

new faculty 2012



NDSU NORTH DAKOTA
STATE UNIVERSITY



WELCOME TO NORTH DAKOTA STATE UNIVERSITY,
an institution recognized as a leading student-focused, land-grant, national research university. You will find a unity of purpose on this campus that few other organizations enjoy.

NDSU is a very special place. We are a Top 100 research university, offering an exceptional educational experience to a purposefully sized student body of degree seeking students with appropriate academic credentials for success. There are few, if any, other land-grant universities that conduct research at our quality and quantity, but remain student focused.

The Carnegie Commission on Higher Education has named NDSU to the elite “Research University/Very High Research” category, which represents the 108 most successful private and public universities in the United States. NDSU is the first and only institution in North Dakota to receive the prestigious categorization. For the most current fiscal year, our annual research expenditures totaled \$126 million.

Aside from basic research, our highly successful Research and Technology Park continues to expand in size and productivity as we apply our research to the creation of new technologies, businesses and jobs.

We have a national and international presence, and students come to us seeking a quality education at an affordable price. In fall 2012, NDSU had 14,443 students enrolled in its undergraduate, professional and graduate programs. Our international student enrollment stands at 1,136. We have 2,111 graduate students.

NDSU has more than 100 buildings on campus and takes pride in the quality of its facilities. The university has a major presence in Fargo’s historic and vibrant downtown area – architecture and landscape architecture programs are housed in both Renaissance Hall and Klai Hall: Renaissance Hall also is home to the visual arts department; and Richard H. Barry Hall holds the College of Business and Department of Agribusiness and Applied Economics.

The North Dakota Agricultural Experiment Station and NDSU Extension Service are integral parts of the university, and the university remains deeply committed to its land-grant traditions. NDSU participates in the Tri-College University consortium with neighboring Minnesota State University Moorhead and Concordia College.

NDSU has a strong national reputation for excellence in education, research and service. It clearly has a positive and lasting impact on the lives of students and the vitality of our community, state, region and nation. Thank you for joining our university family and making NDSU even stronger.

Sincerely,
President Dean L. Bresciani



ABRAHAM AYEBO

Assistant Professor in the Department of Mathematics and the School of Education

Ayibo earned his B.S. in 1996 from Kwame Nkrumah University of Science and Technology in Kumasi, Ghana; and his M.S. in 2002 and Ph.D. in 2010 from the University of Nevada, Reno. He has had six publications and is a member of the National Council of Teachers of Mathematics, American Educational Research Association, National Association of Gifted Children, School Science and Mathematics Association, Psychology of Mathematics Education – North America, and the Mathematical Association of America.



YONG BAI

Professor and Chair of the Department of Construction Management and Engineering

Bai earned his B. Engr. in 1986 from Tsinghua University, China; M.S. in 1992 from Clemson University; and Ph.D. in 1996 from North Carolina State University. During his career, Bai worked for two construction companies on commercial and industrial projects in the United States and China and taught at Texas Tech University and the University of Kansas. His research expertise is in the areas of infrastructure construction and maintenance, highway work zone safety, emerging technology applications and international construction management. Bai has led and participated in a variety of research projects funded by the State Department of Transportation, Federal Highway Administration, National Science Foundation and the construction industry. His cumulative research funding level has exceeded the million-dollar mark. Results of his research have been published in more than 100 manuscripts. Bai received the Dwight D. Eisenhower Faculty Fellowship awarded by the Federal Highway Administration in 2005 and was elected as the fellow of American Society of Civil Engineers in 2010. He is also a member of Chi Epsilon, the National Civil Engineering Honor Society in the United States.



DILPREET S. BAJWA

Associate Professor in the Department of Mechanical Engineering

Bajwa earned his B.S. in 1990 from Punjab Agricultural University and M.S. in 1996 and Ph.D. in 2000 from the University of Illinois. He is professionally affiliated with Forest Products Society, Society of Wood Science and Technology, Society of Plastic Engineer and the American Society for Testing and Materials. Bajwa has published several book chapters, more than 16 peer-reviewed papers and 28 other conference presentations and technical reports.



