

## From the Chair



### **Dr. Isiah M Warner** **Division Chair**

Dear Colleagues,

As I contemplate this new leadership challenge which lies before me, I want to share with you a few thoughts about the current status of our Division of Analytical Chemistry Executive Committee.

We have a strong and vibrant executive committee eager to serve you. The Past Chair, Dr. Laurie Locascio of NIST, is without a doubt a remarkable leader and administrator. I have noted Laurie's leadership skills and tireless energy as a frequent visitor to NIST and more recently as I have worked closely with her on the division's executive committee for the past two years. Let me cite just a few of Laurie's accomplishments during her two terms as Chair.

- Restructured the executive committee for improved functioning and better distribution of responsibilities
- Accepted a second term as Chair in order to implement the new executive committee structure
- Improved web service and formal partnership with the Analytical Sciences Digital Library (ASDL)
- Established trial partnership with PITTCON for better Spring programming
- Creation of a separate division office in order to better define responsibilities of division officers
- Creation and initiation of a strategic plan to define future division goals and expected outcomes
- Enhanced benefits for membership in the division (to be continued on p2)

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## **Field & Franklin Award for Outstanding Achievement in Mass Spectrometry Symposium Honoring Catherine Fenselau**

*Sponsored by Waters Corporation*

The 2008 ACS Field and Franklin Award for Outstanding Achievement in Mass Spectrometry has been presented to Catherine C. Fenselau. Catherine has volunteered tremendous amount of time and effort to the Analytical Chemistry Division. She is currently a Division Councilor and has served as a Chair-Elect, Chair, and Past Chair of the Division in the recent past. We hope that every Division member will join us in congratulating Catherine with this well-deserved recognition of her scientific achievements. A special Analytical Chemistry Division symposium in her honor was held during the Fall 2008 ACS national meeting in Philadelphia. The "Chemical Innovations for Proteomics" symposium featuring Catherine's talk of "Residue-specific chemical cleavage for proteomics" was organized by Susan Weintraub. The speakers included Graham Cooks, Catherine Costello, Robert Cotter, Scott McLuckey and Vicki Wysocki among others. University of Maryland hosted an award reception at the fall meeting. (To be continued on p3)



## From the Chair

(Continued from page 1) There are certainly more accomplishments which can be cited. However, there is no doubt that any one of these accomplishments would be a major achievement for a single Chair of the division. Clearly, it will be difficult for me to fill the shoes of this very talented young woman. However, I look forward to the challenge, particularly since she leaves the division in such excellent shape.

If I were to compare our executive committee operations to a Star Wars operation, then Laurie Locascio would definitely be a combination of Princess Leah and Luke Skywalker. However, the character of Yoda would have to be assigned to Past-Past Chair Chris Enke. Without a doubt, Chris has been a very wise advisor to the entire executive committee. While he has provided great energy and counsel to the committee, he has also performed numerous tasks such as writing proposals to support our many efforts. I should note that Chris will be stepping down from the executive committee. However, I am thankful that he will only be a phone call away since I will be calling him.

Finally, as I assume the position of Chair of the ACS Division of Analytical Chemistry, I look forward to receiving feedback from all of you regarding the status and direction of the division. I promise that I will do my best to be an effective and accessible Chair of the division just as Dr. Locascio has been. Also, please contact me or any member of the executive committee about getting more involved in division activities. We need the help of all of you in order to be more effective servants for you.



Dr. Chris Enke (center)  
at the 2008 ACS Fall Division Dinner

## Letter from the Past Chair



### We're going places- come along!

#### Dr. Laurie Locascio

First of all, I want to extend my warm welcome to Isiah Warner as your new Chair. I cannot imagine having a better replacement, as he is a man with a unique combination of great vision, integrity, and kindness. I look forward to working as Past Chair under his leadership. I also want to thank my colleague and friend over the past several years, former Chair Chris Enke, who is stepping down from the Executive Committee as his term has ended. It is rare to have the opportunity to work with a person of such vast energy, enthusiasm and dedication. He has encouraged me and constantly inspired me to be a better leader over the two years that I was fortunate to serve as Chair. As a result, I believe that we were able, as a team, to accomplish quite a few changes for this Division.

When I took this position, I did not realize that I would have the chance to work so closely with such an amazing group of people as those on your Division Executive Committee. I would encourage our members to become more actively involved with the division so that you too can meet and interact with other division volunteers. This year, we will be asking for members to actively participate in our more recently established committees. Please see the division website for a complete listing of the division committees and consider volunteering. We need your help to continue to grow and change to make this a more vital division for our future.

