Marina Guenza
I would like to be considered for appointment to the University of Oregon Board of trustees. I have been a member of the Faculty at the University of Oregon since Fall, 1997. I am a scientist, an advisor to my students, a teacher and a mentor, and I am a member of the community at large of people who strive to ensure the high quality of research and teaching at the University of Oregon. While serving as a trustee of the University, my goal will be to bring my multifaceted experience to the Board.

I am a Professor in the Department of Chemistry and Biochemistry at the University of Oregon and an American Physical Society Fellow. I am a Member at Large of the Executive Committee of the American Chemical Society.

During my years at the University of Oregon, I have been a member of three key committees: the Faculty Advisory Council, which advises the President and the Provost of the University on matters of governance, the Senate Budget Committee, which advises on matters related to the university budget, and the Personnel Advisory Committee, which evaluates faculty promotion and tenure cases. My participation in these committees provides me with a comprehensive view of how the different components of scholarship, governance, and budget need to be integrated for the positive development of the University.

As an internationally recognized scientist, I bring the perspective of a researcher who strives to develop fundamental and original science at the cutting edge of my discipline, with an eye to industrial applications. My work is collaborative, engaging colleagues in computer science, biophysics, and engineering, both inside and outside the UO. My experience will be useful in relation to the development of interdisciplinary research and industrial collaboration in the new Knight Campus.

I am a female scientist, interested in encouraging and promoting diversity on campus, with a special look at underrepresented minorities. Throughout the course of my career, I have successfully advised and mentored many graduate students from minority groups.

As an Oregonian, I am passionate about teaching and mentoring undergraduate students. I have opened my research groups to high-school students and to undergraduate students, including students from community colleges. In particular, I would like to mention two students: Ha Truong (Highline Community College), a female scientist who graduated from Rice University with a Ph.D. in Theoretical Chemistry, and Thomas Dannenhoffer (Umpqua Community College), who is attending graduate school in Theoretical Chemistry at the University of Chicago. It is a great privilege for me to enable the success of my students by providing them with the opportunity of discovering their own potential.

As an international scholar from Europe and a dual citizen, I have a shared perspective of both the European and the US scientific communities. While I present my scientific discoveries at conferences around the world, I am also an ambassador for our University. As an advisor, I work inside the University to provide research and study opportunities for UO undergraduates in European Universities through the TASSEP program.

It would be a pleasure and an honor for me to serve on the Board at the University of Oregon. I will strive to play a constructive role by contributing my faculty perspective to the governance structure of the University of Oregon.

Sincerely,

Marina G. Guenza, Professor
Department of Chemistry and Biochemistry,
University of Oregon
http://chemistry.uoregon.edu/profile/mguenza/
Marina Guenza is a Professor of Chemistry and Biochemistry at the University of Oregon and a Fellow of the American Physical Society.

Passionate as a high-school student to the study of classics and art history, Guenza selected Chemistry to learn about scientific methods used in restoration of art masterpieces. She graduated with a PhD in Theoretical Chemistry from the University of Genoa in Italy in 1989, and was hired as a faculty by the Italian National Laboratory. As a tenured researcher, she was a visiting scientist in the Chemistry Department at the University of Chicago and later in the College of Engineering at the University of Illinois at Urbana Champaign. She then moved to the US and joined the Chemistry Department at the University of Oregon in 1997.

Guenza is the author of sixty-four scientific publications. In the course of her career, she has presented over one hundred invited talks at conferences and seminars at Universities, in the US and abroad. At the University of Oregon she received the Faculty Excellence Award and the Interdisciplinary Research Award. In 2012 she was a fellow of the Kavli Institute for Theoretical Physics. She has been a member of the Editorial Board of the journal *Macromolecules*, and a member and Chair of Award Committees for the American Chemical Society.

Her research encompasses aspects of theoretical chemistry, physics, material science, and computer science. Together with her research group of graduate, undergraduate, and postdoctoral students, she develops theoretical methods to understand the properties of novel materials for engineering applications, in addition to biological complexes involved in life processes. She is a member of the American Chemical Society, the American Physical Society, the Biophysical Society, and the American Association for the Advancement of Science.

