



**First National Leadership Workshop for SEM Department Chairs
July 8-9, 2004**

Speaker Biographies

Adam P. Bruckner

*Professor and Chair, Aeronautics and Astronautics, University of Washington
Director, Aerospace and Energetics Research Program (AERP)
Director, University of Washington Aeronautical Laboratories (UWAL)*

Adam Bruckner graduated from McGill University in Montreal, Canada in 1966 with a B. Engr. in Honors Mechanical Engineering and was a recipient of the British Association Medal. He received his Ph.D. in Aerospace and Mechanical Sciences in 1972 from Princeton University and joined the University of Washington as a Research Associate in the Aerospace and Energetics Research Program the same year. He has been department Chair since 1998.

Bruckner has received several awards from NASA and the American Institute of Aeronautics and Astronautics (AIAA). In 1989, he was honored by the Universities Space Research Association (USRA) with the Distinguished Service Award for his contributions to the NASA/USRA Advanced Design Program. At the University of Washington he was selected as the recipient of the 1989 Burlington Resources, Inc. Faculty Achievement Award for Outstanding Research, in recognition of his contributions to the development of the ram accelerator. He is a Fellow of the AIAA and has served this organization through his work on local and national committees. Other professional societies of which he is a member are the Optical Society of America, the American Society of Engineering Educators, and Sigma Xi. He has also been a frequent consultant to industry and government.

Ana Mari Cauce

Earl R. Carlson Professor and Chair, Psychology, University of Washington

Ana Mari Cauce graduated from Yale University, earning a Ph.D. in Psychology in 1984. She began teaching at the University of Washington in 1986 in the Department of Psychology. She also has a joint appointment in the Department of American Ethnic Studies and an adjunct appointment in Women's Studies. Cauce currently holds the Earl R. Carlson Professorship in Psychology and is Chair of the Department of Psychology.

Since she began her graduate work, Cauce has been particularly interested in normative and non-normative development in ethnic minority youth and in at-risk youth more generally. She has published almost a hundred articles and chapters and has been recipient of grants from the W.T. Grant Foundation, the National Institute of Mental Health, the National Institute of Child Health and Human Development, and the National Institute of Alcoholism, and Alcohol Abuse.

She is the recipient of numerous awards, including Recognition from the American Psychological Association for Excellence in Research on Minority Issues; Distinguished Contribution Awards from the Society for Community Research and Action; and the American Psychological Association Minority Fellowship program. She has also received the University of Washington's Distinguished Teaching Award.

Cauce is currently President-Elect of the Society for Community Research and Action.

Joyce Cooper

Director, UWME Design for Environment Laboratory, and Assistant Professor, Mechanical Engineering, University of Washington

Joyce Cooper received her BS in Mechanical Engineering from Rensselaer Polytechnic Institute and her MS and PhD in Environmental Engineering from Duke University. She brings to the University of Washington industrial experience in product design and development, manufacturing supervision, quality assurance, life cycle management, pollution prevention site assessments, and facility project coordination for GM, GE, Polaroid, Ratheon, and the State of North Carolina. Cooper is currently on the Executive Committee of the American Center for Life Cycle Assessment and directs the UW Design for Environment Laboratory.

Her research and teaching interests include the development and enhancement of Life Cycle Assessment (LCA) and Design for Environment (DFE) methodologies and models. Her research in emerging product systems focuses on lightweight vehicle materials, Polymer Electrolyte Fuel Cells and Solid Oxide Fuel Cells.

Denice D. Denton

Dean and Professor of Electrical Engineering, College of Engineering, University of Washington

Denice D. Denton is leading the University of Washington's College of Engineering through an unprecedented period of change, innovation, and growth. As Dean of the College of Engineering, Denton directs a college with 10 departments, nine major centers, 200 faculty, and approximately 3000 students.

Denton has served with many distinguished organizations which work to further engineering education: chair of the National Academy of Sciences/National Research Council Board on Engineering Education (1996–1999), member of the NAE Committee on Engineering Education (1999 – 2001), fellow of the American Association for the Advancement of Science, the Association of Women in Science, and the Institute of Electrical and Electronics Engineers, and co-director of the National Institutes for Science Education (1995-1996).

Denton actively encourages women and underrepresented minorities to consider careers in science and engineering. She currently directs the University of Washington's NSF ADVANCE program for women in science and was a 2003 recipient of the Presidential Award for Excellence in Science, Mathematics and Engineering Mentoring.

Among Denton's numerous research and teaching awards are the prestigious Kiekhofer Distinguished Teaching Award (Univ of Wisconsin 1990), the American Society of Engineering Education AT&T Foundation Teaching Award (1991), the Eta Kappa Nu C. Holmes MacDonald Distinguished Young Electrical Engineering Teaching Award (1993), the Benjamin Smith Reynolds Teaching Award (Univ of Wisconsin 1994), the W.M. Keck Foundation Engineering Teaching Excellence Award (1994), the ASEE George Westinghouse Award (1995), and the IEEE Harriet B. Rigas Teaching Award (1995).