In that respect, I look to the new leadership to set the directions for the division and I will provide as much support as I can. We will continue along the path of the strategic plan that we crafted more than two years ago, but I am certain that it will be adapted with the new Chair's vision. Continue to provide your input along the way- it is critical that we hear from you so that we can be responsive to your needs.

We're going places- come along!

## Field & Franklin Symposium Honoring Fenselau

(Continued from page 1) "A pioneer in the development and application of mass spectrometry in the biological arena" is how one colleague characterized Catherine Fenselau. Another called her an individual with "a distinguished record as an organic chemist, pharmacologist, biochemist, analytical chemist, and mass spectrometrists over a professional career of four decades," as reported in C&EN (January 7, 2008, Volume 86, Number 1, p. 28).

Catherine's breadth of research interests is truly unique. Her research has spanned a broad range of mass spectrometry (MS) topics from fundamental gas-phase ion chemistry to modern bioanalytical applications.

In 1973, Catherine's group identified the active metabolite of the anticancer drug cyclophosphamide. They characterized the drug laetrile by finding that it was a glucuronide conjugate. In 1983, years before the development of electrospray and matrix-assisted laser desorption/ionization (MALDI) techniques, Catherine recognized the importance of sorting out the isotopic patterns of large biomolecules in MS analysis. In an early use of electrospray MS, Fenselau and coworkers showed that a key insulin hexamer held together by two zinc ions also complexes six water molecules. Fenselau's group was one of the earliest to appreciate the value of tandem MS (MS/MS) in the analysis of complex mixtures and was one of the first to obtain a four-sector MS/MS instrument. This instrument provided the first determination of the proton affinity of arginine. The proton affinity scale of the twenty common amino acids determined by Catherine and co-workers is still widely cited after almost two decades in press. Same can be said about the development of the extended kinetic method by her group.

Recently, Catherine's group has studied posttranslational modifications in proteins with both bottom-up and top-down MS approaches (with and without prior fragmentation, respectively). The group has developed a MALDI-MS approach to carry out proteomics-based rapid characterization of airborne pathogens. An aspartate-specific chemical cleavage method that complements the use of trypsin for preparing samples for bottom-up proteomics studies was introduced by Catherine and her coworkers. And their use of enzymatic proteolysis to incorporate  $^{18}\text{O}$  labels into peptides to quantitate proteins has had an important impact on the development of proteomics.

A professor and former chair of chemistry and biochemistry at the University of Maryland, College Park, Fenselau formerly served in the same roles at the University of Maryland, Baltimore County. She received a bachelor's degree from Bryn Mawr College and earned a Ph.D. at Stanford University. Fenselau was president of the American Society for Mass Spectrometry from 1982 to 1984 and president of the U.S. Human Proteome Organization from 2004 to 2006. She has served as an associate editor of *Analytical Chemistry* since 1990, has been on the advisory board of the *Journal of Proteome Research* since its inception in 2001, and has also served on the advisory boards of *Chemical Research in Toxicology* and *C&EN*. Her previous honors include the 2005 Hillebrand Prize of the Chemical Society of Washington and the 1985 Garvan Medal. Her husband, professor of pharmacology and molecular sciences Robert J. Cotter of Johns Hopkins School of Medicine is another prominent mass spectrometrists. (Victor Ryzhov, Xudong Yao)



2008 recipient Catherine C. Fenselau (center) is presented her award by sponsor representative Dorothy J. Phillips (left) and ACS President Bruce E. Bursten (right). *Courtesy of American Chemical Society and Peter Cutts Photography.*

### ANYL and ASDL websites

The ANYL Web Committee members were called for a meeting at Philadelphia by the committee chair Steve Petrovic. Many functional improvements of the division website ([www.analyticalsciences.org](http://www.analyticalsciences.org)) are upcoming. Progress in the Analytical Sciences Digital Library (ASDL) website ([www.asdlib.org](http://www.asdlib.org)) was also updated during the meeting; undergraduate students are encouraged to publish their work with ASDL.

