. Learning About Theoretical Frameworks in Chemistry Education Research
58. Metacognitive strategies for supporting students in learning chemistry
59. Models and modeling in Introductory Chemistry
60. Mom the Chemistry Professor: Personal Accounts & Advice from Chemistry Professors who are Mothers
61. More bang for your buck: (More) effective active learning methods in General Chemistry
62. New Directions in Academic Lab Safety
63. NSF Programs that support undergraduate education
64. One-pot synthesis for student success in general chemistry
65. Overarching Undergraduate Curriculum Reform
66. Overcoming challenges through science outreach. Bringing positive science experiences to non-traditional audiences.
67. Peer instruction across the postsecondary curriculum
68. Performance Expectations in General Chemistry
69. Persistence in STEM: What can we do to support students?
70. Present and future directions in organic chemistry laboratory courses
71. Problem Solving as a Pedagogical Method (PSPm) in Chemistry
72. Promoting Argumentation in the Chemistry Laboratory
73. Promoting Teaching and Learning Chemistry Through Engaging Case Studies
74. Qualitative Research in Chemical Education: In Pursuit of Whys and Hows
75. Research at the Interface of Chemistry and Mathematics Education
76. Research in Chemistry Education
77. Research-based Activities in Chemistry Classroom and Laboratory
78. Review of the 2018 Chemistry Exam Results
79. Roots of success and retention for the chemistry degree
80. Science Online: Creating Engaging and Interactive Virtual Classrooms
81. Spiral (Two-Cycle) Organic Chemistry
82. Student-centered inquiry learning with an emphasis on process skills in the classroom and laboratory
83. Supplemental Support Initiatives for Introductory Chemistry Student Success
84. Supporting the growth and impact of the chemistry education research community
85. Supporting Under-Represented Minorities to Increase Undergraduate Retention and Success
86. Takin’ it to the Streets. Chemistry outside the classroom.
87. Teaching Chemistry at Minority-Serving Institutions
88. Teaching chemistry in the context of forensic science
89. Teaching Large Classes: The Good, The Bad, & The Ugly
90. Teaching nuggets for AP and general chemistry
91. Teaching transferable skills in the chemistry laboratory curriculum: real research, real training
92. Technology Integration in Chemistry Education and Research (TICER)
93. The 3 Ps of Student Engagement in the Flipped General Chemistry Classroom: Preparation, Participation, and Performance
94. The Application of Non-Traditional Qualitative Frameworks in Chemistry Education Research
95. The Effects and Research on Peer Leaders in Peer-Led Instructional Methods
96. The pros and cons of multi-week research projects in the general chemistry laboratory.
97. To green or not to green? Approaches for including green chemistry in a traditional academic setting: teaching, research and service
98. Training Graduate Students to be Professional Teaching Assistants
99. Understanding animations: Is it really what is happening?
100. Updating the American Chemical Society’s Guidelines for Programs that Offer the Bachelor’s Degree.
101. Using manipulatives in a chemistry classroom
102. Using Science Fiction to Teach Chemistry
103. Using Specification Grading to Assess Learning Outcomes in Chemistry
104. Views from the Classrooms of Award Winning Chemistry Teachers

Future ACS National Meetings

<table>
<thead>
<tr>
<th>Meeting</th>
<th>Date</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>256th ACS National Meeting &amp; Exposition</td>
<td>August 19-23, 2018</td>
<td>Boston, Massachusetts</td>
</tr>
<tr>
<td>257th ACS National Meeting &amp; Exposition</td>
<td>March 31-April 4, 2019</td>
<td>Orlando, Florida</td>
</tr>
<tr>
<td>258th ACS National Meeting &amp; Exposition</td>
<td>August 25-29, 2019</td>
<td>San Diego, CA</td>
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</tbody>
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2018 Regional ACS Meetings

<table>
<thead>
<tr>
<th>Meeting</th>
<th>Date</th>
<th>Location</th>
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<tbody>
<tr>
<td>Northeast Nanomaterials Meeting (NENM)</td>
<td>June 1 - 3</td>
<td>Lake Placid, NY</td>
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<tr>
<td>NanoMARM</td>
<td>June 3</td>
<td>Bethlehem, PA</td>
</tr>
<tr>
<td>Northwest (NORM)</td>
<td>June 24 - 27</td>
<td>Richland, WA</td>
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<tr>
<td>Midwest (MWRM)</td>
<td>October 21 - 23</td>
<td>Ames, IA</td>
</tr>
<tr>
<td>Southeastern (SERMACS)</td>
<td>October 31 - November 3</td>
<td>Augusta, GA</td>
</tr>
<tr>
<td>Southwest (SWRM)</td>
<td>November 7 - 10</td>
<td>Little Rock, AR</td>
</tr>
</tbody>
</table>
Committee/Board Reports

Biennial Conference on Chemical Education Committee, Dan G. Sykes [dgs12@psu.edu], Chair

The BCC will present the poster, “Biennial Conference on Chemical Education: A place to share information about the teaching and learning of chemistry,” at the Division poster session 7:00-9:00 PM, Sunday March 18, 2018 and at the Sci Mix 8:00-10:00 PM Monday, March 19, 2018. Both sessions will be held in Halls D/E, Ernest N. Morial Convention Center, New Orleans. With this promotional poster, we hope to engage ACS and Division members in conversations about the types of educational, scholarly, and social events associated with the BCCEs, as well as the benefits and resources that are available to those who are interested in hosting a future BCCE. We will also be handing out take-away cards with information about the upcoming BCCE at Notre Dame University and the Biennial Conferences in general.

