ACS Chemistry for Life™

ACS - DAC DIVISION NEWSLETTER

January 2015

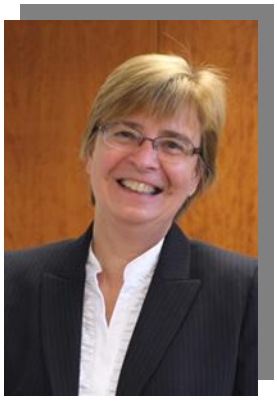
LETTER FROM THE CHAIR

Dear Fellow Members of the ACS Analytical Division,

On behalf of my fellow board members, *Happy New Year*! We wish everyone an exciting and productive 2015. The board is working hard to bring innovative sessions and symposia at national meetings and PITTCON and also working on new opportunities for you. In addition to these activities, we, the ANYL Division members, provide scholarships to graduate students and recognize undergraduates who present their research at the undergraduate poster session in the spring ACS meeting. Starting this a new committee co-chaired by Professor Lane Baker, Indiana University, and Joel Harris, University of Utah will be working on long range planning of session topics for meetings starting with 2016. You will be receiving calls from them for information soon. Also, we are continuing to work toward a webinar system for ANYL Division members. More updates will come on this as we progress. If you have ideas on how the ANYL can provide more value to its membership, please drop an e-mail to me at olesik.1@osu.edu. Stay warm and I hope to see you at PITTCON.

OUR NEW DIVISION OFFICERS

The Chair, Susan Olesik



Dr. Olesik is a Dow Professor and Chair of the Department of Chemistry and Biochemistry at Ohio State University. She is a recipient of several prestigious awards including the ACS 2014 Helen M. Free Award for Public Outreach, the 2014 ACS Award in Chromatography, the 2012 AAAS Fellow, the 2010 OSU Building Bridges Excellence Award, the 2009 ACS Fellow, the 2008 ACS National Award for Encouraging Disadvantaged Students into Careers in the Chemical Sciences; the 2008 Stanley C. Israel Regional Award for Advancing Diversity in the Chemical Sciences; the 2006 OSU Alumni Association Heinlen Award; the 2005 Columbus Technical Council (CTC) Technical Person of the Year; the 2004 ACS Columbus Section Award for Outstanding Achievement & Promotion of Chemical Sciences and the 2000 AWISCO Woman in Science Award. Dr. Olesik has also received a commendation from NASA for contributing a GC Column to Cassini-Huygen's probe.

President-Elect, Joel Harris

Dr. Harris, DAC Chair-Elect, is a Distinguished Professor of Chemistry at the University of Utah and Fellow of the American Association for the Advancement of Science and of the Society for Applied Spectroscopy. He is recipient of the ACS Division of Analytical Chemistry Award in Chemical Instrumentation, the Pittsburgh Analytical Chemistry Award, the Distinguished Teaching Award of the University of Utah, the Bomem-Michelson Award of the Coblentz Society, and the American Chemical Society Award in Analytical Chemistry.

Douglas C. Duckworth, Ph.D. (Chair-Elect, 2013-2014; Program Chair, 2014-2015; Chair, 2015-2016)
Chief Scientist and Program Manager
National Security Directorate
Pacific Northwest National Laboratory
902 Battelle Boulevard
P.O. Box 999, MSIN K8-37
Richland, WA 99352 USA
Tel: 509-375-722
Contact: **Douglas C. Duckworth**

Secretary: Anna G. Cavinato

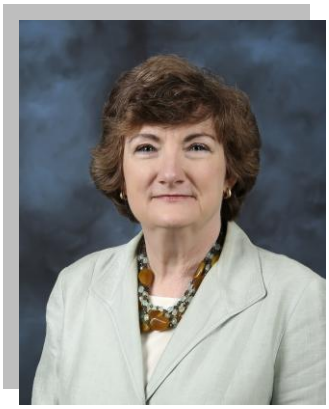
Dr. Cavinato is a Professor of Chemistry at Eastern Oregon University in La Grande, OR. Her research interests are in the area of sensor development using DNA aptamers. She is also a member of the Analytical Sciences Digital Library and a contributor of active learning modules for class and lab activities. Dr. Cavinato is the mentor of the EOU Chemistry Club, chair of the Diversity Committee for the Richland Local Section and just recently was appointed as chair of the ACS Project SEED.

