Henry Dreyfus Teacher-Scholar Awards Program

Institution	Awardee	Department	Area of Interest
2018			
Butler University	R. Jeremy Johnson	Chemistry and Biochemistry	Mycobacterial Serine Hydrolases and their Roles in Dormant Tuberculosis Infection
Furman University	Greg Springsteen	Chemistry	Protometabolic Pathways Toward the Origin of Life
James Madison University	Nathan T. Wright	Chemistry and Biochemistry	Towards Stabilizing Disease-causing Desmoplakin Mutations
Lafayette College	Justin K. Hines	Chemistry	Impact of Amino Acid Content on Amyloid and Molecular Chaperone Interactions in Live Cells
Santa Clara University	Korin E. Wheeler	Chemistry & Biochemistry	Toward Prediction of Nanoparticle Biomolecular Interactions and Reactivity
The College of William & Mary	Kristin L. Wustholz	Chemistry	Development of Stimulus-Responsive SERS Probes for Biosensing
University of Colorado Denver	Jefferson Knight	Chemistry	Chemistry of Interfacial Protein-Membrane Interactions Central to Insulin Secretion
University of Wisconsin-Stevens Point	Nathan Bowling	Chemistry	Controlling Conformations of Unsaturated Molecules
2017			
Central Michigan University	Benjamin M. Swarts	Chemistry & Biochemistry	Illuminating the Mycobacterial Cell Wall through Undergraduate Chemical Biology Research
Haverford College	Helen K. White	Chemistry	Physicochemical and Biochemical Insights into the Cycling of Organic Contaminants in Marine Environments
Reed College	Juliane L. Fry	Chemistry	NOx and Particulate Matter: Determining the Chemical Mechanisms Behind Regional Air Pollution
Santa Clara University	Amelia A. Fuller	Chemistry & Biochemistry	New Functions of Biomimetic Oligoamides as Sensors for Water Contaminants
The College of William & Mary	Douglas D. Young	Chemistry	Application of Unnatural Amino Acids to Prepare Multivalent Bioconjugates
University of San Diego	Lauren Benz	Chemistry and Biochemistry	The Surface Chemistry of Complex Materials

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Institution	Awardee	Department	Area of Interest
Western Washington University	John D. Gilbertson	Chemistry	Bioinspired Movement of Protons and Electrons for Small Molecule Activation
2016			
Carleton College	Matthew T. Whited	Chemistry	Exploiting Metal/Main-Group Cooperation in Small Molecule Activation
Franklin & Marshall College	Katherine E. Plass	Chemistry	Engineering Copper Sulfide Nanoparticles to Modulate Ion Exchange and Photocatalysis
Pomona College	Jane M. Liu	Chemistry	Molecular Understanding and Applications of Bacterial RNAs
Swarthmore College	Liliya A. Yatsunyk	Chemistry and Biochemistry	Deciphering the Structure and Dynamics of Quadruplex DNA and DNA-ligand Complexes
The State University of New York at Potsdam	Fadi Bou-Abdallah	Chemistry	Iron Oxidation and Deposition Mechanisms in WT Heteropolymer Ferritins and Ferritin Variants Causing Neuroferritinopathy
University of Richmond	Kelling J. Donald	Chemistry	Weak Interactions and Chemical Bonding Phenomena in Inorganic and Organic Systems: Understanding, Predicting, and Applying
University of San Diego	Timothy B. Clark	Chemistry and Biochemistry	Metal-Catalyzed Borylation Reactions
2015			
Doane College	Andrea E. Holmes	Chemistry	DETECHIP: The Development of a Solid Supported Chemical Sensor Array
Franklin & Marshall College	Scott H. Brewer	Chemistry	Exploring Protein Structure and Hydration with Spectroscopic Reporter Unnatural Amino Acids and Modified Nucleosides
Haverford College	Casey H. Londergan	Chemistry	Development of Site-Specific Vibrational Probes of Dynamic Protein Structure
Hope College	Jeffrey B. Johnson	Chemistry	Carbon-Carbon Single Bond Activation: Mechanistic Understanding Leading to New Methodology
St. Olaf College	Dipannita Kalyani	Chemistry	Pd- and Ni-Catalyzed Carbon-Carbon Bond Formations
The College of William & Mary	Jonathan R. Scheerer	Chemistry	Studies Directed Toward the Synthesis, Reactivity, and Application of Polycyclic Alkaloid Natural Products