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# Twenty Five Years' Support from Dow Chemical Company

*By Carolyn Ribes*

For the past 25 years, the Dow Chemical Company has sponsored the ACS Division of Analytical Chemistry Award in Chemical Instrumentation. This award is presented annually to chemists who have advanced the field of chemical instrumentation through innovations in development or application of instrumentation in chemical measurement. Past recipients of this award have made contributions in all subdisciplines of analytical chemistry (mass spectrometry, separations sciences, NMR, electrochemistry, optical spectroscopy, microfluidics, etc).

In addition to applying analytical technology, Dow has a long history of innovation and development of analytical instrumentation. Dow chemists have been pioneers in size exclusion chromatography/gel permeation chromatography, ion chromatography, accelerated rate calorimetry, high temperature asymmetrical field flow fractionation, and other forms of polymer and chemical analysis. Many commercial systems include functionality that was invented by Dow researchers.

This milestone was celebrated at a symposium on Monday, August 18 at the ACS National Meeting in Philadelphia. The 2008 award recipient, Gary Horlick, University of Alberta, presented his award address entitled "Building and Characterizing Atomic Spectrochemical Instrumentation". Five past award recipients shared their predictions on where they think chemical instrumentation in their field will be in 10 years and briefly addressed the status of chemical instrumentation when their awards were received. This symposium was sponsored by The Dow Chemical Company.



Carolyn Ribes (right) represents the Dow Chemical Company receiving the division's appreciation from the chair Laurie Locascio (left) at 2008 Fall ACS meeting in Philadelphia.

The Division of Analytical Chemistry extends its appreciation to The Dow Chemical Company for sponsoring this award for 25 years (photo).

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## **Division Officer Election Results**

The following have been elected by the Division membership: Chair-Elect: Susan Lunte; Treasurer: Gary Van Berkel; Councilor: Michelle Buchanan; Alternate Councilors: Henry Blount and David Pinkston.

**Secretary's  
Corner**  
Anna Cavinato

## **Subdivision Officer Election Results**

The following have been elected by the Subdivision of Chromatography and Separation Chemistry membership: Secretary: Robert Stevenson; Executive Committee members: John Hinshaw and Kate Rimmer.

## **2009 Division of Analytical Chemistry Awards**

Nominations for the seven division awards are due by November 1, 2008! Please see the division website for more information on the awards. All nominations should be submitted electronically to the Past Chair, Laurie Locascio ([locascio@nist.gov](mailto:locascio@nist.gov)).

## **Kolthoff Award Applications Invited**

The I.M. Kolthoff Enrichment Awards for undergraduate students provide travel funds for participation in the Spring ACS Meeting in Salt Lake City. [Applications are invited now](#) and must be submitted by October 31, 2008.

**Award in Chemical Instrumentation**  
**Sponsored by the Dow Chemical Company**

**Gary Horlick**  
**University of Alberta**

Gary Horlick is an Emeritus Professor of Chemistry at the University of Alberta in Edmonton, Alberta, Canada. He received a B.Sc. (Hons) degree from the University of Alberta in Edmonton, Alberta in 1965 and a Ph.D. degree in 1970 from the University of Illinois in Urbana, Illinois, under the direction of Professor H.V. Malmstadt. He joined the Department of Chemistry at Alberta in 1969 directly after finishing his studies at the University of Illinois. His research interests are in the general area of analytical spectroscopy with emphasis on the development of new methods and systems for elemental analysis. Both the inductively coupled plasma (ICP) and the glow discharge (GD) have been developed and studied as sources for both atomic emission spectrometry (ICP-AES and GD-AES) and mass spectrometry (ICP-MS and GD-MS). In addition, studies of electrospray ionization mass spectrometry (ESI-MS) as applied to the determination of the elemental composition of solution samples have been carried out. A continuing interest in the laboratory is the development of new spectrochemical measurement systems. Specific systems have been developed based on photodiode arrays, acousto optic tunable filters (AOTF's) and Fourier transform spectrometers.



He has published over 150 papers dealing with his research studies and presented over 400 talks at conferences and university, government, and industrial laboratories of which 300 were invited lectures. Under his supervision, 37 students have received Ph.D. degrees, 9 students have received M.Sc. degrees and 11 students have pursued postdoctoral studies in his laboratories.

