

## Camille Dreyfus Teacher-Scholar Awards Program

<u>Institution</u>	<u>Awardee</u>	<u>Department</u>	<u>Area of Interest</u>
2010			
Case Western Reserve University	R. Mohan Sankaran	Chemical Engineering	A new paradigm for plasma processing: Microplasma synthesis of nanomaterials for catalytic, electronic, and photovoltaic applications
Indiana University	Amar Flood	Chemistry	Strong CH $\cdots$ Anion Hydrogen Bonds from Triazoles and in Triazolophanes
Louisiana State University	Jayne Garno	Chemistry	Combining Magnetic Sample Modulation (MSM) with Contactless Atomic Force Microscopy for Measurement of Magnetic Properties at the Nanoscale
Queens College, City University of New York	Seogjoo Jang	Chemistry and Biochemistry	Theory development and computational modeling of exciton and electron/hole migration in soft disordered environments
The University of Chicago	Dmitri Talapin	Chemistry	III-V semiconductors through solution-phase synthesis and self-assembly
The University of Wisconsin, Madison	Tehshik Yoon	Chemistry	Novel Strategies for Catalytic Redox Reactions
University at Buffalo, The State University of New York	Matthew Disney	Chemistry	Progress Towards the Rational and Modular Design of Small Molecules Targeting RNA
University of California, Berkeley	Rachel Segalman	Chemical Engineering	Functional Nanoscale Polymers for Energy Applications: Molecular Design, Self-Assembly and Structure-Device Property Relationships
University of California, Santa Barbara	Song-i Han	Chemistry and Biochemistry	Unraveling the role of hydration water in protein dynamics and function
University of Illinois at Urbana-Champaign	Benjamin McCall	Chemistry and Astronomy	Astrochemistry: combining high resolution spectroscopy and measurements of reaction kinetics/dynamics with astronomical observations and modeling
University of Michigan	Kate Carroll	Chemistry and The Life Sciences Institute	Painting the Cysteine Chapel: New Tools to Probe Oxidation Biology
University of Minnesota	Kevin Dorfman	Chemical Engineering and Materials Science	Simulating DNA Electrophoresis in Complex Geometries
University of Virginia	B. Jill Venton	Chemistry	Tiny sensors for tiny organisms: measuring neurotransmitter dynamics in the fruit fly brain.

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Virginia Polytechnic Institute and State University	Edward Valeev	Chemistry	Predictive computation of molecular properties with explicitly correlated wave function methods: energetics, spectra, transport.

2009

California Institute of Technology	Shu-ou Shan	Chemistry	Towards a new paradigm for GTPase regulation of intracellular protein targeting.
Columbia University in the City of New York	Laura J. Kaufman	Chemistry	The Effects of Crowding on Dynamics Across Length Scales and Across Disciplines
Cornell University	Abraham Stroock	Chemical and Biomolecular Engineering	Science and engineering of metastable liquid water in synthetic trees.
Duke University	Katherine J. Franz	Chemistry	Chemical Tools to Manipulate Metal-Catalyzed Oxidative Stress
Harvard University	Alán Aspuru-Guzik	Chemistry and Chemical Biology	Quantum Computation and Quantum Information for Chemistry
New Mexico State University	Jeremy M. Smith	Chemistry and Biochemistry	Research on "nitrogen atom transfer" by three-fold symmetric iron nitrido complexes and description of the electronic structures of thermally stable iron(IV) complexes.
University of California, Berkeley	Richmond Sarpong	Chemistry	New strategies and methods for the total synthesis of natural and unnatural compounds using metal-catalyzed reactions.
University of California, Davis	Xi Chen	Chemistry	Chemoenzymatic Approaches for Chemical Glycobiology
University of California, Irvine	Alan F. Heyduk	Chemistry	Redox-Active Ligands as a New Paradigm for Multi-Electron Small-Molecule Reactions Relevant to Energy Efficiency
University of California, Santa Barbara	Todd M. Squires	Chemical Engineering	Dynamic effects at physico-chemical interfaces
University of Florida	So Hirata	Chemistry	The developments and applications of predictive electronic and vibrational many-body methods for molecules and macromolecules.
University of Michigan	Suljo Linic	Chemical Engineering	Heterogeneous catalysis in 21st Century: well defined, high uniform, targeted nano-structures as highly selective heterogeneous catalysts, photo-catalysts, and characterization tools

