

## Nancy Makri

*Edward William and Jane Marr Gutgsell Professor  
Professor of Chemistry and Professor of Physics  
University of Illinois at Urbana-Champaign*

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### PERSONAL

Born: September 5, 1962; Athens, Greece  
Citizenship: United States  
Married: Martin Gruebele, 1992  
Children: Alexander (born 1994) and Valerie (born 1997)

### EDUCATION

B.S.: Chemistry, March 1985, University of Athens  
Ph.D.: Chemistry, May 1989, University of California at Berkeley

### EMPLOYMENT

Research Fellow, National Hellenic Research Foundation, Athens, 1984-85  
Research Assistant, Department of Chemistry, University of California at Berkeley,  
1985-89  
Junior Fellow, Society of Fellows, Harvard University, 1989-91  
Visiting Scientist, AT&T Bell Laboratories, summer 1990  
Assistant Professor, Department of Chemistry, University of Illinois, 1992-96  
Associate Professor, Department of Chemistry, University of Illinois, 1996-98  
Professor, Department of Chemistry, University of Illinois, 1999-present  
Professor, Department of Physics, University of Illinois, 2000-present  
Edward William and Jane Marr Gutgsell Professor, 2008-present  
Affiliate, Beckman Institute for Advanced Science and Technology, 2001-present  
Affiliate, Computational Science and Engineering Program, 2018-present  
Affiliate, Illinois Quantum Information and Technology Center, 2019-present

## RESEARCH INTERESTS

Theory of condensed phase quantum dynamics. Development of path integral and semiclassical simulation methods. Barrier crossing and tunneling phenomena. Simulation of proton migration and electron transfer in solution and in biological environments. Dynamics of quantum fluids. Charge transport in molecular nanostructures. Excitation energy transfer in molecular aggregates. Quantum phase transitions.

## AWARDS AND HONORS

Honorary Scholarships for Outstanding Achievement in the Department of Chemistry, the State Scholarships Institute of Greece, all academic years  
Chemistry Fellowship, University of California at Berkeley, 1985-86  
University Fellowships, University of California at Berkeley, 1986-87 and 1987-88  
Outstanding Graduate Student Instructor Awards, Department of Chemistry, University of California at Berkeley, spring 1987 and fall 1987  
Anna Louise Hoffman Award for Outstanding Achievement in Graduate Research, Iota Sigma Pi, 1988  
The Bernard Friedman Memorial Prize in Applied Mathematics, Department of Mathematics, University of California at Berkeley, 1988  
Junior Fellow, Society of Fellows, Harvard University, 1989-92  
The William F. Milton Fund Award, Harvard University, 1990  
Beckman Young Investigator Award, Arnold and Mabel Beckman Foundation, 1993  
Beckman Fellow, Center for Advanced Study, 1993-94  
National Science Foundation Young Investigator Award, 1993  
Packard Fellowship for Science and Engineering, David and Lucile Packard Foundation, 1993  
Sloan Research Fellowship, Alfred Sloan Foundation, 1994  
Cottrell Scholar Award, Research Corporation, 1994  
Annual Medal of the International Academy of Quantum Molecular Science, 1995  
Camille Dreyfus Teacher-Scholar Award, The Camille and Henry Dreyfus Foundation, 1997  
Fellow, American Association for the Advancement of Science, 1998  
Agnes Fay Morgan Research Award, Iota Sigma Pi, 1999  
University Scholar, University of Illinois at Urbana-Champaign, 1999  
Bodossaki Academic Prize in Physical Sciences, 2000  
Fellow, American Physical Society, 2001  
Arnold O. Beckman Research Award, University of Illinois Research Board, 2003  
Associate, Center for Advanced Study, University of Illinois, spring 2006

Baker Theory Symposium Lecturer: "Frontiers in Theoretical Chemistry", Cornell University, 2005

The 2005-06 H. Willard Davis Lecturer, Department of Chemistry and Biochemistry, University of South Carolina

The 2006-07 Joe L. Franklin Memorial Lecturer, Department of Chemistry, Rice University.

Member, International Academy of Quantum Molecular Science (elected 2010)

The 2011 Distinguished Lecture in Theoretical/Computational Chemistry, University of California at San Diego

On the list of teachers ranked as excellent, fall 2000, spring 2002, spring 2007, spring 2009, fall 2010, fall 2011, spring 2012, spring 2014, fall 2016, fall 2017, spring 2018, fall 2019

Association of Greek Chemists 100<sup>th</sup> IUPAC Anniversary Award, Global Women's Breakfast, Athens, 2019

The 2019 Löwdin Lecturer, Uppsala University, Sweden

## PROFESSIONAL SERVICE

### *Conference Organizer/Co-organizer:*

Midwest Conference on Theoretical Chemistry, Beckman Institute, Urbana, May 1997

Chemical Dynamics Symposium, Berkeley, March 2001

Quantum Dynamics of Condensed Phase Systems, Crete, June 2002

Frontiers of Theoretical Chemistry: CATMS Symposium, University of Illinois, May 2006

Quantum Molecular Dynamics, Berkeley, January 2012

Midwest Conference on Theoretical Chemistry, Urbana, May 2013 (co-organizer)

International Congress of Quantum Chemistry, International Scientific Board, 2018

### *Professional Society Service:*

East-Central Illinois Section of the American Chemical Society, 1992-94

### *Professional Societies:*

American Chemical Society

American Physical Society (Fellow)

American Association for the Advancement of Science (Fellow)

Phi Beta Kappa

Iota Sigma Pi

International Academy of Quantum Molecular Science

*Reviewer:*

Accounts of Chemical Research, Annals of Physics, Chemical Physics Letters, Chemical Physics, Chemical Reviews, Computers in Science and Engineering, European Physics Journal, Europhysics Letters, International Journal of Advanced Computing, International Journal of Chemistry, Journal of the American Chemical Society, Journal of Chemical Physics, Journal of Chemical Theory and Computation, Journal of Computational Chemistry, Journal of Computational Physics, Journal of Mathematical Chemistry, Journal of Mathematical Physics, Journal of Physics, Journal of Physical Chemistry, Journal of Theoretical and Computational Chemistry, Molecular Physics, Nature, Physical Review, Physical Review Letters, Science, Theoretical Chemistry Accounts

Air Force Office of Scientific Research, Binational Science Foundation, Cyprus Science Foundation, Department of Energy, Israel Science Foundation, National Science Foundation, Nofor Instituto Nazionale, Petroleum Research Fund, Research Corporation, Sloan Foundation, Department of Energy

Numerous tenure/promotion reviews

*Editorial Appointments:*

Divisional Associate Editor, Physical Review Letters, 2003-2005

Advisory Editorial Board, Journal of Computational Chemistry, 2005- 2011

Editorial Advisory Board, Journal of Chemical Theory and Computation, 2005-2014

Editorial Board, The Journal of Chemical Physics, 2009-2011

Editorial Advisory Board, The Journal of Physical Chemistry, 2020-2022

*Review Panels and National Committees:*

National Science Foundation, CAREER award panel, November 1999.

National Science Foundation, inaugural URC competition panel, March 2004

American Chemical Society National Award Committee, 2005-08

Department of Energy, Solar Energy Panel, 2007

American Chemical Society National Award Committee, 2012-2015

National Science Foundation, CTMC Review Panel, 2013

Swedish Research Council, 2018

National Science Foundation, CTMC Review Panel, 2018

American Physical Society National Award Committee, 2016-2019

Bodossaki Foundation Distinguished Scientist Award Committee, 2019

External Review Committee, Department of Chemistry, University of Texas at Austin, 2020