He has served on the Instrumentation Advisory Panel of *Analytical Chemistry*; the editorial boards of *Mikrochimica Acta*, *Canadian Journal of Spectroscopy*, *Progress in Analytical Atomic Spectroscopy*, and the *Journal of Analytical Atomic Spectroscopy*; the awards committees of the Spectroscopy Society of Canada and the Analytical Division of the CIC; and the publications committee of the Society of Applied Spectroscopy. He was chairman of the Gordon Research Conference on Analytical Chemistry in 1984, a member of the NSERC Grant Selection Committee for Chemistry from 1988 to 1991, Editor of *Spectrochim. Acta Part B* from 1980-1983 and Analytical Editor of the *Canadian Journal of Chemistry* from 1990-1994. In 1977 he received the Barringer Research Award of the Spectroscopy Society of Canada, the Meggars Award of the Society for Applied Spectroscopy in 1985, and the Fisher Scientific Lecture Award from the Chemical Institute of Canada in 1987. During 1987/88 he was a McCalla Research Professor at the University of Alberta and received an Alberta Achievement Award from the Province of Alberta in 1988. In 1989 he received the Lester W. Strock Award of the Society for Applied Spectroscopy and he was elected as a Fellow of the Royal Society of Canada in 1990. He and his students were recipients of the *Spectrochimica Acta Atomic Spectroscopy* Award in both 1990 and 1992. In 1994-95 he was awarded a Killam Annual Professorship by the University of Alberta and in 1996 he received the Spectrochemical Analysis Award from the Analytical Division of the American Chemical Society. He served as Chair of the Department of Chemistry from 1996 to 2001 and in 2003 received the Pittsburgh Spectroscopy Award.

**Call for Newsletter Contributions and Change of the Newsletter Editor**

**Thanks Victor Ryzhov for his Newsletter service (2004-2008)**

News or photos to share? Information to distribute?

Please contact the new Newsletter Editor Xudong Yao by email: [x.yao@uconn.edu](mailto:x.yao@uconn.edu).

**J. Calvin Giddings Award for Excellence in Education**  
**Sponsored by the Division of Analytical Chemistry**



**Yinfa Ma**  
**Missouri University of Science and Technology**

Yinfa Ma received his BS degree in chemistry at December 1981 at Zhengzhou University in China and retained at the same university as a director of undergraduate studies of class 1981 and then an instructor in Analytical Chemistry. Ma received his Ph.D. in analytical chemistry and minor Ph.D. in biochemistry in December 1990 from Iowa State University. From January 1991 to 2001, Ma serviced as assistant professor and associate professor in chemistry at Truman State University (Kirksville, MO). He moved to chemistry department at Missouri University of Science and Technology (formerly University of Missouri-Rolla) in the year of 2001. During his services at Truman State University and University of Missouri-Rolla, he has co-organized the APCE international conference (Asian-Pacific Capillary Electrophoresis and Related Microscale Separation Techniques) in 1998 at Dalian, China and in 2002 at Shanghai, China. He serves on the scientific committee since APCE was first initiated in 1996. He

also serves on the science committee for Chinese Capillary Electrophoresis (CCE) since 1993. In addition, he has received numerous awards for his teaching and research. The major ones are: Missouri Professor of the Year (1996), Governor's Award (1996, 2008) and Outstanding Scientist Accomplishment Award (1998), Educator of the Year (1996), Researcher of the Year (1995), Golden Apple Award (1998), Wilbur Tappmeyer Outstanding Teaching award, University of Missouri-Rolla (2002, 2005), Outstanding Teaching Award, College of Arts and Science, University of Missouri-Rolla (2002, 2005, 2006), Dean's Teaching Scholar (2004-2007), UMR Outstanding Teaching Award (2006-2007), Faculty Excellence Award (2007). He was named as an Honored Professor of Zhengzhou University in 1994, and Honored Professor of Dalian Institute of Chemical Physics, Chinese Academy of Science, December 2000. He was named Curator's Teaching Professor in December 15, 2007.

Ma's research group focuses on bio-analysis and environmental analysis, including DNAs, proteins, peptides, amino acids, small molecules, cancer markers and other biological compounds, pesticides and herbicides and their degradation products. Research is conducted using high performance liquid chromatography (HPLC), high performance thin layer chromatography (HPTLC), high performance capillary electrophoresis (HPCE), GC-MS, HPLC-MS-MS, HPCE-MS, gel electrophoresis, ion chromatography, and size-exclusion chromatography, in an attempt to develop new analytical instrumentation and procedures. Laser spectroscopy, standard "wet" chemistry plus the extensive use of personal computers for data collection and data processing are also incorporated into all of the research projects. Ma has published over 67 peer-reviewed papers, gave over 169 presentations at national and international conferences and generated 9 patents.

