

2008 LEAD National Workshop Speakers Biographies

Neal Abraham

Executive Vice President, Vice President for Academic Affairs, and Dean of the Faculty DePauw University

Dr. Neal Abraham earned his B.S. in 1972 from Dickinson College and his Ph.D. in 1977 from Bryn Mawr College; in the United States he has taught at Bryn Mawr College, Swarthmore College, and DePauw University. He served two terms as chair of the department of physics at Bryn Mawr and is currently the chief academic officer at DePauw. His theoretical and experimental research specialties include: lasers, quantum optics, and optical nonlinear dynamics (including dynamical chaos and pattern formation and evolution). He is a Fellow of the Optical Society of America, the American Physical Society, and the American Association for the Advancement of Science. Dr. Abraham has served on Executive Committee of Project Kaleidoscope, a national organization for the improvement of undergraduate science education, and as an inaugural member of the National Research Council's Committee on Undergraduate Science Education. He currently serves as the convener and manager of the host site for the Consortium on Faculty Diversity, an association of forty liberal arts colleges. As Dean of the Faculty at DePauw he has created an innovative faculty development program and has managed over \$6 million in Faculty Career Enhancement Grants for the Andrew W. Mellon Foundation. He has spoken and published widely on faculty mentoring, faculty development and faculty diversity in addition to his research endeavors.

Ana Mari Cauce

Dean, College of Arts and Sciences, and Earl R. Carlson Professor of Psychology, University of Washington

Dr. Ana Mari Cauce graduated from the University of Miami, earning degrees in English Literature and in Psychology in 1977, before going on to Yale University, where she earned her doctoral degree in Psychology, with a concentration in Child Clinical and Community Psychology. She began teaching at the University of Washington in 1986. She currently holds the position of Dean of the College of Arts and Sciences. She is also Earl R. Carlson Professor of Psychology and has a joint appointment in the Department of American Ethnic Studies. She is the recipient of numerous awards, including recognition from the American Psychological Association for Excellence in Research on Minority Issues, the Distinguished Contribution Award in Theory and Research from the Society for Community Psychology and the University of Washington's Distinguished Teaching Award.

Sapna Cheryan

Assistant Professor of Psychology, University of Washington

Dr. Sapna Cheryan received her Ph.D. in social psychology from Stanford University. Her research interests include identity, stereotypes and prejudice, and she has published articles on stereotype threat in *Psychological Science* and strategies of belonging to social groups in the *Journal of Personality & Social Psychology*. She has received many awards and grants for her previous research endeavors, such as the American Psychological Association Dissertation Research Award and the National Science Foundation Graduate Fellowship, and she has also been recognized for her outstanding teaching, having received Stanford's Centennial Teaching Award.

David Domke

Professor of Communication, University of Washington

Dr. David Domke is a professor in the Department of Communication and head of journalism at the University of Washington. His research and teaching focus on how political leaders strategically craft their public communications, how news media cover these messages, and how American public opinion is formed and mobilized. He is the author of *God Willing? Political Fundamentalism in the White House, the "War on Terror," and the Echoing Press* (Pluto Press, 2004). His new book, *The God Strategy: How Religion Became A Political Weapon in America*, was published in January 2008 by Oxford University Press. In 2002 he received the University of Washington's Distinguished Teaching Award, the university's highest honor for teaching. In 2006, he received the Hiller Kriehbaum Under-40 Award, given by the Association for Education in Journalism and Mass Communication, for outstanding early career accomplishments. And in 2006, he was named the Washington state Professor of the Year by the Carnegie Foundation for the Advancement of Teaching.

Elizabeth Eschenbach

Professor and Department Chair of Environmental Resources Engineering, Humboldt State University

Elizabeth A. Eschenbach is a professor and department chair of Environmental Resources Engineering at Humboldt State University. She graduated with honors in mathematics and psychology from UC Santa Cruz and earned an MS and PhD in Environmental and Water Resources Systems Engineering at Cornell University. She completed postdoctoral research at UC Boulder at the Center for Advanced Decision Support in Water and Environmental Systems.

At Humboldt State University, Dr. Eschenbach teaches water resources planning and management, probabilistic analysis for environmental engineers and introductory courses. She is the co-chair of the Education Committee of the NSF funded WATERS NETWORK Project Office and PI for the Scientific Leadership Scholars Program, an NSF S-STEM grant providing 30 4-year scholarships at HSU for Computer Science, Environmental Resources Engineering and Mathematics majors. She is leading the California State University Engineering Academies project at HSU, which encourages regional high schools to teach more engineering courses.