She is passionate about teaching and mentoring undergraduate and graduate students, in particular minority students. At the University of Oregon, she has served on a number of key committees on matters of governance, tenure and promotion, and budget and operations.
CURRICULUM VITAE

MARINA G. GUENZA

IDENTIFYING INFORMATION

ACADEMIC RANK

Professor in the Department of Chemistry and Biochemistry, University of Oregon

EDUCATION

1985 Laurea Summa cum Laude in Theoretical Physical Chemistry - Universita’ degli Studi di Genova, Genova, Italy.
1989 Ph.D. in Physical Chemistry – Consortium of three Italian Universities: Universita’ degli Studi di Genova, Universita’ degli Studi di Pavia, Universita’ degli Studi di Torino.

RESEARCH APPOINTMENTS

2012-present Professor – Department of Chemistry – University of Oregon
2006-2012 Associate Professor – Department of Chemistry – University of Oregon
2002-2006 Assistant Professor – Department of Chemistry – University of Oregon
1998-2002 Senior Research Associate Professor – Physics Department and Department of Chemistry – University of Oregon
1997 Adjunct Assistant Professor on leave from the CNR (Italy) – The Institute of Theoretical Science – University of Oregon.
1989-1998 Tenured Researcher – Institute of Synthetic and Biological Macromolecules – Consiglio Nazionale delle Ricerche (CNR) (The Italian CNRS) – Genoa – Italy
1995-1997 Visiting Scientist on leave from the CNR – Department of Material Science and Engineering – University of Illinois at Urbana-Champaign – Host: Ken Schweizer.
1994 Visiting Scientist on leave from the CNR – Department of Chemistry and the James Franck Institute – University of Chicago – Host: Karl Freed

PROFESSIONAL HONORS AND DISTINCTION

2015 – Interdisciplinary Research Award, University of Oregon
2105 – Faculty Excellence Award, University of Oregon

2011 - present: Named Fellow of the American Physical Society for “significant contributions to the field of polymer physics through the development of theoretical methods to study macromolecular structure and dynamics” Polymer Physics Division.

2012 – Visiting Scientist Kavli Institute for Theoretical Physics, University of California at Santa Barbara.
1995-1997 - Visiting Scholar University of Illinois at Urbana Champaign, Urbana-Champaign, IL
1994 – Visiting Scholar University of Chicago, Chicago, IL
1986-1989 Doctoral Fellow – Italian Minister of the Public Instruction

PROFESSIONAL APPOINTMENTS

2016 – Chair of the Joe Henry Hildebrand Award in Theoretical and Experimental Chemistry of Liquids Selection Committee – American Chemical Society

2015 - Elected Member at Large – Division of Physical Chemistry – American Chemical Society

2010-2013 Member of the Editorial Board of Macromolecules

2011 Editor of the journal Reports in Theoretical Chemistry – Dove University Press

2012-present Member of the Editorial Board of the journal Reports in Theoretical Chemistry – Dove University Press

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

American Physical Society (Fellow– Polymer Physics Division)

American Chemical Society (Member at Large – Physical Chemistry Division)

Biophysical Society (Member)

American Association for the Advancement of Science (Member)

LANGUAGES: fluent in English, Italian, and French. Knowledge of Ancient Greek and Latin

PUBLICATIONS UNDER REVIEW


2. M. G. Guenza “Thermodynamically Consistent Coarse-Graining of Polymers” Book Chapter in “Coarse-Grained Modeling of Biomolecules” (to be part of “Series in Computational Biophysics” by Tylor & Francis Publisher, Garegin Papoian Editor, 2016).

MAIN PUBLICATIONS

Research Gate: 95 publications, 87 articles, Rg Score 33.98, h-index:20
Google Scholar: 109 publications, 1244 Citations, h-index: 23, i10-index: 36


This paper has been selected for the February 1, 2010 issue of Virtual Journal of Biological Physics Research at http://www.vjbio.org.


