



ACS - DAC DIVISION NEWSLETTER September 2013

LETTER FROM THE CHAIR

Dear Members,



I recently heard an NPR news story about crowd sourcing as a way to fund creative projects – like movies or new technology solutions. In crowd sourcing a loyal fan base or group of consumers interested in a new product donate funds towards a project; the project succeeds through small donations from a large group that shares a common interest. Sound familiar? It should – the members of the ACS Division of Analytical Chemistry have been crowd sourcing our professional activities for 75 years! Though annual membership dues are small (\$16 for ACS members, \$20 for non-members and \$10 for students) the combined dues from all our members enables the Division to advance and promote the field of

analytical chemistry.

Several recent examples illustrate this point. The Division supports a variety of activities that promote the field of analytical chemistry. This includes an awards program that highlights the accomplishments to the field of analytical chemistry. The Division organizes programming at the National ACS meetings and Pittcon. Because we recognize that not all of our members are able to attend these meetings, we are looking for opportunities to make meeting programs more widely available. In Indianapolis the Division is paying to capture the talks presented in the Tuesday morning session organized by Dennis Peters highlighting recounts of the development and future of the four “fundamental” areas of analytical science by Graham Cooks, Milos Novotny, Bill Heinemann, and Gary Hieftje. We plan to make these presentations available electronically following the meeting – they should very interesting for those of us old enough to have witness at the developments in these fields and will be a great addition to any analytical chemistry course.

In this issue –
DAC in Indianapolis

- Program
- Awards Symposium
- DAC reception – Tuesday – JW Marriott, 5-7, Grand Ballroom 3
- Undergraduate Awards

Spring Meeting – Dallas, March 16-20, 2014. **Abstract Deadline October 16**

75th Anniversary Activity Grants – **Deadline September 30**

2014 Analytical Division Award Nominations - **Deadline November 1**

2013 ACS Fellows
New DAC officers
Scout Jamboree

Many activities supported by the Division are designed to foster an interest in analytical chemistry among students because they are the future of our field. This includes the undergraduate

Analytical Chemistry awards given to the outstanding student each year in ACS-approved chemistry programs, Kolthoff travel awards that support undergraduates to present their research results at a National meeting, and the Division's long-standing graduate fellowship program. The Division is sponsoring \$500 grants (submission deadline 9/30) to undergraduate and graduate student groups for projects celebrating the history or impact of analytical chemistry. Examples of projects might be community outreach projects or special seminars or symposia highlighting a subfield of analytical chemistry or its application. The Division also helped to fund the Chemistry Merit Badge activities that prominently featured analytical chemistry at the Boy Scout Jamboree that prominently featured analytical chemistry. More than 350 scouts participated in activities led by 16 volunteer scout leaders (including 7 Ph.D. chemists). Activities included a mock Senate hearing on contamination of a lake which featured viewpoints from various fields of chemistry and science policy and the relationship between science and governments. Scouts also participated in experiments using various scientific techniques to carry out a simulated CSI investigation which included considerations such as sampling and separations.

In closing, I would like to thank all our members for their continued support. Working together we can help ensure a vibrant future for our field.

DAC IN INDIANAPOLIS

DIVISION PROGRAMMING

The Division of Analytical Chemistry will be sponsoring a number of symposia in Indianapolis, as well as co-sponsoring symposia with the AGRO, CINF, ENVR, and COMP divisions. Details for [sessions listed below](#) can be found on the site for the meeting

Unless otherwise indicated, sessions or events take place in the Indiana Convention Center.

PLEASE NOTE THAT SOME ROOM NUMBERS HAVE CHANGED SINCE JULY!