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University of Minnesota	Christy L. Haynes	Chemistry	Electroanalytical Eavesdropping on Cellular Communications
University of South Carolina	Paul Ryan Thompson	Chemistry and Biochemistry	Chemical Biology of Eukaryotic Gene Regulation
<b>2008</b>			
Cornell University	Garnet K. Chan	Chemistry and Chemical Biology	Building New Paradigms in Quantum Chemistry: from Quantum Renormalisation Groups to Quantum Tensor Networks
Massachusetts Institute of Technology	Mohammad Movassaghi	Chemistry	Syntheses of Biologically Interesting Alkaloids and the Development of New and General Routes to Nitrogen-containing Heterocycles
Northwestern University	Lincoln J. Lauhon	Materials Science and Engineering	Development of Quantitative Synthesis-Structure-Property Relationships for Nanostructured Materials
Texas A&M University	Victor M. Ugaz	Chemical Engineering	Directed Assembly of Ultra-concentrated Mesophases: a New Way to Detect and Characterize Biomolecules
The Johns Hopkins University	Justine P. Roth	Chemistry	Fundamental Principles of Oxidation Chemistry Relevant to Biology and Medicine
The Ohio State University	Dongping Zhong	Physics and Chemistry	Ultrafast Functional Dynamics of Biomolecules
The University of North Carolina	Garegin Papoian	Chemistry	Multi-Scale Modeling of Biophysical Processes in the Cell
The University of Texas at Austin	Christopher W. Bielawski	Chemistry and Biochemistry	Reversible Polymers Based on Biscarbenes: Creating New Opportunities in Self-Healing Electronics, Catalysis, and Emissive Materials
University of California, Berkeley	Haw Yang	Chemistry	Single-Molecule Approaches Towards Understanding Chemical Reactivity in Complex Systems
University of California, Los Angeles	Yi Tang	Chemical and Biomolecular Engineering	Natural Product Biosynthetic Pathways for Novel Enzymes and Useful Biocatalysts
University of California, Santa Barbara	Thuc-Quyen T. Nguyen	Chemistry and Biochemistry	Understanding Charge Transport and Electronic Properties of Small Conjugated Molecules and Conjugated Polyelectrolytes for Applications in Optoelectronic Devices

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University of Houston	Olafs Daugulis	Chemistry	New Synthetic Organic Chemistry Reactions Involving Transition-Metal Mediated Electrophilic C-H Bond-Activation
University of Illinois at Urbana-Champaign	M. Christina White	Chemistry	Aliphatic and Allylic C-H Oxidations Methods for Streamlining Complex Molecule Synthesis
University of South Carolina	Qian Wang	Chemistry and Biochemistry	Hierarchical Micro-Nano Assemblies for Probing Cell-Matrix Interactions
Virginia Polytechnic Institute and State University	Theresa M. Reineke	Chemistry	Carbohydrate-Based Polymers for Cardiovascular Nucleic Acid Delivery and MRI
<b>2007</b>			
Brandeis University	Oleg V. Ozerov	Chemistry	Recyclable catalysts and structural discovery through ligand design
Emory University	Justin P. Gallivan	Chemistry	Reprogramming Bacteria with Small Molecules and RNA
Harvard University	Gavin MacBeath	Chemistry and Chemical Biology	Receptor Tyrosine Kinase Promiscuity and Cancer
Massachusetts Institute of Technology	Michael S. Strano	Chemical Engineering	Conduction channel spectroscopy: a new tool to study the chemistry of 1-D systems
Northwestern University	Bartosz A. Grzybowski	Chemical Engineering and Chemistry	Electrostatic Self-assembly of Static and Dynamic Nanostructures and Nanostructured Materials.
Rice University	Jeffrey D. Hartgerink	Chemistry and Bioengineering	Self-assembly of nanostructured organic materials for biomedical applications and multi-disciplinary education
The Pennsylvania State University	Raymond E. Schaak	Chemistry	Chemical Strategies for the Synthesis of Multi-Metal Nanomaterials: Exploring Uncharted Territory in the Synthesis of Metallurgical Solids
The University of Chicago	David A. Mazziotti	Chemistry	Blueprints of Atoms and Molecules: Two-particle Density-Matrix Representations of Electronic and Nuclear Motion
The University of Wisconsin, Madison	Helen E. Blackwell	Chemistry	Expanding the Language of Bacterial Communication Using Synthetic Ligands