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Institution	Awardee	Department	Area of Interest
Western Washington University	Paul Clinton Spiegel	Chemistry	Structure and Function of Ribosome-Dependent GTPases and Blood Coagulation Factor VIII
2014			
Calvin College	Douglas A. Vander Griend	Chemistry and Biochemistry	Thermodynamic Modeling of Molecular Ensembles in Solution, from Supramolecular Assemblies to Biomolecules
Gustavus Adolphus College	Dwight R. Stoll	Chemistry	Fundamental studies in two-dimensional liquid chromatography – Informing the next era in liquid chromatography
Hamilton College	Myriam L. Cotten	Chemistry	
Haverford College	Joshua A. Schrier	Chemistry	Designing Organic Semiconductors, Gas Separation Membranes, and Inorganic Solids
Hope College	Jason G. Gillmore	Chemistry	Synthesis, Photochemistry, Electrochemistry & Computation: Undergraduate Research Toward Photochromic Photooxidants
University of Colorado Denver	Hai Lin	Chemistry	Open-Boundary QM/MM Methods for Multiscale Modeling and Simulations of Chemical Reactions in Complex Environments
Western Washington University	Gregory W. O'Neil	Chemistry	New Sulfone and Silicon-Based Methods for Complex Target Oriented Synthesis
2013			
Bowdoin College	Danielle H. Dube	Chemistry and Biochemistry	Chemical tools to discover & target Helicobacter pylori's glycoproteins
Claremont McKenna College	Kathleen L. Purvis-Roberts	W.M. Keck Science Department	Chemical Mechanism for Particulate Matter Formation from Amines Utilized in Carbon Sequestration Technologies
Harvey Mudd College	David A. Vosburg	Chemistry	Biomimetic Synthesis and Molecular Self-Assembly
Macalester College	Paul J. Fischer	Chemistry	Studies on Group VI and Group VIII Metal Complexes of Donor-Functionalized Cyclopentadienyl and Anionic Bis(phosphino) borate Ligands
Oberlin College	Catherine M. Oertel	Chemistry and Biochemistry	Materials Old and New: Solvothermal Synthesis of Complex Oxides and their Role in Corrosion Mechanisms
University of Richmond	Chiles Wade Downey	Chemistry	Silyl Triflates in the Development of New One-Pot Reactions for the Production of Synthetic Building Blocks

Henry Dreyfus Teacher-Scholar Awards Program

Institution	Awardee	Department	Area of Interest
Villanova University	Amanda M. Grannas	Chemistry	Characterization and reactivity of natural organic matter in environmental ices relevant to atmosphere/snow/ice interactions and glaciology
2012			
Furman University	Brian Goess	Chemistry	Total Synthesis of Furanosteroids
Lafayette College	James Ferri	Chemical and Biomolecular Engineering	Toward Stimulus-Responsive Stability Control in Fluid/Fluid Dispersions using Functionalized Nanoparticles
Savannah State University	Hua Zhao	Natural Sciences, Chemistry Program	Accelerating Enzymatic Hydrolysis of Cellulosic Biomass by Ionic Liquid Pretreatment
Southwestern Oklahoma State University	Tim Hubin	Chemistry and Physics	Development and Screening of Transition Metal Complexes as Chemokine Receptor Antagonists
University of San Diego	Peter Iovine	Chemistry and Biochemistry	Undergraduate Research and Mentoring in Polymeric Materials: Polymers and Self-Assembled Structures from Plant-Derived Biopolymers
University of South Alabama	Alexandra Stenson	Chemistry	Chromatographic and Mass Spectral Characterization of Environmental Mixtures
University of Wisconsin-Eau Claire	Kurt Wiegel	Chemistry	Enhanced Stability and Formation of Hydrogen-bonded Mesophases in Macromolecules
2011			
Bard College	Craig M. Anderson	Chemistry	Synthesis, Characterization, and Reactivity of Hetero-Multinuclear, Anti-Cancer, Metal Complexes
Mount Holyoke College	Megan Núñez	Chemistry	Biophysical Chemistry of DNA Damage and Bacterial Predation
Oberlin College	Rebecca Whelan	Chemistry and Biochemistry	Analytical approaches to the characterization and detection of ovarian cancer biomarker proteins
Swarthmore College	Stephen Miller	Chemistry and Biochemistry	Biochemical and structural studies of interspecies bacterial communication
University of San Diego	Jeremy Kua	Chemistry and Biochemistry	Multiscale Modeling of Formaldehyde Chemistry