Day	AM/PM/E	Title	Room
Sunday	AM	Analytical Challenges and Applications of Nanomaterials I	111
		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
		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	110
		Electroanalytical Measurements I	115
	PM	Nanoscale Analytical Chemistry	115
		Electroanalytical Measurement II	110
		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	110
		High-Throughput Pesticide Residue Analysis (co-sponsored w/AGRO)	Crowne Plaza, B&O 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)	White River Ballrooms,E/F	
Wednesday	AM	Advances in Analytical Spectroscopy I	112
		Advances in Ion Mobility Spectrometry and FAIMS*	115
		Terahertz Spectroscopy: Problem Solving for the 21 st Century	111
	PM	Advances in Analytical Spectroscopy II	112
		High Resolution Microscopy for Bioanalysis	115
		Portable Instrumentation for Chemical Analysis	111
		Computational Approaches to Spectroscopy Analysis*(COMP)	136
	E	Air Monitoring(cosponsored w/ENVR)	Halls F&G
Thursday	AM	The Science of Separation	112
		Developments in Mass Spectrometry	115
	PM	Capillary and Microfluidic Platforms for Bioanalytical Measurements	112
		Analysis of Living Systems: In Vivo and In Vitro	115

DAC AWARDS SYMPOSIUM

The DAC Awards session will be held on Tuesday afternoon, September 10th in Room 111/112. This session will recognize Ryan Bailey, Peter Carr, Andrew Ewing, David Walt and Charles Wilkins. The session, which was organized by Cindy Larive, will feature talks by each of the awardees which highlight their accomplishments in analytical chemistry.

Ryan Bailey will receive the Arthur F. Findeis Award for Achievements by a Young Analytical Scientist. This award recognizes investigators less than 10 years past their highest degree who have already made outstanding contributions to the field. Ryan received his BS from Eastern Illinois University and his PhD from Northwestern University, working with Joseph Hupp. After a joint postdoctoral work with James Heath at Caltech and Leroy Hood at the Institute for Systems Biology, he joined the faculty in the Department of Chemistry at the University of Illinois at Urbana-Champaign, where he is currently an Associate Professor. Ryan is also affiliated with the University's Department of Bioengineering, Institute for Genomic Biology, Micro and Nanotechnology Laboratory, and Beckman Institute.

Peter Carr, currently Professor of Chemistry, Associate Director of the Cooperative Research Center for Bioanalytical Processing, and an Associate Member of the Graduate Faculty in Microbial Engineering at the University of Minnesota, is this year's recipient of the J. Calvin

Giddings Award for Excellence in Education. This award is presented for contributions to analytical chemistry in the form of "[e]nhancing the personal and professional development of student in the study of analytical chemistry.' Throughout his years as a faculty member, at University of Georgia and (since 1977) at University of Minnesota, Peter has made contributions in all of the educational aspects mentioned the award description – authorship of influential books and articles for analytical courses, training and mentorship, and laboratory equipment design and use.

Andrew Ewing, this year's recipient of the Division Award in Electrochemistry, will be presenting his work on separation and electrochemical measurements of transmitters in and at single cells. He will be presenting his work on "Electrochemical measurements of transmitters in flies, at cells, and from transmitter vesicles." After completing his doctoral work with Mark Wightman at Indiana and postdoctoral studies with Royce Murray, Andy joined the faculty of Penn State University in 1984. In 2007, Andy joined the faculty of University of Gothenburg. He is currently Professor of Analytical Chemistry, University of Gothenburg, Chair (Professor) of Analytical Chemistry at Chalmers University of Technology and Director of the Joint Chalmers-GU Center for Bioanalytical Chemistry.

David Walt, the recipient of the 2013 Award in Spectrochemical Analysis, will be presenting his work on "Single molecule arrays for ultrasensitive diagnostics." He is being recognized for his work on optical fiber microarrays. After receiving his BS from the University of Michigan and PhD from SUNY-Stony Brook, David carried out post-doctoral work at MIT. He joined the faculty at Tufts University in 1981, and is presently the Robinson Professor of Chemistry and a Howard Hughes Medical Institute Professor. He also holds appointments in Biomedical Engineering, the School of Dental Medicine, the Tisch College of Citizenship and Public Service, and the Sackler School of Graduate Biomedical Sciences. David is the Founding Scientist, Director, Chairman-Scientific Advisory Board, for both Illumina, Inc. and Quanterix Corporation

