



JOHN B. FENN AWARD FOR A DISTINGUISHED CONTRIBUTION IN MASS SPECTROMETRY

2019 RECIPIENT: JOHN R. YATES III

AWARD LECTURE: 4:45 PM, MONDAY, MURPHY BALLROOM, BUILDING B, LEVEL 5



The ASMS Award for Distinguished Contribution in Mass Spectrometry honors the memory of John B. Fenn who shared the 2002 Nobel Prize for the development of electrospray ionization. John joined ASMS in 1986 and remained an active member until his passing in 2010. The award is conferred at the ASMS Annual Conference with the presentation of a \$10,000 cash award, a recognition plaque, and the award lecture.

Dr. John R. Yates III is the recipient of the 2019 ASMS John B. Fenn Award for a Distinguished Contribution in Mass Spectrometry, for development of automated, large-scale interpretation of peptide tandem mass spectral data. Dr. Yates' SEQUEST algorithm laid a critical foundation for the field of proteomics and has enhanced the accuracy and effectiveness of mass spectrometry to understand important biological and clinical questions.

Subsequent software developments continue to empower molecular and cellular biology research, including peptide and protein quantitation, identification of posttranslational modifications, and the use of DNA sequences to enable proteogenomic methods. Dr. Yates also enabled large-scale studies to identify the components of protein complexes in single celled organisms and mammalian cells. Proteomics is now practiced by thousands of researchers all over the world to study proteins in almost every organelle in prokaryotic and eukaryotic cells. The comprehensive analysis of cells and tissues is now routinely used to understand differences between normal and disease states.

Dr. Yates is Professor, Department of Molecular Medicine, The Scripps Research Institute.

AL YERGEY MS SCIENTIST AWARD

2019 RECIPIENT: JEFFERY SHABANOWITZ

AWARD PRESENTATION: 4:45 PM, MONDAY, MURPHY BALLROOM, BUILDING B, LEVEL 5



The Al Yergey Mass Spectrometry Scientist Award is sponsored by ASMS to recognize dedication and significant contributions to mass spectrometry-based science by "unsung heroes." This award is named in memory of Al Yergey a well-respected scientist who was known as a dedicated mentor.

Dr. Jeffrey Shabanowitz is the inaugural recipient of the Al Yergey MS Scientist Award. For more than forty years Dr. Shabanowitz has worked with Professor Donald Hunt at the University of Virginia, where he co-authored more than 330 peer-reviewed scientific papers and is co-inventor on ten issued patents. He played a major role in development of peptide sequence analysis by tandem mass spectrometry. The methods and instrumentation he helped to develop underpin the field of proteomics, and have led to major breakthroughs, especially in immunology and epigenetics research. He has also been a valued mentor to dozens of graduate students, postdocs, and visiting scientists. Dr. Shabanowitz is Principal Scientist in the Hunt Laboratory at the University of Virginia

BIEMANN MEDAL

2019 RECIPIENT: SARAH TRIMPIN

AWARD LECTURE: 4:45 PM, TUESDAY, MURPHY BALLROOM, BUILDING B, LEVEL 5



The Biemann Medal is awarded to an individual early in his or her career to recognize significant achievement in basic or applied mass spectrometry. The Medal is conferred at the ASMS Annual Conference with the presentation of a \$5,000 cash award, a recognition plaque, and the award lecture.

Dr. Sarah Trimpin is the recipient of the 2019 Biemann Medal for discovery and development of novel ionization processes. Dr. Trimpin's unusual observation of highly charged protein ions in an atmospheric pressure MALDI experiment led to her discovery that ionization occurs simply by passing compounds through the inlet of a mass spectrometer. She demonstrated that this simple approach achieves sensitivity comparable with, and frequently better than, electrospray or MALDI.

Through fundamental studies, Dr. Trimpin discovered solid matrices that produce highly charged ions upon laser ablation using MALDI ion sources. Even more astonishing is her discovery of matrix compounds that spontaneously produce multiply charged ions when exposed to vacuum (termed matrix-assisted ionization, MAI). No heat, nebulizing gases, laser, or voltage is required and exceptionally low chemical background is achieved for a variety of compounds, including proteins at least as large as bovine serum albumin (66 kDa). She has now discovered more than forty matrices that spontaneously produce analyte ions. Her work has been recognized by numerous awards and has led to commercialization.

Dr. Trimpin is Professor of Chemistry at Wayne State University.



ASMS AWARDS

2019 RESEARCH AWARDS

AWARD PRESENTATIONS: 4:45 PM, TUESDAY, MURPHY BALLROOM, BUILDING B, LEVEL 5

Research awards promote the research of academic scientists within the first four years of joining the tenure track or research faculty of a North American University at the time the award is conferred. The awards, in the amount of \$35,000 each, are fully supported by Bruker, Thermo Fisher Scientific, and Waters Corporation.