This paper has been selected for the November 12, 2007 issue of Virtual Journal of Nanoscience and Technology and the November 15, 2007 issue of Virtual Journal of Biological Physics Research.


This paper has been selected for the December 15, 2006 issue of Virtual Journal of Biological Physics Research at http://www.vjbio.org.


This paper has been selected for the February 1, 2005 issue of Virtual Journal of Biological Physics Research at http://www.vjbio.org.


This paper has been selected for the October 1, 2003 issue of the Virtual Journal of Biological Physics Research at http://www.vjbio.org.


INVITED TALKS AND LECTURESHIPS – MEETINGS, EVENTS AND SYMPOSIA


13. NISTCHiMaD: Workshop on Coarse-Grained Modeling of Polymers and Soft Materials Genome Initiative, National Institute of Standards and Technology, Gaithersburg, MD 20899-1070, Marina G. Guenza, August 6-7 2014.


25. 13th International Workshop on Complex Systems Andalo, Trento (Italy) “Theoretical Approaches to the Dynamics of Polymeric Liquids” 18-22 March 2012


RESEARCH SEMINARS AND COLLOQUIA


46. University of Texas at Austin, Austin, Physical Chemistry Colloquium “Modeling Across Multiple Lengthscales while Preserving Thermodynamics and Structure” Marina G. Guenza March 27th, 2014.


52. KITP colloquium, UCSB, Santa Barbara, CA “Coarse-graining and multiscale modeling of macromolecular liquids: thermodynamic consistency and dynamic reconstruction” 12 June 2012.


54. Willamette University, Salem, Oregon, Physics Department, Colloquium, “Thermodynamic Consistency and Other Stories: Course-graining Theories of Macromolecular Systems” 28 October 2011.

55. Simon Fraser University, Burnaby British Columbia, Physics Department, Colloquium, “Coarse-Graining and Dynamics of Macromolecular Systems” 18 October 2010.


59. Idaho State University, Pocatello, ID, Chemistry Department, Colloquium, “Analytical Theories to Bridge Time Scales in the Dynamics of Macromolecular Systems” 6 November 2009.
60. Gonzaga University, Spokane, WA, Chemistry and Biochemistry Department, Colloquium, “Analytical Theories to Bridge Time Scales in the Dynamics of Macromolecular Systems” 2 October 2009.

61. Oregon State University, Corvallis, OR, Physics Department, Condensed Matter Colloquium “Bridging Time Scales in Polymer Dynamics” 15 April 2009.


69. Washington University in St. Louis, St. Louis, MO, Center for Computational Biology, Biochemistry Colloquium, “A Theoretical Approach to Predict NMR Relaxation from Protein Structure” 27 October 2006.


76. Arizona State University, Phoenix, AZ, Physics Department, Condensed Matter Colloquium “Cooperative Dynamics in Polymer Liquids” 10 March 2004.


84. Indiana University, Bloomington, Chemistry Colloquium “Cooperative Dynamics in Polymer Fluids”, 29 January 2002.


89. San Francisco State University, Dept. of Chemistry and Biochemistry Seminar, “New Ideas in Polymer Dynamics: the Importance of Many-Molecular Correlated Motion to Explain the Experimental Properties of Melts and Glasses”, 23 March 2001.


95. The University of Illinois at Urbana-Champaign, Chemistry Department “The role of Cooperative Dynamics in the Behavior of Synthetic and Biological Polymers”, 3 December 1998.


104. The University of Illinois at Urbana-Champaign, Beckman Institute Colloquium “The memory Function Formalism in the Generalized Langevin Dynamics” 14 February 1996.


