

## Eric N. Jacobsen

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### RESEARCH INTERESTS

Mechanistic and synthetic organic chemistry. Development of new catalytic reactions, with emphasis on stereoselective methods. Physical-organic studies of reactivity and recognition phenomena in homogeneous catalysis. Enantioselective synthesis of natural products and pharmaceutical compounds.

### EMPLOYMENT

**1993-present:** Harvard University  
Professor (July 1993-present)  
Sheldon Emery Professor of Chemistry (July 2001-present)  
Department Chair (July 2010-June 2015)  
**1988-1993:** University of Illinois at Urbana-Champaign  
Assistant Professor (June 1988-September 1991)  
Associate Professor (September 1991-June 1993)

### CONSULTING

Merck, Rahway, NJ, since 1994 (consultant)  
PTC Therapeutics, South Plainfield, NJ, since 2001 (SAB member)  
Amgen, Thousand Oaks, CA, since 2003 (consultant)  
Sepracor, Marlboro, MA, 1990-2007 (consultant)  
ChiRex, Stanford, CT, 1995-2000 (SAB and BOD member)  
Rhodia Chirex, Lyon, France, 2000-2004 (SAB member)  
NIH General Medical Sciences Council Member 2003-2007  
Daiso Company, Osaka, Japan, 2006-2010 (consultant)  
Cubist Pharmaceuticals, Lexington, MA, 2007-2012 (SAB member)  
Firmenich, Geneva, Switzerland, 2009-2010 (SAB member)  
Chairman, Editorial Board: *Advanced Synthesis and Catalysis*  
Editorial Advisory Board: *Journal of Organic Chemistry*, *Synthesis*, *Synlett*, *Organic Letters*, *Journal of Combinatorial Chemistry*, *Journal of Molecular Catalysis*, *Current Opinion in Drug Discovery & Development*, *Chemistry: An Asian Journal*, *Asian Journal of Organic Chemistry*, *Angewandte Chemie*.

### EDUCATION

**1986-1988:** National Institutes of Health Postdoctoral Fellow  
Massachusetts Institute of Technology, Cambridge, Massachusetts.  
Research advisor: Professor K. Barry Sharpless  
Development of the osmium-catalyzed asymmetric dihydroxylation reaction.  
**1982-1986:** University of California, Berkeley, California.  
Degree awarded: Ph.D.  
Research advisor: Professor Robert G. Bergman  
Thesis title: Synthesis and Reactions of Dinuclear Transition Metal Complexes Containing Bridging Ligands Relevant to Heterogeneous Catalysis.  
**1978-1982:** New York University, New York, New York.  
Degree awarded: B.S. in Chemistry  
Research advisor (1981-1982): Professor Yorke E. Rhodes

### PERSONAL

Born February 22, 1960, New York, N.Y.  
Married to Virginia Estevez on May 17, 1997.  
Three daughters (Adriana, Isabel, and Emilia)

## **Awards and Honors**

Award for Creativity in Molecular Design and Synthesis (2016)  
ACS Arthur C. Cope Award (2016)  
Honorary PhD Degree, University of South Florida (2015)  
Esselen Award (2015)  
Bristol-DTC-Syngenta Award (2013)  
Remsen Award (2013)  
Fannie Cox Science Teaching Award, Harvard University (2012)  
Chirality Medal (2012)  
Nagoya Gold Medal Award (2011)  
GSK Scholar Award (2011)  
Kosolapoff Award of the Auburn Section of the American Chemical Society (2011)  
Noyori Prize (2011)  
Janssen Pharmaceutica Prize for Creativity in Organic Synthesis (2010)  
Yamada-Koga Prize (2008)  
Elected Member of the National Academy of Sciences (2008)  
ACS H.C. Brown Award for Synthetic Methods (2008)  
Alan R. Day Award (2007)  
Mitsui Catalysis Award (2005)  
Elected Member of the American Academy of Arts and Sciences (2004)  
AIC Chemical Pioneer Award (2004)  
NIH General Medical Sciences Council Member (2003-2007)  
Phi Beta Kappa Teaching Prize (2003)  
NIH Merit Award (2002)  
ACS Award for Creative Work in Organic Synthesis (2001)  
NIH Medicinal Chemistry Study Section Permanent Member (1996-2000)  
Baekeland Award (1999)  
Piero Pino Prize (1999)  
Van't Hoff Prize (1998)  
Harvard College Professorship (1998-2003)  
Fellow of AAAS (1997)  
Thieme-IUPAC Award in Synthetic Organic Chemistry (1996)  
Fluka Prize "Reagent of the Year" (1994)  
ACS Cope Scholar Award (1994)  
Zeneca Chemistry Award (1993)  
Pfizer Young Faculty Award for Synthetic Organic Chemistry (1993)  
University of Illinois Scholar (1992)  
Cyanamid Young Faculty Award (1992)  
Camille and Henry Dreyfus Teacher-Scholar Award (1992)  
A. P. Sloan Foundation Fellowship (1992)  
Union Carbide Innovation Award (1992)  
Merck Faculty Development Award (1991)  
Eli Lilly Grantee (1991)  
Packard Fellowship (1991)  
Beckman Fellow (1991)  
NSF Presidential Young Investigator Award (1990)  
UIUC List of Teachers Ranked as Outstanding by Their Students (5 semesters, 1989-1993)  
University of Illinois School of Chemical Sciences Teaching Award (1989)  
National Institutes of Health Postdoctoral Fellowship (1986-88)  
University of California Regents Fellowship (1984, 1985)  
New York University Chemistry Alumni Award (1982)  
George Granger Brown Award (1981)