Sponsored by
BRUKER



James F. Davies
University of California, Riverside

Sponsored by
THERMO FISHER SCIENTIFIC



Nicolas L. Young
Baylor College of Medicine

Sponsored by
WATERS CORPORATION



Eleanor Browne
University of Colorado, Boulder

2019 PRIMARILY UNDERGRADUATE INSTITUTION RESEARCH AWARD

AWARD PRESENTATIONS: 4:45 PM, TUESDAY, MURPHY BALLROOM, BUILDING B, LEVEL 5

SPONSORED BY AGILENT TECHNOLOGIES

This award promotes academic research in mass spectrometry by faculty members and their students at primarily undergraduate institutions (PUIs). The award of \$20,000 is made to the recipient's institution on behalf of the recipient's research.

Callie Cole
Fort Lewis College



RON HITES AWARD FOR OUTSTANDING RESEARCH PUBLICATION IN JASMS

AWARD PRESENTATIONS: ASMS MEETING, 4:45 PM, WEDNESDAY, B302-305, LEVEL 3



The Ron Hites Award recognizes an outstanding publication of original research based on innovative aspects, technical and presentation quality, and likely stimulation of future research or applications. The award is named to honor Professor Ron Hites of Indiana University, who led the creation of JASMS in 1988 while president of ASMS. The award includes \$2,000 and certificates.

The 2019 Ron Hites Award recognizes Dr. Julia Laskin, Purdue University and her co-authors for their paper **Towards High-Resolution Tissue Imaging Using Nanospray Desorption Electrospray Ionization Mass Spectrometry Coupled to Shear Force Microscopy**; Son N. Nguyen, Ryan L. Sontag, James P. Carson, Richard A. Corley, Charles Ansong, and Julia Laskin; *J. Am. Soc. Mass Spectrom.* (2018) 29:316Y322.



2019 POSTDOCTORAL CAREER DEVELOPMENT AWARDS

AWARD PRESENTATIONS: ASMS MEETING, 4:45 PM, WEDNESDAY, B302-305, LEVEL 3

Up to five awards in the amount of \$5,000 each are intended to promote the professional career development of postdoctoral fellows in the field of mass spectrometry. Activities funded by these awards include conference and workshop attendance, travel to other mass spectrometry laboratories, purchase of books and/or software. The awards are open to ASMS members who are postdoctoral fellows within three years of completing a Ph.D. or equivalent degree. Applicants must be currently appointed as a postdoctoral fellow in North America (e.g., in academia, industry, a government or national laboratory or at a research institute). Details and an application are posted to asms.org.



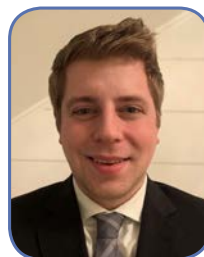
Christopher Ashwood
Medical College of Wisconsin



Josue Baeza
University of Pennsylvania



Gongyu Li
University of Wisconsin-Madison



Jared Kafader
Northwestern University



Nicholas Riley
Stanford University

2019 STUDENT TRAVEL AWARDS

AWARD PRESENTATIONS: ASMS MEETING, 4:45 PM, WEDNESDAY, B302-305, LEVEL 3

ASMS supports up to twenty awards of \$1,000 for graduate students and ten awards of \$500 for undergraduates. Applications and details for these awards are posted to asms.org.

GRADUATE STUDENT AWARDS

Molly Blevins, *University of Texas at Austin*
Wanying Cao, *University of Nebraska-Lincoln*
Ming Cheng, *Washington University in St. Louis*
Sean Cleary, *University of Oregon*
Mariel Coradin, *University of Pennsylvania*
Kellen DeLaney, *University of Wisconsin-Madison*
Kristen Fowble, *University at Albany-SUNY*
Naren Gajenthra Kumar, *Virginia Commonwealth University*
Praveen Kumar, *University of Minnesota*
Ting-Hao Kuo, *National Taiwan University*
Chenxi Liu, *University of Arizona*
Elijah McCool, *Michigan State University*
Sibylle Pfammatter, *IRIC-Université de Montréal*
Jaqueline A. Picache, *Vanderbilt University*
Erika Portero, *University of Maryland, College Park*
Marta Sans Escofet, *University of Texas at Austin*
Leah Schaffer, *University of Wisconsin-Madison*
Savannah Snyder, *The University of Akron*
Yang Tang, *Boston University*
Trisha Tucholski, *University of Wisconsin - Madison*

UNDERGRADUATE STUDENT AWARDS

Shelby Beasley, *University of Oklahoma*
Alisha Birk, *Stanford University*
Cameron Davis, *National High Magnetic Field Laboratory*
Richard Dilworth, *University of Florida*
Anna Iacovino, *Duquesne University*
Kaylie Kirkwood, *North Carolina State University*
Abigail Lemmon, *University of Pennsylvania*
Javier Moreno, *Florida International University*
Amanda Wong, *Saint Mary's College of California*
Emily Ziperman, *Baylor University*