2018 BCCE

By the time that you receive this, registration for the 2018 BCCE at Notre Dame will be open. This promises to be one of the largest conferences yet: 122 workshop sessions; over 1200 papers; a large exhibition; and, of course, Al D. Hyde and the Key Tones. This is your opportunity to visit Notre Dame and experience the rich history of this campus while renewing old friendships and meeting new colleagues. This year, in conjunction with AACT, we are hosting our first-ever K-8 Chemistry Day on Monday, along with a robust week-long program for the secondary educators attending the conference. Along with the technical sessions, there will be the traditional social elements of a BCCE: a 5K Fun Run/Walk starting and ending at the iconic ND Stadium, a BCCE Golf Outing on the Warren Golf Course (home of the 2019 U.S. Senior Open) on Sunday, and the 2YC3 Ice Cream Social during the Monday evening Poster Session and Exhibition. Make sure to check out all of these (and other) social activities at our website, http://bcce2018.org, and reserve your spot. The planning committee looks forward to welcoming everyone to Notre Dame to celebrate our Golden Anniversary at the 25th Biennial Chemical Education Conference.

The BCC is co-sponsoring, along with the Tertiary Education Group, Royal Society of Chemistry, a symposium entitled, “Communicating Chemistry Via Social Media” at the 2018 BCCE, which will be held this summer on the campus of Notre Dame University.
Chemical Education Research Committee, Jack Barbera [jbarbera@pdx.edu], Melonie Teichert [teichert@usna.edu] Co-Chairs

Come one, come all to the chemistry education research methods symposia at the BCCE!

In alignment with our mission to “inform chemical educators, foster scholarship, and encourage the improvement of the quality of chemistry education research”, the Chemical Education Research (CER) committee is collaborating with the Younger Chemistry Education Scholars (YCES) committee to organize an education research symposium series at the 2018 BCCE.

Invited speakers within each symposium are provided with a 40-minute time block so that they can actively engage their audience in learning more about a select research method as well as the best practices for its implementation. Each presentation will include ample time for questions and discussion. Please see the BCCE symposia list (symposium numbers provided below) for the detailed abstracts of each session.

#56. Learning About Quantitative Research in Chemistry Education
Organizers: Lisa Kendhammer (CER) and Jordan Harshman (YCES)

#57. Learning About Theoretical Frameworks in Chemistry Education Research
Organizers: Vicente Talanquer (CER) and Britland DeKorver (YCES)

#74. Qualitative Research in Chemical Education: In Pursuit of Whys and Hows
Organizers: Thom Bussey (CER) and Stephanie Ryan (CER)

During each of these symposium sessions, and at other times throughout the BCCE, the CER and YCES committees will be collecting feedback from attendees about this specific programming as well as gathering ideas about other ways we can inform and train the greater chemical education research community. *Be on the lookout so that you can provide us with your thoughts!*

We hope to see you at one or more of these symposia.
Jack Barbera, Chair
Melonie Teichert, Co-Chair

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

Greetings! Since we last met at the ACS National Meeting in Washington DC, we had three applicants for the $2000 travel award and the award went to Dr. Jack Barbera. Dr. Barbera is an associate professor at Portland State University and plans to use his travel award to attend “The Variety in Chemistry Education and Physics Higher Education Conference” held at the University of Sheffield in the UK where he plans to present results from a multi-institutional project about flipped learning. This will be his first international conference. He plans to submit an article for our IAC website and he also plans to present the details of his trip at the Spring 2019 ACS-IAC meeting and symposium.

Our Facebook presence has grown to just over 70 members. A request was made at our fall meeting to have someone take on keeping up with the group and Charlie Cox expressed interest. As we move forward it would be helpful to have several of our members focusing on our social media presence and working to find stories/blogs that highlight international experiences of DivCHED members for posting to our website.

There will be two symposia at the ACS National Meeting in New Orleans. Wendy Schatzberg, Charlie Cox and Alexey Leontyev will be co-organizing the symposium: Chemistry Teaching Practices from International Viewpoints. Resa Kelly and former DivCHED IAC chair, Butch Atwood, will co-organize the symposium: US-Cuba Collaborations in Chemistry Education. Unfortunately, due to US Embassy challenges in Cuba, our Cuban presenters were unable to secure visas to attend this conference and the symposium.

We hope to have them present through video-recorded presentations, but we are still working on the logistics of this. Attend the symposium to find out how this cliffhanger ends!

Co-editors Cox and Schatzberg continue to work on their ACS Book project featuring international relations in chemistry education. Look for their book launch probably in the fall.

Kelly applied for a Division Innovative Project Proposal to support an international symposium taking place at the Ibero Americano de Química conference in Lima, Perú to be held in October of 2018. The symposium was recommended by former DivCHED IAC Carmen Valdez Gauthier, who has worked tirelessly to foster collaborations in Peru and recently completed her Fulbright Scholarship work in that area. The symposium will focus on the ways that we engage students to learn chemistry concepts that have interdisciplinary connections, real world applications or that bridge to advanced chemistry concepts, but that ultimately spark student interest about the nature of science. A novel requirement of the symposium is that each presenter will be asked to either present a 3-minute video clip of authentic chemistry teaching practice that highlights revelations on aspects of instruction that presenters find most useful in their practice or the presenter will be asked to actually model the teaching strategy during their talk and these segments will be video recorded. The video clips will be shared through our Division’s webpage and/or Facebook group where further discussion will be encouraged and people unable to attend the symposium will be able to interact with the speakers.