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University of California, Irvine	Sergey Nizkorodov	Chemistry	Laboratory studies of chemical processes taking place in atmospheric aerosol particles
University of California, Santa Barbara	Frank L. H. Brown	Chemistry and Biochemistry	Theoretical studies of biomembrane dynamics and structure, single molecule spectroscopy, and stochastic processes in chemistry and biophysics
University of Massachusetts, Amherst	Jeffrey M. Davis	Chemical Engineering	Understanding the Dynamics of Microscale Flows Over Heterogeneous Surfaces
University of Minnesota	Efrosini Kokkoli	Chemical Engineering and Materials Science	Biomimetic approaches for the design of materials and therapeutics
University of Pennsylvania	Ivan J. Dmochowski	Chemistry	Chemical tools for elucidating complex biological processes such as brain development, limb regeneration, and tumorigenesis
University of Washington, Seattle	David S. Ginger	Chemistry	Probing Optoelectronic Processes in Nanostructured Organic Solar Cells

### 2006

Arizona State University	Dong-Kyun Seo	Chemistry and Biochemistry	Theoretical and Experimental Studies on Itinerant Electron Magnetism in Intermetallics
Cornell University	Paul J. Chirik	Chemistry and Chemical Biology	New Transition Metal Reagents for Energy-Efficient, Environmentally Benign Chemical Synthesis
Emory University	James T. Kindt	Chemistry	Simulation and statistical theory of self-assembled systems: Molecular and mesoscale modeling of mixed membranes and more
Massachusetts Institute of Technology	Alice Y. Ting	Chemistry	New chemical methodologies for cellular imaging
North Carolina State University	Orlin D. Velev	Chemical and Biomolecular Engineering	Colloidal and Biocolloidal Engineering on Electrically Controlled Microchips: New Principles for Making Bionanomaterials, Microbioassays and Microrobots
The Johns Hopkins University	David H. Gracias	Chemical and Biomolecular Engineering	A Research and Education Program in Nano and Microscale Self Assembly: Integrated circuits, chemical sensors and remote controlled chemistry
The Ohio State University	Heather C. Allen	Chemistry	Atmospheric Aerosol Chemistry: Understanding How Liquid and Solid Surfaces Mediate Aerosol Chemistry

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The Pennsylvania State University	Carsten Krebs	Biochemistry and Molecular Biology	Mechanisms of Iron-containing Enzymes: Characterization of reaction intermediates by a combination of rapid kinetic and spectroscopic methods
The University of Chicago	Chuan He	Chemistry	Developing Chemical Probes to Study DNA Repair and DNA Methylation/Demethylation
The University of North Carolina at Chapel Hill	Jeffrey S. Johnson	Chemistry	The Application of Polarity Reversal Concepts in the Discovery of New Catalysts and Chemical Reactivity
University of California, Santa Barbara	Patrick S. Daugherty	Chemical Engineering	Molecular Specificity Evolution: Enabling Technology for Therapeutic Engineering and Diagnostic Proteome Fingerprinting
University of Illinois at Chicago	Yoshitaka Ishii	Chemistry	Expanding Boundaries of Structural Analysis by Solid-State NMR: From Paramagnetic Complexes to Misfolding of Amyloid Proteins
University of Illinois at Urbana-Champaign	Paul J. Hergenrother	Chemistry	Targeting mRNA for the Treatment of Neurodegenerative Disorders
University of Michigan	John P. Wolfe	Chemistry	New Reactions for the Construction of Biologically Active Molecules and Intermediates of Synthetic Importance
University of Pennsylvania	Eric Meggers	Chemistry	Chemical Biology with Organo-Metallic Compounds

### 2005

Boston College	Shana O. Kelley	Chemistry	Cellular and Molecular Probes of Oxidative Biomolecular Damage
California Institute of Technology	Brian M. Stoltz	Chemistry and Chemical Engineering	Complex Natural Products as a Driving Force for Discovery in Organic Chemistry
Columbia University	Brian R. Gibney	Chemistry	Design of Synthetic Metalloproteins Using Nonnatural Amino Acid Ligands
Georgia Institute of Technology	Marcus Weck	Chemistry and Biochemistry	Densely Multifunctional Copolymers: Nature-Inspired Use of Multi-Recognition Site Self-Assembly Onto Polymer Backbones for Materials Applications
Harvard University	Xiaowei Zhuang	Chemistry and Chemical Biology	Exploring RNA-protein interactions and virus infections by ultra-sensitive fluorescence imaging and single-molecule spectroscopy

