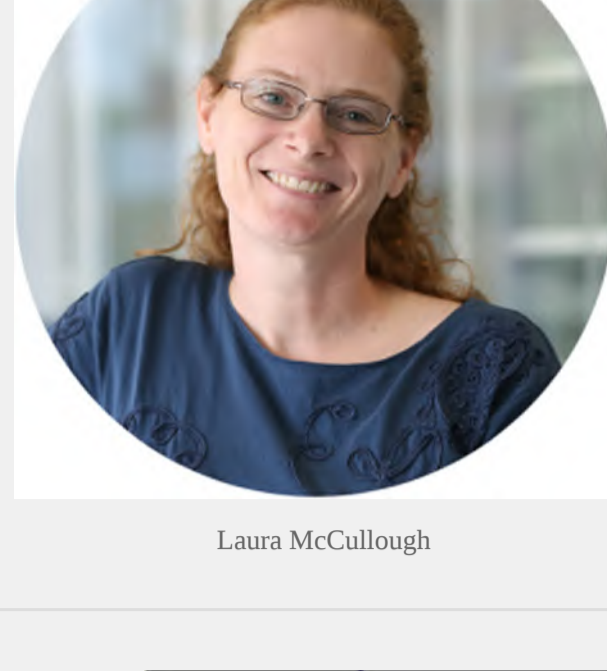


“Gender Bias in STEM” is Women Chemists Committee fall event

first published 27 September 2022

Laura McCullough has been studying issues regarding gender and physics for over twenty years. She has a BA and MS in physics, and a PhD in Science Education. She has given numerous talks on gender issues across the US, and has published on a variety of issues on gender and science. Laura's current job is Professor of Physics at the University of Wisconsin–Stout.

In this talk, Dr McCullough will discuss the latest research on reasons for the lower number of women and gender minorities in chemistry and STEM more broadly, including unconscious bias and stereotype threat. She will also share actions that individuals and departments can take to help increase awareness of bias and work to reduce it.



Laura McCullough

This event, at 11 a.m. on October 13, will be an on-line Zoom session. To pre-register (required), scan the QR code.



SCAN ME

Theresa Windus is 2022 Midwest Awardee

first published 29 September 2022

Dr Theresa Windus (Iowa State University) has been selected as the recipient of the 2022 Midwest Award. The St Louis Section established the ACS Midwest Award in 1944 to publicly recognize outstanding achievements in chemistry in the Midwest region. The award is conferred annually on a scientist who has made meritorious contributions to the advancement of pure or applied chemistry, chemical education, and the profession of chemistry. Dr Windus will officially receive the award at the Midwest Regional Meeting, October 19–21, in Iowa City.

Theresa L. Windus is a Distinguished Professor of Chemistry at Iowa State University (ISU) and a Scientist with Ames Laboratory. She currently holds an ISU Liberal Arts and Sciences Dean's Professorship. Theresa received her BA degrees in chemistry, mathematics and computer science from Minot State University. She then completed her PhD in physical chemistry at Iowa State University with Mark Gordon, where she focused on reactions of hypervalent silicon and phosphorus compounds as well as developing high-performance algorithms that were implemented in GAMESS.

Theresa examined relativistic effects and developed novel tensor methods in her postdoctoral years with John Pople and Mark Ratner at Northwestern University. She then held several positions at government labs including as the Director of Computational Chemistry/Training at the Wright-Patterson Air Force Base Major Shared Resource Center. At Pacific Northwest National Laboratory, she was the Technical Lead for the Molecular Science Software Group and the Visualization and User Services group in the Molecular Science Computing Facility, and led the development of NWChem.

In 2006, she left government lab research to join the faculty at ISU. Theresa develops new methods and algorithms for high-performance computational chemistry and applies those techniques to both basic and applied research. Her current application interests are rare earth and heavy element chemistry and transition metal catalysis. Much of Theresa's research interests involve large, collaborative efforts between scientists in multiple fields working together to solve difficult scientific challenges.

She is currently the Deputy Director for the NSF-funded Molecular Sciences Software Institute and the Director for the DOE-funded NWChemEx Exascale computing project. She has served on several editorial/advisory boards including the *Journal of Physical Chemistry A/B/C*, the *Journal of Computational Science Education*, *Parallel Computations*, and the Extreme Science and Engineering Discovery Environment (XSEDE). Theresa is a Fellow of the American Association for the Advancement of Science (AAAS) and the American Chemical Society (ACS).

She is an active member of the American Chemical Society, organizing multiple symposia, representing the PHYS division as a Councilor, and serving on the Committee on Chemists with Disabilities, most recently co-editing the “Teaching Chemistry to Students with Disabilities” resource.

