



ACS - DAC DIVISION NEWSLETTER May 2014

MESSAGE FROM THE CHAIR

There is now an opportunity to get more involved with the Executive Committee. This committee is charged with the responsibility for keeping the Division focused on serving the needs of the members and continuing the strong legacy of supporting and promoting the profession of Analytical Chemistry. It is an exciting, dynamic group, and we are seeking nominees for the following positions: Chair, Treasurer, and Counsilor. The primary qualification for these positions is a strong interest in helping the division serve its members, expand its capacity, and align with the broader goals of the ACS! Those interested in being nominated for one of these offices should contact our past Chair: Cindy Larive, Professor of Chemistry at University of California, Riverside cindy.larive@ucr.edu. Nominations are due in June, so please let your interests be known without delay.

Congratulations to Susan Olesik, the Division's Program Chair for 2014, on two very successful meetings this Spring: the Spring ACS National Meeting in Dallas, and the Pittsburgh Conference where the Division sponsors symposia and submitted presentation sessions. Both of these meetings enjoyed strong attendance, great presentations, and well attended sessions. I also thank those members who took advantage of these great opportunities to present their science, enhance their professional networks, and create a strong presence for the Division.

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**NEXT ISSUE JULY 2014 - Copy
deadline June 15th.**

We are very much looking forward to an exciting and full agenda at the ACS Fall National meeting in San Francisco, where Susan has once again put together an extremely strong and interesting program. We tried something new for the Fall meeting – we made a call for volunteers to help with the programming – and our membership responded! This spirit of volunteerism has allowed us to connect the programming with the interests of a broad cross section of our members.

In fact, the volunteer participation of division members was so successful, that Cindy Larive and I (both having served as past program chairs) are placing a call for volunteers to work with us on a long term programming committee. The committee will plan

themes and help organize sessions on a five-year forward projection for national ACS meetings and Pittsburgh Conferences. We are seeking experts in the core disciplines of Analytical Chemistry. If you are interested, please contact the Division Office Manager, Miquela Sena at miquela@sciencemanagers.com.

-- Thom Rossi, Chair

PITTCON 2014

The Analytical Division sponsored six invited symposia at Pittcon 2014 covering topics from aerosols to clinical and diagnostic applications to nanofabrication to chemometrics, as well as teaching and learning in separation science. In addition, the Division sponsored a symposium featuring this year's Young Investigator in Separation Science and a poster session that featured presentations by investigators at all levels, from undergraduates to senior researchers.

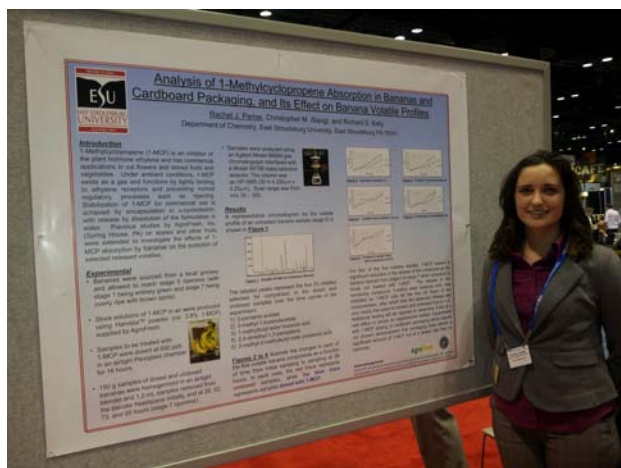
Award for Young Investigator in Separation Science

This year's award symposium, organized by Brian Bidlingmeyer of the Chromatography and Separations Subdivision of the Division of Analytical Chemistry, honored **Dr. Michael Roper, Florida State University.**



Dr. Roper, pictured at left with Dr. Christopher Harrison, was recognized for his contributions to separation science, in particular for his development of multi-color electrophoretic immunoassays for measurement of glucose-regulating hormones from islets of Langerhans. These automated methods allow high temporal resolution measurements of secretion processes, which allow the interactions among these peptides to be observed. The methods are applied to the examination of

the dynamic behavior of both individual and groups of islets under in vivo-like conditions. In addition, he has utilized statistical methods to optimize conditions for capillary and microfluidic electrophoretic separations and post-separation sample handling steps.