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Indiana University	Daniel J. Mindiola	Chemistry	New Paradigms in Early Transition Metal Complexes Containing Reactive Metal-Ligand Multiple Bonds
North Carolina State University	Jason M. Haugh	Chemical Engineering	Seminal and integrative advances in cell signaling from molecular structure and function to pathways, cell function, and tissue response
The Pennsylvania State University	Christine D. Keating	Chemistry	Chemical approaches to the materials/biology interface: nanobiosensors and synthetic cells
The University of Chicago	Rustem F. Ismagilov	Chemistry	Supporting Undergraduate Research to Understand Complex Chemical and Biochemical Reaction Networks Top-Down and Bottom-Up Using Microfluids
University of California, Berkeley	Kristie A. Boering	Chemistry and Earth & Planetary Science	Atmospheric Chemistry and Climate on Earth and Other Exotic Planets: From the Molecular to the Global Scale
University of California, Irvine	Zhibin Guan	Chemistry	Programing Non-Covalent Interactions into Polymers for High-Order Structures and Advanced Properties.
University of California, Los Angeles	Yung-Ya Lin	Chemistry and Biochemistry	Seeing the Seeds of Cancer: Contrast and Sensitivity Enhancement for Early MRI Tumor Detection by the Butterfly Effect and Chaos Control
University of Rochester	Todd D. Krauss	Chemistry	Investigations of fundamental properties of nanometer scale materials, and the development of nanomaterials for novel applications in photonics and biology.
University of Utah	Janis Louie	Chemistry	The Development of Transition Metal Catalysts for New Cycloaddition Reactions.
University of Washington	Daniel Gamelin	Chemistry	High-Tc Ferromagnetic Semiconductors for Spintronics Applications: Development, Physical Characterization, and Chemical Manipulation
Yale University	Victor Batista	Chemistry	Development of Semiclassical and Quantum Dynamical Methods for Quantum Reaction Dynamics Simulations

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Columbia University	Colin P. Nuckolls	Chemistry	Nanoscale electronic materials from self-assembled organic building blocks
Georgetown University	Jennifer A. Swift	Chemistry	Surface Chemistry Approaches to Understanding & Directing Molecular Crystal Growth Processes
Harvard University	David R. Liu	Chemistry and Chemical Biology	Organic Synthesis Programmed by DNA Templates
Princeton University	Stanislav Shvartsman	Chemical Engineering	Quantitative Analysis of Receptor-mediated Gene Expression
Stanford University	Justin Du Bois	Chemistry	Reaction design for the synthesis of neuroactive agents
The Pennsylvania State University	Blake R. Peterson	Chemistry	Synthetic receptor targeting as a novel tool for drug delivery
The University of Arizona	Andrei Sanov	Chemistry	Photoelectron imaging of the electronic structure and time-resolved dynamics of molecular cluster anions: Unraveling the driving force of chemistry
The University of Chicago	Sergey A. Kozmin	Chemistry	Chemical Synthesis: from Molecular Complexity and Skeletal Diversity to Cell-Regulatory Function
University of California, Berkeley	Peidong Yang	Chemistry	Chemistry and physics of semiconductor nanowires.
University of California, Riverside	Pingyun Feng	Chemistry	Development of Novel Porous Materials as Fast Ion Conductors and Photocatalysts
University of Illinois at Urbana-Champaign	Neil L. Kelleher	Chemistry	The evolution of large molecule Mass Spectrometry
University of Michigan, Ann Arbor	Nils G. Walter	Chemistry	Structural dynamics and function of RNA enzymes highlighted by fluorescence spectroscopy at the single-molecule and ensemble levels
University of Utah	Matthew S. Sigman	Chemistry	Physical Organic Chemistry as a Tool for Catalyst Design and Development

