



## ACS - DAC DIVISION NEWSLETTER July 2013

### A LETTER FROM THE CHAIR

Dear Members,

As analytical chemists we make a difference in so many ways. Our measurements ensure safe water, air, food and medicines. Our field continues to push forward the frontiers of biomedicine and energy research. We enable both commerce and national security. We also come together as the ACS Division of Analytical Chemistry to make a collective difference. For example, this July the Division will play a part at the Boy Scout Jamboree in West Virginia as a co-sponsor of an activity to complete a Chemistry Merit Badge. Perhaps among these boys will be a future scientific leader whose life path is altered by this effort. This is just one example of the greater good enabled when we combine efforts as Division members.



This month the Division also continues its long tradition of recognizing the outstanding undergraduate students selected by chemistry departments across the country. I still remember how proud I was to receive the Undergraduate Award in Analytical Chemistry at South Dakota State University 35 years ago. In 1978 the award came with a year's subscription to *Analytical Chemistry*, which undoubtedly shaped my career. A listing of the 2013 recipients of the Divisions' Undergraduate Analytical Chemistry awards can be found on the Division website.

If you will be attending the ACS meeting in Indianapolis, we hope that you will join us for a special 75<sup>th</sup> anniversary celebration reception Tuesday evening as well as two more special events. On Tuesday morning a retrospective session on the history of key analytical chemistry developments has been organized by Dennis Evans, featuring historical overviews from Milos Novotny, Gary Hieftje, Graham Cooks, and Bill Heineman. That afternoon we will honor our Division award winners Charles Wilkins, David Walt, Andrew Ewing, Peter Carr, and Ryan Bailey,

#### In this issue –

- Division/Subdivision Election (Deadline: 7/20)
- ACS Fall meeting
  - Anniversary Symposium
  - DAC Awards Symposium
  - DAC Session and Event Schedule
  - DAC Reception Info
  - Other Social Events
  - DAC Executive Committee Meetings
- 75<sup>th</sup> Anniversary Outreach Grants
- Undergrad Awards
- Looking Ahead to the Dallas Meeting
- 2013 SCIX/FACSS Meeting
- Pittcon 2014 (Abstracts due 8/9)
- DAC at the Scout Jamboree

Please take the time to vote for your choice of Division leaders in the election currently underway. Through your support as a member of the Division of Analytical Chemistry, and our collective efforts, we can ensure that our field has a bright future as well as a proud history. I also encourage you to find an opportunity to become involved in Division activities and committees. If you are interested in volunteering, just send me an email at [clarive@ucr.edu](mailto:clarive@ucr.edu) and we will help to connect you with an activity that suits your talents and interests.

## **ACS ANALYTICAL DIVISION/SUBDIVISION OF CHROMATOGRAPHY AND SEPARATIONS CHEMISTRY ELECTION – DEADLINE 7/20**

The Election of Officers for the Division and for the Subdivision of Chromatography and Separations Chemistry are now underway. If you have not yet voted, please take the time to do so. Individual candidate biographies are linked from within the ballot or may be [viewed in a single PDF file here](#).

You have the option of voting over the internet. Alternatively, you may copy and paste the complete URL into your browser address field if you prefer or type in the following address in your browser <https://secure.vote-now.com/go/DAC/>. You then enter your registration code (which you should have received as an email).

You can also vote by telephone at [\(888\) 992-2825](tel:8889922825) and at the prompt, enter your voter registration code. Prior to calling, please review the candidate statements.

## **ACS FALL MEETING, INDIANAPOLIS**

The Division will have a wide variety of technical programming for the Fall National ACS meeting to be held September 8-12, 2013 in Indianapolis, IN. Registration and housing are now open on the meeting site at <http://www.acs.org/content/acs/en/meetings/fall-2013.html>

## **ANNIVERSARY SYMPOSIUM**

The coming ACS National Meeting will feature the celebration of the 75th anniversary of the founding of the Division of Analytical Chemistry. Dennis Peters has lined up a superb symposium the Tuesday morning session organized by Dennis Peters highlighting recollections of the four “fundamental” areas of analytical science over the last 75 years in Chromatography (Milos Novotny), Spectroscopy (Gary Hieftje), Mass Spectrometry (Graham Cooks) and Electrochemistry (Bill Heinemann). In addition, Dr Peters will provide some general comments about the history of the division. The symposium is scheduled for Tuesday morning, September 10.