DAC Poster Session

Among the other division events at Pittcon, an Undergraduate poster session was held on Monday afternoon. Among the posters displayed in the DAC Poster Session, was that of Rachel Parise, pictured at left. Rachel, from the Department of Chemistry, East Stroudsburg University, was one of this year's Kolthoff Award recipients. The Kolthoff Awards are administered through the Analytical Division of the ACS to encourage talented chemistry undergraduate students to pursue further studies in analytical chemistry.

Executive Committee meeting

The Executive committee of the Division met on Monday, March 3rd. Minutes from the prior meeting (in Indianapolis) and monthly conference calls were approved. Susan Olesik (Program Chair) Doug Duckworth (Incoming Program Chair) reported on arrangements for the Division's

reception in San Francisco, and he will work with next year's Pittcon chair to discuss programming for New Orleans. Cindy Larive (Past Chair) indicated that nominations had been received and evaluated for the Distinguished Service Award and the Giddings Award. Anna Cavinato (Secretary) reported that the annual report had been submitted and she had nominated the Division for a ChemLuminary Award for our 75th Anniversary activities. In addition, Anna reported that membership is down significantly and there was a discussion of possible avenues to address the decline. In addition to her reports on the financial status of the Division, Michelle Bushey (Treasurer) provided an update on the membership drive. The decrease in membership is projected to lead to a deficit for the year. This prompted a discussion of sources of increased resources and of increasing participation. These included: active sale of tickets to the reception at the San Francisco meeting, short courses, symposium volumes, and corporate fundraising. The new ACS due allocation model was discussed and it was felt that the proposed model would result in a negative effect on the Division's financial status. Miquela Sena (Business Officer) reported that her efforts have been focused primarily on awards and Pittcon issues.

Karen Phinney, Chair of the Subdivision of Chromatography and Separation Science, reported on their subdivision meeting. Subjects discussed included increasing the visibility of the subdivision, membership, member retention, and fiscal issues. The subdivision also discussed development of a website and generating a newsletter. Cindy suggested that a portion of the division newsletter could be dedicated to news from the subdivision. There were also suggestions for topics for meeting sessions. The subdivision only meets once a year so they will be experimenting with different ways to communicate with the membership to help with better programming. The Subdivision was asked to help sell tickets to the reception and support attendance.

In committee reports, the awards committee was charged with generating nominations for division awards. Anna Cavinato presented the Communications Committee report on behalf of Roland Hirsch. Funds were requested for redesign of the website and a change in the website address. A motion to approve \$6000 was tabled until further discussion. The Kolthoff awards have been reinstated by the Education committee and were awarded for Pittcon. Slides from the awardees were displayed in the division booth. An email will be sent to members soliciting nominations for officers to be elected during June and July for terms beginning in October. The offices to be filled this year are Chair-Elect, Treasurer, one Councilor seat and two alternate Councilor positions, and information is due to Anna by early June. The Graduate Fellowship Committee met during Pittcon and would be announcing Fellowships soon. Financial support has been solicited from Analytical Chemistry to support the subscription given to Undergraduate Award recipients. Corporate support was suggested as a means to help offset a portion of the costs of an RSC session at FACSS.

In old business, a strategic planning meeting to be spearheaded by Doug Duckworth will be held before the start of the ACS meeting in San Francisco, and Susan Olesik suggested program chair caucuses as a medium for input for those initiatives. Nominations from the Division for ACS Fellows were solicited.

In new business, it was suggested that the Division approach sponsors for support of graduate and postdoctoral scholars. Support was approved for co-sponsorship by the Division of a symposium from the diversity committee. Funds from dissolution of the Ohio Symposium on Chromatography will be administered through the Kolthoff Award program. Naming/recognition preferences will be investigated.