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California Institute of Technology	David W. C. MacMillan	Chemistry and Chemical Engineering	Enantioselective organocatalysis: Design of new catalysis concepts of broad utility to asymmetric chemical synthesis
Carnegie Mellon University	Catalina Achim	Chemistry	Design and synthesis of biology-inspired metal-containing nanostructures with potential applications in molecular electronics
Cornell University	Kelvin H. Lee	School of Chemical and Biomolecular Engineering	New microfabricated technologies for proteome analysis
Georgia Institute of Technology	Louis A. Lyon	Chemistry and Biochemistry	Design, synthesis, and self-assembly of stimuli-sensitive core/shell hydrogel nanoparticles
Harvard University	Hongkun Park	Chemistry and Chemical Biology	Transport and scanned probe investigation of chemical nanostructures
Massachusetts Institute of Technology	Jianshu Cao	Chemistry	Statistical analysis of single molecule measurements and theoretical description of non-exponential and non-Gaussian single-particle slow dynamics
Princeton University	Suzanne Walker	Chemistry	Understanding post-translational modifications: chemical approaches to identifying the O-GlcNAcylated proteome
Stanford University	Vijay S. Pande	Chemistry	New methods for the simulation of the kinetics and thermodynamics of biological molecules
Texas A&M University	Paul S. Cremer	Chemistry	Investigations of the lower critical solution temperature of polymers and proteins with a linear temperature array
The Scripps Research Institute	Floyd E. Romesberg	Chemistry	New approaches to combating antibiotic resistance
The University of Texas at Austin	Michael J. Krische	Chemistry and Biochemistry	Catalytic reductive C-C bond formation: elemental hydrogen as terminal reductant
The University of Wisconsin, Madison	Shannon S. Stahl	Chemistry	Catalytic methods for selective chemical oxidation with molecular oxygen
University of California, Los Angeles	Christopher J. Lee	Chemistry and Biochemistry	Deciphering alternative splicing in the human genome: the new frontier in genomic complexity and proteome functional regulation

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2002			
California Institute of Technology	Jonas C. Peters	Chemistry and Chemical Engineering	New strategies in catalysis with novel coordination complexes
Carnegie Mellon University	David S. Sholl	Chemical Engineering	Development and applications of intrinsically chiral solid surfaces based on metals, semiconductors, and natural minerals
Columbia University	Dalibor Sames	Chemistry	C-H bond activation in complex chemical assembly
Georgia Institute of Technology	Robert M. Dickson	Chemistry	Single-molecule electroluminescence in nanotechnology - from fundamental understanding to device development
Harvard University	David R. Reichman	Chemistry and Chemical Biology	Dynamics and spectroscopy of molecules in superfluid helium clusters
New York University	Mark E. Tuckerman	Chemistry	Theoretical studies and new-methods development for proton-transfer processes in biologically and technologically important systems
Northwestern University	Annelise E. Barron	Chemical Engineering	N-substituted glycine oligomers (peptoids) with helical, amphipathic structure as biostable mimics of antimicrobial peptides
Princeton University	Jeffrey D. Carbeck	Chemical Engineering	Measurements and modeling of electrostatic interactions in folded and denatured proteins
Purdue University	Jillian M. Buriak	Chemistry	Nanoscale semiconductor surface chemistry
Stanford University	Hongjie Dai	Chemistry	Carbon nanotubes as a model system for nanoscale chemistry and physics
University of California, Los Angeles	Michael W. Deem	Chemical Engineering	Statistical mechanical studies of zeolite nucleation
University of Illinois at Urbana-Champaign	Wilfred van der Donk	Chemistry	Exercises in understanding enzyme catalysis
University of Utah	Peter A. Beal	Chemistry	In vitro evolution of RNA for selective binding to acridine-peptide conjugates