SREEKALA G. BAJWA

Professor and Chair in the Department of Agricultural and Biosystems Engineering

Bajwa earned her B.Tech in 1992 from Kerala Agricultural University in Tavanur, Kerala; M.Tech in 1993 from the Indian Institute of Technology in Kharagpur, India; and Ph.D. in 2000 from the University of Illinois, Urbana-Champaign. She received the Outstanding Agricultural Engineer Award from the Arkansas section of ASABE in 2008 and the AMA-SHIN – NORINSHA – AAAE Young Researcher Award in 2007. She has had more than 40 peer-reviewed publications, and 95 conference papers and other publications. Bajwa is a member of ASABE, AWIS, AAAE and is associate editor for ASABE IET Division. She is professional reviewer for 15 journals.



MYKELL BARNACLE

Assistant Professor in the Department of Nursing

Barnacle earned her B.A.N. in 2004 from Concordia College and D.N.P. in 2008 from North Dakota State University. She is a member of the North Dakota Nurse Practitioners Association and American Academy of Nurse Practitioners.



BRADLEY BENTON

Assistant Professor in the Department of History

Benton earned his B.A. in 2003 from Furman University, M.A. in 2005 from Tulane University and Ph.D. in 2012 from the University of California, Los Angeles. He was awarded a Fulbright fellowship and an FLAS fellowship. Benton is a member of Phi Beta Kappa.



JEFF BOYER

Assistant Professor of Practice in the College of Science and Mathematics Dean's Office

Boyer earned his B.S. in 1994 from Texas A&M University, M.A. in 1999 from Montana State University – Billings and Ph.D. in 2010 from the University of South Florida.



RUI (APRIL) DAI

Assistant Professor in the Department of Computer Science

Dai earned her B.S. in 2004 and M.S. in 2007 from Huazhong University of Science and Technology and her Ph.D. in 2011 from Georgia Institute of Technology. She is a member of IEEE and IEEE Communications Society. She has had four journal papers published, one accepted for publication and seven conference papers. Dai received the IEEE ICC student travel grant in 2009 and Excellent Graduate of Huazhong University of Science and Technology award in 2004.



DEBASIS DAWN

Assistant Professor in the Department of Electrical and Computer Engineering

Dawn earned his Bachelor of Engineering in 1986 from Jadavpur University in India; Master of Technology in 1989 from Indian Institute of Technology in Kanpur, India; and Doctor of Engineering in 1993 from Tohoku University in Sendai, Japan. Dawn led research efforts in development of radio frequency front-end circuits, system-on-chip solutions for Wireless Personal Area Network, radar and wireless sensors applications using silicon-based CMOS/SiGe process technologies. He has served as a reviewer of technical journals such as IEEE Trans. Microwave Theory and Techniques, Electronics Letters, and Radio Science. He was a technical program review committee member of IEEE Microwave Theory and Techniques Society International Microwave Symposium ("Power Amplifier Devices and Circuits") and has held session chair positions numerous times at IMS. Dawn was awarded the Japanese Government Scholarship Monbusho by the Ministry of Education in Japan for 1989-1993. He has published more than 50 papers in international journals and conferences and holds two U.S. patents. Dawn is a member of IEEE.



NED DOCHTERMANN

Assistant Professor in the Department of Biological Sciences

Dochtermann earned his B.S. in 1999 and M.Sc. in 2005 from the University of California, Davis, and Ph.D. in 2009 from the University of Nevada, Reno. He has had 18 publications in peer-reviewed journals and is a member of the Society for the Study of Evolution, the Animal Behaviour Society and the Ecological Society of America.



ROBERT DVORAK

Assistant Professor in the Department of Psychology

Dvorak earned his B.A. in 2001 from Northern State University, M.A. in 2008 and Ph.D. in 2012 from the University of South Dakota. Dvorak has had more than 20 peer-reviewed publications. He is the recipient of the National Research Service Award from NIAAA, Clinical Research Loan Repayment from NIDA and the NIAAA/NIDA Young Investigator Award. Dvorak is a member of the Research Society on Alcoholism and the Society for Research on Nicotine and Tobacco.



TIFFANY FIER

Assistant Professor of Set Design in the Department of Theatre Arts

Fier earned her B.S. in 2004 from the University of Wisconsin-LaCrosse and her M.F.A. in 2007 from Purdue University. She has been a working professional in theatre for the past five years.



SARAH HILGERS GRETERMAN

Wellness Lecturer in the Department of Health, Nutrition, and Exercise Sciences

Greterman earned her B.S. in 2004 from the University of Wisconsin-Green Bay and her M.S. in 2009 from North Dakota State University where she is pursuing her Ph.D. She has made nine presentations and is a member of Northland Chapter of American College of Sports Medicine, American College of Sports Medicine and Phi Kappa Phi Honor Society.