The meeting was adjourned at 6:30 pm. *(Respectfully submitted by Anna Cavinato, Secretary)*

ACS NATIONAL MEETING, DALLAS, TX

In addition to eight oral sessions sponsored by the division itself and four co-sponsored symposia, the Division also sponsored two awards symposia and had a significant presence in the form of the Division poster session and the undergraduate poster session.

As noted in our March issue, the Nobel Laureate Signature Award for Graduate Education in Chemistry recipients for this year were Livia S. Eberlin and R. Graham Cooks. The award, sponsored by Avantor™ Performance Materials, Inc. recognizes an outstanding graduate student and her or his preceptor(s), in the field of chemistry, as broadly defined. Livia's research focused the potential to carry out intraoperative use of mass spectrometry, and is expected to have a major impact due to the possibility of its use in assessment or tumor margins in near-real time. Livia is pictured at right with Graham at the award presentation. The award symposium was organized by Susan Olesik, our chair-elect.

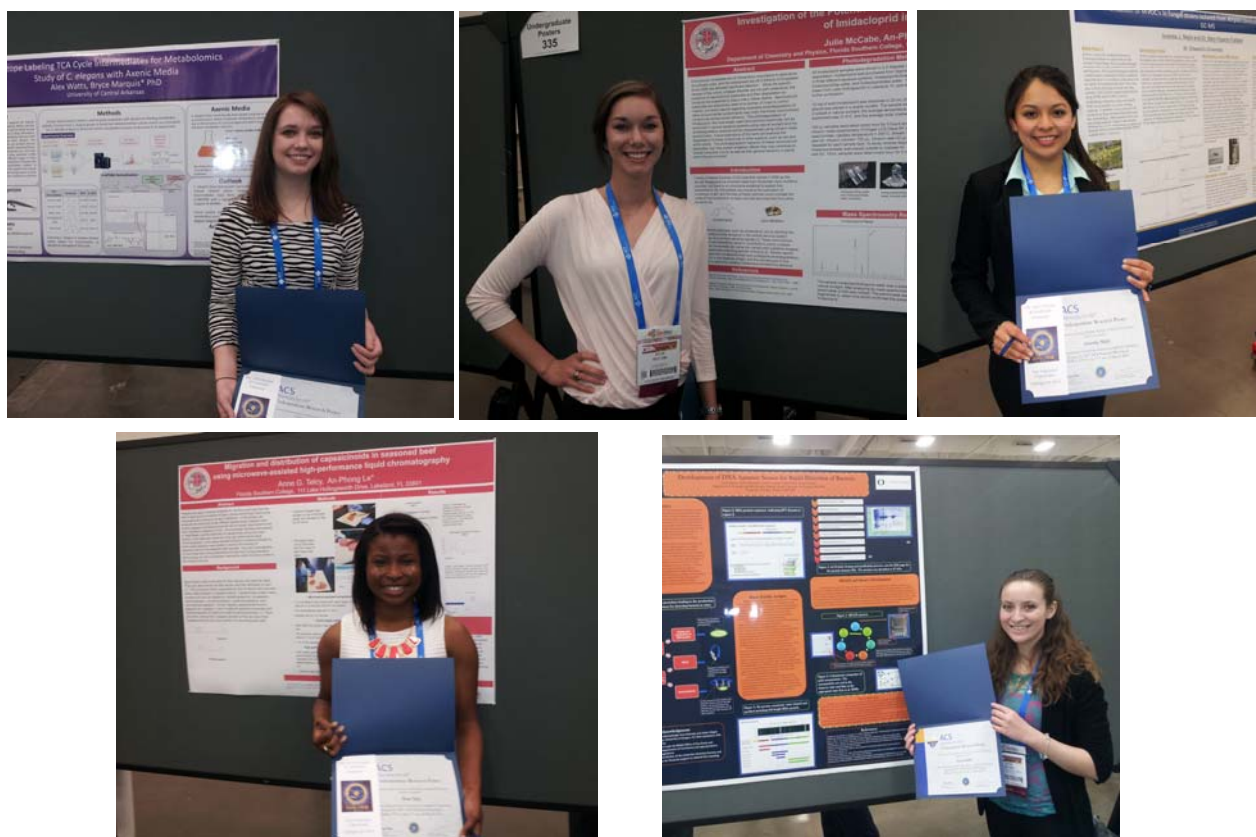


Left to right: Thomas J. Barton ACS President; Livia Eberlin, R. Graham Cooks, and Avantor representative Nandkumar V. Keorkar. *(Photo courtesy of American Chemical Society, 2014)*



