CURRICULUM VITA

# Neil E. Schore

1106 Radcliffe Drive, Davis, California 95616 USA Telephone: 530-304-6794 (mobile)
Email: neschore@ucdavis.edu

## Professional Positions

| | |
|---|---|
| 7/12 - present | Adjunct Professor, Korea University International Summer Campus |
| 7/19 - present | Professor Emeritus of Chemistry, University of California, Davis |
| 4/99 - 6/19 | Vice Chair of Chemistry, University of California, Davis |
| 7/88 - 6/19 | Professor of Chemistry, University of California, Davis |
| 7/82 - 6/88 | Associate Professor of Chemistry, University of California, Davis |
| 7/76 - 6/82 | Assistant Professor of Chemistry, University of California, Davis |

## Previous Positions

| | |
|---|---|
| 1/74 - 7/76 | National Institutes of Health Postdoctoral Fellow, California Institute of Technology, Pasadena, CA. Advisor: Robert G. Bergman |
| 9/69 - 12/73 | National Science Foundation and National Institutes of Health Predoctoral Fellow, Columbia U, NY; PhD in Chemistry 12/73. Advisor: Nicholas J. Turro (deceased) |
| 5/69 - 9/69 | Technician, Physical Sciences Department, Schering Pharmaceutical Co., Bloomfield, NJ. Supervisor: Milt Yudis |
| 9/65 - 5/69 | University of Pennsylvania, Philadelphia, PA; BA with honors in Chemistry, *summa cum laude* 5/69. Advisor: Allan R. Day (deceased) |

## Research Interests

Mechanistic and synthetic organic and organometallic chemistry; applications of organometallic chemistry and polymer chemistry to organic synthesis.

## Awards

ASUCD Excellence in Undergraduate Teaching Award: Overall Campus Award, 2011
ASUCD Excellence in Undergraduate Teaching Award: Math & Physical Sciences, 2011
Phi Beta Kappa Northern California Association Excellence in Teaching Award, 2006
Nominated for ASUCD Excellence in Undergraduate Teaching Award, 2003, 2004, 2005
Professor of the Year Award, Chi Omega Sorority, UC Davis, 2003
University of California at Davis Academic Senate Distinguished Teaching Award, 1989
Camille and Henry Dreyfus Teacher-Scholar Award, 1981-85
Magnar Ronning Award for Teaching Excellence, 1979
Sigma Xi, 1974
NIH postdoctoral fellowships, 1974-76
Louis P. Hammett Award for Graduate Study in Chemistry, Columbia University 1973
NIH predoctoral fellowships, 1970-73
NSF predoctoral fellowship, 1969-70
American Society for Testing and Materials Award, University of Pennsylvania, 1969
American Chemical Society Award, University of Pennsylvania, 1969
NSF undergraduate research fellowship, 1968-69
Phi Lambda Upsilon, 1968
Phi Beta Kappa, 1968

Organizations

American Chemical Society Divisions of Inorganic & Organic Chemistry, Professional Relations
Alpha Chi Sigma
International Union of Pure and Applied Chemistry
New York Academy of Sciences; Sigma Xi