RESEARCH PERSONNEL

CURRENT PARTICIPANTS
POSTDOCTORAL RESEARCH ASSOCIATES
   Hadi Dinpajooh

PH.D. AND MS GRADUATE STUDENTS
   Eric Beyerle – Ph. D. Candidate (Chemistry) - University of Oregon
   Pablo Romano - Ph. D. Candidate (Chemistry) - University of Oregon
   Joshua Fray – Ph. D. Candidate (Physics) - University of Oregon – on leave

   Richard Gowers – Visiting - Ph.D. Candidate – Chemical Engineering Department – University of Manchester - UK
   Alexander Ohnmacht – Visiting - Master Candidate – Physics Department – University of Konstanz - Germany

UNDERGRADUATE STUDENTS
   Kyle Morrison

HIGH SCHOOL STUDENTS
   Jake Hyatt – South Eugene High School – Eugene OR
   Eli Calalang-LaCroix – South Eugene High School – Eugene OR

PREVIOUS POSTDOCTORAL RESEARCH ASSOCIATES
   Dr. Galina Yatsenko
   Dr. Maria Nemirovskiaia – Instructor, Mathematics Department - University of Oregon
   Dr. Victor Pryamitsyn – Research Associate - University of Texas at Austin
   Prof. Pallavi Debnat – Assistant Professor – Chemistry Department - Indian Institute of Technology Roorkee.

PREVIOUS VISITING FACULTY
   Prof. Nail Fatkullin – Kazan Federal University, Institute of Physics, Kazan, Russia

PREVIOUS PH.D. AND MS GRADUATE STUDENTS
   David Ozog – Ph. D. Candidate (Computer Science) - University of Oregon – Now at Intel Inc.
   Kevin Walton – Master (Physics) - University of Oregon
   Dave Grych – Master (Physics) - University of Oregon
   Dr. Jeremy Copperman – Ph. D. in Physics – June 2016 – University of Oregon – Postdoctoral Associate, Physics Department, University of Wisconsin, Milwaukee (WI).
   Dr. Esther Caballero Manrique – Ph. D. in Chemistry – University of Oregon and MD from Rochester University
   Prof. Edward Sambriski – Ph. D. in Chemistry - University of Oregon - Associate Professor – Delaware Valley College

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Dr. Ivan Lyubimov – Ph. D. in Chemistry - University of Oregon - Postdoctoral Research Associate - Juan de Pablo – University of Chicago
Dr. James McCarty – Ph. D. in Chemistry - University of Oregon - Postdoctoral Research Associate – Michele Parrinello, ETH Zurich.
Dr. Anthony Clark – Ph. D. in Physics - University of Oregon – Postdoctoral Research Associate – Richard Friesner - Columbia University

Dr. Gesa Welker – Master in Physics - University of Konstanz – Fulbright Fellow University of Oregon
Dr. Trevor Keiber – Master in Chemistry- University of Oregon – Graduate Student Department of Physics, University of California, Santa Cruz.
Kadar Gelinas – Master in Chemistry
Ruth Saunders – Master in Physics

PREVIOUS UNDERGRADUATE RESEARCH STUDENTS
Yelda Raheen, Honors College – University of Oregon
Ben Clark – University of Oregon
Jared Brandon – University of Oregon
David Drake – University of Oregon
Cinthia Garcia – International Undergraduate Student from Brasil – University of Oregon
Dr. Todd Crum - M.D. University of Washington in Saint Louis
Dr. Jenelle Brey – Ph.D. California Institute of Technology – Postdoctoral Research Associate at Stanford University – Security Data Scientist at LinkedIn.
Dr. Crystal Valdez – Ph.D. UCLA with Anastassia Alexandrova - Postdoctoral Research Associate at Stanford University
Ha Truong – Ph. D. student Rice University – with Peter Wolynes
Thomas Dannenhoffer – Ph. D. student University of Chicago – with Greg Voth
David Ozog – Ph.D. student University of Oregon – with Al Malony computer science
Mike Nellist – Ph.D. student University of Oregon

SERVICE AND PUBLIC OUTREACH

SERVICE TO THE DISCIPLINE/PROFESSION/INTERDISCIPLINARY AREAS

Member and Chair of the Selection Committee for ACS Awards, Joel Henry Hildebrand Award in the Theoretical Chemistry of Liquids, 2013-2016.
Member of the Blewett Fellowship Selection Committee since 2013 – APS.
Member of the Committee on the Status of Women in Physics for the American Physical Society
Member Nominating Committee American Physical Society Northwestern Section 2010-2011
Member of the Nominating Committee for the American Physical Society - Division of Polymer Physics (DPOLY) 2007
Evaluator for the Italian Research and University Evaluation Agency (ANVUR), which recently started the evaluation of the Italian research system for the period 2011-2014 (VQR 2011-2014) and 2014-2016 (VQR 2014-2016).

