

Advance-Nebraska: Key Personnel

PI

Prem Paul, Vice Chancellor for Research and Economic Development

Co-PIs

- Namas Chandra, College of Engineering Associate Dean for Research and Elmer E. Koch Professor of Engineering Mechanics
- Marcy Anne Holmes, Associate Professor of Practice, Geosciences and Program Director, ADVANCE-NE
- David Manderscheid, Dean, College of Arts and Sciences and Professor of Mathematics
- Julia McQuillan, Director of the Bureau of Sociological Research and Associate Professor of Sociology

INTERNAL ADVISORY BOARD

- Jim Lewis, Professor, Mathematics, chair of the IAB
- Jim O'Hanlon, Interim Dean, College of Engineering
- Sherilyn Fritz, Willa Cather Professor of Geosciences
- Susan Fritz, Institute of Agriculture and Natural Resources (IANR) Associate Vice Chancellor and Interim Dean of IANR's Agricultural Research Division
- Jerry Hudgins, Professor and Chair of the Department of Electrical Engineering
- Margaret Jacobs, Professor of History and Director of Women's Studies
- Greg Snow, Professor, Physics and Associate Dean, College of Arts & Sciences
- Judy Walker, Professor of Mathematics

PROJECT MANAGER

- Jill Hochstein

EVALUATION TEAM

- Mindy Anderson-Knott, Manager, Survey, Statistics, and Psychometric Core Facility (SSP)
- Nancy Busch, Associate Dean and Professor of Libraries
- Judy Joy, Institutional Research Specialist
- Christina Falci, Assistant Professor of Sociology
- Julia McQuillan, Director, Bureau of Sociological Research (BOSR)

PROMOTE COMMITTEE

- Shireen Adenwalla, Associate Professor, Physics
- Alexandra Basolo, Professor, School of Biological Sciences
- Tracy Frank, Associate Professor, Earth and Atmospheric Sciences
- Brian Robertson, Professor, Mechanical Engineering
- Melanie Simpson, Associate Professor, Biochemistry
- Xiao Cheng Zeng, Ameritas University Professor, Department of Chemistry

RECRUIT COMMITTEE

- Erin Blankenship, Associate Professor, Statistics
- Concetta DiRusso, Professor, Department of Nutrition
- Susan Hermiller, Professor, Mathematics
- Elizabeth "Libby" G. Jones, Ph.D., Associate Professor, Civil Engineering
- Merlin Lawson, Professor and Emeritus Dean (Graduate College), Earth and Atmospheric Sciences
- Andrzej Nowak, Robert W. Brightfelt Professor of Engineering and Professor of Civil Engineering

ADVANCE-KEY PERSONNEL

PI AND CO-PIs

PI

Prem Paul



Prem S. Paul, D.V.M., Ph.D., is Vice Chancellor for Research and Economic Development. He became vice chancellor for research on July 1, 2001. His title changed in early 2008 to reflect his new responsibilities in economic development, a growing area of emphasis for UNL. He also was dean of graduate studies from 2001 to early 2008.

Before joining UNL, Paul was a faculty member at Iowa State University, where he was associate vice provost for research, associate dean for research and graduate studies in the College of Veterinary Medicine and assistant director of the Iowa Agricultural Experiment Station. Earlier he was the veterinary medical officer at the USDA's National Animal Disease Center in Ames, Iowa.

Paul earned his DVM from the College of Veterinary Sciences at Panjab Agricultural University in India and his Ph.D. in veterinary microbiology from the University of Minnesota. He is board-certified in veterinary microbiology.

Co-PI

Namas Chandra



Namas Chandra is Associate Dean for Research, Elmer Koch Professor of Engineering, College of Engineering, Director of BioMechanics and Materials Laboratory in the Department of Chemical and Biomolecular Engineering. He finished his PhD from Texas A&M University in 1986. Between 1986 and 2006, he worked as a professor in the Department of Mechanical Engineering of Florida State University-Florida A&M University's College of Engineering. In 2005, he won FSU's 'Outstanding Researcher' award.

Co-PI **Mary Anne Holmes**



Mary Anne is the Director of ADVANCE-Nebraska and Professor of Practice in the Geosciences Department. This appointment grew out of her work on finding strategies to reduce the impact of gender barriers for women in the geosciences, which in turn grew out of her serving as President of the Association for Women Geoscientists (2000-2001). She sailed on five Ocean Drilling Program cruises to three oceans and studies how past climates and delivery systems determine the type of fine-grained sediment that accumulates on the seafloor and what clays in ancient soils tell us about past climates.