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University of Washington	Younan Xia	Chemistry	Chemistry and the physics of one-dimensional nanostructures
Wayne State University	Theodore G. Goodson	Chemistry	Ultra-fast optical investigations of novel dendrimer macromolecules and dendrimer metal nanocomposites for applications in photonics
2001			
Brandeis University	Wenbin Lin	Chemistry	Crystal engineering of polar and chiral solids for applications in nonlinear optics and enantioselective separations and catalysis
Duke University	Ross Widenhoefer	Chemistry	Palladium-catalyzed carbocyclization of functionalized dienes
Harvard University	Matthew Shair	Chemistry and Chemical Biology	Target-oriented and diversity-oriented synthesis of complex molecules applied to chemical biology
North Carolina State University	Jan Genzer	Chemical Engineering	Self- and directed assembly of polymers in thin films and at interfaces
Northwestern University	Amy Rosenzweig	Biochemistry, Molecular Biology and Cell Biology and Chemistry	Metal trafficking by copper ATPases
Rice University	Vicki Colvin	Chemistry	Protein crystals as scaffolds for materials design
The Pennsylvania State University	Philip Bevilacqua	Chemistry	Mechanistic studies of general acid-base catalysis and folding complexity in the HDV ribozyme
The Scripps Research Institute	Erik Sorensen	Chemistry	Profiling the chemical reactivity of complex proteomes
The University of Wisconsin, Madison	Paul Nealey	Chemical Engineering	Hybrid nanofabrication techniques combining advanced lithography and self-assembling systems for applications in molecular electronics and cell culture
University of California, Los Angeles	Benjamin Schwartz	Chemistry and Biochemistry	Experimental and theoretical studies of ultrafast processes in condensed phases: charge transfer, conjugate polymer/metal interfaces, and multiphoton lithography
University of Illinois at Urbana-Champaign	David Gin	Chemistry	Development and application of novel and practical methods for the efficient synthesis of complex carbohydrates

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University of Minnesota	Richard Hsung	Chemistry	Development of novel methodologies for synthesis of natural products with biological and medicinal relevance
University of Notre Dame	Olaf G. Wiest	Chemistry and Biochemistry	Electron-transfer-induced reactions in organic and bio-organic chemistry
University of Oregon	Mark Lonergan	Chemistry	Engineering depletion regions and controlling interfacial reactivity at conjugated polymer interfaces through internal compensation
University of Rochester	Benjamin Miller	Chemistry	Understanding carbohydrate recognition through the design, synthesis, and analysis of synthetic receptors
Utah State University	John Peters	Chemistry & Biochemistry	Investigating the biochemical mechanism of reactions catalyzed by enzymes that contain transition metals using structure determination by X-ray diffraction methods

### 2000

Boston College	Scott J. Miller	Chemistry	Discovery of new catalysts for the asymmetric synthesis of compounds of pharmaceutical interest
Columbia University	James L. Leighton	Chemistry	New methods and strategies for the synthesis of antibiotic medicinal agents
Cornell University	Geoffrey W. Coates	Chemistry and Chemical Biology	New catalysts for the synthesis of biodegradable polycarbonates from CO <sub>2</sub>
Duke University	Mark W. Grinstaff	Chemistry	Mechanistic studies of charge transfer in DNA
Northwestern University	Hilary A. Godwin	Chemistry	Elucidation of the molecular mechanism of lead poisoning: biochemistry and aqueous coordination chemistry of Pb(II)
Stanford University	Thomas J. Wandless	Chemistry	New strategies to improve protein-ligand binding interactions
The Johns Hopkins University	John P. Toscano	Chemistry	Rational design of novel photochemical precursors to nitric oxide
The University of Chicago	Milan Mrksich	Chemistry	Tailored substrates for mechanistic studies of cell adhesion

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University of California, Berkeley	Jeffrey R. Long	Chemistry	Manipulating inorganic structures: general strategies for the synthesis of multimetal clusters and extended solid materials
University of California, Santa Barbara	Timothy Deming	Chemistry and Biochemistry	Transition-metal complexes for peptides and polypeptide synthesis
University of Colorado	Kristi S. Anseth	Chemical Engineering	Novel photocrosslinkable materials and photopolymerization methods
University of Illinois at Urbana-Champaign	Todd J. Martinez	Chemistry	First-principles modeling of reaction dynamics including quantum effects
University of Massachusetts, Amherst	James J. Watkins	Chemical Engineering	Novel deposition methods for the preparation of nanostructured devices
University of Minnesota	Marc A. Hillmyer	Chemistry	Design, synthesis, and application of new functional block copolymers
University of New Mexico	Deborah G. Evans	Chemistry	Development of computational techniques and methods to simulate electron transfer in molecular arrays
University of North Carolina at Chapel Hill	Michel R. Gagné	Chemistry	An outer-sphere approach to controlling catalytic reaction selectivities
University of Pennsylvania	Patrick J. Walsh	Chemistry	Chiral environment amplification: use of achiral ligands in asymmetric catalysis
University of South Carolina	Uwe H. F. Bunz	Chemistry and Biochemistry	Synthesis and property evaluation of novel organic semiconductors based on poly(paraphenyleneethynylene)s