Denton earned her B.S., M.S. (1982), and Ph.D. (1987) in electrical engineering at MIT and conducts research on microelectromechanical systems and use of polymers in photonics and integrated circuits. Prior to her appointment as dean in 1996, she was a faculty member in electrical engineering at the University of Wisconsin at Madison.

Debbie Flores

HR Administrator, College of Engineering, Office of the Dean, University of Washington

Debbie Flores has been the Human Resource Administrator in the College of Engineering since October, 2000. She has worked in the field of Human Resources for 12 years and has managerial experience totaling 10 years. Prior to her employment at the University of Washington in 1998, she worked for 15 years at Bank of America. She graduated from the University of Washington.

Sheila Edwards Lange*Associate Director, Research, Center for Workforce Development, University of Washington*

Sheila Edwards Lange oversees research and evaluation projects for the Center for Workforce Development. She has extensive training and experience in research design, evaluation and statistical analyses. Prior to her current position, Edwards Lange worked in higher education administration for many years, in both academic and student affairs. She has held positions in housing and student development at the University of California at Irvine, academic affairs at the University of Washington, and education and planning at the Seattle Community Colleges. She served as special assistant to the president at Western Washington University for five years, where she was responsible for policy analysis and evaluation, the Washington State Campus Compact, the Women's Commission and numerous special projects.

Edwards Lange earned a bachelor's degree in Social Ecology from the University of California at Irvine and a master's degree in public administration from the University of Washington. She is currently a doctoral student in Educational Leadership and Policy Studies at the University of Washington.

Ed Lazowska*Bill and Melinda Gates Chair, Computer Science and Engineering, University of Washington*

Ed Lazowska holds the Bill & Melinda Gates Chair in Computer Science & Engineering at the University of Washington. Lazowska received his A.B. from Brown University in 1972 and his Ph.D. from the University of Toronto in 1977, when he joined the University of Washington faculty. His research and teaching concern the design, implementation, and analysis of high-performance computing and communication systems. Lazowska is a Member of the National Academy of Engineering, and a Fellow of the American Academy of Arts & Sciences, the Association for Computing Machinery, the Institute of Electrical and Electronics Engineers, and the American Association for the Advancement of Science. He was selected to deliver the 1996 University of Washington Annual Faculty Lecture, and to receive the 1998 University of Washington Outstanding Public Service Award. He chaired UW Computer Science & Engineering from 1993-2001. Nineteen Ph.D. students and twenty-three Masters students have completed their degrees working with him.

In the past ten years Lazowska has undertaken a significant public service role. He chaired the Computing Research Association Board of Directors from 1997-2001, and currently co-chairs CRA's Government Affairs Committee. He is vice chair (and chair-designate) of the DARPA Information Science and Technology Study Group. He recently completed six years of service on the National Research Council's Computer Science and Telecommunications Board, and served on the NRC Committee on Improving Learning with Information Technology and Committee on Science and Technology for Countering Terrorism – Panel on Information Technology. From 1995-2001 he served on (and in 1998 and 1999 he chaired) the National Science Foundation's Advisory Committee for Computer and Information Science and Engineering. He is a member of the Microsoft Research Technical Advisory Board, and serves as a board member or technical advisor to a number of high-tech companies and venture firms. In 2003 President Bush named him to co-chair of the President's Information Technology Advisory Committee.

Mary Lidstrom*Associate Dean for New Initiatives, College of Engineering, Frank Jungers Professor of Chemical Engineering and Professor of Microbiology, University of Washington*

In addition to serving as the Associate Dean for New Initiatives for the University of Washington College of Engineering, Dr. Lidstrom is a Professor of Microbiology and holds the Frank Jungers Chair of Engineering, in the Department of Chemical Engineering, at the University of Washington, Seattle. She received her B.S. in Microbiology from Oregon State University. After receiving her M.S. and Ph.D. in Bacteriology from the University of Wisconsin, Dr. Lidstrom conducted work as a Leverhulme postdoctoral

Fellow in Microbiology at the University of Sheffield. Dr. Lidstrom has previously held academic appointments in Microbiology at the University of Washington, in the Center for Great Lakes Studies in Milwaukee, Wisconsin, and in Environmental Engineering Science at the California Institute of Technology. She currently is a fellow of the American Academy of Microbiology and serves on the editorial boards of the Journal of Bacteriology and FEMS Microbial Ecology. In 2003 Dr. Lidstrom received the Howard Hughes Medical Institute Professor Award for learning at the Life Sciences/Engineering boundary.