Treasurer: Adam Woolley

Dr. Woolley is Professor and Associate Chair in the Department of Chemistry and Biochemistry at Brigham Young University in Provo, Utah. He has received the ACS Division of Analytical Chemistry Award for Young Investigators in Separation Science, a Presidential Early Career Award for Scientists and Engineers (PECASE), and the Karl G. Maeser Research and Creative Arts Award from Brigham Young University. Dr. Woolley's research lies at the interface between chemistry, engineering and biology. A common theme is the interrelationship between biological molecules and miniaturization. We are utilizing miniaturization tools to detect and quantify clinically relevant biomolecules and we are also applying DNA in forming nanoscale electronic systems and materials. Dr. Woolley has served in several capacities in professional organizations including, Treasurer: Division of Analytical Chemistry, American Chemical Society (2015-present); member, Analytical and Bioanalytical Chemistry International Advisory Board (2014-present); member, Analytical Methods Advisory Board (2013-present); member: National Research Council, Research Associateship Program Panel (March 2010-present; member: National Institutes of Health EBIT (formerly EBT) study section (July 2009-June 2013; Chair-Elect, Chair, and Past-Chair: Central Utah Section of the American Chemical Society: 2007-2009; and Program Co-Chair for the combined 2008 Rocky Mountain/Northwest Regional American Chemical Society Meeting held in Park City, UT (June 2008).

Councilors: Michelle Buchanan, M. Bonner Denton, Roland F. Hirsch, and Kimberly Agnew Heard

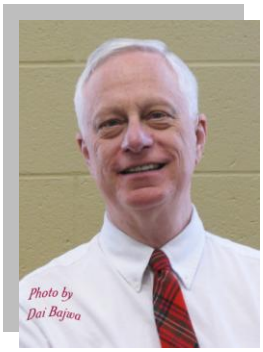
Michelle Buchanan



Dr. Buchanan is the Associate Laboratory Director for the Physical Sciences at Oak Ridge National Laboratory, overseeing research divisions covering chemistry, materials science, physics and nanoscience. She has over 150 scientific publications and technical reports and holds two patents. She has held numerous positions in the Analytical Chemistry Division of the ACS and is a Fellow of both the ACS and AAAS. She has also served the scientific community extensively with memberships on advisory boards of journals, universities, research centers, and national research organizations and funding agencies.

M. Bonner Denton

Dr. Denton is a Professor in the Department of Chemistry at the University of Arizona, Tucson, Arizona. Dr. Denton’s research interest includes Analytical Spectroscopy, Mass Spectrometry, and the development of analytical instrument for laboratory automation for real-world sample analysis and applications.



Roland F. Hirsch:

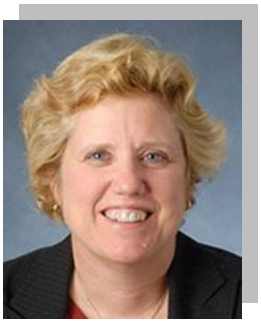
Dr Hirsch is a program manager at the Office of Biological & Environmental Research in the Department of Energy's Office of Science. He is involved in management of projects in analytical chemistry, structural molecular biology, microbiology and biogeochemistry. Prior to joining the Federal government, he was on the chemistry faculty of Seton Hall University.

Kimberly Agnew-Heard

Dr. Agnew-Heard is a senior scientific reviewer at the Center for Tobacco Products at the Food and Drug Administration. She obtained 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 has been an ACS member since 1995 and served as ACS Division of Analytical Chemistry alternate councilor (2011-2013), Facebook page editor (2011-present), ACS Project SEED committee member (2013, 2014-2016), and ACS Division of Analytical Chemistry councilor (2014-2016). Contact: Kimberly Agnew-Heard

Alternate Councilors: Susan Lunte, Michael Early, Frank A. Kero, an Al Ribes

Susan Lunte



Dr. Lunte is the Ralph N. Adams Distinguished Professor of Chemistry and Pharmaceutical Chemistry and Director of the Adams Institute for Bioanalytical Chemistry, Department of Chemistry, at the University of Kansas. Dr. Lunte's research interests include the development of accurate, sensitive, and selective analytical methods for the detection of peptides, amino acids, neurotransmitters, and drugs in biological fluids.