Member of the Editorial Advisory Board of Macromolecules (2010-2012)
Member Editorial Board of Reports in Theoretical Chemistry Dove Medical Press, Auckland, New Zealand (2011-present).
ORGANIZATION OF CONFERENCES, WORKSHOP, PANELS, SYMPOSIA


Chair of the session “Polymer Dynamics” at the Polymer Physics Gordon Conference – Connecticut College, CT – August 2000

Symposium organizer: APS March Meeting 2012 DPOLY focus session “Long-Time, Entangled, Dynamics in Polymer Melts”, March 2012


Symposium organizer: APS March Meeting 2012 DPOLY focus session “Long-Time, Entangled, Dynamics in Polymer Melts”, March 2012


Chair of the session: “Biological Macromolecules: Structure and Dynamics” at the 6th International Discussion Meeting on Relaxation in Complex Systems - 6IDMRCS – Rome, Italy August 2009.

Chair of the session: “Theory and Simulation II” for the Division of Polymer Physics, March Meeting of the American Physical Society – New Orleans, LA March 2008.

Chair of the session: “Polymer Dynamics” at the 5th International Meeting on Relaxation in Complex Systems – 5IDMRCS - Lille, France – July 2005.

Chair of the section “Polymer Dynamics” at the Polymer Physics Gordon Conference – Connecticut College, CT – August 2000

SERVICE TO THE UNIVERSITY/COLLEGE/DEPARTMENT

University of Oregon
Advisory Group - Computational Science, Statistics & Applied Math Committee – College of Arts and Science and Phil and Penny Knight Campus for Accelerating Scientific Impact, 2017
Academic Leadership Budget Group, 2017
Faculty Advisory Council to the University Provost and President, 2015-2017
Senate Budget Committee, 2010-2016
Budget Advisory Group, 2011
Faculty Personnel Committee, 2007-2009, Office of the President - evaluation of tenure and promotion cases
Member Search Committee Dean of the College of Art and Science 2015-2016.

Department of Chemistry and Biochemistry
Chair of the Department of Chemistry Diversity Committee 2017-present
Head of the Physical Chemistry Division 2006-present
Graduate Student Admission Committee 2002-present
Faculty Search Committees 2011-2015-2016-2017
Faculty Advisory Committee 2002-2005

STUDENT DISSERTATION COMMITTEE MEMBER OR CHAIR

MEMBER THESIS COMMITTEE FOR UNDERGRADUATE HONORS COLLEGE: Tyler Grassman (Chemistry), Jasper Cook (Chemistry)

MEMBER GRADUATE STUDENT DISSERTATION COMMITTEE (specified if it is not in Chemistry): Ken Adair, Michelle Knowles, Marvin Warner, Stephen Garrey, Laura Shirtcliff, Tran My Phung, Mike Jespersen, Sarah Peterson, Barbara Stahl, Matt O’Connor, Jamie Bell, Erin Craig (Physics), Steven Woodcock, Geoff Lott (Physics), Eric Senning, Wei Gong (Physics), Nathan Kuwada (Physics), Kevin Huck (Computer Science), Shachar Shamay, Xiaolu Cheng (Physics), Yupeng Kong (Physics), Julia Widom, Joachim Bowles, Elizabeth Brost (Physics), Brett Israel, Phil Lotshaw, Yasin Karim (Physics), Zach Sailer, Kyle J. Welch (Physics), Micah Donor, Wes Erickson (Physics), Peter Morse (Physics), Huiying Ji,

CHAIR GRADUATE STUDENT DISSERTATION COMMITTEE: Travis Humble, Molly Emmons, Ellen Robertson, Laura McWilliams, Brandon Schabes, Regina Ciszewski, Benjamin Taber, Sean Cleary.