## Plenary and Named Lectureships

Harvard University "Merck Centennial Lectureship", Cambridge, MA, June 1, 1992.  
III<sup>me</sup> Cycle Lecturer (Neuchâtel, Bern, Geneva), Switzerland, May 13-19, 1993.  
SUNY Stony Brook, Schering-Plough Lecturer, Stony Brook, NY, April 14, 1994.  
Dartmouth University "Dartmouth Lecture", Hanover, NH, May 11, 1995.  
Hope College 1995 Distinguished Scholar, Holland, MI, June 9, 1995.  
Merck-Lecturer, Universities of Geneva, Basel, and Zurich, June 21-26, 1996.  
Thieme-IUPAC Prize Award Lecture, ICOS-11, Amsterdam, The Netherlands, July 2, 1996.  
Merck-Frosst Lectureship, University of Ottawa, September 9, 1996.  
Merck, Frosst Lectureship, University of British Columbia, Vancouver, November 18-19, 1996.  
Bender Lectureship, Northwestern University, Evanston, IL, August 11-13, 1997.  
Ziegler Lectureship, Max Planck Institute, Muelheim, Germany, December 1-5, 1997.  
Van't Hoff Prize Lecture, Amsterdam, The Netherlands, November 30, 1998.  
Piero Pino Prize Lecture, Naxos, Italy, September 1, 1999.  
Baekeland Award Lecture, ACS North Jersey Regional Section, Madison, NJ, October 26, 1999.  
Beckman Lecture, Caltech, Pasadena, CA, January 19, 2000.  
Dowd Lectures, University of Pittsburgh, Pittsburgh, PA, March 9-10, 2000.  
Phillips Lectures, Haverford College, Haverford, PA, April 5-6, 2000.  
McElvain Lecture, University of Wisconsin, Madison, WI, December 5, 2000.  
Calvin Lecture, University of Minnesota, Minneapolis, MN, December 6, 2000.  
Creativity in Organic Synthesis Award Lecture, ACS Meeting, San Diego, April 2, 2001.  
Wyeth-Ayerst Award Lectureship, Princeton University, Princeton, NJ, November 1, 2001.  
1<sup>st</sup> BMS Lectureship, Caltech, Pasadena, CA, January 28-February 17, 2002.  
Lilly Grantee Symposium Alumni Lecturer, Eli Lilly, Indianapolis, IN, March 4, 2002.  
BMS Lectureship, Columbia University, New York, NY, April 18, 2002.  
Case Western Reserve University "Frontier of Science" Lecturer, September 5, 2002.  
1<sup>st</sup> BMS Lectureship, University of Pennsylvania, Philadelphia, PA, March 19, 2003.  
Carl Shipp Marvel Lectureship, University of Illinois, Urbana, IL, April 9-10, 2003.  
Cliff Hamilton Award Lectures, University of Nebraska, Lincoln, NE, April 17-18, 2003.  
Stieglitz Lecture, University of Chicago, Chicago, IL, May 5, 2003.  
Organic Synthesis Lecture, Carleton College, Northfield, MN, May 9, 2003.  
Ruzicka Lecture, ETH, Zurich, June 30-July 1, 2003.  
BMS Lectureship, University of California, Berkeley, CA, March 16, 2004.  
Abbott Lectureship, Northwestern University, Evanston, IL, April 23, 2004.  
Eli Lilly Lectureship, University of North Carolina, Chapel Hill, NC, May 27, 2004.  
Pfizer Symposium, University of Toronto, Toronto, Canada, September 15, 2004.  
Dawson Lecture, University of Kentucky, Lexington, KY, September 30, 2004.  
Eisai Lecture, University of Montreal, Montreal, Canada, February 2, 2005.  
Bachmann Lectures, University of Michigan, Ann Arbor, MI, March 2-3, 2005.  
Derome Lectures, Oxford University, Oxford, UK, April 27-28, 2005.  
Gordon Hodgson Lecture, Glaxo SmithKline, Research Triangle Park, NC, October 10, 2005.  
Ernest Campaigne Lecture, Indiana University, October 19, 2005.  
Merck Lectures, Cambridge University, Cambridge, UK, June 27-30, 2006.  
MIT Wyeth Lectureship, Cambridge, MA, October 17 and 24, 2006.  
Merck Frosst Lectureship, McGill University, Montreal, Canada, March 13, 2007.  
Pfizer Distinguished Lectureship, Michigan State University, East Lansing, MI, March 22-23, 2007.  
Novartis Lectureship at Central European Universities, Slovak Technical Univ., Bratislava; Inst. of Biomolecular Chemistry, Budapest; Inst. of Chemical Technology, Prague, April 24-26, 2007.  
1<sup>st</sup> Astellas Lectureship, University of Tokyo, Tokyo, Japan, August 8, 2007.