Michael Early (2013-2015)
Proteomics Marketing Manager, Lab Separations Division
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Al Ribes (2012-2014)
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Contact: Al Ribes

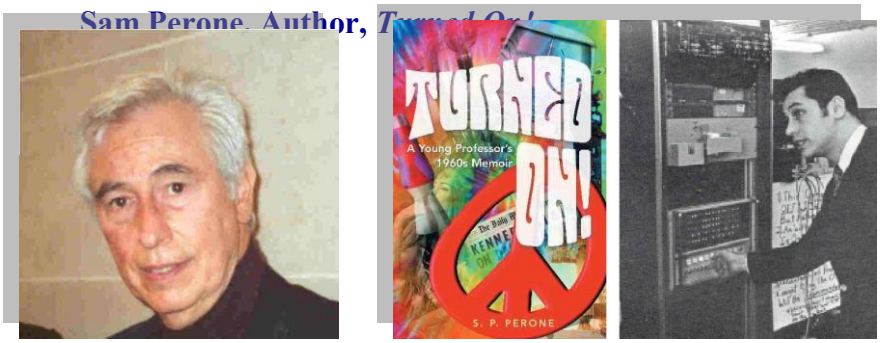
APPRECIATION AND RECOGNITION: Dr. Faye Rubinson

The ACS Division of Analytical Chemistry is thankful to Dr. Faye Rubinson for her meritorious service to the Analytical Division as the immediate past Division Newsletter Editor. She successfully used the Analytical Division Newsletter to rapidly and effectively communicate and disseminate the Division's involvement in PITTCON and ACS National meetings, news, important events, and available funding resources to Analytical Division members. Sayo Fakayode, the new Newsletter Editor, is thankful to Dr. Rubinson for her advice and suggestion during the transition period.

PRESS RELEASE, NEW BOOK BY SAM PERONE

ACS Analytical Division Member, Sam Perone, has published a memoir focusing on his years as a Professor of analytical chemistry at Purdue University during the 1960s and 70s.

Turned On! A Young Professor's 1960s Memoir (2014), iUniverse, 384 pages, by S. P. Perone.



After publishing seven novels this past decade, author Sam Perone has now produced a memoir chronicling the launch of his career as an academic scientist during the turbulent 1960s. A self-diagnosed "misfit" for a prestigious university position in 1962—and younger than many of his grad students—this naïve young man soon become entangled in a series of misadventures on an erratic journey toward the Holy Grail of all young professors—*promotion and tenure*. Whether it's about faculty politics for which he was ill-prepared; wild student parties that provided a welcome escape; or about being turned on by the 1960s' minicomputer revolution that propelled him to unanticipated notoriety, *Turned On!* is filled with humor, angst and suspense, interwoven with signature historical events that defined the times. Delivered in the same fast-paced, dialogue-driven style of his novels—and filled with dozens of vintage photos—the author provides an entertaining and nostalgic romp through a memorable era.

Background

Perone was a pioneer in the evolution of computer-controlled instrumentation and the education of scientists in this emerging area during the 1960s. His unusual career also included a stint with Lawrence Livermore National Laboratory as head of analytical sciences during the 1980s and as professor and associate dean of science at San Jose State University during the 90s. He took early retirement in 1999 to focus on consulting and writing. He has subsequently published seven (several award-winning) novels in the mystery/thriller genre. His recently published memoir describes adventures, research and colorful associates at Purdue University in the 1960s and 70s. For more information, visit his web site: www.samperone.com.

Some early reviews:

"I LOVED this book.…" "… couldn't stop, read it right through." "description of that time in the 60s is really on the mark." "read this … straight through." "each section end(s) with suspense." "… great story, easy to read, interesting in its details, and fascinating in its narrative … highly recommend this book to anyone who likes a good story about real people."

Availability

Print versions of the new book are available from the publisher and a number of online booksellers. E-book versions are available from the publisher and other online outlets. Signed copies can be ordered from the author.

For more information, please see the author's website, www.samperone.com.

