

# Shannon S. Stahl

## University of Wisconsin–Madison

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### PROFESSIONAL POSITIONS

Professor of Chemistry University of Wisconsin-Madison, Madison, WI	July 2007 - present
Steenbock Professor of Chemical Sciences University of Wisconsin-Madison, Madison, WI	July 2018-June 2028 (ten year appt.)
John and Dorothy Voza Research Professor University of Wisconsin-Madison, Madison, WI	July 2011 - June 2016 (five year appt.)
Associate Professor of Chemistry University of Wisconsin-Madison, Madison, WI	July 2005-June 2007
Assistant Professor of Chemistry University of Wisconsin-Madison, Madison, WI	July 1999-June 2005

### EDUCATION & TRAINING

Postdoctoral Fellow (NSF Postdoctoral Fellowship) Massachusetts Institute of Technology, Cambridge, MA Advisor: Professor Stephen J. Lippard <i>Mechanistic Enzymology of Soluble Methane Monooxygenase</i>	1997-1999
Ph. D., Chemistry (NSF Predoctoral Fellowship) California Institute of Technology, Pasadena, CA Advisor: Professor John E. Bercaw Thesis: <i>Mechanistic Studies of Alkane Activation by Platinum(II) Complexes</i>	June 1997
B.S., Chemistry ( <i>summa cum laude</i> ) University of Illinois at Urbana-Champaign, Urbana, IL Advisor: Prof. Patricia A. Shapley	May 1992

### MENTORING

#### CURRENT

17 graduate students (PhD); 8 postdoctoral researchers; 2 staff scientists

#### PAST

57 graduate students; 40 postdoctoral researchers; 17 visiting students/scholars; 61 undergraduate (8 UW Madison Holstrom/Hilldale award winners); 2 staff scientists

### PUBLICATIONS (University of Wisconsin-Madison)

For full listing, see <http://stahl.chem.wisc.edu/publications>

### AWARDS AND HONORS

#### UNIVERSITY OF WISCONSIN–MADISON

- ACS *Catalysis* Lectureship Award for the Advancement of Catalytic Science 2020
- Steenbock Professor of Chemical Sciences, University of Wisconsin-Madison 2018
- Mitsui Chemicals Catalysis Science Award 2016  
“Catalysts for Selective Aerobic Oxidation of Organic Chemicals”
- American Chemical Society Award for Affordable Green Chemistry 2016  
"for chemistry and engineering advances that enable commercial application of safe and aerobic scalable oxidation reactions in the development and manufacturing of pharmaceuticals"
- Merck Technology Collaboration Award 2015  
for the MadOx Consortium involving Merck, Eli Lilly and Pfizer in a precompetitive collaboration on "Taming Aerobic Oxidation for Use in Pharma" (with Drs. Thatcher Root, Joseph Martinelli, Jeffrey Niemeier, Joel Hawkins, Richard Barhart and Christopher Welch)
- Kellett Mid-Career Award (UW-Madison) 2015

- United States Environmental Protection Agency, Presidential Green Chemistry Challenge Award "Aerobic Oxidation Methods for Pharmaceutical Synthesis" (Academic Category) 2014
  - American Chemical Society Arthur C. Cope Scholar Award "for the development and mechanistic characterization of palladium-catalyzed aerobic oxidation reactions" 2013
  - Fellow, American Association for the Advancement of Science 2010
  - Alexander von Humboldt Foundation, Senior Research Award 2010
    - with Prof. Carsten Bolm, RWTH Aachen, Nov/Dec 2013
    - with Prof. Matthias Beller, Leibniz Inst. for Catalysis, Rostock, June/July 2014
    - at CaRLa, the BASF/Univ. Heidelberg Catalysis Research Laboratory, June/July 2016
  - Camille and Henry Dreyfus Environmental Chemistry Mentor 2009-2011
  - Moore Distinguished Scholar, California Institute of Technology Apr-June 2008
  - Hamel Family Faculty Fellow, University of Wisconsin-Madison 2008-2012
  - Outstanding Mentor Award - UW-Madison Department of Chemistry (inaugural award) 2007
  - H. I. Romnes Faculty Fellowship, University of Wisconsin-Madison 2007
  - Pfizer Michigan Green Chemistry Award 2006
  - Camille Dreyfus Teacher-Scholar Award 2003-2008
  - 3M Non-Tenured Faculty Award 2003-2005
  - Alfred P. Sloan Research Fellowship 2002-2004
  - National Science Foundation CAREER Award 2001-2005
  - Dow Chemical Research Innovation Award 2001
  - Research Corporation Innovation Award 2001-2002
  - Camille and Henry Dreyfus Foundation New Faculty Award 1999-2004
- MASSACHUSETTS INSTITUTE OF TECHNOLOGY
- National Science Foundation Postdoctoral Fellowship in Biosciences Related to the Environment 1997-1999
- CALIFORNIA INSTITUTE OF TECHNOLOGY
- Herbert Newby McCoy Award, Chemistry Department Thesis Award 1997
  - National Science Foundation Predoctoral Fellowship 1992-1994, 1996-1997