Allan R. Day Award Lecture, University of Pennsylvania, Philadelphia, PA, September 20, 2007.  
Broadbent Lectures, Brigham Young University, Provo, UT, March 12-13, 2008.  
1<sup>st</sup> Daiso Lectureship, Brandeis University, Waltham, MA, March 25, 2008.  
Yamada-Koga Prize Lecture, Tokyo, Japan, November 14, 2008.  
Aldrich Lectureship, The Scripps Research Institute, La Jolla, CA, January 23, 2009.  
Boeringer-Ingelheim Lectureship, Columbia University, New York, NY, October 1, 2009.  
Astra-Zeneca Excellence in Chemistry Award Keynote Lecture, Wilmington, DE, Oct. 14, 2009.  
Closs Lecture, University of Chicago, Chicago, IL, November 30, 2009.  
Wang Yu Memorial Lectureship, Shanghai Institute of Organic Chemistry, May 13, 2010.  
Janssen Prize Lecture, BOSS-XII Symposium, Namur, Belgium, July 15, 2010.  
Noyori Prize Lecture, Tokyo, Japan, February 18, 2011.  
Organic Synthesis Lecturer, University of California, Irvine, CA, February 24-25, 2011.  
Kosolapoff Award Lectures, Auburn University, Auburn, AL, April 14-15, 2011.  
McGavock Lectureship, Trinity University, San Antonio, TX, April 20-21, 2011.  
Alder Lecture, University of Cologne, Köln, Germany, June 20, 2011.  
GSK Scholar Symposium, Glaxo SmithKline, Durham, NC, September 29, 2011.  
Nagoya Gold Medal Lectures, Nagoya, Japan, November 14, 2011.  
Harold Johnston Lecture, Emory University, Atlanta, GA, January 25, 2012.  
Dauben Lecture, University of California, Berkeley, CA, January 31, 2012.  
Aldrich Lecture, University of Utah, Salt Lake City, Utah, February 9, 2012.  
Stuart Rosenfeld Lecture, Smith College, Northhampton, MA, February 28, 2012.  
Hirshmann Lectures, University of Wisconsin, Madison, WI, March 5-6, 2013.  
Andrews Lectures, University of New South Wales, Sydney, Australia, March 19-21, 2013.  
Robinson Lectures, Oxford University, Oxford, United Kingdom, April 29-30, 2013.  
Bristol CDT – Syngenta Award Lectures, University of Bristol, Bristol, UK, May 1, 2013.  
Remsen Award Lecture, Johns Hopkins University, Baltimore, MD, May 28, 2013.  
Felix Serratosa Lectures, Barcelona, Spain, January 19-20, 2015.  
Esselen Award Lecture, Harvard University, April 16, 2015.  
Inaugural Schneller Legacy Lecture, University of South Florida, Tampa, FL, April 30, 2015.  
John Eisch Lectureship, Binghamton University, Binghamton, NY, November 13, 2015.  
Arthur C. Cope Award Lecture, ACS National Meeting, Philadelphia, PA, August 23, 2016.  
Creativity in Molecular Design and Synthesis Award Lecture, Somerset, NJ, December 1, 2016.  
Jean Dreyfus Boissevain Lectureship, University of Puget Sound, Tacoma, WA, February 16-17, 2017.  
Gerhard and Liselotte Closs Memorial Lecture, University of Chicago, Chicago, IL, March 3, 2017.  
Sigma–Aldrich Lecture, University of North Carolina, Chapel Hill, NC, March 30, 2017.  
Debye Lectures, Cornell University, Ithaca, NY, May 4-5, 2017.  
Merck Lecture, University of Michigan, Ann Arbor, MI, August 25, 2017.