Charles Wilkins, University of Arkansas, is this year's recipient of the Division Award in Chemical Instrumentation. He received his BS from Chapman College, his PhD in Organic Chemistry with Professor Lloyd Dolby from the University of Oregon, and his post-doctoral training with Professor Andrew Streitwieser at UC-Berkeley. He joined the faculty of the University of Nebraska, Lincoln, in 1967 as an Assistant Professor. In 1981 he moved to the University of California, Riverside, where he rose to the rank of Distinguished Professor. Later, in 1998, he moved to his present position as Distinguished Professor of Chemistry and Biochemistry at the University of Arkansas. His current work focuses on Fourier Transform Mass Spectrometry, but he has made contributions to a number of fields – thus his presentation on "Hyphenated analysis methods: Past and future."

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

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

The ACS 2013 Fellows will be recognized at a ceremony on Monday, September 9, 2013 2-4 PM in Grand Ballroom 5 of the JW Marriott Indianapolis.

DAC EXECUTIVE COMMITTEE MEETING

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

UNDERGRADUATE 75th ANNIVERSARY POSTER AWARD WINNERS

The Division will recognize seven undergraduates for their outstanding submissions to the 75th Anniversary Poster Competition. The students are:

Katharine Lunny, St. Anselm College "Bringing the Periodic Table to New Lands"

Jessica Joslin, Adams State University, "Probing physical processes associated with nitric oxide polymer systems"

Ashli Simone, Stetson University, "LC-MS investigation into denaturation methods for the enzymatic degradation of Dextran 40kDa"

Mihir Pershad and Christopher Sato, UNC-Chapel Hill, "Dr. James W. Jorgenson: A pioneer in analytical separations"

Saylor, Rachel Ann, Kansas University, "Ralph N. Adams"

Sarah Gruba, University of Minnesota, "Izzak Maurits Kolthoff, Father of Analytical Chemistry"

Sarah Lantvit, Millikin University, "Nitric oxide's effect on protein-surface interactions"

Please join us in congratulating them at the Division Reception!

2013 ACS FELLOWS

Among the 96 members of the 2013 class of ACS Fellows are nine who are members of the Division of Analytical Chemistry. Nominations are solicited from Sections and from Technical Divisions each year. The 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. The Division extends its congratulations to Neil Jespersen, Anna Cavinato, David W. Koppenaal, Barbara Belmont, Susan Lunte, Michael Morello, Barry Streusand, George Wilson, and Steven Wise.

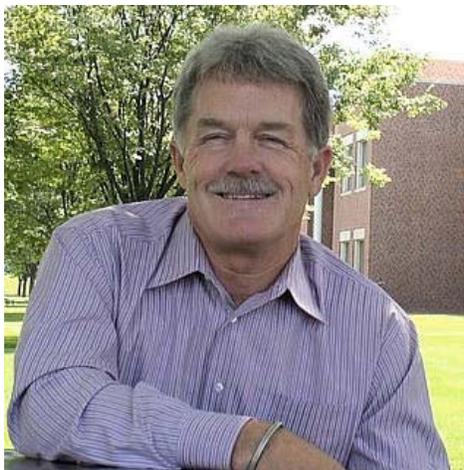
Neil Jespersen earned a B.S. in Chemistry at Washington and Lee University and his Ph.D. degree at Penn State University under Joseph Jordan in 1971. Neil began his career as an Assistant Professor at the University of Texas at Austin 1971-1977 and then moved to St. John's University in 1977 where he is now a Professor. He was awarded the E. Emmet Reid Award in College teaching in 1995 and the St. John's University President's Medal for teaching and research in 1997. Neil's contributions to the ACS include (but are not limited to) active membership in Long Island Subsection and New York Section, where he served as chair in 1991 and has served as Councilor since 1992. On the national level, he served on and chaired the Committee on Committees and was member of the ACS Board of Directors, 2010-2012.