**SELECTED NAMED LECTURESHIPS**

- |                  |  |   |
|------------------|--|---|
| Apr 16, 2021     | Friedman Lecture   | Rutgers University, Newark, NJ                          |
| Aug 18-23, 2019  | EuropaCat 2019, Plenary Lecture  | Aachen, Germany   |
| May 5-9, 2019    | 54 <sup>th</sup> Bürgenstock Conference  | Brunnen, Switzerland                                    |
| Mar 5, 2019      | Student Invited Seminar  | UNC-Chapel Hill, Chapel Hill, NC                        |
| May 23, 2018     | F. Gordon A. Stone Symposium, Keynote Speaker  | Baylor Univ., Waco, TX                                  |
| Apr 5, 2018      | Novartis Chemical Sciences Lecture   | University of Chicago, IL                               |
| Apr 3, 2018      | Distinguished Lecture in Inorganic Chemistry   | Univ Illinois Urbana-Champaign, IL                      |
| Nov 30, 2017     | Boehringer-Ingelheim Lecture   | Yale University, New Haven, CT                          |
| Oct 18, 2017     | Sigma-Aldrich Lecture  | Univ. Pennsylvania, Philadelphia, PA                    |
| Sept 13/14, 2017 | Edward Herbert Boomer Memorial Lectures<br>Canada  | Univ. of Alberta, Edmonton, Alberta                     |
| Aug 31, 2017     | Schneller Frontiers Lecture  | Auburn Univ., Auburn, AL                                |
| Apr 17-19, 2017  | Frontiers in Chemical Research Lectures  | Texas A&M Univ., College Station, TX                    |
| Jun 8, 2015      | Green Chemistry Symposium (with Eric Jacobsen, Yi Tang)  | BMS, New Brunswick, NJ                                  |
| May 15, 2015     | Green Chemistry Lecture  | Amgen, Thousand Oaks, CA                                |
| Oct 10, 2014     | Johnson Symposium (with Lutz Gade, Brad Moore, David Spiegel, Karin Briner, Paul Alan Cox)                       | Stanford University (Palo Alto, CA)                     |
| Mar 10, 2014     | Sigma-Aldrich Lecture  | Harvard University (Cambridge, MA)                      |
| Aug 4, 2013      | Green Chemistry Seminar (inaugural lecture)  | AbbVie (North Chicago, IL)                              |
| May 15, 2013     | Green Chemistry Education Lecture  | Genentech (South San Francisco, CA)                     |
| Jan 24, 2013     | Pfizer Lecture   | UCLA (Los Angeles, CA)                                  |
| Apr 9, 2010      | Slayton A. Evans, Jr. Lecture  | University of North Carolina (Chapel Hill, NC)          |
| Apr 30, 2009     | Organic Syntheses Lecture  | Massachusetts Institute of Technology (Cambridge, MA)   |
| Dec 6, 2008      | Abbott Lecture   | University of Michigan (Ann Arbor, MI)                  |
| Oct 4, 2008      | Frontiers in Organic Chemistry Symposium (with Profs. T. M. Swager, P. Wipf, L. C. Hsieh-Wilson and D. A. Evans) | University of Illinois at Urbana-Champaign (Urbana, IL) |

**TEACHING/CLASSROOM INSTRUCTION**

**Chem 343:** Introductory Organic Chemistry-Part 1; **Chem 345:** Introductory Organic Chemistry-Part 2;  
**Chem 511:** Advanced Inorganic Chemistry; **Chem 641:** Physical Organic Chemistry; **Chem 713:**  
Transition Metal Chemistry; **Chem 714:** Organometallic Chemistry of the Transition Elements

**CONSULTING & INDUSTRIAL COLLABORATIONS**

ExxonMobil, Annandale, NJ (2004, 2014); Dow Chemical (Midland, MI; 2004-2007, 2012-2017); BP, Naperville, IL (2006-2008); Monsanto, St. Louis, MO (2009-2011); Pfizer, Groton, CT (2012-2014); Liquid Light, Princeton, NJ (2012-2014); Eli Lilly, Indianapolis, IN (2007-2018); Merck, Rahway, NJ (2012-present); AbbVie (2015-present); Evolva (2018); BMS (2018-present); Provivi (2019); GSK (2019); Gilead (2020).

(updated: July 2021)