**Analytical Division – Support of Symposia at Regional ACS Meetings**

The Analytical Division has a speaker's fund to help support programming at the regional American Chemical Society meetings. Awards will generally be made to support a thematic symposium. Funds can be used to support travel expenses of an expert in the field who would not normally attend that particular regional meeting. It is expected that local speakers will then be included to fill out the symposium. Alternatively, funds can be requested to provide more modest levels of support to several speakers from the region. The Division will help regional planners identify possible speakers for symposia topics, if necessary. Applications for support are considered on a rolling basis until the yearly allocation of funds has been expended. There is no formal application process. Anyone interested in applying for an award should contact Nadja Cech ([nadja\\_cech@uncg.edu](mailto:nadja_cech@uncg.edu)) by email to discuss the nature of the symposium and the funds that are needed to help support the program. **Note: Funds are still available for support of symposia in 2008. Apply now.**

### Award in Spectrochemical Analysis



**Isiah M. Warner**  
**Louisiana State University**

Isiah M. Warner received his B.S. in chemistry from Southern University in 1968. He was a research chemist with Battelle Northwest (Richland) for five years. He entered graduate school at the University of Washington (1973) and received his Ph.D. in 1977. He was assistant professor of chemistry at Texas A&M University from 1977-82, was awarded tenure, and promoted to associate professor (effective September 1982). He joined Emory University in 1982 as associate professor, was promoted to full professor in 1986, and named Samuel Candler Dobbs Professor of Chemistry (September 1987). In August 1992, he joined LSU as Philip W. West Professor of Analytical Chemistry. He was Chair of the Chemistry Department from July 1994-97, and appointed Boyd Professor of the LSU System in July 2000; Vice Chancellor for Strategic Initiatives in April 2001, and Howard Hughes Medical Institute Professor in 2002. Isiah Warner has close to 300 refereed articles with research primarily in the areas of spectroscopy, separation science, and nanomaterials. He has been issued six patents for his work, with three others pending. He has chaired 39 doctoral theses and is currently supervising 14 others. Honors include: 2008 ACS Division of Analytical Chemistry Award in Spectrochemical Analysis; 2007 Anachem Award on October 16, 2007; 2006 Southern Chemist Award, ACS – Memphis Section, December 7, 2006; Baneker Legacy Award, Benjamin Baneker Institute, November 17, 2006; Marquette University, honorary Doctor of Science degree, May 22, 2005; Tuskegee University, George Washington Carver Achievement Award, January 27, 2005; University of Washington, College of Arts & Sciences, Distinguished Alumnus Award, May 20, 2004; ACS Award for Encouraging Disadvantaged Students into Careers in the Chemical Sciences, 2003; Fellow of the American Association for the Advancement of Science, 2003; Howard Hughes Medical Institute Professor, 2002; CASE Louisiana Teacher of the Year, AAAS Lifetime Mentor Award, Eastern Analytical Symposium Award, 2000; 1998 Fulbright Fellowship for Research/Teaching in Kenya; 1997 Presidential (Clinton) Award for Excellence in Science, Mathematics, and Engineering Mentoring; NOBCCHE Award for "Outstanding Teacher", 1993; NOBCCHE Percy Julian Award for Outstanding and Significant Contributions in Research, 1988; NOBCCHE Outstanding Graduate Research Award, 1976.

### Award in Electrochemistry

**Richard Crooks**  
**University of Texas at Austin**

Richard M. Crooks received a B.S. degree in Chemistry from the University of Illinois at Urbana-Champaign in 1981. During his undergraduate studies he was a member of Prof. Larry Faulkner's research group and studied adsorption of organic molecules onto mercury electrodes. His doctoral studies with Prof. Allen J. Bard at the University of Texas in Austin focused on the examination of electrochemical processes in supercritical fluids. He studied chemical sensors in the group of Prof. Mark S. Wrighton at MIT from 1987-1989. Prof. Crooks started his independent career in 1989 as an assistant professor of chemistry at the University of New Mexico and then moved to Texas A&M University in 1993. In 2005 he returned to the University of Texas where he is presently a professor of chemistry. His interests include synthesis, characterization, and electrocatalytic properties of nanoparticles, analysis in microfluidic electrochemical cells, and bioelectrochemistry. He has published 190 peer-reviewed research papers and is a recent recipient of the Carl Wagner Memorial Award of the Electrochemical Society.