Co-PI **David Manderscheid**



David Manderscheid became dean of the College of Arts and Sciences in August 2007. Prior to his appointment; he was a professor of mathematics at the University of Iowa for 20 years, the last six as department chair. He received a bachelor's degree from Michigan State University and a doctorate from Yale University. His research is in representation theory with applications to number theory. He has held visiting positions at the Institute for Advanced Study in Princeton, the Mathematical Sciences Research Institute in Berkeley and the University of Paris.

He currently chairs the Mathematical Association of America Committee on Graduate Students. Manderscheid was awarded the Outstanding Mentor Award for the Mathematical, Physical, and Engineering Sciences from the University of Iowa Graduate College in 2002. In 2004, he received the university's Marion L. Huit

Award for his teaching, research, and service to students. At a White House ceremony in 2005, he accepted the Presidential Award for Excellence in Science, Mathematics and Engineering Mentoring for the success of his department in working with graduate students from underrepresented groups.

Co-PI

Julia McQuillan



Julia McQuillan is an Associate Professor of Sociology and Director of the Bureau of Sociology at the University of Nebraska. She earned her Ph.D. in Sociology in 1998 from the University of Connecticut and came to the University of Nebraska in the same year. McQuillan was promoted to associated professor and became director of the Bureau of Sociological Research (BOSR) in 2005. (Learn more about the BOSR at <http://bosr.unl.edu/>). Her research focuses on social inequality, health and gender. Specifically, she has published on the psychological consequences of infertility and of no longer intending children, on medical help seeking for infertility, on the importance of motherhood in women's lives, and on the gender gap in delinquency.

Project Manager
Jill Hochstein



Jill J. Hochstein is the project manager for the ADVANCE-Nebraska office. She received her B.S. in Business & Computer Science and M.S. in Agriculture Leadership & Communication from the University of Nebraska-Lincoln, Lincoln, NE. She has 13 years of experience working at UNL in network computing environments, software development, research administration, and grant management. She is co-founder of a local organization called Women in Science & Technology (WITI).

NETWORK SURVEY RESEARCH

Christina Falci



Christina Falci is an Assistant Professor in Sociology. Her expertise in social network analysis has provided her with opportunities to engage in collaborative research projects outside of the primary substantive area of research interest. In the spring of 2008, Falci designed and fielded a network mapping and climate survey to all STEM (science, technology, engineering and math) faculty at UNL. Several research projects are being developed from these data, including two master theses.

Her project will investigate how faculty network structure varies by gender leading to gender disparities in access to resources and the amount of faculty workload from service and teaching responsibilities. It is often theorized that a lack of inclusion in social networks disadvantages underrepresented faculty (i.e., women) in STEM departments, but no research has empirically tested how network structure varies by gender in academia and whether or not it leads to disadvantage, in terms of research productivity, for women.

INTERNAL ADVISORY BOARD (IAB)

Chair

Jim Lewis



Professor and former Chair of the Department of Mathematics, director of the Center for Science, Mathematics and Computer Education, lead PI for Math in the Middle. Lewis is an elected member of UNL's Academy of Distinguished Teachers. Under his leadership as department chair, his department won the University of Nebraska's 1998 University-wide Departmental Teaching Award and a 1998 Presidential Award for Excellence in Science, Mathematics, and Engineering Mentoring. Lewis has also received awards from the UNL Chancellor's Commission on the Status of Women and the Lincoln-Lancaster County Women's Commission for his support of opportunities for women in the mathematical sciences.

Jim O'Hanlon



Dean of the College of Engineering. Dr. O'Hanlon is a professor in UNL's College of Education and Human Sciences with expertise in academic leadership. O'Hanlon previously served as dean of Teachers College, led the university's re-accreditation report development, and served as interim director of the Nebraska Alumni Association. Since leaving Teachers College in 2003, O'Hanlon has spearheaded UNL's decennial accreditation process and served as interim director of the UNL Alumni Association and most recently, the Durham School of Architectural Engineering and Construction, an Omaha-based unit within the College of Engineering.