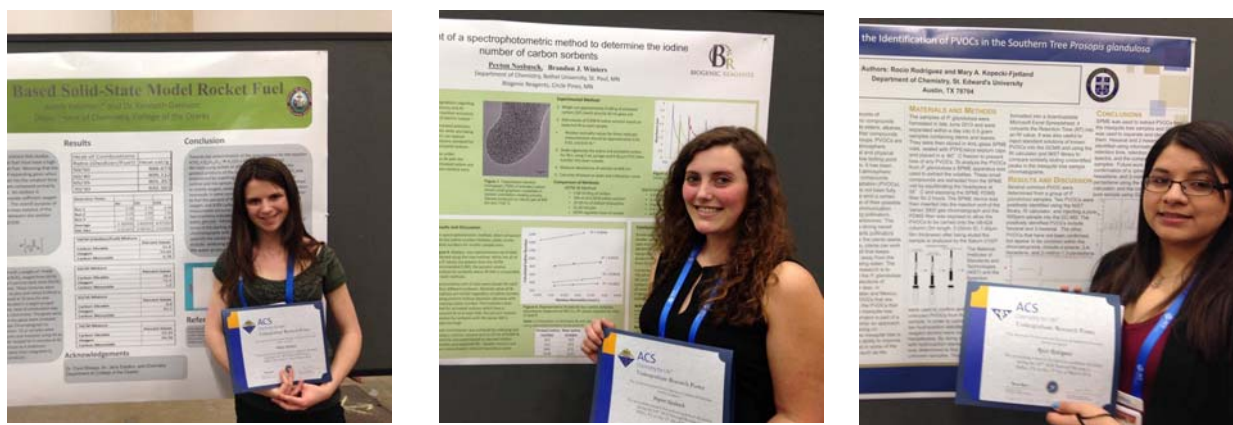
Evan Williams was also honored at the Dallas Meeting. Evan received the Frank H. Field and Joe L. Franklin Award for Outstanding Achievement in Mass Spectrometry, sponsored by The Waters Corp at the symposium organized by Peter Armentrout. This award recognizes outstanding achievement in the development or application of mass spectrometry. His group develops methods, instrumentation, and theory in mass spectrometry, separations, spectroscopy, and biophysics with the general goals of understanding the structure, reactivity, and function of biomolecules. Evan is pictured at left with Thomas J. Barton, ACS President and Waters representative Tyler Tull. *(Photo courtesy of American Chemical Society, 2014)*

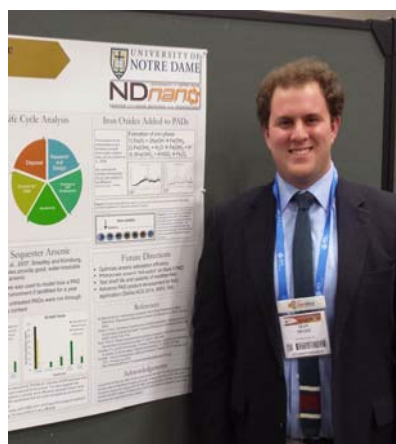
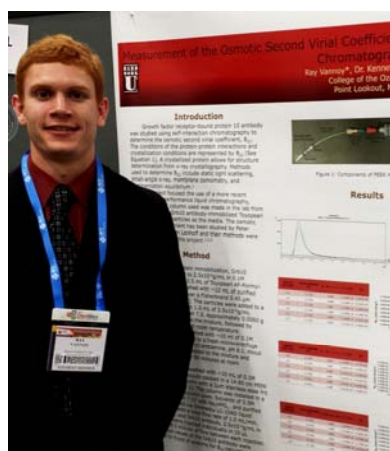
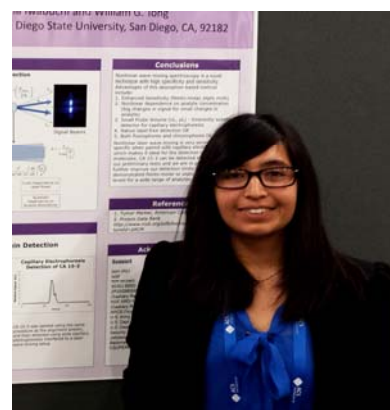
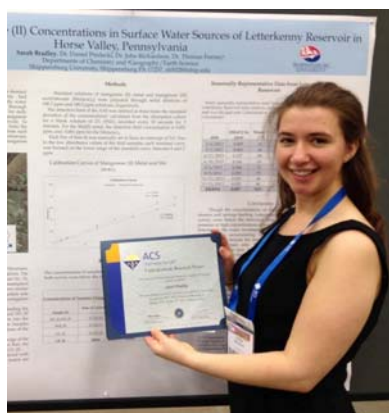
Undergraduates had a major presence in Dallas with presentations both in the Undergraduate Poster session co-sponsored with CHED and SOCED and in the DAC poster session. Pictured at the top of the next page are five of the students participating in the undergraduate poster session on Monday afternoon.