Notable accomplishments in teaching and professional service

- Complete redesign over 20 years of undergraduate organic chemistry curriculum, including revision of Chem 8 series, design and implementation of Chem 118 series, and later revision of Chem 118 series to replace 118A wet lab with workshop/discussion
- Design of the B.S. in Chemistry-Environmental Emphasis major program (now B.S. in Applied Chemistry-Environmental Emphasis)
- Design of the B.S. in Chemistry-Pharmaceutical Emphasis major program (now B.S. in Pharmaceutical Chemistry)
- Design of the Integrated B.S./M.S. Program in Pharmaceutical Chemistry and the stand-alone M.S. program in Pharmaceutical Chemistry
- Facilitator for the undergraduate student exchange program with the Tokyo University of Science
- Facilitator for the Quarter Abroad program with Academia Sinica, Taipei, Taiwan
- President, UC Davis chapter of Phi Beta Kappa
- Design of the undergraduate organic chemistry laboratories in the UC Davis Earth and Physical Sciences Building
- Chair, departmental Undergraduate Affairs committee; master undergraduate advisor in the department, 1985-2015
- Chair, departmental Curriculum Committee; responsible for coordination of all course offerings at all levels, responsible for all faculty teaching assignments, responsible for lecturers and graduate student TA assignments and associated budgeting
- Co-author of *Organic Chemistry: Structure and Function* textbook, with Peter Vollhardt of UC Berkeley, and sole author of *Organic Chemistry: Structure and Function--Study Guide and Solutions Manual*, both now in their 8th editions, published by W. H. Freeman and Company; these two books are published in the following languages: English (U.S.), English (International/U.K.), Chinese (Mandarin), Euskara (Basque), French, German, Italian, Japanese, Korean, Portuguese, Spanish, Serbo-Croatian, Turkish and Greek (so far). A pirated Farsi edition is in wide use in Iran.
- Organizer of both the original annual R. Bryan Miller Lectureship in Organic Chemistry, beginning in 2000, and the R. Bryan Miller Symposium that succeeded it in 2006. Responsible for inviting the following keynote speakers: Gilbert Stork (Columbia University, 2000), Steve Weinreb (Penn State, 2001), Clayton Heathcock (UC Berkeley, 2002), Madeleine Joullié (Penn, 2005), Robert Grubbs (CalTech, 2006, Nobel Laureate, 2005), Ron Breslow (Columbia, 2007), and Peter Dervan (CalTech, 2008). This event now spans two days and includes talks on all areas of chemistry related to pharmaceutical development. Each year the participants include a UC Davis alumnus/a, several academic speakers (including the keynote speaker), and several from industry. The event includes a student poster session (both graduate students and undergraduates). The audience includes hundreds of UC Davis undergraduates, graduate students and faculty, and academic and industrial chemists from all over northern California.
- Initial organizer of the annual Richard C. Larock Undergraduate Research Symposium, UC Davis, 2005, which has dozens of student participants giving ACS-style “short” talks on their research work. This is a full-day (Saturday) event every Spring.
- Panelist and panel chair, National Science Foundation Graduate Research Fellowship Program
- National judge, Siemens National High School Science Competition

Recent publications

92. 2005 Song, Y., R. E. Haddad, S.-L. Jia, S. Hok, M. M. Olmstead, D. J. Nurco, N. E. Schore, J. Zhang, J.-G. Ma, K. M. Smith, S. Gazeau, J. Pécaut, J.-C. Marchon, C. J. Medforth and J. A. Shelnutt. Energetics and Structural Consequences of Axial Ligand Coordination in Nonplanar Nickel Porphyrins. Journal of the American Chemical Society 127:1179.

93. 2005 Berget, P. E. and N. E. Schore. Catalytically Active, Recyclable Polymeric Titanocene Disks: A Batch-Flow Reactor. Tetrahedron Letters 46:8869.

94. 2006 N. E. Schore. Perception and Substance: Interactions between Science and Society. Values and Evaluating, R. Keller and W. McConnell, eds., Franke-Verlag, Tübingen, p 161.

95. 2006 Berget, P. E. and N. E. Schore. Recycling Titanocene Dichloride from the Petasis methylenation reaction. Organometallics 25:552. [Cited in *Nachrichten aus der Chemie* **2006**, *54*, 374.]

96. 2006 Hok, S. and N. E. Schore. Synthesis of 2-Arylcycloalka-2,4-dienones using Sulfone-based Methodology. Journal of Organic Chemistry 71:1736.

97. 2006 Vollhardt, K. P. C. and N. E. Schore. Organic Chemistry, Fifth Edition, Freeman, New York, 1254 p.

98. 2006 Schore, N. E. Study Guide and Solutions Manual for Organic Chemistry, Fifth Edition, Freeman, New York, 485 p.

99. 2007 Varela, M. C., S. M. Dixon, M. D. Price, J. E. Merit, P. E. Berget, S. Shiraki, M. J. Kurth, and N. E. Schore. Comparison of enantioselective reductions using bead and monolith "disk" polymer formulations of CBS catalysts. Tetrahedron 63:3334. [previously listed as "Submitted"]

100. 2007 Schore, N. E. Phenylthiomethyl Phenyl Sulfone. Electronic Encyclopedia of Reagents for Organic Synthesis. DOI: 10.1002/047084289X.rn00846.