SPRING MEETINGS: PITTCON – March 8-12, 2015

March 8 - 12, 2015
Ernest N. Morial Convention Center
New Orleans, LA USA

PITTCON REGISTRATION AND HOTEL ROOM RESERVATION

The Preliminary Program is now available. Also, conference Registration and hotel information is available on PITTCON website at: http://www.pittconhousing.com/

PITTCON 2015 AWARD RECIPIENTS:

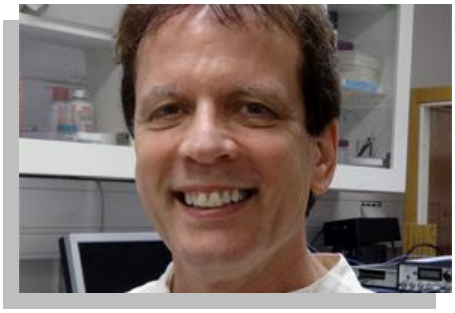
The following Analytical Chemists and Analytical Division members will be honored for their outstanding contributions to analytical chemistry, applied spectroscopy, chromatography, and conference achievement. . .

Pittsburgh Spectroscopy Award: Alfred G. Redfield

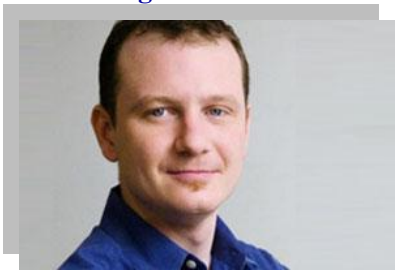
Dr. Redfield is a member of the National Academy of Sciences and a Fellow of the American Academy of Arts and Sciences. Dr. Redfield is a recipient of several awards such as the Biophysics Prize, American Physical Society, Max Delbruck Prize in Biological Physics and the Russell Varia Lecture and Prize. Dr. Redfield has also authored or co-authored over 200 peer reviewed articles during his 60+ year career

Pittsburgh Analytical Chemistry Award: Andrew G. Ewing

Dr. Ewing is Professor at Chalmers and Gothenburg Universities in Sweden. He is a pioneer of chemical measurements at single cells; capillary electrophoresis, electrochemical imaging, biological mass spectrometry imaging, and new electrochemical strategies to quantify the contents of nanometer transmitter vesicles. He is a member of the Royal Swedish Academy of Sciences.



Pittsburgh Conference Achievement Award: Ryan C. Bailey



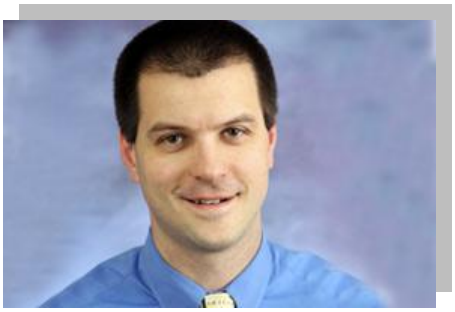
Dr. Bailey is an Associate Professor in the Department of Chemistry at the University of Illinois at Urbana-Champaign. His research group interests include the development of enabling approaches for high information content bioanalysis at the level of genomics, transciptomics, proteomics, and epigenomics with applications both in clinical diagnostics and fundamental biology.

Pittcon Heritage Award: A. Blaine Bowman

Dr. Bowman is a pioneer in the commercialization of ion chromatography and the leading figure in the success of the Dionex Corporation. Bowman was Dionex's CEO from its creation in 1980 until 2002, and a Director of the firm until its acquisition by ThermoFisher Scientific in 2011.

ACS Division of Analytical Chemistry Award for Young Investigators in Separation Sciences Award: Dwight R. Stoll

Dr. Stoll is Associate Professor of Chemistry at Gustavus Adolphus College in St. Peter, Minnesota. He has authored or co-authored 35 peer-reviewed publications in separation science, and over 80 conference presentations. His primary research focus is on the development of two-dimensional liquid chromatography (2D-LC) for both targeted and untargeted analyses.



Chromatography Forum of the Delaware Valley Dal Nogare Award: Mark R. Schure

Dr. Schure is Chief Technology Officer of Kroungold Analytical and is Adjunct Professor of Chemical Engineering at the University of Delaware. His contributions to separation science include detailed theory, simulations and experimental investigations in 2D chromatography, chromatographic mechanism, capillary electrophoresis and field-flow fractionation. He has published over 100 papers.

Ralph N. Adams Award: John R. Yates

Dr. Yates is the Ernest W. Hahn Professor at The Scripps Research Institute. His research interests include bioinformatics development of integrated methods for tandem mass spectrometry analysis of protein mixtures, using mass spectrometry data, and biological studies involving proteomics.