Upper row: Alex Watts - University of Central Arkansas, Conway, AK, Julie McCabe - Florida Southern College, Lakeland, FL; Iovanka Mejia - St. Edward's University, Austin, TX; Lower row: Anne Telcy - Florida Southern College, Lakeland, FL, and Annie Bluhm - Eastern Oregon University,

The DAC poster session on Monday evening also included a number of undergraduates involved in analytical research. Pictured below are Alexis Keleman, College of the Ozarks, Peyton Nosbusch, Bethel University, Rocio Rodriguez, St. Edwards University. At the top of the next page are (top row) Sarah Bradley, Shippensburg University; Lily White, Heidelberg College; Sashary Ramos, San Diego State University; and (bottom row) Sean McGee, University of Notre Dame; Ray Vannoy, College of the Ozarks.





SAN FRANCISCO NATIONAL MEETING, AUGUST 10-14, 2014

The Division will be sponsoring or co-sponsoring over thirty symposia at the meeting, the theme of which is Chemistry and Global Stewardship. The full program will appear in June on the meeting website: <http://www.acs.org/content/acs/en/meetings/fall-2014.html>

As noted below (“Division Awards Symposium”) the 2014 Division of Analytical Chemistry Awards will be presented during the meeting. Recipients of the awards are:

Chemical Instrumentation - David Koppenaal, Pacific Northwest National Laboratory
 J. Calvin Giddings Award for Excellence in Education - Joseph Gardella, University at Buffalo

Spectrochemical Analysis - Tim Harris, Howard Hughes Medical Institute

Electrochemistry - Debra Rolison, Naval Research Laboratory

Award for Distinguished Service in the Advancement of Analytical Chemistry - Chris Enke, University of New Mexico

Arthur F. Findeis Award for Achievements by a Young Analytical Scientist - Ben Garcia, University of Pennsylvania

In addition, two of our Analytical Chemistry colleagues will be recognized with ACS National awards. Susan Olesik will be receiving the ACS Award in Chromatography while Jonathan Sweedler will receive the 2014 ACS Award for Analytical Chemistry.