101. 2007 Berget, P. E., J. M. Teixeira, J. L. Jacobsen, and N. E. Schore. Catalysis by Titanocene-functionalized Polymer-supported Dendrimers. Tetrahedron Letters 48:8101.

102. 2008 Varela, M. C., S. M. Dixon, K. S. Lam and N. E. Schore. Asymmetric Epoxidation, Michael Addition, and Triple Cascade Reaction using Polymer-Supported Prolinol-Based Auxiliaries. Tetrahedron 64:10087.

103. 2009 Lane, D. R., C. M. Beavers, M. M. Olmstead and N. E. Schore. Steric and Electronic Effects of Carbene Substitution in Grubbs First Generation Catalysts. Organometallics 28:6789.

104. 2009 Vollhardt, K. P. C. and N. E. Schore. Organic Chemistry, Sixth Edition, Freeman, New York, 1270 p.

105. 2009 Schore, N. E. Study Guide and Solutions Manual for Organic Chemistry, Sixth Edition, Freeman, New York, 519 p.

106. 2010 Franco, R., J. L. Jacobsen, H. Wang, Z, Wang, K. Istvan, N. E. Schore, Y. Song, C. J. Medforth and J. A. Shelnutt. Molecular Organization in Self-Assembled Binary Porphyrin Nanotubes Revealed by Resonance Raman Spectroscopy. Physical Chemistry Chemical Physics 12:4072.

107. 2010 Martin, K., Z. Wang, T. Busani, R. Garcia, Z. Chen, Y. Jiang, Y. Song, J. Jacobsen, T. Vu, N. Schore, B. Swartzentruber, C. Medforth, J. Shelnutt. Donor-Acceptor Biomorphs from the Ionic Self-Assembly of Porphyrins. J. American Chemical Society 132:8194.

108. 2011 Haddad, R., Y. Lu, J. M. E. Quirke, P. Berget, L. Sun, J. C. Fettinger, K. Leung, Y. Qiu, N. E. Schore, F. van Swol, C. J. Medforth, J. A. Shelnett. Steric Bulkiness of Pyrrole Substituents and the out-of-plane deformations of Porphyrins: Nickel(II) Octaisopropylporphyrin and its *meso*-Nitro derivative. Journal of Porphyrins and Phthalocyanines 15:1.

109. 2012 Schore, N. E. Engaging the Masses: Encouraging All Students to "Buy Into" the Organic Chemistry "Program." Advances in Teaching Organic Chemistry. ACS Symposium Series 1108:73; DOI: 10.1021/bk-2012-1108.

110. 2013 Ye, L; T. Dickerson; H. Kaur; Y. K. Takada; M. Fujita; R. Liu; J. M. Knapp; K. S. Lam; N. E. Schore; M. J. Kurth; Y. Takada. Identification of Inhibitors against Interaction between Pro-inflammatory sPLA2-IIA Protein and Integrin αvβ3. Bioorganic and Medicinal Chemistry Letters 23:340.

111. 2013 Jacobsen, J. L.; P. E. Berget; M. C. Varela; T. Vu, N. E. Schore; K. E. Martin; J. A. Shelnutt; L. M. Santos; C. J. Medforth. Synthesis and Nanostructures of 5, 10, 15, 20-*tetrakis*(4-piperidyl)porphyrin. Tetrahedron 69:10507

112. 2014 Vollhardt, K. P. C. and N. E. Schore. Organic Chemistry, Seventh Edition, Freeman, New York, 1223 p.

113. 2014 Schore, N. E. Study Guide and Solutions Manual for Organic Chemistry, Seventh Edition, Freeman, New York, 485 p.

114. 2018 Vollhardt, K. P. C. and N. E. Schore. Organic Chemistry, Eighth Edition, Freeman, New York, 1472 p.

115. 2018 Schore, N. E. Study Guide and Solutions Manual for Organic Chemistry, Eighth Edition, Freeman, New York, 533 p.

116. 2022 Vollhardt, K. P. C. and N. E. Schore. Organic Chemistry, Eighth Edition, Media Update, Freeman, New York, 1472 p.

117. 2022 Schore, N. E. Study Guide and Solutions Manual for Organic Chemistry, Eighth Edition, Media Update, Freeman, New York, 533 p.