CHRISTINA HARGISS

Assistant Professor of Practice in the Department of Natural Resource Management

Hargiss earned her B.S. in 2003, M.S. in 2005 and Ph.D. in 2009 from North Dakota State University. She is a member of the Society of Range Management, Society of Wetland Scientists, National Science Teachers Association and North Dakota Coalition for Conservation and Environmental Education. She is the Project WET facilitator and is on the board of directors for River Keepers. Hargiss has had three peer-reviewed publications and received the Best Ph.D. Oral Presentation Award in 2009 at the Annual Society of Range Management meeting.



JEANETTE HOFFMAN

Assistant Professor of Practice in the School of Education

Hoffman earned her B.S. in 1991 and M.Ed. in 2002 from North Dakota State University and her Ed.D. in 2006 from the University of St. Thomas. Hoffman is a member of the National Association of Multicultural Education and the International Society for the Scholarship of Teaching and Learning.



YING HUANG

Assistant Professor in the Department of Civil Engineering

Huang earned her B.S. in 2006 from Guangzhou University in China, M.S. in 2008 from Harbin Institute of Technology in China and Ph.D. in 2012 from Missouri University of Science and Technology. She has published one book chapter, five journal papers and more than 10 conference papers, one U.S. patent and one Chinese patent and more than five journal papers are in the process of publication. Huang also received the Best M.S. Thesis Award of Heilongjiang Province in 2009.



JEFFREY S. JOHNSON

Assistant Professor in the Department of Psychology

Johnson earned his B.Sc. in 1999 and M.S. in 2002 from Northern Arizona University and his Ph.D. in 2008 from the University of Iowa. He is a member of the Association for Psychological Science, Cognitive Neuroscience Society and the Society for Neuroscience. He has had 13 publications in peer-reviewed journals (listed as first author for 11), and has published two book chapters. He was a participant in the Loan Repayment Program through NIH. His postdoctoral research was funded by the National Research Service Award through NIH and he received the Lewis Award for students showing early career potential at the University of Iowa. Johnson has been an ad hoc reviewer for 12 journals.



CECILIA KANG

Assistant Professor in the Department of Music

Kang earned her Bachelor of Music in 2006 from University of Toronto, Master of Music in 2008 from University of Southern California and Doctor of Musical Arts in 2011 from the University of Michigan. She was the Rico International Performing Artist and Clinician, Canadian Music Competitions laureate and laureate for the Concours Orchestre Symphonique de Montreal Standard Life Competition.



SANJAY KARMAKAR

Assistant Professor in the Department of Electrical and Computer Engineering

Karmakar earned his M.E. in 2006 from the Indian Institute of Science in Bangalore, India, and Ph.D. in 2012 from University of Colorado at Boulder. He has published 25 articles on information theory and communication systems in IEEE conferences and journals. Karmakar is a member of IEEE and has served as a reviewer to several IEEE transactions and as reviewer and session chair to various IEEE conferences.

SU LEGATT

Lecturer in the Department of Visual Arts

Legatt earned her B.F.A. in 2003 from Minnesota State University Moorhead and M.F.A. in 2006 from Utah State University. She serves on the Board of Directors of River Keepers in Fargo, is a fellow of the Creative Community Leadership Institute of Intermedia Arts in Fargo, and is coordinator of the Minnesota Community College Art Symposium in Moorhead, Minn. Legatt was the recipient of the Faculty Award of Excellence at Lake Superior College in Duluth, Minn., and was a visiting artist at the International Center for Photography in New York.

ZHAOHUI LIU

Assistant Professor in the Department of Plant Pathology

Liu earned his B.S. in 1994 from Anhui Normal University in China, M.S. in 1997 from Nanjung Agricultural University in China and Ph.D. in 2006 from North Dakota State University. He has been an active member of the American Phytopathological Society and the Genetics Society of America since 2002 and 2007, respectively. He served on the APS Genetics Committee for one term and is on the APS Molecular and Cellular Phytopathology Committee. He has published 20 peer-reviewed articles since 2002 in journals such as Nature Genetics, PLoS Pathogens, Phytopathology and Theoretic and Applied Genetics. Liu received the NDSU graduate research award in 2005 and the APS I. E. Melhus Award in 2006.



