

NEWS AND VIEWS



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Announcements

For more information and online registration for any of the conferences listed below, please visit www.asms.org/conferences.

65th ASMS Annual Conference

June 4 - 8, 2017

Indianapolis, IN

www.asms.org/conferences/annual-conference



April 30..... Advance conference and short course registration deadline

ASMS Asilomar Conference Impact of Metabolomics in Translational and Clinical Research

September 29 - October 3, 2017

Asilomar Conference Center

Pacific Grove, California

www.asms.org/conferences/asilomar-conference



Organizers

Timothy J. Garrett, *University of Florida and Southeast Center for Integrated Metabolomics*

Christopher Petucci, *Sanford Burnham Prebys Medical Discovery Institute*

ASMS Fall Workshop

Top Down Proteomics

November 2 - 3, 2017

Hyatt Regency Boston Harbor

Boston, MA

<http://www.asms.org/conferences/fall-workshop>



Organizers

Ying Ge, *University of Wisconsin-Madison*

Ljiljana Paša-Tolić, *Pacific Northwest National Laboratory*

Awards

Donald F. Hunt, University Professor of Chemistry and Pathology at the University of Virginia, has been awarded the **2017 American Chemical Society (ACS) Award in Analytical Chemistry**, for his 'pioneering efforts to develop mass spectrometry methods and instrumentation that facilitated characterization of peptides and proteins and provided the



foundation for the field of proteomics'. The award, sponsored by Battelle Memorial Institute, was presented at the 253rd ACS National meeting held April 2-6, 2017 in San Francisco, CA.

Professor Hunt joined the faculty at the University of Virginia as an assistant professor in September 1968, and was promoted to associate professor and full professor in 1973 and 1978, respectively. In 1993, he was promoted to the rank of University Professor with appointments in both Chemistry and Pathology. Prior to assuming these positions, he spent a year at the Massachusetts Institute of Technology as a National Institute of Health Postdoctoral Trainee in Mass Spectrometry under the guidance of Professor Klaus Biemann. He obtained both his B.S. and Ph.D. (1967) degrees from the University of Massachusetts. Over the past four decades, Professor Hunt has pioneered efforts to develop mass spectrometry instrumentation and methods that set the standard for ultrasensitive detection and characterization of proteins and peptides. These contributions continue to underpin the whole field of proteomics and have had a dramatic impact on research in immunology, cell signaling, cell migration, epigenetics and cancer. In 1981-82, Professor Hunt was chosen as a recipient of both an NIH Fogarty Senior International Fellowship and a John Simon Guggenheim Fellowship. In 1990, he received the Charles H. Stone Award sponsored by the ACS. In 1992 he was named Virginia's Outstanding Scientist and also received the Pehr Edman Award for outstanding achievements in the application of mass spectrometry to the contemporary microsequence analysis of proteins. He received the ASMS Award for a Distinguished Contribution in Mass Spectrometry in 1994. In 1996 he was the first recipient of the Christian B. Anfinsen Award from the Protein Society for development of new technology in the field of protein chemistry. He received the Chemical Instrumentation Award sponsored by the ACS in 1997. In 2000, Professor Hunt was the recipient of both the Frank H. Field and Joe L. Franklin award presented by the ACS for outstanding achievement in the field of mass spectrometry and the Thomson Medal from the International Mass Spectrometry Society. He received Distinguished Accomplishment Awards from the Human Proteome Organization (HUPO) in 2006 and the Association of Biomolecular Resource Facilities in 2007. He was elected as a member of the American Academy of Arts and Sciences in 2014. Professor Hunt is a co-inventor on more than 30 patents and patent applications and has more than 390 scholarly publications to his credit. Throughout his career, Professor Hunt has trained more than 130 graduate students and postdoctoral fellows.



Vicki H. Wysocki, Professor in the Department of Chemistry and Biochemistry, and Ohio Eminent Scholar of Macromolecular Structure and Function at the Ohio State University, has been selected as the recipient of the **American Chemical Society 2017 Frank H. Field and Joe L. Franklin Award for Outstanding Achievement in Mass Spectrometry**. The award, sponsored by Waters Corporation, was presented at the 253rd ACS

National meeting held April 2-6, 2017 in San Francisco, CA., in recognition of her 'outstanding accomplishments in the development of surface-induced dissociation for native mass spectrometry structural characterization of noncovalent complexes.'