Committee/Board Reports
Ultimately, participants will develop a sense of community, collegiality and better understand teaching strategies used to support student learning of chemistry concepts across many cultures. Funds will be used to assist a few speakers, including undergraduates and graduate students.

At the upcoming open meeting in New Orleans we will focus on future programs and grants that the committee should pursue and ways that we can have more equitable involvement of all DivCHED IAC members. We also must select the next co-organizers of the Spring 2019 DivCHED IAC symposium. We need to advertise for the 2019 International Travel Award due November 30, 2018. We will discuss plans to meet at the BCCE at Notre Dame. We will share updates on upcoming international meetings that our members plan to attend and how we can best report on the happenings at these events. We will discuss how to strategically use a $2000 endowment from member Conrad Bergo to assist non-US DivCHED IAC members to attend future ACS National Meetings.

Thank you to all our members: Nicole Becker, Conrad Bergo, Charlie Cox, Alison Lemay, Sarah Hansen, Alex Leontyev, Akiko Nakamura, Stephanie Ryan, Wendy Schatzberg, Hannah Sevian and Roy Tasker.

Respectfully,

Resa Kelly

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**Regional Meetings Committee, Marty Perry [Marty.Perry@stlcop.edu] Chair**

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

- 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 Award winners;
- Insure that a Chemical Education Program is part of each Regional Meeting;
- And 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.

**ACS Division of Chemical Education Region Awards:**

### Fall 2017 Awardees for Excellence in High School Teaching

Eight of the ten ACS Regions held meetings in 2017 providing opportunities to recognize and reward excellence in the teaching of high school chemistry. We reported in the Fall 2017 issue of the **NEWSLETTER** on the four Spring Awards; RMC is pleased to report on the following four region Awards presented in Fall 2017.

The winner of the 2017 **Division of Chemical Education Midwest Region Award for Excellence in High School Chemistry Teaching, in Honor of John E. Bauman, Jr.,** is **Amy Clement** from Olathe North High School in Olathe, KS.

**Amy Clement,** Olathe North High School chemistry teacher, aims to inspire curiosity about chemistry in all her students, and to launch her students in continued studies and potential careers in chemistry. She creates a classroom climate that encourages critical thinking and nurtures students’ resilience in problem solving. Amy is a curriculum leader in her school district. She collaboratively developed and implemented in her classroom lessons/projects through a Research Experience for Teachers (RET) workshop at the University of Kansas Center for Environmentally Beneficial Catalysis, making chemistry relevant and challenging for all of her students. Amy is dedicated to keep up-to-date in the field. She is a member of the National Science Teachers Association, Alpha Chi Sigma Professional Chemistry Fraternity, and...
Kansas Association of Teachers of Science. She attended the 2017 Chem Ed conference. Amy earned her masters degree in instructional design and technology. Amy's extracurricular work has stimulated the interest of innumerable young people in chemistry and related sciences. She has sponsored state champion Science Olympiad teams, and has organized and led district-wide science nights for the community. She is co-sponsor of the Olathe North High School Faraday Society, a chemistry demonstration community outreach student group. She co-led the Olathe North Battle of the Brains two-time championship teams in a competition to design a Science City museum interpretive exhibit. Battle of the Brains is sponsored by the Kansas City Burns and McDonnell engineering firm. In designing their exhibits the students gained engineering design experience and experience submitting proposals. They earned the satisfaction of sharing their love of science with the community through their Science City exhibits, and the accomplishment of a earning a $50,000 grant to Olathe North.

The 69th ACS Southeast Regional Meeting, November 7-11, 2017, Charlotte, NC

Prior to beginning her teaching career, she spent a year as a professional softball player/coach in Florence, Italy. She earned a Bachelor of Science Degree in Education with a Comprehensive Science Major from Kent State University, Kent, Ohio in 1987. While at Kent State, she was awarded four varsity letters for softball. Carol attended The University of Akron, in Akron, Ohio where she obtained her Master of Science Degree in Science Education in 1993. In 2017, she completed her Instructional Leader Certification. As a teacher in the Mentor Public School System, Carol was named the Lake County Science Teacher of the Year. At one time, in the Frey Scientific Catalog she had for sale "The Atom Can" which she created and developed for classroom use. In 2015, she was named James Clemens Teacher of the Year, and also the Madison City Schools Secondary Teacher of the Year. In 2016, she was named to the Alabama Teacher of the Year "Sweet 16" and the District VIII Teacher of the Year. Carol has coached a variety of sports and clubs. For Madison City Schools, she has been a softball coach and girl’s golf coach. She sponsors the Chemistry Club and Science Olympiad. Carol is married to Rob Bohatch, and they have two children: Emily and Katie. She enjoys gardening and outside activities.

The 74th ACS Southwest Regional Meeting, October 29-November 1, 2017, Lubbock, TX

The winner of the 2017 Division of Chemical Education Southwest Region Award for Excellence in High School Chemistry Teaching is Carol Bohatch from James Clemens High School in Madison, AL.