Theresa is actively involved in high-performance computing leadership including membership in the DOE Future of Laboratory Computing Working Group, co-chair for the Technical Papers for Supercomputing 2010, and cochair of the DOE Exascale Requirements Review for Basic Energy Sciences. Theresa has received multiple research and teaching awards including a Federal Laboratory Consortium for Technology Transfer Award for her work with NWChem.



Dr Theresa Windus, 2022 Midwest Awardee

ICYMI: Maitland Jones, OChem, NYU

first published 30 September 2022

If you have been otherwise occupied lately (midterms? hanging Halloween decorations? just getting caught up?), you may have missed [this little NY Times item](#) that has brought chemistry into national news. To sum up, longtime organic chemistry professor (and textbook author) Maitland Jones was fired by New York University as a direct result of student complaints regarding the course and Dr Jones' teaching methods. Dr Jones had been a contract (or adjunct) professor at NYU for 15 years, after retiring from Princeton University.

The issue has engendered a lot of discussion in the more academic corners of the information world.

Without any editorial judgment in one way or the other, just note some of the commentary:

- [The NYU/Maitland Jones Debate](#) by Chemjobber
- [Organic Chemistry's Place in the World](#), an “In the Pipeline” commentary in *Science* by Derek Lowe
- [Students not to blame for Maitland Jones firing, NYU faculty say](#), a news item in the *Washington Square News*, an independent NYU student newspaper, as well as [The New York Times article on Maitland Jones was incomplete](#), an editorial in the same publication
- [NYU Chemistry Professor Fired After Students Said His Class Was Too Hard](#) at reason.com
- and more. Lots more.

There's a lot we don't know regarding the nature of the complaints — Chemjobber points that out — and more detail might help readers reach their own more informed conclusions. Food for thought and discussion.

Elections are underway!

first published 30 September 2022

If you are an active member in good standing, you should have received a ballot for the 2023 Officers. If you have not received the email, please reach out to our Secretary Henry Rohrs at rohrrs@wustl.edu. The officers up for election are below:

Chair-Elect: James Bashkin

Secretary: Henry Rohrs

Treasurer: Jeff Cornelius

Directors (three positions open)

Bill Doub

Cristina DeMeo

Rhonda Woerdle

Councilor (2023-2024): Jeramia Ory

Councilor (2023-2025): Eric Bruton

Meeting & Seminars

Board of Directors

St Louis Section–ACS Board of Directors meets the second Thursday of each month over Zoom for the foreseeable future

Date: November 10th ([via Zoom](#))

Join internet meeting at 6:00 pm for social/chit-chat

Business meeting begins at 6:30 pm

Future meetings: December 8th, January 12th

Maryville University

Seminars are approximately once a month on Thursdays, 4-5 pm. Details are available on the university's [seminar page](#). All seminars are free and open to the public. Contact [Jason Telford](#) for more information.

Saint Louis University

Seminars are generally on Fridays at 12 noon in Carlo Auditorium, Tegeler Hall, unless noted otherwise. Refreshments follow. For the most up-to-date information, refer to the department's [home page](#) and follow the link to the Seminar Schedule.

University of Health Sciences & Pharmacy in St. Louis

The Center for Clinical Pharmacology hosts a monthly seminar series in ARB 212 unless otherwise noted. For the most up to date information refer to the center's [seminar page](#) or contact [Jodi Maslin](#).

University of Missouri–St Louis

Mondays at 4 pm in 451 Bentley Hall, unless otherwise specified. Refreshments 15 minutes prior to seminar time. For timely information on visiting seminar speakers, contact the department's [home page](#), 314.516.5311, or visit the [seminar schedule](#). The department has additional seminar series which are also accessible from this page.

Washington University

Seminars are in McMillen 311 at 4 pm unless otherwise noted. For information, consult the departmental [events page](#). Related seminars, including endowed seminar series and the WU med school biochemistry series, are linked here as well.

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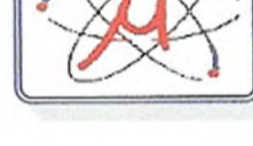
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Prof. Keith J. Stine
Chair, Department of Chemistry and Biochemistry
Email: kstine@umsll.edu

Dr. Bishal Nepal
Lab Manager, MIST Lab
Email: bnff8@mail.umsll.edu

Facilities Available

- **Electron Microscopy**
ThermoFisher Scientific Apreo 2 Field Emission Scanning Electron Microscope (FE-SEM)
- **Atomic Force Microscopy**
Bruker Bioscope Resolve Bio AFM with Nanoscope V controller
Digital Instruments Multimode AFM with Nanoscope III controller
- **Confocal Microscopy**
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About the

Chemical Bond

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