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



**Laurie E. Locascio**  
**National Institute of Standards and Technology**

Dr. Laurie E. Locascio is the Chief of the Biochemical Science Division within the Chemical Science and Technology Laboratory, National Institute of Standards and Technology. In this position, she oversees a research portfolio that includes measurements and standards for forensic DNA analysis, DNA and RNA microarrays, tissue engineering, biological applications of microfluidics, DNA damage and repair, biosecurity, nanomaterial toxicity, flow cytometry, cellular biometry, fluorescence and Raman analysis, biomarker identification, structural biology, biofuels, and genetically modified organisms. She received her B.Sc. in Chemistry from James Madison University, M.Sc. in bioengineering from the University of Utah, and Ph.D. in toxicology from the University of Maryland at Baltimore medical school. She has published more than 100 scientific papers, and holds 6 patents with 2 additional pending in the fields of microfluidics, biosensors and sensor/flow systems. Some of her honors and awards include the US Department of Commerce Silver Medal, US Department of Commerce Bronze Medal Award, and the National Institute of Standards & Technology Applied Research Award. She is currently the Chair of the Division of Analytical Chemistry of the American Chemical Society. She is also an editorial board member for Annual Reviews in Analytical Chemistry, and Ex Officio member of the editorial advisory board for the journal Analytical Chemistry.

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

**O. David Sparkman**

Professor Sparkman was educated at the University of North Texas (1961–1965). He is currently an Adjunct Professor of Chemistry at the University of the Pacific in Stockton, California; an Instructor in Mass Spectrometry for LC Resources, Inc.; a Consultant to the National Institute of Standards and Technology Mass Spectrometry Data Center; President of ChemUserWorld.com; 2008 recipient of the American Chemical Society's Analytical Chemistry Division's Award for Continuing Contribution to Analytical Chemistry, and a former ASMS Member-At-Large for Education. Professor Sparkman is the author of *Mass Spectrometry Desk Reference*, 1st ed. (2000), 2nd ed. (2006) Global View Publishing; and coauthor with J. Throck Watson of *Introduction to Mass Spectrometry: Instrumentation, Applications, and Strategies for Data Interpretation*, 4th ed. John Wiley & Sons, October 2007; 2nd and 3rd printings 2008. He has authored a column, appearing in *J. Am. Soc. Mass Spectrom.*, entitled "What is New in Mass Spectrometry at PittCon" every year since 1994. He has published over 100 scientific articles, book chapters, and reviews in addition to making a significant number of conference presentations. At the University of the Pacific, Professor Sparkman teaches courses in mass spectrometry and analytical chemistry and manages the mass spectrometry facility. Currently, he is the director of four different courses in mass spectrometry for LC Resources, holds positions on the Editorial Advisory Boards of the *European Journal of Mass Spectrometry* and the HD Science *GC/MS Update – Part B*, is a former member of the Continuing Education Committee of the ACS, and is the Book Review Editor for the *European Journal of Mass Spectrometry*. He is a member of the Editorial Boards of the John Wiley *Encyclopedia of Environmental Analysis and Remediation* and *Encyclopedia of Analytical Chemistry*, editor of and a contributor to the Mass Spectrometry



## Recipients of the Division of Analytical Chemistry Awards 2008

Section of the *Encyclopedia of Analytical Chemistry*, and a contributor to the *Encyclopedia of Environmental Analysis and Remediation*. He is a consultant to several different mass spectrometry companies, both hardware and software. Along with J. Throck Watson, he developed the *Mass Spectral Interpretation Quick Reference Guide*.

O. David Sparkman has been a member of ASMS since 1977 and the ACS since 1967. He is also a member of AAAS. He has served appointed positions for various ASMS committees as well as chairing several sessions at the annual ASMS Conference. He is also a past president of the Bay Area Mass Spectrometry Society and a former member of the ACS Software Advisory Committee.

O. David Sparkman's current research interests include the use of EI mass spectral databases in evaluating spectra produced by ion activation; the use of DART mass spectrometry as an analytical tool; and he also studies operational parameters in various types of  $m/z$  analyzers that affect electron ionization mass spectra. He also provides general consulting service in chromatography/mass spectrometry.

### Photos from the 2008 ACS award reception and division dinner at the Chemical Heritage Foundation in Philadelphia (Organized by Dorothy J. Phillips)



## Subdivision of Chromatography and Separations Chemistry



### From the Chair,

Susan Olesik,  
olesik.1@osu.edu

The Pittsburgh Conference will be especially significant this year, in that the SCSC will be celebrating its 25<sup>th</sup> Anniversary.