Carol came to Madison City Schools after 11 years teaching in the Mentor Public School System near Cleveland, Ohio.

The ACS Rocky Mountain Regional Meeting, October 25-28, 2017, Loveland, CO

The winner of the 2017 Division of Chemical Education Rocky Mountain Region Award for Excellence in High School Chemistry Teaching is Greta Glugoski-Sharp from St. Mary’s Academy in Englewood, CO.

Greta Glugoski–Sharp is Science Department Head and Chemistry Teacher at St. Mary’s Academy in Englewood, Colorado. She received bachelor of science and bachelor of arts degrees from the University of California at Santa Cruz in 1989 with majors in Biology and Spanish. In 2002 she received a Masters of Education from the University of San Francisco in Secondary Science Education and Bilingual Education. Since 2003 she has taught chemistry, other sciences courses, and begun the chemistry advanced placement course at St. Mary’s Academy, an all-girls high school. Over her tenure, Greta has inspired her students, helping them find the value and “fun” in science. Her principal...
says that Greta has been a role model for her students as a woman of science who loves what she does and is an expert in her field. As the Science Department Chair she has created an environment in all courses where girls can thrive and will become proficient in science. She has found ways to update labs and bring technology and new techniques to the classroom. Professionally Greta seeks continuing education for herself through workshops including those for teaching advanced placement chemistry. She is active in Science and Chemistry professional organizations including being named as Ambassador for Colorado to the American Association of Chemistry Teachers and elected Region I Board Member of the Colorado Association of Science Teachers. She was named in 2017 to the American Chemical Society High School Examination Committee meeting in Brookings, South Dakota. She has organized programs for high school chemistry teachers at regional and national levels for the American Chemical Society and the National Science Teachers Association and is a committee member of the Colorado Science Conference. For the Colorado Chemistry Teachers Association she is the ACS representative and for many years has been co-organizer with the Colorado Section of ACS of the Annual Banquet to recognize the outstanding high school chemistry student at each high school in Colorado and recognize the outstanding chemistry teacher of the year. In 2003 she was recognized by Steve Spangler and News 9 with his “Salute to Chemistry Teachers.” Ms. Sharp received a 2016 Salute to Excellence from the Colorado ACS for her involvement in the annual high school program.

Finalists for the Fall 2017 ACS Division of Chemical Education Region Awards for Excellence in High School Teaching: In 2014 RMC began the practice of using the CHED 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 2017 Recipient, and all those whose complete nomination portfolios came before the Region Awards Committees.

<table>
<thead>
<tr>
<th>2017 ACS Division of Chemical Education Midwest Region Award for Excellence in High School Teaching, in Honor of John E. Bauman, Jr.</th>
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<tbody>
<tr>
<td><strong>AWARDEE</strong></td>
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</table>
| Amy Clement  
Olathe North High School  
Olathe, KS 66061 |
| **FINALISTS** |
| Randolph Francis Brull  
Thomas More Prep- Marian High School  
Hays, KS 67601 |
| Maricar Harris  
Wichita Collegiate School  
Wichita, KS 67206 |
| Roseanne Hoffman  
Harrisonville School District  
Harrisonville, MO 64701 |
| Kristi Deaver Uselding  
Ankeny Centennial High School  
Ankeny, IA 50023 |
<table>
<thead>
<tr>
<th>2017 ACS Division of Chemical Education Southeast Region Award for Excellence in High School Teaching</th>
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<tbody>
<tr>
<td><strong>AWARDEE</strong></td>
</tr>
<tr>
<td>Carol Bohatch</td>
</tr>
<tr>
<td>James Clemens High School</td>
</tr>
<tr>
<td>Madison, AL 35756</td>
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<tr>
<td><strong>FINALISTS</strong></td>
</tr>
<tr>
<td>Avrill Buerstetta</td>
</tr>
<tr>
<td>Ravenwood High School</td>
</tr>
<tr>
<td>Brentwood, TN</td>
</tr>
<tr>
<td>Jessica Enlow</td>
</tr>
<tr>
<td>Cox Mill High School</td>
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<tr>
<td>Concord, NC</td>
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<tr>
<td>Emily Gilstrap</td>
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<tr>
<td>Easley High School</td>
</tr>
<tr>
<td>Easley, SC 29642</td>
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<tr>
<td>Romina M. Jannotti</td>
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<tr>
<td>Paul J. Haggerty High School</td>
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<tr>
<td>Oviedo, FL 32765</td>
</tr>
<tr>
<td>LaShawn McNeil</td>
</tr>
<tr>
<td>Lincoln High School</td>
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<td>Tallahassee, FL 32311</td>
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<thead>
<tr>
<th>2017 ACS Division of Chemical Education Southwest Region Award for Excellence in High School Teaching</th>
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<tbody>
<tr>
<td><strong>AWARDEE</strong></td>
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<tr>
<td>Karen Compton</td>
</tr>
<tr>
<td>Plano East High School</td>
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<tr>
<td>Plano, TX 75074</td>
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<tr>
<td><strong>FINALISTS</strong></td>
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<tr>
<td>Alicea Chaloupka</td>
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<tr>
<td>Christ the King Cathedral High School</td>
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<tr>
<td>Lubbock, TX 79413</td>
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<tr>
<td>Theresa Delong</td>
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<tr>
<td>College Park High School</td>
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<tr>
<td>The Woodlands, TX 77384</td>
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<tr>
<td>Usha Devanthosh</td>
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<td>North Houston Early College High School</td>
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<tr>
<td>Houston, TX 77065</td>
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<td>Carolyn Ericson</td>
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<td>Clements High School</td>
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<td>Sugar Land, TX 77479</td>
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<td>Carrollton, TX 75010</td>
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<tr>
<td>Gary Layman</td>
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<tr>
<td>Bartlesville High School</td>
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<tr>
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<table>
<thead>
<tr>
<th>2017 ACS Division of Chemical Education Rocky Mountain Region Award for Excellence in High School Teaching</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AWARDEE</strong></td>
</tr>
<tr>
<td>Greta Glugoski-Sharp</td>
</tr>
<tr>
<td>St. Mary’s Academy</td>
</tr>
<tr>
<td>Englewood, CO 80113</td>
</tr>
<tr>
<td><strong>FINALISTS</strong></td>
</tr>
<tr>
<td>Hillary Ward</td>
</tr>
<tr>
<td>Empire High School</td>
</tr>
<tr>
<td>Tuscon, AZ 85747</td>
</tr>
<tr>
<td>Caralee Young</td>
</tr>
<tr>
<td>Itineris Early College High School</td>
</tr>
<tr>
<td>West Jordan, UT 84088</td>
</tr>
</tbody>
</table>
Region Award Nominations:

RMC continues to pursue ways by which a spectrum of Society-affiliated groups can participate in the Region Award nomination process.

Converting Regions Awardees to James Bryant Conant Nominees:

Beginning with the 2015 Region Awards, DivCHED Representatives to individual Regional Meetings took leadership roles to facilitate the nomination of Region Awardees for the James Bryant Conant Award.

Chemical Education Programming at Regional Meetings:

DivCHED Representative Involvement in Programming

RMC is increasing its efforts to contact organizing committees early on in the planning process to not only encourage Chemical Education programming but to also volunteer to organize a symposium, general session, or poster session. RMC is also exploring partnerships with AACT to encourage and sponsor pre-college programming at regional meetings.

Regional Meeting Planning Conference (RMPC):

The RMC was represented by Marty Perry at the Regional Meetings Planning Conference (RMPC) held on January 19-21, 2018 at the ACS Leadership Institute in Dallas, TX. Leaders for the upcoming ACS Regional Meetings were provided information about how the Division of Chemical Education can assist their organizing committees with programming support. Attendees were also provided award guidelines for the Excellence in High School Teaching Award.

Promotion of ACS Division 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.

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 New Orleans will be from 4:00-5:30 on Sunday, March 18, in the St. Charles Room of the Hilton Garden Inn CC. 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@wittenberg.edu) anytime on such matters.

Four members of the Safety Committee recently published a Commentary in our Journal about the new Safety Guidelines for Chemical Demonstrations (DOI: 10.1021/acs.jchemed.7b00802). The Guidelines are included as Supplementary Material and can otherwise be accessed at the CHED Safety Committee website.

At long last, a new Exams Institute Chemical Health and Safety Exam is being produced to replace the 1997 Exam! Several Safety Committee members are writing the embedded quiz items for these modules.

ACN President Peter Dorhout led a “Safety Summit” retreat in Washington DC at the ACS headquarters on Feb 2-4, 2018. About 30 safety specialists from within and external to the ACS and from industry and academia met to discuss how to best develop a plan to forward the safety agenda in the ACS. (“Safety” was included as an ACS core value in the 2017 Strategic Plan.) Part of the retreat discussed educational topics, from K-12 through graduate programs. A report is forthcoming and will provide guidance on the future direction of safety initiatives in the ACS. Our particular interest within the Safety Committee will be to help CHED define its role in responding to recommendations about safety instruction prepared in light of Goal 3 of the ACS Strategic Plan – “Support Excellent in Education”.

A goal for the near future is to sponsor more symposia about safety-related issues in CHED at national, regional meetings and the BCCE. As invitations appear for such symposia, we hope you will consider presenting a paper to continue the conversation about promoting safety in chemical education.

Dave Finster
Chair, Safety Committee
Greetings to all from ACS Exams.

We welcome a new colleague to our Board of Trustees, David Licata, the new Division Treasurer. We also say farewell to long-time Board member, Anna Wilson. Anna, you have been on the Board of Trustees since 2000 as a valued colleague and friend. Thank you for all you have done for ACS Exams, you will be dearly missed.

Since our last newsletter, we continue to face challenges at ACS Exams, particularly those related to exam security. Last fall, we were required to recall a second-term general chemistry test (General Chemistry, Second Term, 2014). All users of this exam were immediately contacted once the recall began with the remedy of replacement exams (free of charge). Thankfully, a new exam in this series was also available last fall (General Chemistry, Second Term, 2017). This recall was required given the illegal posting of exam material, compromising the integrity of the exam and the exam norms. We would like to continue to stress to everyone in the community how important it is to work together to maintain the integrity of secure exams and impress on our colleagues and students the gravity of illegally posting or distributing copyrighted material. Finally, we ask that if any postings are found of our exams or study materials, please contact us so we can take the appropriate steps to remove these materials and pursue action to prevent posting of these materials in the future.

In order to help institutions who may want to update or change their current ACS Exams offerings, as a reminder, the price reduction to only $1 per copy (minimum 25 tests per order) of all general and organic chemistry exams is in effect until December 31st, 2018.