Christopher J. Loving

Founder, Loving Leadership™ and 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 and is frequently invited to speak with a wide range of audiences through keynote addresses, training programs, and individual consultations. Past partnerships include Deloitte Touche Tohmatsu, Anheuser-Busch Companies, Inc., Associate Press Sports Editors, Brandeis University, University of Michigan, Northwestern University, The College of William and Mary, National Conference for Community and Justice, and many others.

In the educational sector over the last 20 years, Loving has coached and advised deans, department chairs, faculty, directors, administrators and students and facilitated a series of leadership conversations that have improved the climate of their organizations. He has also designed 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.

In 1986 he founded Loving Leadership™, a company “committed to forming partnerships with people and organizations to make the fundamental changes that will create effective and sustained organizational, community and global solutions.” Loving Leadership™ works with educational institutions, Fortune 500 companies and nonprofit organizations in the United States and Europe. Through this organization, Loving works with a wide range of people in formats ranging from coaching relationships with individual leaders to department and university-wide initiatives, from local organizations to national associations and from assembly-line workers to boards of trustees.

David Notkin

Bradley Professor and Chair, Computer Science & Engineering, University of Washington

David Notkin has been on the faculty at the University of Washington in the Department of Computer Science & Engineering since 1984, currently serving as Chair (2001-2006) and Warren Francis and Wilma Bradley Professor (2002-2007). He received the Sc.B. from Brown University (1977), and the Ph.D. from Carnegie-Mellon University (1984). Notkin received an NSF Presidential Young Investigator Award (1988), was named an ACM Fellow (1998), 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.

Eve A. Riskin

Professor, Electrical Engineering, and Director, ADVANCE Center for Institutional Change, University of Washington

Eve A. Riskin received the S.B. degree in Electrical Engineering from M.I.T. in 1984, and the M.S. degree in Electrical Engineering in 1985, the M.S. degree in Operations Research in 1986, and the Ph.D. degree in Electrical Engineering in 1990, all from Stanford University. Since 1990, she has been at the University of Washington where she is now a Professor of Electrical Engineering and Director of the ADVANCE Center for Institutional Change. Her research interests include image compression and image processing. She was awarded an NSF Young Investigator Award in 1992 and a Sloan Research Fellowship in 1994.

G. Scott Rutherford

Professor, Transportation Engineering, and Chair, Civil and Environmental Engineering, University of Washington

Director, Valle Scholarship and Scandinavian Exchange Program

Scott Rutherford received his Bachelor's and Master's degrees in Civil Engineering from Washington State University in 1966 and 1968, and a Ph.D. in Civil Engineering from Northwestern University in 1974. He is a registered professional engineer with several years of industry and consulting experience. Previously he was director of research for the Washington State DOT and director of the Washington State Transportation Center (TRAC).

Kim Sullivan

Associate Professor, Biology, and ADVANCE Co-PI, Utah State University

Kim Sullivan obtained her BA in Biology and the Biological Basis of Behavior from the University of Pennsylvania and her Ph.D. from Rutgers University. She is Treasurer of the Cooper Ornithological Society, on the Science Board for Hawkwatch International and a Fellow of the American Ornithologist's Union. She served as Program Officer for the Animal Behavior Program at the National Science Foundation 2001-2002 and is a co-PI on the Utah State University NSF ADVANCE award. Sullivan recently chaired a symposium at the AAAS Pacific Division meeting on Strategies to Accommodate Dual Career Couples in Science and Engineering Departments.

Barbara Wakimoto

Professor of Biology, University of Washington

Barbara Wakimoto received her Bachelor's degree in Zoology from Arizona State University in 1976. Her graduate work at Indiana University included a project on polyspermic fertilization in the axolotl with Dr. Robert Briggs and her dissertation work on genetics of the Antennapedia Gene Complex of *Drosophila* with Dr. Thom Kaufman. She received her Ph.D. in 1981 in Genetics at IU, then did postdoctoral work from 1981-1984 with Dr. Allan Spradling at the Carnegie Institution of Washington working on *Drosophila* chorion gene expression. She joined the Department of Zoology at the University of Washington as an Assistant Professor in 1985. She is presently a Professor of Biology and Adjunct Professor of Genome Sciences.

Joyce W. Yen

Program/Research Manager, ADVANCE Center for Institutional Change, University of Washington

Joyce W. Yen received her M.S. and Ph.D. in Industrial and Operations Engineering from the University of Michigan, Ann Arbor. She graduated summa cum laude with B.S. in Mathematics from the University of Nebraska-Lincoln. Her research interests include decision-making and resource allocation under uncertainty (stochastic programming), faculty and graduate student professional development, and women in science and engineering issues. She was awarded the University of Nebraska-Lincoln's 2004 Outstanding Young Alumni Award. Yen was previously an assistant professor of Industrial Engineering at the University of Washington, Seattle and is currently the Program/Research Manager for the University of Washington's NSF-funded ADVANCE Center for Institutional Change.