

*FY 2004 Presidential Early Career Awards for
Scientists and Engineers (PECASE)
Recognition Ceremony*



*National Science Foundation
Tuesday, June 14, 2005
Stafford II - Room 555
10:00am – 12:00pm*



*Derrick T. Brazill
City University of New York – Hunter College*

*“In recognition for significant contributions to
understanding how cells sense their surroundings,
and for incorporating his research into teaching and
mentoring of minority students.”*



*Donna L. Maney
Emory University*

*“In recognition for innovative research on influences of
the natural environment on brain processes
controlling behavior, and for developing science-
intensive writing courses for students and training
high-school teachers.”*



*Russell S. Schwartz
Carnegie-Mellon University*

*“In recognition for developing computational methods
for simulating self-assembly systems in cells along
with tools and curricula to train a new generation
of computational biologists in modeling and
predicting cell functions.”*



*David V. Anderson
Georgia Institute of Technology*

*“In recognition for his innovations combining ultra-
low power analog processing with digital
computing, and for his outreach and educational
impact through new digital-analog design courses
delivered over the Internet.”*



*Elaine Chew
University of Southern California*

*“In recognition for her research on performer-centered
approaches to computer-assisted music making, and
for her efforts to integrate research and education
at the intersection of music and engineering.”*



Shalinee Kishore
Lehigh University

"In recognition for innovative research on ubiquitous wireless access to communication networks, and for her educational and outreach activities in Susquehanna County."



ChengXiang Zhai
University of Illinois at Urbana-Champaign

"In recognition for his work on user-centered adaptive information retrieval that improves accuracy of search engines and text understanding, and for his effort in providing an excellent interdisciplinary training environment for students."



Becky W. Packard
Mount Holyoke College

"In recognition for innovative research investigating factors that attract and retain low-income urban youth (mostly ethnic minorities) into science and technology education and career paths, and for involving undergraduates in her research."



Michael A. Bevan
Texas A & M University

"In recognition for research on manipulating complex colloidal interactions to enable the formation of novel thermodynamic structures and for developing visualization tools for outreach activities."



Martin L. Culpepper
Massachusetts Institute of Technology

"In recognition for his research that will advance the understanding of nanoscale positioning and manipulating and for his mentoring activities including outreach to minority students."



Michael J. Garvin II
Columbia University

"In recognition of the development of new ideas and tools to make better civil infrastructure decisions and for activities involving continuing education workshops and middle school outreach efforts."



Jennifer A. Jay
University of California, Los Angeles

"In recognition for research addressing the public health threat of mercury contamination of food chains and for outreach and mentoring activities involving women and minorities."

UCLA



Jun Jiao
Portland State University

"In recognition for fabrication of new single carbon nanotube emitters and for educational activities involving undergraduate students and outreach to high school and K-12 students."

**PORTLAND STATE
UNIVERSITY**



Wei Li
University of Washington

"In recognition for work involving an innovative fabrication process for hierarchically structured open cell porous polymeric materials and for outreach to underrepresented groups."

**UNIVERSITY OF
WASHINGTON**



Paul H. Barber
Boston University

"In recognition for research on biological and oceanographic processes underlying the biodiversity of Pacific coral reefs and for exemplary education programs for undergraduates from under-represented groups."

**BOSTON
UNIVERSITY**



Frank L. H. Brown
University of California, Santa Barbara

"In recognition for the development of novel techniques for the computer simulation of cellular membranes, and for his key role in the creation of a new Computational Science and Engineering program designed to modernize the curriculum and introduce students to important new directions in cyberscience."

UCSB UNIVERSITY OF CALIFORNIA, SANTA BARBARA



Daniel J. Mindiola
Indiana University

"In recognition for developing the chemistry of early-transition metal complexes containing metal-ligand multiple bonds to carbon, nitrogen and phosphorus, and for implementing a classroom concept-mapping assessment technique in chemistry."

INDIANA UNIVERSITY



Sean Gavin
Wayne State University

"In recognition for theoretical work probing the dynamics of relativistic heavy-ion collisions, and also for efforts to improve science training of pre-service teachers."



Oscar D. Dubon, Jr.
University of California, Berkeley

"In recognition for fundamental details of crystal growth utilizing the surfactant effect in hetero-epitaxial growth of silicon-germanium on crystalline calcium fluoride, and also for activities that address interests of high school, community college, and university students."



Marianella Casasola
Cornell University

"In recognition for her work on the influences of children's language environments on their development of spatial concepts, as well as her mentoring and community activities."