Dr. Eschenbach's career goals include increasing the diversity of engineering students and improving education for all engineering students. Her work has addressed diversity in the classroom, incorporating feminist pedagogy in engineering courses, applying Just in Time Teaching to engineering courses, incorporation of service learning, preparation of K-12 science instructors, and developing web tools for student peer assessment.

Jessie Garcia

Assistant Vice President of Campus Human Resources Operations, University of Washington

Jessie Garcia brings 20 years' experience training UW supervisors, managers, and administrators in a wide variety of subjects including communications, dispute resolution and employment law. Her experience spans many HR areas, providing her with the experience to address areas such as ethics, workplace violence, terminations, workplace investigations risk mitigation, and code of conduct for student employees.

Ms. Garcia co-designed and coordinated the UW's Strategic Leadership Program, designed to give UW leaders key tools to perform successfully and reduce liability. As training manager for UW's UWorks, the program responsible for compliance with civil service reform, she prepared the University's leadership for the new civil service rules and negotiated full scope union contracts.

Ms. Garcia was appointed Assistant Vice President of Campus Human Resources Operations for the University of Washington this past winter and plays a leadership role in ensuring that HR services meet the challenges and opportunities created by a changing workforce, continual technological advancements, and the University's commitment to the active pursuit of global engagement and connectedness.

Christopher J. Loving

Author, founder and president of Loving Leadership™ and the Leadership Institute For Tomorrow (LIFT), and former University of Washington ADVANCE Visiting Scholar

Christopher J. Loving has over 25 years of experience developing and teaching new models of leadership. He has worked with hundreds of organizations (educational, Fortune 500, nonprofit) in the United States and in Europe and is frequently invited to partner with a wide range of audiences through keynote addresses, training programs, and coaching relationships. Past partnerships include the University of Michigan, University of Washington, Northwestern University, Washington University in St. Louis, Case Western Reserve University, Brandeis University, Deloitte Touche Tohmatsu, Anheuser-Busch Companies, Inc., Associated Press, National Conference for Community and Justice, and many others.

In the educational sector over the last 20 years, Chris has coached and advised trustees, presidents, provosts, deans, department chairs, faculty, directors, administrators and students, developed and facilitated a series of leadership conversations that have improved the climate and effectiveness of their organizations and designed and presented programs that feature a leadership curriculum for department chairs, postdoctoral associates, and graduate students. He

has also created and presented diversity programs for over 20 years and trained trainers on how to more effectively develop and teach diversity-training programs in a variety of settings.

Gary May

Professor and Steve W. Chaddick School Chair, School of Electrical and Computer Engineering, Georgia Institute of Technology

Dr. Gary May received his B.S. in electrical engineering from Georgia Tech in 1985 and the M.S. and Ph.D. degrees in electrical engineering and computer science from the University of California at Berkeley in 1988 and 1991, respectively. He is currently the Steve W. Chaddick School Chair of the School of Electrical and Computer Engineering at the Georgia Institute of Technology. May's field of research is computer-aided manufacturing of integrated circuits. In 1993, Dr. May was named Georgia Tech's Outstanding Young Alumnus, and in 1999, he received Georgia Tech's Outstanding Service Award. In 2004, Dr. May received Georgia Tech's Outstanding Undergraduate Research Mentor Award, as well as the Outstanding Minority Engineer Award from the American Society of Engineering Education. In 2006, he received American Association for the Advancement of Science's Mentor Award. Dr. May is a Fellow of the IEEE and a member of the National Advisory Board of the National Society of Black Engineers. Dr. May has created two NSF funded programs (Summer Undergraduate Research in Engineering/Science (SURE) and Facilitating Academic Careers in Engineering and Science (FACES)) to encourage and support minorities students. Nearly 90% of SURE participants enroll in graduate school. Over the duration of FACES, 211 minority students have received Ph.D. degrees in science or engineering at Georgia Tech – the most in such fields in the nation.