## DAC AWARDS SYMPOSIUM

The DAC Awards session will be held on Tuesday afternoon, September 10<sup>th</sup>. This session will recognize the following for their accomplishments:

- Ryan Bailey - Arthur F. Findeis Award for Achievements by a Young Analytical Chemist.
- Charles Wilkins – Award in Chemical Instrumentation
- Peter Carr – J. Calvin Giddings Award for Excellence in Education
- Andrew Ewing – Award in Electrochemistry
- David Walt – Award in Spectrochemical Analysis

The awardees will be featured in our next issue.

## TECHNICAL SESSION SCHEDULE

All rooms are in the Indiana Conventions Center, except at noted. Invited symposia are denoted with an asterisk.

Day	AM/PM/E	Title	Room
Sunday	AM	Analytical Challenges and Applications of Nanomaterials I	111/112
		Pharmaceutical Analysis	115
		Advanced Bioanalytical Technologies for GM Detection*(co-sponsored w/AGRO)	Crown Plaza, Illinois St Ballroom East
	PM	Analytical Challenges and Applications of Nanomaterials II	111/112
		General Posters	Halls F & G
		Advanced Bioanalytical Technologies for GM Detection*(co-sponsored w/AGRO)	Crowne Plaza, Illinois St Ballroom East
Monday	AM	Analytical Methods in Forensics*	111/112
		Optical Spectroscopy of Proteins*	120
		Electroanalytical Measurements I	115
	PM	Nanoscale Analytical Chemistry*	115
		Electroanalytical Measurement II	115
		Advances in Analytical Techniques for Chemical Forensics	111/112
		Science-Based Policy Development in the Environment, Food, Health, and Transport Sectors*(cosponsored w/CINF)	140
Air Monitoring*(cosponsored w/ENVR)	Crowne Plaza, Penn Station B		

Monday	E	SciMix	Halls F&G
Tuesday	AM	Analytical Chemistry for Homeland Security	111/112
		Mass Spectrometry: New Ionizations and Reactions*	115
		75 Years of Analytical Chemistry*	120
		High-Throughput Pesticide Residue Analysis*(co-sponsored w/AGRO)	Crowne Plaza, BBO room
	PM	ACS Division of Analytical Chemistry Awards*	111/112
		Micro/Nanofluidics: Fundamentals and Applications*	115
		Frontiers in OMICS*	120
	E	Division Reception (5-7 PM)	JW Marriott Indianapolis, Grand Ballroom 3
Wednesday	AM	Advances in Analytical Spectroscopy I	111/112
		Advances in Ion Mobility Spectrometry and FAIMS*	115
		Terahertz Spectroscopy: Problem Solving for the 21 <sup>st</sup> Century	120
	PM	Advances in Analytical Spectroscopy II	111/112
		High Resolution Microscopy for Bioanalysis*	115
		Portable Instrumentation for Chemical Analysis	120
		Computational Approaches to Spectroscopy Analysis*(COMP)	136
	E	Air Monitoring*(cosponsored w/ENVR)	Halls F&G
Thursday	AM	The Science of Separation	111/112
		Developments in Mass Spectrometry	115
	PM	Capillary and Microfluidic Platforms for Bioanalytical Measurements	111/112
		Analysis of Living Systems: In Vivo and In Vitro	115

## DAC RECEPTION

The Division reception will be held Tuesday evening at the JW Marriott Indianapolis. The reception will take place in Grand Ballroom 3, 5-7 pm. Tickets may be purchased during on-line registration and will be available at the door for \$10.

## **OTHER SOCIAL EVENTS OF POSSIBLE INTEREST**

A Presidential Event Honoring the 90<sup>th</sup> Birthday of Dr. Carl Djerassi will be held in the 500 Ballroom of the Indiana Convention Center on Sunday, beginning at 1:00 PM and will be followed by a reception from 3:30 to 4:30.

There will be an author reviewer reception on Sunday evening 5-7:00 PM at the JW Marriott Indianapolis in Grand Ballroom 6

## **DAC EXECUTIVE COMMITTEE MEETING**

The Executive Committee Meeting will be held on Monday, 4-7 pm in Room 207 of the Convention center.