Exam development has stabilized into a regular cycle of 7 to 10 new exams per year. We are excited to offer our organic chemistry exams in two forms. As with our high-use general chemistry exams, these are the same tests with different item orderings and response orderings with the two forms printed on different colored booklets (gray and yellow). This can provide instructors with the option to use both forms in larger classes where students are closer during testing. Our newly released exams are:

**Exams released in late 2017 and early 2018**

<table>
<thead>
<tr>
<th>Name</th>
<th>Stock code</th>
<th># of items</th>
<th>Time (min)</th>
<th># of forms</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Chemistry, Second Term, 2017</td>
<td>GC17S</td>
<td>70</td>
<td>110</td>
<td>2</td>
</tr>
<tr>
<td>Organic Chemistry (full year), 2017</td>
<td>OR17</td>
<td>70</td>
<td>110</td>
<td>2</td>
</tr>
<tr>
<td>Organic Chemistry, First Term, 2017</td>
<td>OR17F</td>
<td>70</td>
<td>110</td>
<td>2</td>
</tr>
<tr>
<td>Biochemistry, 2017</td>
<td>BC17</td>
<td>60</td>
<td>120</td>
<td>1</td>
</tr>
<tr>
<td>Diagnostic of Undergraduate Chemistry Knowledge, 2018*</td>
<td>DUCK18</td>
<td>60</td>
<td>120</td>
<td>1</td>
</tr>
<tr>
<td>Organic Chemistry (full year), 2018*</td>
<td>OR18</td>
<td>70</td>
<td>110</td>
<td>2</td>
</tr>
<tr>
<td>Toledo Placement, 2018*</td>
<td>TP18</td>
<td>60</td>
<td>55</td>
<td>1</td>
</tr>
<tr>
<td>General Chemistry, Brief, 2018*</td>
<td>GC18B</td>
<td>50</td>
<td>55</td>
<td>1</td>
</tr>
</tbody>
</table>

*Due to be ready for purchase no later than April 1st, 2018

Field testing also continues in full swing. This spring we are trial testing a number of tests:

**Field-testing Exams, Spring 2018**

<table>
<thead>
<tr>
<th>Name</th>
<th>Stock code</th>
<th># of items</th>
<th>Time (min)</th>
<th># of forms</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019 General Chemistry, Full year</td>
<td>GC19</td>
<td>70</td>
<td>110</td>
<td>2</td>
</tr>
<tr>
<td>2018 General-Organic-Biochemistry Chemistry, one semester (condensed), revised from Fall 2017</td>
<td>GB18C</td>
<td>60</td>
<td>50</td>
<td>1</td>
</tr>
<tr>
<td>2018 General-Organic-Biochemistry Chemistry, full year General Chemistry subtest</td>
<td>GB18, GC</td>
<td>50</td>
<td>50</td>
<td>2</td>
</tr>
<tr>
<td>2018 General-Organic-Biochemistry Chemistry, full year Organic Chemistry subtest</td>
<td>GB18, OC</td>
<td>50</td>
<td>50</td>
<td>2</td>
</tr>
<tr>
<td>2018 General-Organic-Biochemistry Chemistry, full year Biochemistry subtest</td>
<td>GB18, BC</td>
<td>50</td>
<td>50</td>
<td>2</td>
</tr>
<tr>
<td>2019 High School Exam</td>
<td>HS19</td>
<td>70</td>
<td>80</td>
<td>2</td>
</tr>
<tr>
<td>2019 Physical Chemistry, Dynamics Items</td>
<td>PH19D</td>
<td>15 or 20</td>
<td>30 to 45</td>
<td>2</td>
</tr>
</tbody>
</table>
If you are interested in participating in field testing, please let us know. As always, there is no cost to you as we provide all test booklets and answer sheets. We require that you return student performances to us to assist us in the final stage of exam development. We are very appreciative of the vast number of faculty and instructors who serve on these exam committees and the chairs who lead these groups. If you are interested in serving on future exam committees, please let us know. We are regularly starting new committees, particularly in general and organic chemistry.

We would also like to specially thank all faculty and instructors who participated in trial testing in fall, 2017. We were so pleased at the fantastic response to the request to field-test exams.

The business continues to be strong with 2017 finishing as another stable year. Under the outstanding leadership of our Business Operations Manager, Julie Adams, our business has been strong and our continued stability will enable the continued operations of ACS Exams far into the future. Our office staff has changed as well with the addition of Steve Koester as our new shipping clerk. Cherie Krayna continues to be the bright voice when you call us, and we are so happy to work with such a great group.

Our research staff continues to change as well. This year, we have been joined by Ashford Fellow (2017-2018), Prof. Thomas Pentecost from Grand Valley State University as well as Dr. Jaclyn Trate as a postdoctoral researcher. The research accomplished by our team is outstanding.

As always, ACS Exams would not function without the numerous and dedicated board members, exam committee chairs and members, trial testing faculty and instructors, and the focus group participants. The highest quality work that ACS Exams has the honor of producing is only possible due to the many, many people who contribute to this work. It continues to be a humbling and extraordinary experience working with you all. And, if you are interested in working with us on exam committees or through development projects, please let us know. For this and all other concerns or matters related to ACS Exams, please feel free to contact me at kmurphy@uwm.edu.

We thank you all for your continued support of ACS Exams!