Henry Dreyfus Teacher-Scholar Awards Program

Institution	Awardee	Department	Area of Interest
Wellesley College	Donald E. Elmore	Chemistry	Characterization of a Histone-Derived Peptide Library
2010			
Amherst College	Anthony Bishop	Chemistry	Target-Specific Control of Protein Tyrosine Phosphatase (PTP) Activity: Chemical-Genetic Tools for the Study of PTP-Mediated Cell Signaling
Chapman University	Christopher Kim	Chemistry	Nanoscale Environmental Chemistry: Studies of Metal Adsorption / Desorption Interactions with Iron Oxyhydroxide Nanoparticle Aggregates
Colby College	Jeffrey Katz	Chemistry	The Development and Quantitative Measurement of Acetylene-Activated SNAr Reactions and their Application for Complex Macrocycle Synthesis
Haverford College	Alexander Norquist	Chemistry	Organically Template Vanadium Tellurites: A New Target for Novel Microporous Materials
The College of William & Mary	Elizabeth Harbron	Chemistry	New Stimulus-Responsive Fluorescent Systems: Rhodamine Spirolactam Sensors for Mercury and pH
University of Richmond	Michael Leopold	Chemistry	Nanoparticle Film Assemblies as Interfaces for Protein Adsorption and Electrochemistry – Amperometric Sensing Materials for Biomedical Applications
2009			
Bucknell University	Eric Tillman	Chemistry	Direct synthesis of cyclic polymers using nitrones
California State University, Northridge	Jussi Eloranta	Chemistry and Biochemistry	Spectroscopy in condensed phases
College of the Holy Cross	Kenneth Mills	Chemistry	The mechanism of protein splicing: non-canonical inteins
Eastern Illinois University	Sean Peebles	Chemistry	Microwave spectroscopic studies of transition metal complexes prepared by laser ablation
Oberlin College	Manish Mehta	Chemistry and Biochemistry	Ab initio, diffraction, and NMR studies of solvation and hydrogen bonding in small peptides in condensed phases
Smith College	Kate Queeney	Chemistry	Nanoscale topography in a beaker: characterization and development of patterned Si surfaces
Trinity University	Adam Urbach	Chemistry	Rigid receptors for multivalent peptide recognition

Henry Dreyfus Teacher-Scholar Awards Program

Institution	Awardee	Department	Area of Interest
2008			
California State University, Long Beach	Xianhui Bu	Chemistry and Biochemistry	Chirality in Metal-Organic Framework Materials
San José State University	Gilles Muller	Chemistry	Development of Circularly Polarized Luminescence as an Attractive Complementary Method to the Presently Available Techniques for Probing Specific Chiral Structural Changes
Smith College	Shizuka Hsieh	Chemistry	Photochemistry and Overtone-Initiated Chemistry of Atmospheric Hydroperoxides
University of Puerto Rico, Mayagüez Campus	Belinda Pastrana-Rios	Chemistry	An Interdisciplinary Approach Towards the Study of Proteins and Protein-Protein Interactions: From Bioinformatics to Molecular Biophysics
Williams College	Thomas E. Smith	Chemistry	Asymmetric Methods for the Synthesis of Pyran-Based Anticancer Natural Products
2007			
California State University, Northridge	Thomas G. Minehan	Chemistry and Biochemistry	Development of Green Methodology for the Synthesis of 2-deoxy-ß-C-Aryl Glycosides and Application to the Preparation of Natural Products and Nucleoside Analogs.
College of Charleston	Pamela J. Riggs-Gelasco	Chemistry and Biochemistry	Oxygen Activation by Metalloenzymes: The case of Ribonucleotide Reductase from Coryneform ammoniagenes and its facultative metal cofactor.
Kenyon College	Mo Hunsen	Chemistry	Green Chemistry: Chemical, Enzymatic, and Enzychemical Catalysis for the Synthesis of Novel Glycosidase Inhibitors and Biodegradable Polymers.
Mount Holyoke College	Maria Gomez	Chemistry	The Elusive Proton: Finding Conduction Pathways in Solid and Liquid Phases.
Trinity University	Bert D. Chandler	Chemistry	Functional Bimetallic Model Catalysts: Nanoparticle Chemistry and Reaction Kinetics for Characterizing, Evaluating, and Understanding the Active Sites in Heterogeneous Catalysts.
University of Richmond	Michelle L. Hamm	Chemistry	Studies into the base pairing, repair and replication of the prominent promutagen 8-oxo-2'-deoxyguanosine using modified nucleotides.
Wellesley College	Nolan T. Flynn	Chemistry	Development of an electrochemical method for triggering the assembly of metal nanoparticles in aqueous solution.