Professor Wysocki received her B.S. degree in Chemistry (with a minor in Mathematics) from Western Kentucky University in 1982, and her Ph.D. in Chemistry from Purdue University in 1987 while working in the laboratory of Professor R. Graham Cooks. After an additional semester as a Postdoctoral Research Associate and Visiting Instructor at Purdue, she then performed postdoctoral research at the National Research Council/Naval Research Laboratory from 1988-1989, with Dr. Mark M. Ross, prior to being appointed as an Assistant Professor in the Department of Chemistry at Virginia Commonwealth University. In 1994, she was promoted to Associate Professor, then moved in 1996 to the Department of Chemistry at the University of Arizona, where she was promoted to Professor in 2000. From 2001-2012, she was Professor in the Departments of Chemistry & Biochemistry and Molecular Biophysics. She was Department Head of the Department of Biochemistry and Molecular Biophysics from 2008-2009, and then Co-Chair (2009-2010) and Chair (2010-2012) of a merged Department of Chemistry and Biochemistry. In 2012, she moved to her current position at the Ohio State University, where she is also Director of the Campus Chemical Instrument Center. Professor Wysocki has graduated 40 Ph.D. students and 9 M.S. students, and mentored 10 postdoctoral researchers, while publishing >180 papers. She has worked at the interface of chemistry and biology for her entire academic career. The Wysocki group has recently developed surface-induced dissociation tandem mass spectrometry coupled to ion mobility spectrometry and high resolution MS for the characterization of large noncovalent protein and nucleoprotein complexes, with many collaborations resulting from these instrument developments. For more than 20 years, her group has also been involved in defining peptide fragmentation mechanisms and peptide fragment ion structures, with both mass spectrometry and mass spectrometry coupled to infrared action spectroscopy. Her group is also involved in applied metabolomics/metabolism and proteomics research. In 2014, the Wysocki laboratory was named a Waters Center of Innovation. In recognition of her research accomplishments, Professor Wysocki received an ASMS Research Award in 1992, the ASMS Award for a Distinguished Contribution in Mass

Spectrometry (co-recipient with Simon Gaskell) in 2009, and the Purdue University Department of Chemistry Outstanding Alumna Award in 2013. She has served the ASMS as Treasurer (1998-2000), Sanibel Meeting Committee member (2004-2006) and as Vice President for Programs, President and Past President (2014-2020). In 2007, she was Chair of the Gordon Research Conference on Gaseous Ions. Professor Wysocki is currently an Associate Editor of *Analytical Chemistry* (2015 – present), and is a member of the NIH Enabling Bioanalytical and Imaging Technologies Study Section (2013-2019). She has also served as a member of the Editorial or Advisory Boards of *Analytical Chemistry* (1998-2000), the *Journal of the American Society for Mass Spectrometry* (1998-2002), the *International Journal of Mass Spectrometry* (1998-present), *Mass Spectrometry Reviews* (2003- present), *Analyst* (2010 – present), and *Chemical and Engineering News* (2012-2015).



Matthew F. Bush, Assistant Professor of Chemistry at the University of Washington, Seattle, WA, has been named the recipient of the **American Chemical Society (ACS) Division of Analytical Chemistry 2017 Arthur F. Findeis Award for Achievements by a Young Analytical Scientist**. The Findeis Award is given annually, to recognize and encourage

outstanding contributions to the fields of analytical chemistry by a young analytical scientist. The award will be presented at the 254th ACS National Meeting to be held August 20-24, 2017 in Washington DC.

Dr. Bush pursued his Ph.D. from 2003-2008 with Evan Williams and Richard Saykally at the University of California, Berkeley. During that time he used infrared laser spectroscopy and Fourier-transform ion cyclotron resonance mass spectrometry to investigate zwitterion formation in gas-phase biomolecules and the structural effects of hydration on biomolecular and multiply charged ions. This training in high-performance mass spectrometry and physical chemistry laid the ground work for his continued pursuits using gas-phase techniques to investigate the structures and interactions of biomolecules. In 2008 he joined the laboratory of Carol Robinson FRS DBE at the University of Cambridge and the University of Oxford, during which time he was a Waters Research Fellow and a Junior Research Fellow of Jesus College, University of Oxford, and developed experimental and analytical frameworks for using ion mobility mass spectrometry experiments to accurately characterize the structures of drug-like molecules, peptides, and protein complexes. In 2011, he joined the chemistry faculty at the University of Washington, where he is also a member of the Biological Physics, Structure and Design Program and the Molecular Engineering & Sciences Institute. His research group is focused on developing mass spectrometry based approaches for elucidating the structures, assembly, and dynamics of protein complexes. His group applies these approaches to a wide range of biological systems, including those involved in

bacterial secretion, regulating protein degradation, and protein homeostasis. To date, this research has resulted in 52 peer-reviewed publications, and 86 invited talks and conference presentations. Dr. Bush received a Research Award from the ASMS in 2013, a Sloan Research Fellowship from the Alfred P. Sloan Foundation in 2014 and a Young Investigator Award in Analytical Chemistry from Eli Lilly and Company in 2014. He served as co-organizer of the 2014 ASMS Fall Workshop on Ion Mobility Mass Spectrometry and coordinator of the ASMS Ion Mobility MS Interest Group from 2012–2014. He was a Member of the Program Committee for the ASMS Annual Conference in 2012, and a member of the Asilomar Committee from 2015–2017.