Best to you all,

Kristen Murphy
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 April 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/passер-education-grant-application-form](http://www.divched.org/content/passер-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)
ACS Fellows Nominations Due April 1, 2018

Nominations for ACS fellows opened February 1, 2018 and will close at 11:59PM on April 1, 2018. The American Chemical Society (ACS) Fellows Program was created by the ACS Board of Directors in December 2008 to recognize members of ACS for outstanding achievements in and contributions to science, the profession, and the Society. Eligibility criteria for nominees and nominators and the selection criteria can be found here: [http://www.acs.org/content/acs/en/funding-and-awards/fellows/eligibility-criteria.html](http://www.acs.org/content/acs/en/funding-and-awards/fellows/eligibility-criteria.html)

Nominations come from four sources: ACS national committees, ACS technical divisions, ACS local sections, and individual ACS members. See [http://www.acs.org/content/acs/en/funding-and-awards/fellows/nomination-types.html](http://www.acs.org/content/acs/en/funding-and-awards/fellows/nomination-types.html).

Outstanding Service to the Division Award

The Division of Chemical Education, Inc. selects a division member each year for the annual DivCHED “Outstanding Service to the Division Award”. The award is presented at the fall National ACS meeting during the Sunday evening CHED Reception. The guidelines for this award are that the awardees be members of CHED and have contributed outstanding service to CHED. Individuals who currently hold office or chair a committee in CHED would not be eligible for this award until their term of office has expired. I am accepting nominations until April 30 for the 2018 award. Please send your nomination with supporting information to Frank Torre, Chair Recognition Committee, ftorre@springfieldcollege.edu.

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](http://www.acs.org/content/acs/en/funding-and-awards/fellows/nomination-types.html).

Call for Nominations: James Flack Norris Award for Outstanding Achievement in the Teaching of Chemistry

Nominations are invited for the 2018 James Flack Norris Award, which consists of a certificate and an honorarium of $3,000 and is given annually by the Northeastern Section (NESACS). The presentation will take place at a ceremony and dinner in Fall 2018, and will include a formal address by the awardee. The Award was established in 1950 by NESACS to honor the memory of James Flack Norris (1871-1940), a professor of chemistry at Simmons College and M.I.T., chair of NESACS in 1904, and ACS President in 1925-26.

Individuals or teams of individuals may be nominated. Nominee(s) should have served with special distinction as teachers of chemistry at any level: secondary school, college, and/or graduate school. With the presentation of the first Award in 1951, awardees have included many eminent teachers at all levels whose efforts have had a wide-ranging effect on chemical education. The recipient will be selected from an international list of nominees who have served with special distinction as teachers of chemistry with significant achievements.

A nomination in the form of a letter should focus on the candidate or candidates’ contributions to and effectiveness in teaching chemistry. Curriculum vitae should be included and, where appropriate, a list of honors, awards, and publications related to chemical education. Seconding letters may also be included; these should show the impact of the nominee or nominees’ teaching for inspiring colleagues and students toward an active life in the chemical sciences, and attest to the influence of the individual or team’s other activities in chemical education, such as textbooks, journal articles, or other professional activity at the local, national, and international level.

The nomination materials should consist of the primary nomination letter, supporting letters, and curriculum vitae. Reprints or other publications should NOT be included. The material should not exceed thirty (30) pages [if individual], and should be submitted electronically in Adobe PDF format through April 15, 2016 to Ms. Anna Singer, NESACS Administrative Secretary at secretary@nesacs.org.

Questions about the Award or the nomination process should be directed to the Chair of the Norris Award Committee, Mark Tebbe at tebbe.mj@gmail.com.
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.”

“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.”

“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.”

“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.”

“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.”

“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.
Malta VIII: Research and Education in the Middle East—A Bridge To Peace

Lynn Hogue

Biennally, the most extraordinary scientific conference occurs. What makes this conference so extraordinary? It is not the plenary lectures by Nobel laureates and world-class scientists, the outstanding oral presentations and posters, or the workshops; many conferences can make these claims. It is the participants and the countries they are from that make the Malta Conferences stand out. The participants are from 16 Middle East countries (Bahrain, Egypt, Iran, Iraq, Israel, Jordan, Kuwait, Lebanon, Libya, Oman, Palestinian Authority, Qatar, Saudi Arabia, Syria, Turkey, United Arab Emirates) and Morocco. The reality of the geopolitical situation in that region, which is further exacerbated by civil and religious conflicts, economic pressures, and the jockeying for position by outside superpowers, prevents many of its researchers and university faculty from interacting with others across borders in a way that we take for granted. The Malta Conferences have provided a safe, nonpolitical platform for these scientists and science educators to share scientific research and collaborate on finding solutions to shared regional problems since 2003. These scientific collaborations, in turn, create bridges between people that have limited opportunities for interactions due to complicated governmental matters.

The eighth Malta Conference (Malta VIII) was held on the island of Malta from December 10-15, 2017, with 100 participants in attendance. Plenary lectures were given by Nobel Laureates Ada Yonath (Weizmann Institute of Science, Israel) and Roald Hoffmann (Cornell University), and by Omar Farha (Northwestern University), and Mohamed El-Naggar (University of Southern California). Workshops focused on Chemical, Biological, and Nuclear Security; Science and Technology Education at all Levels; Environment: Air and Water Quality; Sustainability of Resources: Energy and Materials; Medicinal Chemistry, Organic and Biochemistry, Biophysics and Biotechnology; Entrepreneurship and Innovation: Cross-border Collaboration. A total of 26 oral and 39 poster presentations were given in the workshop sessions by the attendees.