Henry Dreyfus Teacher-Scholar Awards Program

Institution	Awardee	Department	Area of Interest
2006			
College of the Holy Cross	Kimberley A. Frederick	Chemistry	Studies of flow processes in microfluidic systems involving polyelectrolyte multilayers, thermoresponsive polymers and guanosine gels
Macalester College	Keith T. Kuwata	Chemistry	Computational studies of oxidation intermediates that serve as aerosol precursors and free radical sources in the troposphere
Mount Holyoke College	Wei Chen	Chemistry	Probing the Fundamentals of Wetting and Biocomptibility for the Design of New Materials
The College of William & Mary	John C. Poutsma	Chemistry	Investigation the consequences of non-protein amino acid substitution on the thermochmistry and fragmentation patterns of small peptides
University of North Carolina at Wilmington	Michael Messina	Chemistry and Biochemistry	Viewing enzyme active sites as "quantum controllers" of proton transfer, we propose a quantum control study of the quantum dynamics of proton transfer and tunneling in enzyme active sites.
University of South Alabama	David C. Forbes	Chemistry	Thermally induced decarboxylation of carboxymethylsulfonium betaines results in formation of the corresponding sulfur ylides in situ.
University of Wisconsin-Eau Claire	Stephen Drucker	Chemistry	We will use jet-cooled cavity ringdown spectroscopy to characterize a series of cyclic enones in their triplet excited states.
2005			
Barnard College	Linda H. Doerrer	Department of Chemistry	Transition metal complexes with fluorinated aryloxide ligands are investigated for reactivity with strongly oxidating reagents and potential organic substrate oxidation.
Furman University	Jeffrey T. Petty	Department of Chemistry	Small silver and platinum nanoclusters will be investigated for their potential use as fluorescent biological labels and as chiral catalysts.
Mount Holyoke College	Darren G. Hamilton	Chemistry	Design, synthesis, and characterization of self-organizing molecular systems expressing useful emergent properties.
New Mexico Institute of Mining and Technology	Donald H. Weinkauf	Chemical Engineering	Conformal plasma polymer coatings for the surface modification of micon and nanoscale particles: reactor design and coating characterization
State University of New York at Geneseo	Wendy K. Pogozelski	Chemistry	We will measure deletion events in mitochondrial DNA as a function of gamma ray dose and investigate the effect on NADH: Q oxidoreductase.
Swarthmore College	Kathleen P. Howard	Department of Chemistry and Biochemistry	Development and application of spectroscopic methods (NMR and EPR) to the conformational analysis of membrane-bound viral proteins