Anna Cavinato, who received her PhD in Analytical Chemistry from University of Bari (Italy) in 1981, is Professor of Chemistry at Eastern Oregon University. Anna's work has been in the fields of spectroscopy, non-invasive analysis and chemical education. She has been recognized for her educational contributions with the Distinguished Teaching Faculty Award, Eastern Oregon University (2008); Women of Courage and Vision – President's Commission on the Status of Women, Eastern Oregon University (2007); Salute to Excellence Award, ACS Richland Section (2006); and as a Faculty Fellow, Oregon Collaborative for Excellence in the

Preparation of Teachers (1998-2002). She is also an active member of the Analytical Division, having served as Secretary of the Division since 2008, and was recently re-elected to the position. She has also served on the Committee on Project SEED (2010-present); and in several offices in the Richland Local Section. Anna has also contributed to program development on the National level as a member of the ACS-SOCED Taskforce for Undergraduate Programming at National Meetings (2003-2007) and as Program Chair, Undergraduate Program, 232nd ACS National Meeting, San Francisco, CA (2006). Anna has commented that "It is a great honor to have been selected as one of 2013 ACS Fellows. This means a lot to me! I wish to thank the Richland Local Section and the Division for their support."

David W. Koppenaal is Chief Technology Officer at the Environmental Molecular Sciences Center (EMSL) at Pacific Northwest National Laboratory in Richland, WA. Dr. Koppenaal's research interests include the development of new instrumental techniques for metallomics applications and the metallomic study of cyanobacterial systems. Dr. Koppenaal was an early proponent of



metallomics as a new science discipline, serving as an advocate and speaker on this topic since 2000, and organizing the first symposia focused on this topic in the US, and serving as co-chair of the 2nd International Metallomics Symposium in 2009. Dr. Koppenaal is well-known for his fundamental science investigations and innovations in atomic mass spectrometry, including the initial development and demonstration of effective reaction cell technology and associated ion molecule reaction approaches for interference reduction in ICPMS. More recently he has developed and applied ultra-high resolution orbital trapping techniques to metallomics applications. Dr. Koppenaal has served the ACS Analytical Division as Chair-Elect, Program Chair, and Chair, and is currently serving as Past-Chair. He is also an Editorial Board and Advisory Board member of the

RSC journals *Metallomics* and *JAAS*, respectively. He is a Fellow of both the Royal Society of Chemistry and the American Association for the Advancement of Science, and has very recently been named as Fellow of the American Chemical Society. David says, "I am quite honored to be selected as a Fellow of the ACS. I have long been a member of ACS and have really enjoyed my professional association with and service to the Society. I look forward to further and loftier representation of the Society as a new Fellow!"

Barbara Belmont is president of American Research and Testing Inc., an independent lab that tests consumer products, coatings, and materials. She is an expert in adhesives/coatings failure analysis and VOC analysis/regulations. Barbara is also a highly rated lecturer at CSU Dominguez Hills, where she teaches Quantitative Analysis and advises undergraduate research in analytical

chemistry. She serves ACS nationally as the LGBT representative to the Diversity and Inclusion Advisory Board, and has been involved with Southern California ACS local section governance for 20 years. She has a Professional Science Masters in Analytical Chemistry from Illinois Institute of Technology, and a B.A. in Chemistry and Biology from La Verne College. Barbara indicated on being named to as a Fellow, "I am most deeply touched that my Southern California local section governance colleagues nominated me for ACS Fellow. And I'm so very proud to have been selected, because it shows that all types of chemists can achieve this recognition."