MEHRAN MADANI

Lecturer in the Department of Architecture and Landscape Architecture

Madani earned his bachelor's degree in 1994 from Shiraz University, Iran; Master's in 2005 from the University of Toronto; and is working toward earning his doctorate from Washington State University in December 2012. Madani is a member of ASLA, CSLA, OALA, AIA and is the Design Association's director.



BECKY MCDANIEL

Assistant Professor in the Department of Nursing

McDaniel earned her A.D. in 1992 from Bismarck State College, B.S. in 1996 from North Dakota State University and M.S. in 2001 from University of Mary. She is a member of Sigma Theta Tau, Sanford's Nursing Research Council and the American Psychiatric Nursing Association.



ARTEM NOVOZHILOV

Assistant Professor in the Department of Mathematics

Novozhilov earned his M.A. in 1999 and Ph.D. in 2002 from Moscow State University of Communication Means. He is an applied mathematician with interest in mathematical modeling of various evolutionary processes. His publications include 23 papers in refereed journals, a number of conference proceedings and a book, Dynamical Systems and Models in Biology, published in 2010 in Russian. Novozhilov held a National Center for Biotechnology Information fellowship at the National Institute of Health in 2004-2009.



JAMES NYACHWAYA

Assistant Professor in the School of Education and Department of Chemistry and Biochemistry

Nyachwaya earned his Bachelor of Education in 1998 from Kenyatta University in Kenya, Master of Management in 2004 from Hamline University and Master of Science in chemistry in 2008 and Ph.D. in 2012 from the University of Minnesota Twin Cities. He is a member of the Association of Science Teacher Education and the National Association of Research in Science Teaching. Nyachwaya has three publications and is the recipient of the Best Graduate Student Research Paper Award at the University of Minnesota.



MELISSA LUNSMAN O'CONNOR

Assistant Professor in the Department of Human Development and Family Sciences

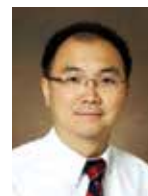
O'Connor earned her B.A. in 2003 from St. Cloud University, M.S. in 2006 from University of Wisconsin-Oshkosh and Ph.D. in 2010 from the University of South Florida. Her research focuses on characterizing changes in cognitive and functional abilities across adulthood. She had a postdoctoral fellowship in quantitative psychology and aging at the University of Virginia, published 13 journal articles, worked as a statistical consultant and taught six undergraduate courses in psychology or human development. O'Connor is a member of the American Psychological Association and the Gerontological Society of America.



MEGAN ORR

Assistant Professor in the Department of Statistics

Orr earned her B.S. in 2006 from University of Michigan-Ann Arbor and Ph.D. in 2012 from Iowa State University. She is a member of the American Statistical Association, Institute of Mathematical Statistics and Eastern North American Region (International Biometric Society). Orr has written or co-written six papers in peer-reviewed journals.



KWANGSOO PARK

Assistant Professor in the Department of Apparel, Design, and Hospitality Management

Park earned his B.S. in 2003 from Sejong University and M.S. in 2007 from Florida International University. He has had eight peer-reviewed journal articles published and eight peer-reviewed conference proceedings.



JULIE PASCHE

Assistant Professor in the Department of Plant Pathology

Pasche earned her B.S. in 1993, M.S. in 2001 and Ph.D. in 2012 from North Dakota State University. She is the author of 24 refereed journal publications, plus 30 additional publications, including refereed short communication articles, proceedings of symposium, abstracts and edited articles. Pasche is a member of the American Phytopathological Society.



SHEELA RAMAMOORTHY

Assistant Professor in the Department of Veterinary and Microbiological Sciences

Ramamoorthy earned her B.V.Sc. (D.V.M.) in 1991 from Madras Veterinary College in India, M.S. in 2002 from Oklahoma State University and Ph.D. in 2006 from Virginia Tech. She has more than 30 peer-reviewed publications. Ramamoorthy is a member of Phi-Zeta Honor Society, American Society for Microbiology and International Society for Vaccine.



FRED RIGGINS

Associate Professor in the Department of Management Information Systems

Riggins earned his B.S. in 1980 and M.B.A. in 1984 from the University of Iowa and M.S. in 1990 and Ph.D. in 1994 from Carnegie-Mellon University. He has more than 35 publications including journal articles, conference proceedings and book chapters, plus more than 2,000 citations according to Google Scholar. He is ranked number nine on the list of top information systems researchers for 2003-2007 according to an independent study based on number of publications and outlets. Riggins is a member of the Association for Information Systems.