## **75<sup>TH</sup> ANNIVERSARY GRANTS FOR OUTREACH PROJECTS**

The Division is interested in supporting outreach projects that will inform the chemistry community and the public about the history and impact of analytical chemistry. The Division will provide up to \$500 each for up to five projects at undergraduate institutions and up to five projects at graduate institutions. Applications may be submitted by a group of institutions, such as a regional Younger Chemists Committee or Student Affiliates group. Projects could consist, for example, of a plenary lecture or symposium; an activity designed for pre-college students or the general public; or a field experience involving analytical measurements. Applications may be submitted by a group of institutions, such as a regional Younger Chemists Committee or Student Affiliates group. Applications can be submitted by email to [clarive@ucr.edu](mailto:clarive@ucr.edu) and must be received by September 30, 2013. Funding decisions will be communicated by Oct. 15, 2013. Please note: Honoraria will not be supported. Details of the program can be found here: <http://www.analyticalsciences.org/ANYL75projectrfa.pdf>

## **UNDERGRAD AWARDS**

Each year, the division solicits nominations for Undergraduate Awards in Analytical Chemistry from departments across the country. The Division presents the awardees a medal bearing the Division's logo and a letter recognizing their achievements. The students are also given a one-year on-line subscription to *Analytical Chemistry*. A list of this year's awardees (as well as those from the last few years) can be accessed from the Division's site at <http://www.analyticalsciences.org/awards.php?action=undergrad>. The awards process is carried out by Prof. Doug Beussman of St. Olaf's College.

## LOOKING AHEAD: DALLAS ACS MEETING MARCH 16-20, 2014

The Division of Analytical Chemistry is planning a symposium for the Spring 2014 National Meeting in Dallas in collaboration with the Committee on Chemists with Disabilities (CWD).

The purpose of the symposium is to show how current analytical instrumentation can be made accessible to chemists with various disabilities. Each talk will emphasize advances in analytical science, ending with an explanation of how a particular disability was accommodated in the experiments. The presentations could include video demonstrations of the instrumentation in use.

A workshop on this subject is also being considered for the Dallas National Meeting. The workshop would allow companies that provide accessible equipment to show what can be done with their instrumentation and associated systems for accessibility.

Please consider submitting a talk on your analytical research or educational project for this symposium. The focus should be on science and teaching, with discussion of a successful accommodation of a disability included in the talk. Please contact the author no later than August 30 with your idea, so that it can be included in discussions at the Indianapolis National Meeting the second week in September.

## 2013 SCIX/FACSS MEETING

The 2013 meeting of the Federation for Analytical Chemistry and Spectroscopy Societies will be held September 29-October 4 at the Hyatt Regency Milwaukee Hotel and the Delta Center, Milwaukee, WI. Housing and travel information is available at [SCIXCONFERENCE.ORG](http://SCIXCONFERENCE.ORG). The focus of the 2013 meeting is Green Chemistry.

The deadline for submission of abstracts for oral presentations has passed, but abstracts will be accepted for poster presentations through **July 31<sup>st</sup>** (which is also the deadline for revisions to abstracts). To submit your abstract, please visit the SciX/FACCS site at <http://www.scixconference.org/program/papers-submission>

## PITTCON 2014 – CHICAGO MARCH 2-6, 2014

Pittcon returns to the Windy City next spring. Authors wishing to contribute papers to Pittcon 2014 must submit a 250-word abstract for review at the submission link: <http://pittcon.org/technical-program/call-for-papers/> Once on the site, authors may choose between submission under the headings of general oral presentations, undergraduate only posters, ACS posters and SEAC posters. **The deadline for**

**abstract submission is Friday, August 9, 2013.** (*Abstracts received after the submission deadline will be automatically placed on a waiting list.*)

## **DIVISION OF ANALYTICAL CHEMISTRY CO-SPONSORS CHEMISTRY MERIT BADGE AT SCOUT JAMBOREE**

On July 15-24, 2013, more than 100 boy scouts attending the 2013 National Scout Jamboree at Summit Bechtel Family Scout Reserve in Mount Hope, WV, are expected to complete their Chemistry Merit Badge with partial support from the Division for the needed materials and supplies. The Division is also providing buttons and a brochure describing analytical chemistry and its many impacts. Analytical chemistry plays a significant role in the Chemistry Merit Badge.

As part of the process the students must learn about chemical safety, carry out activities involving “bench type” chemical reactions and food chemistry, learn about government oversight and environmental issues, and interact with chemical professionals.

The next issue will include highlights of the Division’s activities at the Jamboree.