Susan Lunte is the Ralph N. Adams Professor of Chemistry and Pharmaceutical Chemistry, the Director of the Adams Institute for Bioanalytical Chemistry, and the Director of the Center for Molecular Analysis of Disease Pathways, University of Kansas. Sue's educational background includes a BA in Chemistry from Kalamazoo College and a PhD in Analytical Chemistry from Purdue University (with Peter Kissinger). Sue has been recognized with a number of awards over the years, including the Higuchi Dolph Simons Jr. Award in Biomedical Sciences (2012), the American Association of Pharmaceutical Scientists Analytical and Pharmaceutical Quality Research Achievement Award (2004) and the Agnes Fay Morgan Research Award for Women in Chemistry from Iota Sigma Pi (1997). Sue has a long history of service in the ACS at large and in the Division of Analytical Chemistry itself. She was Chair of the Division in 2010-2011 and was recently elected as Alternate Councilor for the Division. Sue is also a Fellow of the Royal Society of Chemistry as well as the American Association of Pharmaceutical Scientists.



Mike Morello leads the Volatiles Research Team for PepsiCo Global Beverages R&D across the Barrington, IL and Valhalla, NY sites. Mike and his team leverage GC-MS techniques to generate foundation knowledge and insight on the volatile – mostly flavor – composition of products in the PepsiCo beverage and Quaker Oats portfolios. At PepsiCo he is a member of the Global Analytical Council, Barrington Sr. Technical Advisory Council (STAC) and is an Associate Editor for Global Beverages Editorial Advisory Board. Mike is a co-inventor on four patents, co-editor of three books and has made multiple presentations at ACS national meetings. Mike's nomination by the Agricultural and Food Chemistry Division and Divisional Activities Committee cited his service to ACS as Councilor for the Division of Agricultural and Food Chemistry, Chair of the Divisional Activities Committee, member of the Board Standing Committee on Planning, member of the Editorial Advisory Board for the Journal of Agricultural and Food Chemistry, founding member of the Multidisciplinary Program Planning Group, which identifies and coordinates National Meeting Themes, past Chair of the AGFD Flavor Chemistry subdivision, past AGFD Program Chair, and past Chair AGFD. Mike says, "It is an honor to be recognized as an ACS Fellow. The pleasure has been the opportunity to meet, interact, and develop friendships with other chemists and ACS staff, and hopefully help contribute to the success of our Society."

Barry J. Streusand is the Owner/Founder of Applied Analytical, Inc., a laboratory specializing in unique analytical chemistry, and was one of three founders of Bandgap Technology, where he invented a process that lowered the cost of ultrapure WF6 to levels practical for semiconductor manufacture. He developed techniques for analyzing highly reactive organometallic precursors/dopants at ultratrace levels; creating new analytical methods to assure product quality that replaced then current methods that involved growing semiconductors and testing for purity via electrical properties. Recently Barry was responsible for leading 16 professional scientists teaching thousands of Boy Scouts chemistry merit badge at the 2013 National Jamboree. Barry's educational background includes a BS from Texas A&M, an MS from Marquette University, and a

PhD from the University of South Carolina. Barry also did postdoctoral work at the University of Delaware in the Department of Chemical Engineering.

After receiving his PhD, **George Wilson** remained at University of Illinois as a Research Associate and Instructor in the Chemistry Department before moving to the University of Arizona. By 1979, he had attained the rank of Professor. In 1987, he moved to University of Kansas where he became the Higuchi Distinguished Chair in Chemistry and Pharmaceutical Chemistry and was, from 2004-2010, the Associate Vice Provost for Research and Graduate Studies. George's research has centered on development of new methodologies for determination of analytes in biological fluids, in particular biosensors for in vivo continuous glucose monitoring of diabetic patients and for monitoring various species in the rodent brain. He served on the Committee on Professional Training for 11 years and in the International Union of Pure and Applied Chemistry for 16 years, concluding as President of the Physical and Biophysical Chemistry Division. He says of his experience on the Committee on Professional Training that it "has indicated clearly that analytical chemistry is now more properly analytical science, reflecting the dramatic widening of its scope." George is, however, worried that many analytical laboratories have changed little over the 55 years since his own undergraduate training and hopes to see the modernization and changes that will reflect that widening scope. George's commitment to Analytical Chemistry Education was recognized in 2012 when he was awarded the J. Calvin Giddings Award for Excellence in Education. His contributions in the field of electrochemistry led to his being named the 2007 Reilley Awardee by the Society for Electroanalytical Chemistry and, in 2010, recognized as a Fellow of the International Society of Electrochemistry.