Henry Dreyfus Teacher-Scholar Awards Program

Institution	Awardee	Department	Area of Interest
University of Richmond	Carol A. Parish	Department of Chemistry	Computational investigations of biologically important systems: Determining the conformational flexibility of HIV protease inhibitors and the cyclization barriers in enediyne warhead drugs.
2004			
Amherst College	Sandra L. Burkett	Chemistry	Polymerization from inorganic lamellae: nanocomposites of polymer brushes and organically functionalized synthetic clays.
Bates College	Rachel N. Austin	Chemistry	The reaction mechanisms and active site structures of diiron monooxygenases.
California State University, Los Angeles	Matthias Selke	Chemistry & Biochemistry	The reactivity, kinetics, and mechanisms of singlet oxygen reactions with metal-bound amino acids and heteroatoms.
Colby College	Julie T. Millard	Chemistry	Small molecule-DNA interactions with an emphasis on the mechanism of anti-cancer activity.
Concordia College	Darin J. Ulness	Chemistry	An investigation of the fundamental behavior of light-matter interaction in liquids using noisy light spectroscopy.
Santa Clara University	Michael R. Carrasco	Chemistry	Site-specific attachment of small organic molecules to peptides and proteins; structure and function of peptides and proteins altered by attached molecules.
University of the Sciences in Philadelphia	Guillermo Moyna	Chemistry & Biochemistry	Use of theoretical 13C chemical shift surfaces and experimental NMR data in the study of the conformation and dynamics of histo-blood group antigen oligosaccharides.
University of Wisconsin-Eau Claire	James A. Phillips	Chemistry	Matrix-isolation FTIR-spectroscopic, computational, and crystallographic studies of condensed phase effects on structure in nitrile donor-acceptor complexes.
Wheaton College	Daniel L. Burden	Chemistry	The use of single-molecule techniques for the study of ion-channel dynamics and the optical manipulation of DNA.

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2003			
Furman University	Paul S. Wagenknecht	Chemistry	Exploitation of metal complexes of new constrained macrocyclic ligands in electronic energy transfer studies and catalysis
James Madison University	Gina M. MacDonald	Chemistry	An infrared investigation of substrate binding, salt effects and domain movement in yeast phophoglycerate kinase
Mount Holyoke College	Sean M. Decatur	Chemistry	Studies of protein folding and misfolding in vitro: isotope-edited infrared spectroscopy of protein aggregates
Oberlin College	Matthew J. Elrod	Chemistry	Overall rate constant and branching ratio kinetics measurements of the reaction of alkene-derived peroxy radicals with nitric oxide
Occidental College	Eileen M. Spain	Chemistry	Interfacial chemistry of microbial processes relevant to biofilms and nanotechnology
Swarthmore College	Paul R. Rablen	Chemistry and Biochemistry	A Computational Investigation of the Mechanism of Addition of Carbenes to Bicyclobutanes and Cyclopropenes
Wabash College	Scott E. Feller	Chemistry	Computational studies of lipid-protein interactions
2002			
Haverford College	Karin S. Akerfeldt	Chemistry	Synthetic peptides: applications to Ca2+-binding proteins of the EF-hand type, voltage-gated ion channels and novel biomaterials
Missouri State University	Mark M. Richter	Chemistry	Electrochemiluminescence of ruthenium(II) polyazine complexes containing crown-ether moieties in the presence of metal ions
The College of William & Mary	Robert J. Hinkle	Chemistry	Rearrangements and substitution reactions in beta,beta-disubstituted alkenyl(aryl)iodonium salts: exploiting the extremely labile aryliodonio moiety
The University of North Carolina at Charlotte	Daniel Rabinovich	Chemistry	An investigation of the syntheses and structures of nickel compounds in a sulfur-rich environment that mimics hydrogenase enzymes
Trinity University	Christopher Pursell	Chemistry	Heterogeneous chemistry on solid films of nitric acid, ammonia, and hydrogen sulfide
Western Washington University	James R. Vyvyan	Chemistry	Computational investigation of phenol epoxide cyclizations

Henry Dreyfus Teacher-Scholar Awards Program

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2001			
California State University, Los Angeles	Feimeng Zhou	Chemistry and Biochemistry	DNA sensing and protein metal-electron transfer at the metal-solution interface
Illinois Wesleyan University	Ram S. Mohan	Chemistry	Environmentally friendly organic synthesis using bismuth compounds
Occidental College	Michael G. Hill	Chemistry	In Vitro selection of redox-active ribozymes featuring transition-metal cofactors
University of Wisconsin-Eau Claire	Jason A. Halfen	Chemistry	Analysis of the molecular architecture of copper catalysts for olefin aziridination
Western Washington University	David L. Patrick	Chemistry	Liquid crystal solvents for engineered growth of molecular electronics materials
2000			
California State University, Fullerton	Fu-Ming Tao	Chemistry and Biochemistry	Computational investigation of atmospheric oxidation chemistry of volatile organic compounds
Carnegie Mellon University	David J. Yaron	Chemistry	Development of semiempirical quantum chemistry models for the photophysical and electronic properties of conjugated polymers and other organic semiconductors
Furman University	John F. Wheeler	Chemistry	Preparation and characterization of DNA-binding and potential photonuclease activity of several chiral transition metal complexes
Swarthmore College	Robert S. Paley	Chemistry	The chemistry of enantiopure 1-sulfinyl diene iron(0) tricarbonyl complexes
The University of North Carolina at Greensboro	Alice E. Haddy	Chemistry and Biochemistry	Enzymatic and electron paramagnetic resonance characterization of anion inhibitors of chloride-activated oxygen evolution