Starting Sunday afternoon, March 8, 2009 one symposium per day will be offered that highlights chromatography and separation chemistry's past and future contributions to the advancement of science.

The topics highlighted in the symposia are:

Evolution of Modern Chromatography: Celebration of 25 years of the SCSC

The Future of HPLC Method Development: Quality by Design Evaluating the Control Space of Robust HPLC Methods

Biological Applications of Capillary Electrophoresis

New Dimensions in Multidimensional Separation

Pressurized Fluids in Analytical Separations Technology

*This is a spectacular lineup. Please plan to attend!*

### Strategic Planning for the Subdivision

As we come closer to marking our anniversary. We should look to the future as a subdivision and as ourselves what value the SCSC currently provides to its membership and what should be offered in the future.

Through Professor Lisa Holland's leadership, one aspect of subdivision's offerings where you will soon notice change is the subdivision web page. Please look for improvements in the webpage in the coming months.

### INVITATION TO ANNUAL MEETING of the SCSC

You are invited to participate in the annual business meeting of the SCSC. The meeting is scheduled for Monday, March 9<sup>th</sup>, 2009 in room W192a in the McCormick Convention Center from noon until 2:00 pm. The meeting is open to anyone with an interest in chromatography and separations chemistry.

The agenda will include the selection of session topics future National ACS meetings and for the ACS subdivision's contributions to the 2010 programming for the Pittsburgh Conference, nomination of officers for the SCSC, status of the Young Investigator Award, discussion of the SCSC web site and new business. Please contact Robert Stevenson with agenda additions, rlsteven@comcast.net

### Election Results

The SCSC selected John Hinshaw and Kate Rimmer as new members of the Executive Committee of the Subdivision. Robert Stevenson was elected Secretary of the subdivision. This year the election was held electronically from mid June through July. Campus Vote.com

hosted the election. The price of the voting electronically was the same as the cost of holding election using the postal mail protocol used previously.

Results: 344 ballots were tallied. This is approximately 50% more than in the past. Campus vote included a space for comments. The comments were favorable or better.

Some data points: The initial e mail distribution was sent to 1719 individuals. 127 of those e mail addresses bounced. For the bounced e mail addressed and those members who have not provided e mail addresses to the ACS, ballots were sent by postal mail. Of the 202 postal mail ballots that were sent, nine ballots were recorded.

If you have changed companies or have changed the e mail address that you use for business communications, please update the ACS.

### ACS Division of Analytical Chemistry Award for Young Investigators in Separation Science (ANAL. YISS)

Professor Nelson Torto, Department of Chemistry, University of Botswana, has been selected as the recipient of the 2008 ANAL. YISS award recipient. The symposium honoring Professor Torto will be held on Wednesday, March 11, 2009 at the Pittsburgh Conference.

The nominations for the 2009 Award are currently sought. The deadline for nominations is Nov.1. See <http://www.analyticalsciences.org>

rg for information on the nomination process.

**Fall 2008 ACS National Meeting, Philadelphia, PA Programming**

The SCSS would like to thank John Lyons for organizing a symposium on Non SEC Separations of Synthetic Polymers.

We also congratulate Frantisek Svec for receiving the ACS Award in Chromatography. The symposium honoring this achievement was also held at the fall ACS meeting

**Fall 2009 ACS National Meeting, August 16-20, 2009 Washington, DC**

We plan to have both invited and contributed sessions. Please send your ideas on possible sessions to the Brian Bidlingmeyer, program chair, [brian\\_bidlingmeyer@agilent.com](mailto:brian_bidlingmeyer@agilent.com)

**SCSS Officers**

**Chair**

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**Call for Papers for 237<sup>th</sup> ACS National Meeting**

Abstracts are now being accepted through Oasys for the ANYL Spring 2009 program at 237th American Chemical Society National Meeting in Salt Lake City, UT. Deadline for submission is October 25, 2008.

**Call for Symposia Organizers, Topics and Contributed Paper Sessions Topics/Chairs**

The 238<sup>th</sup> American Chemical Society National Meeting will be held in Washington DC from August, 16-20, 2009. The theme for this conference is *Chemistry and Global Security: Challenges and Opportunities*. Please contact the division program chair if you would like to suggest a topic and chair a session for contributed papers or alternatively, if you would like to organize a symposium (cosponsored symposia welcomed). Program Chair: Dorothy Phillips, [dorothy\\_j\\_phillips@waters.com](mailto:dorothy_j_phillips@waters.com).