Stephen Wise is a long-time member of the staff at the National Institute of Standards and Technology (NIST). He is presently the Associate Chief of the Chemical Sciences Division at NIST in Gaithersburg, Maryland. Prior to his current position, he was Chief of the Analytical Chemistry Division (2005 – 2012) and Leader of the Organic Analytical Methods Group (1995 – 2004), Separation Science Group (1990 – 1995), and the Liquid Chromatography Group (1984 – 1990) at NIST. Stephen received a B.A. in Chemistry from Weber State University and a Ph.D. in Analytical Chemistry from Arizona State University. During his career at NIST, Dr. Wise has been involved in: (1) development of chromatographic methods for the determination of organic contaminants in environmental matrices, e.g., polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyls, and pesticides; (2) investigations of chromatographic separation mechanisms and chromatographic selectivity for PAHs and related compounds; (3) development of Standard Reference Materials (SRMs) for organic constituents in environmental, clinical, food, and dietary supplement matrices; and (4) development of environmental specimen banking procedures. He has over 300 publications in peer-reviewed journals, book chapters, and NIST special publications. Dr. Wise is currently an editor of the journal *Analytical and Bioanalytical Chemistry* and Topical Editor for *Analytical Separation Techniques* for the *Journal of Polycyclic Aromatic Compounds*. He also serves on the Editorial Board of Accreditation and Quality Assurance. He served as Chairman of the Division of Analytical Chemistry of the American Chemical Society (1996) and as President of the International Society of Polycyclic Aromatic Compounds (2003-2005). Dr. Wise received the U.S. Department of Commerce Bronze Medal Award (1989) and Silver Medal Award (2008), the 2001 Polycyclic Aromatic Hydrocarbon Research Award presented by the International Society of Polycyclic Aromatic Compounds (ISPAC), and the 2006 Harvey W. Wiley Award from AOAC International.

Dr. Wise is currently an editor of the journal *Analytical and Bioanalytical Chemistry* and Topical Editor for *Analytical Separation Techniques* for *Polycyclic Aromatic Compounds*. He also serves on the Editorial Board of Accreditation and Quality Assurance. He served as Chairman of the Division of Analytical Chemistry of the American Chemical Society (1996) and as President of the

International Society of Polycyclic Aromatic Compounds (2003-2005). Dr. Wise received the U.S. Department of Commerce Bronze Medal Award (1989) and Silver Medal Award (2008), the 2001 Polycyclic Aromatic Hydrocarbon Research Award presented by the International Society of Polycyclic Aromatic Compounds (ISPAC), and the 2006 Harvey W. Wiley Award from AOAC International.

The induction ceremony for the 2013 Fellows will be held at the 246th ACS National Meeting in Indianapolis, IN on Monday, September 9, 2013 2:04 PM in Grand Ballroom 5 of the JW Marriott Indianapolis.

TIME TO PLAN FOR DALLAS!!

The Spring, 2014 National meeting of the ACS will take place March 16-20, 2014 in Dallas, TX. The Division will be accepting submissions for contributed sessions in the following general areas

Advances in Analytical Spectroscopy	Oral
Advances in Electrochemistry	Oral
Advances in Mass Spectrometry	Oral
Advances in Separation Science	Oral
Analytical Chemistry in Energy	Oral
Environmental Analytical Chemistry	Oral
Frontiers in Bioanalysis	Oral
General Posters	

There will also be a symposium organized by Benjamin Bythell, entitled "Mass Spectrometry and related Technologies for Energy and Fuels."

Abstracts may be submitted using the [PACS system](#) and the deadline for the general sessions is **October 16, 2013**. Further information regarding the above session (and any new sessions to be added) is available on the [meeting website](#).

LAST CALL: 75th ANNIVERSARY ACTIVITIES PROPOSALS

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. 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. 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 Chapters group.

