

Susan Olesik

Professor and Chair | Department of Chemistry and Biochemistry at The Ohio State University
Columbus, OH, US

Chemistry expert, revolutionizing our understanding of chromatography

Biography

The central goal of my research program is to develop new analytical separation concepts that drive the field toward new levels of performance in speed to analysis and chromatographic efficiency. We develop new technology to lower the amount of a pollutant, small molecule or large molecule, or drug that can be detected in complex mixtures. This type of technology is often used in environmental analyses, as well as clinical and food analyses. Susan Olesik received her A.S. from Vincennes University in 1975, B.A. from DePauw University in 1977, and Ph.D. in 1982 from the University of Wisconsin-Madison, under the auspices of James W. Taylor in field of analytical mass spectrometry. She was also a postdoctoral fellow for Milos Novotny at Indiana University from 1982-1984 and for Tomas Baer at University of North Carolina-Chapel Hill from 1984-1986. She has been a faculty member at The Ohio State University since 1986, being promoted to Associate Professor in 1992 and Professor in 1997. She is currently the Dow Professor and Chair of the Department of Chemistry and Biochemistry. She continues as the Director of the Ohio House of Science and Engineering (OHSE), a K-16 science outreach center. Her awards include: ACS 2014 Helen M Free Award for Public Outreach, 2014 ACS Award in Chromatography, 2012 AAAS Fellow, 2010 OSU Building Bridges Excellence Award, 2009 ACS Fellow, 2008 ACS National Award for Encouraging Disadvantaged Students into Careers in the Chemical Sciences; 2008 Stanley C. Israel Regional Award for Advancing Diversity in the Chemical Sciences; 2006 OSU Alumni Association Heinlen Award; 2005 Columbus Technical Council (CTC) Technical Person of the Year; 2004 ACS Columbus Section Award for Outstanding Achievement & Promotion of Chemical Sciences; 2000 AWISCO Woman in Science Award; and a commendation from NASA for contributing a GC Column to Cassini-Huygen's probe.

Industry Expertise

Research, Education/Learning, Writing and Editing, Chemicals

Areas of Expertise

Food Security , Nanostructured-Based Materials for Separation Science Application, Ordered Carbon Materials, Enhanced-Fluidity Liquid Chromatography - EFLC, Nanofibrous Substrates for Laser Desorption Mass Spectrometry

Affiliations

Wonders of Our World, Science Outreach Program: Founder, Olesik Research Group: Founder

Education

University of North Carolina at Chapel Hill
Postdoctoral Fellow Mass Spectrometry- Gas Phase Ion Chemistry

Indiana University Bloomington
Postdoctoral Fellow Separation Science

University of Wisconsin-Madison
Ph.D. Analytical Chemistry

DePauw University
B.A.

Vincennes University
A.S.

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