Nancy J. Busch



Head of the Internal Evaluation Team for ADVANCE-Nebraska. Dr. Nancy J. Busch is currently Associate Dean for Administration at the University of Nebraska Lincoln Libraries. She served as Deputy Director of the Nebraska Library Commission from 1989-2003 prior to becoming Associate Dean at UNL Libraries. Nancy directed the Panhandle (Nebraska) Library System from 1978-1983, served as Gila County (Arizona) Library System director in the mid-1970s and has served in numerous other libraries and states, including the Peace Corps in Nicaragua.

Nancy has a MLS from the University of Iowa and a PhD from the University of Michigan School of Information, has taught master's and doctoral level research methods classes, and has experience in evaluation and assessment initiatives in public, academic, and state libraries. Her doctoral research and study looked at recruitment and retention of rural public library directors in the U.S. Nancy is a member of ALA, NLA, and served as a Mentor for the Nebraska Library Leadership Institute in 2001, 2003, 2005, 2007 and 2009.

Sherilyn Fritz



A George Holmes Professor at the University of Nebraska – Lincoln, with appointments in the Department of Earth and Atmospheric Sciences and the School of Biological Sciences. Fritz is interested in the interface of geological, biological, and atmospheric sciences and works on contemporary lakes and their geologic record. Her research interests are in long-term environmental change, particularly using the fossil record to reconstruct natural patterns of climate variation and to evaluate human impact on lakes.

She has active research projects on the drought history of the Great Plains and northern Rocky Mountains, on long-term climate change in the tropical Andes and Amazon, and on the biogeochemistry of lakes in mid-continental North America. Fritz is a member of several national committees concerned with global change and serves on the editorial board of three major journals in geosciences. She is co-director of the University of Nebraska's Water Resources Research Initiative.

Susan Fritz



Institute of Agriculture and Natural Resources (IANR) Associate Vice Chancellor and Interim Dean of IANR's Agricultural Research Division. Fritz is a native Nebraskan and received her B.S. in Business Administration, Masters of Education in Adult Education/Agricultural Education, and Ph.D. in Community and Human Resource Development-Training and Development (1993) from the University of Nebraska.

Her research interests include gender and leadership, community leadership, antecedents of leaders' behaviors, impact of leadership development programs, acceptance and awareness of biotechnology.

Jerry Hudgins



Professor and Chair of the Department of Electrical Engineering. Professor Hudgins is a native of West Texas. He attended Texas Tech University, in Lubbock, Texas, where he received a Ph.D. degree in electrical engineering in 1985. Dr. Hudgins served as Associate and Interim Department Chair of Electrical and Computer Engineering at the University of South Carolina prior to joining the University of Nebraska as Chair. He continues to serve as an electrical engineering program evaluator for ABET since 2000. Dr. Hudgins' research involves power electronic device characterization and modeling.

Margaret Jacobs



Professor of History and Director of Women's Studies. Jacob's research is primarily interested in women, gender, race, and empire, and I conduct comparative history of settler colonies such as the American and Canadian Wests and Australia. I have just completed a book, *White Mother to a Dark Race: Settler Colonialism, Maternalism, and Indigenous Child Removal in the American West and Australia, 1880-1940*, published with the University of Nebraska Press in 2009.

This book just won the Bancroft Prize, widely considered among the most prestigious awards for history and is administered by Columbia University.

Greg Snow



Associate Dean for Research, College of Arts and Sciences. Snow founded UNL's High Energy Physics group in 1993 when he joined the faculty as an associate professor. Snow's interest in high-energy physics and particle accelerators began as an undergraduate at Princeton, where he performed senior thesis research at the Brookhaven Laboratory with Val Fitch, a Nobel Prize winner in physics. As a graduate student at Rockefeller University in New York, Snow performed his Ph.D. work at Fermilab in Batavia, IL. As a postdoctoral fellow at Rockefeller and as an assistant professor at the University of Michigan, Snow continued his "commute-to-the-laboratory" lifestyle, performing experiments at the CERN Laboratory in Geneva, Switzerland. Snow came to Nebraska to settle near his home state of Wyoming. He and his colleagues are leading members of major experiments at both Fermilab and CERN.

Judy Walker



Professor of Mathematics, Walker is a lead PI on Nebraska Mentoring through Critical Transition Points; and founder and organizer of Nebraska Conference for Undergraduate Women in Mathematics.

EXTERNAL ADVISORY BOARD

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