Applications must include the following information:

- First page: Title of activity; Lead institution; Project leader's name, institutional affiliation, telephone and email address; amount of requested funding.
- Second page:
 - Description of the specific proposed activity (one or two paragraphs);
 - Group targeted (graduate students, undergraduate students, pre-college students; children; general public, etc.);
 - How the activity will be publicized to reach the intended audience;
 - How the requested funds will be used, such as for speaker travel (but not honoraria); materials for a laboratory or field experience (including for safety); take-home information; etc.

Applications must be submitted by **September 30, 2013** as pdf attachments to email to clarive@ucr.edu. Decisions will be communicated by October 15, 2013, and activities may be scheduled during the 2013–2014 academic year. Questions should be directed to: Prof. Michelle Bushey by email to mbushey@trinity.edu

2014 DIVISION AWARD NOMINATIONS

Nominations are now open for the following 2014 Analytical Division Awards.

*ACS Division of Analytical Chemistry Award in Chemical Instrumentation Sponsored by the Dow Chemical Company.

*ACS Division of Analytical Chemistry J. Calvin Giddings Award for Excellence in Education

*ACS Division of Analytical Chemistry Award in Spectrochemical Analysis

*ACS Division of Analytical Chemistry Award in Electrochemistry

*ACS Division of Analytical Chemistry Arthur F. Findeis Award for Achievements by a Young Analytical Scientist Sponsored by Philip Morris USA

*ACS Division of Analytical Chemistry Award for Distinguished Service in the Advancement of Analytical Chemistry Sponsored by Waters Corporation

*ACS Division of Analytical Chemistry Award for Young Investigators in Separation Science Sponsored by Agilent Technologies

Eligibility is not restricted to members of the Division of Analytical Chemistry. Nominees for the J. Calvin Giddings Award for Excellence in Education must, however, must have demonstrated excellence in teaching through at least five years at the time the award is presented. Contributions by a candidate that have been recognized by a prior Divisional or ACS national award generally will not be considered by the jury for a Divisional award, especially if an award has been received within the past three years and within a similar area. This does not apply to the Award for Distinguished Service. Previous award winners for the divisional awards are listed below. The jury shall receive from its chairperson a list for each nominee of any such prior awards, their dates, and their citations.

Nominations for these awards should include:

1. A letter of nomination.
2. Two seconding letters.
3. A biographical statement emphasizing the accomplishments of the nominee which pertain to the award.
4. The nominating documents shall be submitted in one package and shall not exceed 8 pages of text, including the nominating and seconding letters, biographical statement, and attachments to the nomination. If the total pages for a nomination exceeds 8, then only the first 8 pages will be submitted to the jury for the award.
5. Nominating and seconding letters may be submitted by persons who are not members of the Division. Any candidate previously nominated for an award who was not chosen as the awardee will be considered for up to three additional years without further action by the nominator being required.

More specific information on each of these Awards can be found on the Division website at <http://www.analyticalsciences.org/awards.php>

For the 2014 Awards, nominations shall be sent no later than **November 1, 2013** to:
ACS Division of Analytical Chemistry
2019 Galisteo St., Bldg I-1
Santa Fe, NM 87505
Phone: 505-820-0443; Fax: 505-989-1073
Contact: Miquela Sena

NEW DIVISION OFFICERS

The Division has announced the new officers who will take on their duties this fall. **Doug Duckworth** will begin his one-year term as Chair-elect October 1, 2013, and will then serve (in successive one-year terms) as division program chair, chair, and past chair. Doug will be responsible for promoting analytical chemistry through management and organization of the Society's Analytical Chemistry technical programs and other outreach and coordination activities. Doug is a chief scientist at Pacific Northwest National Laboratories and program manager supporting projects in DOE's National Nuclear Security Administration. Doug, who holds a Ph.D. in analytical chemistry, co-edited a book *Inorganic Mass Spectrometry*, has had 45 articles published in peer-reviewed journals, and has given 23 invited presentations at national and international conferences. He served in previous leadership roles for the American Society for Mass Spectrometry. In his new role for the American Chemical Society, Doug follows Dave Koppenaal, EMSL's chief technology officer at PNNL's Environmental Molecular Sciences Center, who will complete his role as past chair of the Society's Division of Analytical Chemistry this year.