RSC – Robert Boyle Prize for Analytical Science Award: Eric Bakker

Dr. Bakker began postdoctoral work at the University of Michigan and later became full professor at Auburn University. After serving as a professor at Purdue University, he led the Nanochemistry Research Institute at Curtin University in Perth, Australia before moving back to Switzerland in 2010 as Chair of Analytical Chemistry at the University of Geneva.

SEAC – Charles N Reilley Award: Hubert Girault

Dr. Girault is Professor of Physical and Analytical Chemistry at the Ecole Polytechnique Fédérale de Lausanne, Switzerland. His research interests span many aspects of electrochemistry from charge transfer reactions at soft interfaces to electrochemical imaging and new electrochemical ionization techniques for mass spectrometry**.**

SEAC – Royce W. Murray Award: Thomas Hamann

Dr. Hamann earned his PhD at Caltech and was a postdoctoral scholar at Northwestern University before starting his independent career at Michigan State University, where he is currently the James Dye Professor of Materials Chemistry. His research focuses on understanding electron-transfer and photocatalytic reactions at semiconductor surfaces.

The Coblentz Society/ABB – Bomem-Michelson Award: David Jonas

Dr. Jonas, a Professor at the University of Colorado, is internationally recognized for his pioneering work in phase-resolved nonlinear optics and for his exploitation of that work to demonstrate femtosecond two-dimensional Fourier transform (2D FT) spectroscopy. This optical analog of 2D NMR is becoming widely used in electronic and vibrational spectroscopy.

The Coblentz Society – Williams-Wright Award: Jagdeesh Bandekar

Dr. Bandekar works as a Technical Development Leader in the Adhesives Bonding Group at Dow Automotive Systems in Auburn Hills, Michigan. His industrial experience in three companies includes chemicals, polymers, bulk and specialty gases, and thin films. He has been involved in R&D, New Product Development and evaluating and implementing emerging technologies. He has also taught and carried out research at several universities.

The LCGC Lifetime Achievement in Chromatography Award: Joseph Jack Kirkland

After receiving a PhD in Analytical Chemistry from the University of Virginia, Dr. Kirkland performed research at DuPont for 40 years. He is best known for his work in HPLC, having produced eight books, over 160 papers, and 36 patents. He has received many international awards for his work and now is Vice-President of R&D for Advanced Materials Technology, Inc.

The LCGC Emerging Leader in Chromatography Award: Caroline West

Dr. West is Associate Professor in Analytical Chemistry at the University of Orleans, France. Her scientific interests lie in fundamentals of chromatographic selectivity in SFC and HPLC. Her work is essentially devoted to improving the understanding of chromatographic chiral and achiral separations to facilitate method development.

ACS-DIVISION 2015 AWARD WINNERS:

Giddings Education Award: Dr. Purnendu (Sandy) K. Dasgupta

Dr. Dasgupta obtained his PhD in Analytical Chemistry with a minor in electrical engineering in 1977. He also received a diploma as TV mechanic. He joined the University of California at Davis as an Aerosol Research Chemist at the California Primate Research Center, conducting research studies on air pollution toxicology. He then worked in Texas Tech between 1981 and 2007 before joining the University of Texas at Arlington in 2007 as the Chair and Jenkins Garrett Professor. Dr. Dasgupta has authored over 350 peer reviewed papers and holds 20 US patents, including one on electrodialytic reagent generation technology on which current ion chromatography is based. Dr. Dasgupta is a recipient of several awards and recognitions including, the Dow Chemical Company Traylor Creativity Award, two Ion Chromatography Symposium Outstanding Achievement Award (once in 1989, once in 2005), the Benedetti-Pichler Memorial Award in microchemistry, Achievement Rewards for College Scientists (ARCS) Scientist of the Year Award 2004-2005, Best Science Paper of the Year Award, Environmental Science and Technology, 2005, Konferenz award, Konferenz űber Ionenanalyse, 2009 and NSF Committee of visitors Exemplar of Excellence designation in 2010. He is also the Editor of Analytica Chimica Acta, a major international journal in analytical chemistry. Dr. Dasgupta's research interest includes capillary scale liquid chromatography, detection and data transform schemes in chromatography, and the determination of potentially toxic contaminants in water such as arsenic and cyanide in saliva and blood