# Treasurer's report

By Al Ribes

These are exciting times for the Division. The roll out of the Division's 2006 strategic plan is proceeding at a good pace, already having resulted in an increase of the Division's offerings, such as programming at Pittcon, entering an alliance with the Analytical Sciences Digital Library, offering members recorded seminars on the Division's web site, and providing the members with free-of-charge subscriptions to the publication "Analytical Reviews".



While the financial health of the Division is currently good (see below), these and other new initiatives in the works will require increased long term financial support to make them sustainable.

To help with the effort of raising funds, the Division has made it convenient for academic institutions, corporations, and individual supporters of the Division to contribute by means of VISA card donations at <http://www.analyticalsciences.org/index.php>. This new fundraising tool has proven useful since its inception; we have received over \$1,000 in donations by this means.

As part of the Division's strategic plan changes, the office of the Treasury is also being impacted. Starting next year, the treasurer will take on a more strategic role and devote energy to insuring that the Division secures financial resources to support its expanded activities. The day-to-day bookkeeping will be handled by the new Analytical Division Office, staffed with professional clerical support. The office will provide a higher capacity for increased number of transactions, more timely service, and continuity when treasurers change.

## Summary for YTD 2008

The 2008 approved budget for the Division was roughly \$300,000. During 2008, the Division continued to support its core programs, such as organizing and providing financial support for national and regional symposia (as of Aug 08, having spent roughly in excess of \$33,000 in this area), student fellowships (\$82,000), several professional recognition awards (\$18,000), funding student attendance to scientific meetings (\$3,000), supporting Division members networking events at meetings (\$5,000), communication with members, publicity, and election expenses (\$11,000), and administration expenses (\$9,000). The administrative expenses are therefore as of Aug 08, about 5% of total expenses (this total being roughly \$160,000 YTD), maintaining previous years' levels of around a 95% return of services from each received dollar. Funding through Aug 08 reached \$280,000 and was obtained roughly 75% from donors (including funds from the American Chemical Society) and 25% from member dues. Additional expenses not incurred yet (liabilities) approach \$100,000. Overall as of August 08, the financial health of the Division was good with in excess of \$220,000 in the bank, and currently able to meet all known liabilities.

This is my last report as treasurer of the Division. Gary Van Berkel is the new elected Treasurer. It has been a pleasure serving the Division as Treasurer.

## Corporate Patrons & Academic Partners Platinum Patron



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## Academic Partners/Patrons

University of Kansas, Ralph N. Adams  
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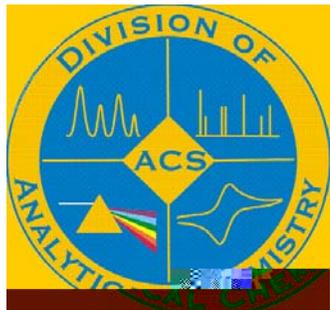
University of Arizona, Department of  
Chemistry

University of Arkansas, J. William  
Fulbright College of Arts & Sciences

University of California - Riverside

University of Illinois at Urbana-  
Champaign, Department of Chemistry

University of Utah



## DIVISION OF ANALYTICAL CHEMISTRY Co-programs with the Pittsburgh Conference

### ORAL AND POSTER SESSIONS

# PITTCON



**In 2009, the American Chemical Society Division of Analytical Chemistry will be co-programming with The Pittsburgh Conference.**

#### **Oral Organized Contributed Sessions:**

- **Quality Assurance of Measurements and Proficiency Testing (QA)**
- **Multi-residue Pesticide Analysis for Food Testing (MPA)**
- **New Concepts and Instruments for Electrochemical Sensors (NCAI)**
- **Understanding Chromatography with Sub-2 um Particles (UC)**
- **Validation of Bioanalytical Methods, Addressing Matrix (VOB)**

**In addition, there will be an ACS Poster Session on Monday, March 9, 2009.**

#### **Division abstracts for PittCon 2009 still being accepted**

There will be five sessions for oral papers organized by the Division of Analytical Chemistry at PittCon in Chicago March 8 - 13, 2009, plus a Division poster session. **Abstracts can be submitted through December 31, 2008.** Be sure to mark the abstract "ACS oral/poster" when it is submitted.