David Notkin

Bradley Professor, Computer Science & Engineering, University of Washington

Dr. David Notkin has been on the faculty at the University of Washington in the Department of Computer Science & Engineering since 1984, currently serving as the Bradley Chair. Dr. Notkin previously served as department chair (2001-06). He received my Sc.B. from Brown University (1977), and my Ph.D. from Carnegie-Mellon University (1984). He received an NSF Presidential Young Investigator Award (1988), was named an ACM Fellow (1998) and an IEEE Fellow (2008) and received the University of Washington Distinguished Graduate Mentor Award (2000). He served as chair of ACM SIGSOFT (1997-2001), as program chair of the 1993 ACM SIGSOFT Symposium on the Foundations of Software Engineering and as program co-chair of the 1995 International Conference on Software Engineering. He is member of the board of the CRA, and is the past co-chair of the National Center for Women in Information Technology (NCWIT) Academic Alliance. His educational and research are in software engineering, with a particular focus in software evolution — understanding why software is so hard and expensive to change, and in turn reducing those difficulties and costs.

Matthew O'Donnell

Frank & Julie Jungers Dean of Engineering, University of Washington

Following his graduate work, Dr. O'Donnell moved to Washington University in St. Louis, MO as a postdoctoral fellow in the Physics Department working on applications of ultrasonics to

medicine and non-destructive testing. He subsequently held a joint appointment as a Senior Research Associate in the Physics Department and a Research Instructor of Medicine in the Department of Medicine at Washington University. In 1980 he moved to General Electric Corporate Research and Development Center in Schenectady, NY, where he continued to work on medical electronics, including MRI and ultrasound imaging systems. During the 1984-1985 academic year, he was a visiting fellow in the Department of Electrical Engineering at Yale University in New Haven, CT investigating automated image analysis systems. In 1990, Dr. O'Donnell became a Professor of Electrical Engineering & Computer Science at the University of Michigan in Ann Arbor, MI. Starting in 1997, he held a joint appointment as Professor of Biomedical Engineering. In 1998, he was named the Jerry W. and Carol L. Levin Professor of Engineering. From 1999-2006, he also served as Chair of the Biomedical Engineering Department. During 2006, he moved to the University of Washington in Seattle, WA where he is now the Frank and Julie Jungers Dean of Engineering and also a Professor of Bioengineering. His most recent research has explored new imaging modalities in biomedicine, including elasticity imaging, *in vivo* microscopy, optoacoustic arrays, optoacoustic contrast agents for molecular imaging and therapy, thermal strain imaging, and catheter based devices.

Sheila O'Rourke

Assistant Provost for Academic Affairs at the University of California, Berkeley

As Assistant Provost for Academic Affairs at the University of California, Berkeley, Sheila O'Rourke's responsibilities include policies, practices and programs enhancing faculty recruitment and advancement with an emphasis on equity and diversity. She also serves as the Director of the University of California President's Postdoctoral Fellowship Program, a faculty pipeline program for scholars whose research, teaching or service will enhance diversity in higher education, and teaches a course on civil rights law in higher education in the Graduate School of Education at Berkeley. Previously, she was the Assistant Vice Provost for Equity and Diversity at the system wide University of California Office of the President, a civil rights attorney for the U.S. Department of Education Region IX Office for Civil Rights and a teaching fellow at Stanford Law School. She has a J.D. from the University of California Berkeley School of Law (Boalt Hall) and an A.B. from Stanford University.

Mary Rezac

Tom Barrett Professor and Head, Department of Chemical Engineering and Co-Director, Center for Sustainable Energy, Kansas State University

Mary E. Rezac is currently the co-Director of the Center for Sustainable Energy and the Tom Barrett Professor and Head of Chemical Engineering at Kansas State University. She has more than 20 years of experience in energy and related applications, including renewable energy, process system efficiency, bioenergy, and petrochemical refining and processing. As Head of the Chemical Engineering department, Dr. Rezac leads a strategic vision for the department, and recruiting new faculty to augment the strengths of the program around strategic thrusts. Since taking the post in 2004, she has increased the number of departmental faculty by 30%, seen an increase in research expenditures by similar values, and seen the undergraduate student population increase by over 70%. As a faculty member, Dr. Rezac has focused her research on improved separation systems and their incorporation with reactors. Applications have included

energy, chemicals, and pharmaceuticals. Dr. Rezac has been recognized as a national leader of technical research and education. While at Georgia Tech, she was recognized as Teacher of the Year and was the recipient of the inaugural Cutting-Edge Research Award. Dr. Rezac received her B.S. in Chemical Engineering from Kansas State University and her Ph.D. and M.S. in Chemical Engineering from University of Texas at Austin.