Anna Cavinato, profiled above as one of this year's class of ACS fellows, will once again take on the office of Division Secretary. Anna says "I am happy to continue serving the Division in the next two years and look forward to working on initiatives that will benefit our members".



The new Councilor for the Division, **Kimberly Agnew-Heard**, is a scientific reviewer at the Food and Drug Administration. She received her B.S. in Chemistry and Physics from Georgia State University (1992). Her Analytical Chemistry graduate studies included receiving a M.S. under the direction of Dr. Isiah Warner at Louisiana State University (2000) and a Ph.D. from Georgia State University (2002) with Dr. Gabor Patonay. Her research interests included chiral separation of small molecules with micellar electrokinetic capillary electrophoresis and spectroscopic analysis of near-infrared dyes. Upon completing graduate school, Kimberly worked as a method and development separation scientist at Aptuit (currently known as Catalent) in Kansas City, MO and senior scientist at Boston Scientific located in Maple Grove, MN.

Kimberly's professional honors have included Boston Scientific Interventional Cardiology R&D Recognition for Outstanding Contribution (2007), and Boston Scientific Field Sales Leadership Mentoring Circle (2009 and 2010). Most recently she was awarded the Center for Tobacco Products Team Excellence award this past June. She has actively participated in ACS as the ACS Division of Analytical Chemistry alternate councilor and Facebook

page editor (2011-2013), and ACS Project SEED committee member (2013). She also has been a member of NOBCCChE (1994-present),

Susan Lunte, also profiled above as one of the 2013 ACS fellows, will become Alternate Councilor for the Division.

2013 SCOUT JAMBOREE

From July 15th through July 24th, almost 50,000 Scouts converged on the Summit Bechtel Reserve in West Virginia for the 2014 Scout Jamboree, where the Analytical Division was one of the sponsors of the Chemistry Merit Badge booth. Despite rain and high humidity (which is not ideal for some of the instruments loaned to the effort by universities and industry), a team of volunteers including seven chemists offered a number of training sessions, including one focusing on safety information (with demonstrations). They also led participation in a mock Senate hearing on contamination of a lake (which featured viewpoints from various fields of chemistry and varying viewpoints on science policy and the relationship between science and governments), and helped in use of various scientific techniques to carry out a simulated CSI investigation which included considerations such as sampling and separations. A full description of the activities, as well as more pictures of volunteers and the 2,000 participants, can be found in the final report from the Jamboree at <http://www.analyticalsciences.org/Chemistrymeritbadgefinalreport2013.pdf>.



Staff Front Row: Nana Lopez, DDS; Barry Streusand, PhD (Applied Analytical); Arlene Garrison, PhD (ORAU); Donna Huryn, PhD (University of Pittsburgh); Wayne Courreges; Travis Hildebrand. **Second Row:** Tom Horn, JD (ATT); Lisa Balbes, PhD (Balbes Consultants); Rein Kirss, PhD (Northeastern University); John Garrison, PhD; Gary Whitman; Phil Gaarenstroom, Ph.D; Jay Kostman MD (University of Pennsylvania); Doc Middleton MD. **Third Row:** Matt Lasater, PhD (Thermo Fisher Scientific); Michael Verschoor---Kirss.



Two scouts discuss the best way to mix oil and water.



Nana Lopez, DDS and Barry Streusand, PhD demonstrate how chemically modifying cotton balls can make them much better, or much worse, as fire starters.



Gary Whitman and scout assistant create a cascade of foam known as Elephant Toothpaste (H_2O_2 and KI)



Michael Verschoor-Kirss sets up a gel electrophoresis experiment while scouts look on



Scouts help Matt Lasater, PhD, identify the perpetrator of a "crime" by comparing gel electrophoresis patterns from DNA left at the crime scene with DNA from 4 "suspects".