Electrochemistry Award – George S. Wilson, University of Kansas

Dr. Wilson is Distinguished Professor Emeritus, Department of Chemistry, University of Kansas. Dr. Wilson received a A.B. in Chemistry in 1961 from Princeton University and Ph.D. in 1965 from University of Illinois. He was a Postdoctoral Fellow, between 1965- 1967 in University of Illinois. Dr. Wilson's research interest include, the development of new analytical protocol for accurate sample measurement, biosensors and biological recognition, and post-translational modifications of proteins

Chemical Instrumentation Award- David – David C. Muddiman

Dr. Muddiman is a Distinguished Professor of Mass Spectrometry, Department of Chemistry, North Carolina State University. Dr Muddiman received his PhD form University of Pittsburgh in 1995. He was a Department of Energy Postdoctoral Fellow, Pacific Northwest National Laboratory. Dr. Muddiman is a prolific author and has authored or co-authored approximately 200 peer reviewed articles. Dr. Muddiman was a recipient of American Society for Mass Spectrometry Research Award in 1999 and American Chemical Society, Arthur F. Findeis Award in 2004.

Findeis Award – Scott T. Phillips:

Dr. Phillips is Associate Professor, Department of Chemistry, UXXX He received his B.S. from California State University, San Bernardino, in 1999 and Ph.D in 2004 from University of California, Berkeley. Dr. Phillis's research interest span analytical (Bottom-Up approaches to sensing); biological (bioorganic chemistry, bioinspired organic chemistry); environmental (applied organic chemistry), material and nanoscience (responsive materials); organic (design and synthesis of functional molecules) and biomedical study. Dr. Phillips has received numerous awards including, Eli Lilly and Company Young Investigator Award in Analytical Chemistry, 2012, NSF CAREER Award, 2012, Alfred P. Sloan Research Fellow, 2012, 3M Non-Tenured Faculty Award, 2012, 3M Non-Tenured Faculty Award, 2011, Outstanding Professor in Chemistry, Alpha Chi Sigma, 2010, Popular Mechanics Breakthrough Award, 2009, Gates Foundation Grand Challenge Explorations Award, 2009, DARPA Young Faculty Award, 2009, Beckman Young Investigator, 2009, Thieme Chemistry Journal Awardee, 2009, Eberly College of Science Dean's Climate and Diversity Award, 2009, and Camille and Henry Dreyfus New Faculty Award, 2008

Spectrochemical Analysis Award: Dr. Frank V. Bright

Dr. Bright is SUNY Distinguished Professor, UB Distinguished Professor and Henry M. Woodburn Chair, Department of Chemistry, University at Buffalo, The State University of New York. He received his B.S. from University of Redlands in 1982 and his Ph.D. from Oklahoma State University in 1985. He was a Postdoctoral Fellow, Indiana University between 1985 and 1987 and a Visiting Professor, School of Chemical Engineering, Georgia Tech (1994-95). Dr. Bright research interest include the development of chemical sensors and sensor arrays for selective small molecule and protein determination, advanced anti-fouling/fouling release coatings for fresh water and marine applications, membrane-based separation platforms under aggressive conditions for H_2 purification applications, and biodegradable platforms for delivering active protein drugs to accelerate wound closure and minimize aberrant repair. Dr. Bright is a recipient of several awards including , 3M, Inc. Non-tenured Faculty Award (1988-91), UB, SUNY Faculty of Natural Sciences and Mathematics Award for Excellence in Teaching (1998), Eastern New York Section of the American Chemical Society Buck-Whitney Medal (1999), SUNY Chancellors' Award for Excellence in Teaching (2000), SUNY Outstanding Inventors Award (2002), New York Section of the Society for Applied Spectroscopy Gold Medal (2003), American Chemical Society Akron Section Award (2003), Niagara Frontier Intellectual Property Law Association, Technical Societies Council of the Niagara Frontier, "2003 Inventor of the Year, Life Sciences" (2004), A. Benedetti-Pichler Award in Microchemistry from the American Microchemical Society (Nov. 2005), Jacob F. Schoellkopf Medal, WNY Section, ACS (2006), "Most Promising Technology" Smart Start Venture Forum, UNYTECH, Universities of Upstate New York Venture Forum (2007), Entrepreneurial Spirit Award (2008), Visionary Innovator (2x) (2008), Niagara Frontier Intellectual Property Law Association, Technical Societies Council of the Niagara Frontier, "2007 Inventor of the Year, Physical Sciences" (2008), and SUNY Distinguished Professor (2008)