ASMS Speaker Program

The ASMS has allocated funds to support an ASMS-sponsored speaker program, with the objectives to (i) support vibrant seminar programs at local MS discussion groups, (ii) increase exposure of students at non-Ph.D. granting institutions to research in mass spectrometry, and (iii) promote exposure and professional development of young MS professionals at the onset of an independent research career.

Any ASMS member at the rank of Assistant Professor (at the time of invitation) is eligible to receive support, with no more than two sponsored trips per calendar year per speaker. Eligible hosts may be (i) any North American MS discussion group or (ii) any North American non-Ph.D. granting college or university, with no single host to propose more than two ASMS-sponsored events in a calendar year.

Additional information regarding the program, including the application process and eligible expenses (travel, meals, lodging and expenses up to \$1500 per event, until the annual budget for the program is exhausted) may be found at: <http://www.asms.org/member-center/discussion-groups>.

Mass Spectrometry Tutorial Videos

As a resource to the community, and to provide information for those interested in learning more about fundamental and applied aspects of mass spectrometry, ASMS is compiling a library of introductory tutorial videos. To date, six videos have been created and posted to the ASMS website (<http://www.asms.org/about/about-mass-spectrometry>). These are:

- ‘**Ionization Methods**’, presented by David C. Muddiman (North Carolina State University)
- ‘**Mass Analyzers**’, presented by Richard Vachet (University of Massachusetts Amherst)
- ‘**Tandem Mass Spectrometry, or MS/MS**’, presented by Scott A. McLuckey (Purdue University).
- ‘**Imaging Mass Spectrometry: An Overview**’, presented by Michelle Reyzer (Vanderbilt University)

- ‘**Nested Ion Mobility-TOF Mass Spectrometry**’, presented by David E. Clemmer (Indiana University)
- ‘**The First Fifty Years of Mass Spectrometry: Building a Foundation**’, presented by Michael L. Gross (Washington University, St. Louis) as a plenary lecture during the 2013 ASMS Annual Conference in Minneapolis.

If you have suggestions for future tutorial video projects, or other Educational content for the website, please contact the Member-at-Large for Education, or a member of the Education committee (<http://www.asms.org/about/asms-leadership/committees/education>)

Related Events

ASMS is pleased to offer announcements for other non-profit organizations. Please email details including website to office@asms.org.

April 11 – 14, 2017

Advanced Imaging Mass Spectrometry (AIMS.2017)

Laboratory Course

Vanderbilt University, Nashville, TN

<https://medschool.vanderbilt.edu/aims/aims.2017>

April 23 - 27, 2017

11th North American Fourier Transform Mass Spectrometry Conference

Key West, FL

<http://nationalmaglab.org/fims2017>

May 3 - 8, 2017

IMSF: Structural MS Workshop

The David Lopatie Conference Centre

Weizmann Institute of Science, Israel

www.weizmann.ac.il/conferences/SMSW2017

June 9 – 10, 2017

John Fenn 100th Birthday Colloquium

Department of Engineering and Applied Science,
Yale University

<http://seas.yale.edu/news-events/events/john-fenn-centennial-celebration>

June 26 – 29, 2017

13th Annual Conference of the Metabolomics Society

Brisbane, Australia

<http://metabolomics2017.org/>

July 2 - 8, 2017

3rd International Mass Spectrometry School (IMSS) / 11th Summer School for Mass Spectrometry in Biotechnology and Medicine (MSBM)

Dubrovnik, Croatia

www.msbm.org

Related Events (continued)**July 13 – 15, 2017**

14th Uppsala Conference (UppCon 2017) on Electron Capture/Transfer Dissociation Mass Spectrometry

Cornell University, Ithaca, NY

<http://crb.wisc.edu/yinglab/Uppcon/uppconHome.html>

July 16 – 20, 2017

26th Australian and New Zealand Society for Mass Spectrometry Conference

Adelaide, Australia

www.anzsms.org

July 17 – 18, 2017

Cascadia Proteomics Symposium

Seattle, WA

<http://www.cascadiaproteomics.org/>

July 27 – August 1, 2017

Advancing Mass Spectrometry for Biophysics and Structural Biology (AMS)

Ann Arbor, MI

<http://depts.washington.edu/advms>

September 04 – 07, 2017

38th British Mass Spectrometry Society Annual Meeting

Manchester, UK

www.bmss.org.uk/meetings.shtml

October 8 – 13, 2017

SciX presented by FACSS

Reno, NV

www.scixconference.org/

December 11 – 13, 2017

Seventh Asia Oceania Mass Spectrometry Conference (AOMSC2017)

Singapore

www.aomsc2017.org