Title	Type	Symposium organizers
ACS Award for Analytical Chemistry: Symposium in Honor of Professor Jonathan Sweedler	Oral	Evan Williams - williams@cchem.berkeley.edu
ACS Award for Chromatography: Symposium in Honor of Professor Susan Olesik	Oral	Isiah Warner - iwarner@lsu.edu
Advances in Bioelectrochemistry	Oral	Sandra Pratt - sandra.pratt@pnnl.gov
Advances in Electrochemistry	Oral	Sandra Pratt - sandra.pratt@pnnl.gov
Advances in Ionization Techniques and Mechanisms	Oral	Matthew Bush - mattbush@uw.edu
Advances in Separation Science	Oral	Stacy Grant - stacy.grant@us.af.mil / Apryll Stalcup - Apryll.Stalcup@uc.edu
Analytical Challenges of Poorly Soluble Drug Formulations	Oral	Anne Kelly - anne.kelly@bms.com Frank Tomasella - frank.tomasella@bms.com
Analytical Chemistry and Global Sustainability	Oral	Douglas Duckworth - douglas.duckworth@pnnl.gov
Bioanalytical Microfluidics: Applications To Quantitative Biology	Oral	Yong Zeng - yongz@KU.edu
Cheaper, Better, Faster: Incorporating New Technologies in the Analytical Chemistry Curriculum	Oral	Yolanda Fintschenko - dr_yf@yahoo.com
Coherent Multidimensional Spectroscopy for Materials Science	Oral	Wei Zhao - wxzhao@ualr.edu
Coupling Sequence to Omics: The Joint EMSL-JGI User Program	Oral	Axel Visel - avisel@lbl.gov
Division Awards Symposium	Oral	Thomas Rossi - trossi@korepharma.com
Frontiers in Metabolomics	Oral	Dajana Vuckovic - dajana.vuckovic@concordia.ca
General Innovations in Analytical Chemistry	Oral	Susan Olesik - olesik.1@osu.edu
General Posters	Poster	Susan Olesik - olesik.1@osu.edu
Innovations in Analytical Chemistry Education	Oral	Richard Foust - foustrd@jmu.edu Melissa L Kistler Langston - melissa.langston@delval.edu
Innovations in Analytical Spectroscopy	Oral	Anna Cavinato - ACAVINAT@EOU.EDU / Gabor Patonay - cheggp@langate.gsu.edu / Wei Zhao - wxzhao@ualr.edu

Innovations in Bioanalysis	Oral	Matthew Lockett - mlockett@unc.edu / Amanda Culp - amanda.g.culp@gsk.com / Robin McCarley - tunnel@lsu.edu
Innovations in Mass Spectrometry A	Oral	Sean Pawlowski - sean.pawlowski@extrel.com
Innovations in Mass Spectrometry B	Oral	Wiley Hall - wiley4th@yahoo.com
Innovations in Mass Spectrometry C	Oral	Mary Rodgers - mroddgers@chem.wayne.edu
Innovations in Microscale and Nanoscale Analytical Chemistry	Oral	Grace Credo - gmcredo@yahoo.com
Ion Funnel: Key Enabling Technology for Mass-Spectrometric Analyses	Oral	Alexandre Shvartsburg - alexandre.shvartsburg@pnl.gov Keqi Tang - keqi.tang@pnnl.gov
Novel Separations for Critical Environmental Analyses	Oral	Jonathan Clark - jeclark@dow.com
Portable XRF Spectroscopy	Oral	Peter Palmer - palmer@sfsu.edu / Michelle Bushey - mbushey@trinity.edu
Pro-Fluorogenic Probe-Based Methods for Disease Detection	Oral	Robin McCarley - tunnel@lsu.edu
Sci-Mix	Sci-Mix	Susan Olesik - olesik.1@osu.edu
Separation Science and Technology as a Convergence Platform for SusChEM	Oral	Mamadou Diallo - diallo@wag.caltech.edu Catherine T. Hunt - catherinehunt@verizon.net Gretchen Baier - baierg@dow.com
Super-Resolution Chemical Imaging	Oral	Ning Fang - nfang@iastate.edu
Therapeutic Monoclonal Antibodies	Oral	Mary Wirth - mwirth@purdue.edu Elizabeth Topp - topp@purdue.edu

PROGRAMMING IDEAS FOR 2015 AND BEYOND??