Distinguished Service Award – William R. Heineman

Dr. Heineman is a Distinguished Research Professor and Head of the Department of Chemistry, University of Cincinnati. He obtained his BS in Chemistry from Texas Tech University in 1964 and PhD in Chemistry in 1968 from the University of North Carolina at Chapel Hill. Dr. Heineman joined the faculty at the University of Cincinnati in 1972. Dr. Heineman's research interests include spectroelectrochemistry, chemical sensors, analytical chemistry of radiopharmaceuticals, polymer modified electrodes, electrochemical immunoassay, and microfluidic systems for chemical analysis. Dr. Heineman has published over 400 research papers and patents and has presented over 500 lectures at conferences, universities, and government/industrial laboratories. Dr. Heineman has received several prestigious awards, including Sigma Xi Research Recognition Award, Cincinnati Chemist of the Year, Japanese Government Research Award for Foreign Scientists, George Rieveschl, Jr. Award for Distinguished Scientific Research, Humboldt Prize from Germany, Charles N. Reilley Award in Electroanalytical Chemistry from the Society for Electroanalytical Chemistry, Chemical Sensors Award from the International Meeting on Chemical Sensors, Award for Excellence in Teaching from the Division of Analytical Chemistry of the American Chemical Society, Torbern Bergman Medal 1999 from the Analytical Section of the Swedish Chemical Society, Fields of Analytical Chemistry award by the Eastern Analytical Association, and the Outstanding Achievement in Sensors Award from the Electrochemical Society. He was elected a Fellow of the American Association for the Advancement of Science in 2001 and chosen for the inaugural class of Fellows of the American Chemical Society in 2009. Dr. Heineman has also served on numerous advisory boards for scientific journals including Analytical Chemistry, Biosensors and Bioelectronics, Analytica Chimica Acta, and Electroanalysis. He was a co-founder and the first President of the Society for Electroanalytical Chemistry and was a member of the Board of Directors.

249th ACS Fall National Meeting and Exposition, Denver, CO – MARCH 22-26, 2015
CHEMISTRY OF NATURAL RESOURCES

Thousands of chemical professionals are expected to participate in the upcoming 249th ACS National Meeting & Exposition in Denver, CO from March 22 – 26, 2015. The conference is loaded with exciting programs and numerous avenues for scientific learning new innovations, and networking with national and international peers. See you in Denver in March!

REGISTRATION AND ACCOMODATION NOW OPEN!

Early Bird Registration and room reservation Reserve a Room housing for the ACS 2015 Spring National Meeting in Denver is now open. Early registration has been extended to February 13. Additionally, Online Technical Program is now available!

ACS-ANALYTICAL DIVISION: RESOURCES FOR STUDENTS

ACS-Analytical-Division has provided several resources and funding opportunities including**,** Student Chapters, Attending an ACS Meeting, Undergraduate Research, Internships, Summer Jobs, and Co-ops, Study Abroad Programs, Scholarships, Planning for Graduate School Career Resources, Two-Year/Community College Students for the undergraduate and graduate students. There are also funds available for the Student Chapter organization. Detail information about these funding opportunities can be found on the ACS-Analytical Division websites. Undergraduate and graduate students and their Student Chapter advisors are encouraged to take advantage of these funding opportunities.

Division Awards Program

The Division of Analytical Chemistry in conjunction with the Dow Chemical Company, Agilent Technologies, Philip Morris USA, and Waters Corporation are sponsoring several awards including, ACS Division of Analytical Chemistry Award in Chemical Instrumentation 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, ACS Division of Analytical Chemistry Award for Distinguished Service in the Advancement of Analytical Chemistry, and
ACS Division of Analytical Chemistry Award for Young Investigators in Separation Science. . . The deadline for the awards is typically November 1st of each year.

ACS Regional Meeting Support

Funding is available from the Analytical Division to support a speaker to attend symposium at the regional American Chemical Society meetings. This fund can be utilized to cover travel expenses for an expert in the field who would not normally attend that particular regional meeting. It is expected that local speakers will be included to fill out the symposium. There is no formal application process.

Detailed information and questions about the eligibility, application process, nomination process, and application procedure for these funding awards should be directed to Miquela Sena via e-mail at: miquela@sciencemanagers.com or

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