Poor water and air quality continues to be a huge problem in the region and was a focus at Malta VIII. It is recognized that environmental degradation can only be solved by cross-border collaborations. One such collaborative group forged during the conference includes Israelis, Palestinians, Jordanians, and Syrians. Because of the Malta Conferences, collegial bonds between participants have been forged that have led to continuous communications between conferences, joint proposals being written, consortiums being formed, and research grants obtained to resolve these issues. A resolution, penned by scientists from Israel and Gaza, noted the seriously deteriorating quality of the water supply in Gaza and the lack of suitable energy resources, and requested “the international community establish a task force that will be able to overcome the political difficulties and enable the professional treatment of the water and environment.”

The Science and Technology Education at All Levels workshop sessions were chaired by Mustafa Sozbilir (Turkey), Rachel Mamlok-Naaman (Israel), and Lynn Hogue (USA.) Lack of educational opportunities for students especially females is of great concern in the Middle East. The workshop focused on ways to improve these opportunities and to develop curricular materials to improve science education. Talking points during the extensive discussion included inquiry-based science lessons, development of environmental education modules that include units on water and air quality, and the inclusion and accessibility of students with disabilities in the science classroom. An action plan was developed that included:

• Establishment of a science education website for secondary teachers and students;
• Translation of well-developed and tested curricular materials into Arabic, Farsi, Hebrew, French, English and make them available on the website;
• Development of educational modules on chemical, biological, and nuclear safety and security, and environmental education;
• Establishment of a chat box for teachers to examine critical and creative thinking, and informal scientific activities;
• Provide a place for students to ask questions about science;
• Expansion of computer-based programs to translate sign language for science for hearing-impaired students.

The University of Olviedo in Spain offered to provide space on the University’s website for this Middle East science education website. The university is also willing to hold a mini-Malta Conference on its campus for students and young scientists. A working group was formed that will plan a special symposium for women scientists and the issues they confront for the next Malta Conference in 2019.

The Malta Conferences were conceived after 9/11 when it became clear to the ACS Sub-Committee on Scientific Freedom and Human Rights of the International Activities Committee that the situation in the Middle East for science and education was going from bad to worse, which demanded action for collaborations and friendships to develop that would overcome the chasms of mistrust and intolerance. Since the initial Malta Conference in 2003, the goal has been to create a critical mass of scientists to start a chain reaction for peace, to stop demonizing the unknown other, and to resolve regional problems. More than 600 Middle East scientists and 15 Nobel laureates are now in the network. ACS provided vital logistical support in 2011 for the incorporation of the Malta Conferences Foundation (MCF), a 501(c)(3) charitable organization that plans the Conferences and raises the necessary funds. The driving force behind this series of conferences is Zafra Lerman, the president of MCF. Her vision, hard work, dedication to the cause, and inability to take no for an answer, has ensured the success and productivity of each conference.

—continued on next page
After the Malta VIII conference, one participant from Gaza wrote:

On behalf of the entire Gaza, we would like to express our gratitude to Malta Conferences Foundation that continue giving us a highly regarded platform to keep Gaza on the international agenda and to introduce a new image different from the stereotyped one with grassroots evidences that development and peace is possible in Gaza against all the odds.

The one and the only, queen of science diplomacy, Prof. Dr. Zafra Lerman, who can prove that our diversity make us stronger. Again, and again, if all politicians together have half of her dedication, willingness and believe, the world will be a better place.

The Malta Conferences Foundation would like to thank the Division of Chemical Education and the other sponsors and personal contributors for their continuous support and generous donations to MCF.

For more information about the Malta Conferences and the Foundation, see https://www.maltaconferencesfoundation.org/.

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**FOOD AT THE CROSSROADS**

*Chemistry’s Role in Sustainability, Past and Present*

**Sunday March 18,**
1:00- 4:30 PM

**Monday March 19,**
8:30 - 12 noon
and 1:30 - 5:30 PM

Hilton New Orleans Riverside Hotel - Grand Salon D, sec. 24

**KEY SPEAKERS**

*Livia Simon Sarkadi*, President, Hungarian
Chemical Society and Agricultural Specialist

*Poppy Tooker*, well-known NPR food culture critic

*Patrick McGovern*, author of *Uncorking the Past*
Smithsonian’s award-winning food book of 2017

*Linda Civitello*, author of *Baking Powder Wars*
voted among Smithsonian’s top ten food books of 2017

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**SPONSORED BY**

ACS President
ACS Division of the History of Chemistry
ACS Divisional Activities Committee
ACS Louisiana Local Section
ACS Multidisciplinary Program Planning Group
Nominal co-sponsors: AGFD and CHED

**And Talks On**

transformation of the American diet
impact of NaCl on global history
evolution of sugars and sweeteners
fertilizers and food supply
food adulteration and analysis
the flavor industry
hot chili peppers
GMOS and much, much more

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Materials & Opportunities
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

“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

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
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](http://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](http://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](http://Facebook) or on [Twitter @ChemEdX](http://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:

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- **Deanna Cullen**
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  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.

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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.

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
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- ChemMatters
- Chemistry Education Research and Practice
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