The Division is always eager to hear your ideas about programming for future meetings. ACS National Meetings and PITTCON for 2015 and 2016 are:

Pittcon 2015, New Orleans, LA, March 8-12

Pittcon 2016, Atlanta, GA, March 6-11

Spring, 2015 ACS National Meeting, March 22-26, Denver, CO (*Chemistry of Natural Resources*)

Fall, 2015 ACS National Meeting, August 15-20 Boston, MA (*Innovation from Discovery to Application*)

Spring, 2016 ACS National Meeting, March 13-17, San Diego, CA

Fall, 2016 ACS National Meeting, August 21-25 Philadelphia, PA

Please send your programming ideas for future meetings to Susan Olesik at olesik.1@osu.edu

SCIX 2014, SEPTEMBER 8-OCTOBER 3, 2014

This year's SciX will be held September 8-October 3, 2014 at the Grand Sierra Resort, Reno-Tahoe, NV. SciX is the annual meeting of the Federation of Analytical Chemistry and Spectroscopy Societies (FACSS). The conference represents the future of international scientific exchange in the fields of analytical sciences - comprehensive, intimate, all inclusive. This is the meeting where all the member societies of FACSS present their newest, most innovative research. Details for SciX will appear in the July issue of the DAC newsletter.

INTERESTED IN RUNNING FOR DAC OFFICE??

An email will be sent to members soliciting nominations for officers to be elected during June and July for terms beginning in October. The offices to be filled this year are Chair-Elect, Treasurer, one Councilor seat and two alternate Councilor positions, and information is due to Anna by early June.

MASS SPEC GROUP FORMS IN CONNECTICUT

Recent efforts have been made to revitalize a discussion group for mass spectrometry in the state of Connecticut (CTMSDG). A core group of individuals representing both academia and industry has established a foundation and structure for the group, and a first slate of officers elected.



This first group of officers includes:

President: Guilong Charles Cheng (Alexion Pharmaceutical)

Vice President: Chad Herrman (Unilever)

Secretary/Treasurer: Elizabeth Cox (Unilever)

Board Members: Justin Stroh (Pfizer), Xudong Yao (U. Connecticut), Russ Constantineau (Thermofisher), and Ed Papacoda (Bruker Daltonics)

The group has formulated a set of by-laws, is actively securing speakers for upcoming meetings, and has performed various tasks to help initiate the group in 2014.

The first meeting is scheduled in May 2014 at Yale University's West Campus, and details for the first meeting will be posted on the group's LinkedIn page and the group's website—links to both pages can be found below.

We look forward to seeing you at an upcoming meeting in 2014 and appreciate your future support. Additionally, please send an email to the Gmail account listed below in order for your address to be added to a mailing list for future communications.

Contact information:

Group Website: <http://www.ctmsdg.org>

LinkedIn Group Page: http://www.linkedin.com/groups?gid=7441538&trk=my_groups-b-grp-v

Contact: CTMSD@gmail.com

OFFICERS, EXECUTIVE COMMITTEE MEMBERS AND COMMITTEE CHAIRS, 2013-2014

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Program Chair [Susan V. Olesik](#)

Chair-Elect [Douglas C. Duckworth](#)

Secretary [Anna G. Cavinato](#)

Treasurer: [Michelle M. Bushey](#)

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Alternate Councilors

[Michael Early](#) [Donna Nelson](#) [Al Ribes](#) [Susan Lunte](#)

Chair of the Subdivision of Chromatography and Separations Chemistry [Karen Phinney](#)

Immediate Past Chair of the Division [Cynthia K. Larive](#)

Editor of *Analytical Chemistry* [Jonathan Sweedler](#)

Awards Canvassing [Susan V. Olesik](#)

Eastern Analytical Symposium (EAS) Delegate and Alternate Delegate [Brian A. Bidlingmeyer](#)

Education [Kimberley Frederick](#)

Federation of Analytical Chemistry and Spectroscopy Societies (FACSS) Delegates

[M. Bonner Denton](#) [Charles L. Wilkins](#)

Federation of European Chemical Societies, Division of Analytical Chemistry, Delegate

[Malgorzata Ciszowska](#)

Financial Planning, Long Range Program Planning, and Nominating [David Koppenaar](#)

Fundraising [Dorothy J. Phillips](#)

Graduate Fellowship [Emily D. Niemeyer](#) [Paul L. Edmiston](#)

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FACEBOOK site: <https://www.facebook.com/pages/Division-of-Analytical-Chemistry-for-the-American-Chemical-Society/166947680008817>

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