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1999			
Connecticut College	Marc Zimmer	Chemistry	Computational Analysis of Biologically Important Systems
Fort Lewis College	Robert E. Milofsky	Chemistry	Type II Photooxidation of Substituted Pyrroles: Towards the Development of Solid- and Liquid-Phase Reactors for Environmental and Biomedical Analysis
Hope College	Maria A. Burnatowska-Hledin	Chemistry	Biochemical characterization of VACM-1, a novel protein involved in the regulation of water balance and related to genes that regulate cell growth.
Pomona College	Daniel J. O'Leary	Chemistry	Studies in Organic Synthesis and Conformational Analysis
The College of William & Mary	Robert D. Pike	Chemistry	Chemical Investigations of New Metal-Organic Polymeric Networks
Wake Forest University	S. Bruce King	Chemistry	Bio-organic chemistry of N-hydroxyureas and related compounds
1998			
Bucknell University	Timothy G. Strein	Chemistry	Activation, characterization and application of carbon fiber microelectrodes
College of the Holy Cross	Timothy P. Curran	Chemistry	Creating peptide tertiary structures by linking enforced peptide secondary structures
Florida International University	Kevin E. O'Shea	Chemistry	Fundamental studies of the degradation of organic contaminants using advanced oxidation technologies
Haverford College	Julio C. de Paula	Chemistry	Energy transfer processes in biology and medicine probed by laser spectroscopy
Macalester College	Thomas D. Varberg	Chemistry	Laser spectroscopy of second- and third-row transition-metal monohydrides
Mount Holyoke College	Helen O. Leung	Chemistry	Studies of intermolecular interactions between nonbonded molecules by Fourier transform microwave spectroscopy
San Francisco State University	Ursula Simonis	Chemistry and Biochemistry	Synthesis and characterization of porphyrins and iron porphyrins embedded in model membranes
The University of North Carolina at Charlotte	Bernadette T. Donovan-Merkert	Chemistry	Redox-promoted reactions of organometallic complexes

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University of Richmond	Samuel A. Abrash	Chemistry	An investigation of anomalies in the photochemistry of weakly bound complexes
1997			
Central Washington University	JoAnn Peters DeLuca	Chemistry	
United States Naval Academy	Mark L. Campbell	Chemistry	
University of Massachusetts Dartmouth	Bal Ram Singh	Chemistry and Biochemistry	
University of Puerto Rico, Mayagüez Campus	Gustavo López	Chemistry	
University of South Alabama	Jeffry D. Madura	Chemistry	
1996			
Amherst College	Mark D. Marshall	Chemistry	
Florida Atlantic University	Russell G. Kerr	Chemistry	
The College of William & Mary	Christopher J. Abelt	Chemistry	
University of Massachusetts Dartmouth	Gerald B. Hammond	Chemistry	
Wellesley College	Christopher R. Arumainayagam	Chemistry	

Henry Dreyfus Teacher-Scholar Awards Program

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1995			
Bates College	Thomas G. Lawson	Chemistry	
Illinois State University	Karen I. Goldberg	Chemistry	
Rutgers, The State University of New Jersey, Camden	Georgia A. Arbuckle	Chemistry	
Trinity University	Michelle M. Bushey	Chemistry	
Western Washington University	Mark E. Bussell	Chemistry	
1994			
Furman University	Moses Lee	Chemistry	
Harvey Mudd College	Kerry K. Karukstis	Chemistry	
Michigan Technological University	Faith A. Morrison	Chemical Engineering	
Middlebury College	James A. Larrabee	Chemistry and Biochemistry	
Rutgers, The State University of New Jersey, Camden	Jing Li	Chemistry	
Swarthmore College	Thomas A. Stephenson	Chemistry	
University of Puerto Rico, Mayagüez Campus	Juan López-Garriga	Chemistry	
Wake Forest University	Mark E. Welker	Chemistry	