REBECCA ROBINSON

Lecturer in the Department of Apparel, Design, and Hospitality Management

Robinson earned her bachelor's degree in 1987 from Ohio State University and master's in 2003 from the University of Cincinnati. She is a member of the International Textile and Apparel Association, the Costume Society of America and has been published in *The Men's Fashion Reader*, *Modern Armor: A Study of the American Football Uniform*, and *It Won't Stop: The Evolution of Men's Hip Hop Gear*. Robinson also published the *Sustainability and Fashion Handbook* and CD: an educational tool for students in 2002.



PATRICK SCHMIEDT

Assistant Professor of Practice in the Department of Communication

Schmiedt earned his B.S. in 2004 and M.A. in 2011 from the University of Wyoming. He has five years of newspaper experience, including four as high school sports coordinator at the Casper (Wyoming) Star-Tribune. He published the book, *A Century of Fridays: Wyoming High School Football 1894-2011*, in January 2012. He has won two national sports-writing awards from the Associated Press Sports Editors in 2009, one for explanatory writing and one for project reporting. Schmiedt is an NDSU adviser to the Society of Professional Journalists student chapter.



INDRANIL SENGUPTA

Assistant Professor in the Department of Mathematics

Sengupta earned his B.E. in 2004 from BESU, M.S. in 2006 from University of Texas-Pan American and Ph.D. in 2010 from Texas A&M University. He is a member of the American Mathematical Society and has had 23 publications in both peer-reviewed journals and conference proceedings.



MATTHEW SMITH

Visiting Assistant Professor in the Department of Biological Sciences

Smith earned his B.S. in 2002 and M.S. in 2005 from North Dakota State University and Ph.D. in 2012 from the University of Arkansas. He is the recipient of a 2011 NSF STEM GK-12 Fellowship, 2006-2010 Walton Doctoral Academy Fellowship, 2009 Swartz Graduate Fellowship for outstanding graduate teaching, 2007 George T. Johnson Memorial Scholarship for outstanding first-year Ph.D. students and the 2001-2002 Frank J. Cassel Fellowship for Undergraduate Research at NDSU.



KRISTINE STEFFEN

Associate Professor in the Department of Pharmaceutical Sciences

Steffen earned her Pharm D. in 2002 and Ph.D. in 2007 from North Dakota State University. She is a member of the Obesity Society, American Society of Metabolic and Bariatric Surgery and the Academy of Eating Disorders. Steffen is the recipient of the K23 Mentored Career Development Award from NIH.



MARK STRAND

Associate Professor in the Department of Pharmacy Practice

Strand earned his B.A. in 1985 from Luther College in Iowa, M.S. in 1991 from the University of Minnesota and Ph.D. in 2004 from University of Colorado at Denver. He is a member of the APHA and has 17 peer-reviewed publications.



PUSHPARAJAH (THAVA) THAVARAJAH

Assistant Professor in the School of Food Systems

Thavarajah earned his B.Sc. in 1993 from the University of Peradeniya in Sri Lanka, and M.Sc. in 2001, Ph.D. in 2004 and M.B.A. in 2008 from the University of Saskatchewan. He is a member of the American Chemical Society, Sri Lanka Chemical Society and Institute of Food Technology.



DONALD K. WARNE

Master of Public Health Program Director and Associate Professor in the Department of Pharmacy Practice

Warne earned his B.S. in 1989 from Arizona State University, M.D. in 1995 from Stanford University of Medicine and M.P.H. in 2002 from Harvard School of Public Health. He is a member of the National Board of Directors of the American Cancer Society, senior policy adviser for the Great Plains Tribal Chairmen's Health Board, member of the National Institutional Review Board of Indian Health Service and member of the CDC Advisory Committee on Breast Cancer in Young Women. Warne is NDSU's Mary J. Berg Distinguished Professor of Women's Health.



ABBEY WICK

Assistant Professor in the Department of Natural Resource Sciences

Wick earned her B.A. in 2001 and M.A. in 2004 from the University of Denver and Ph.D. in 2007 from the University of Wyoming. She is a member of the Soil Science Society of America, American Society of Mining and Reclamation and Ecological Society of America. She has 10 publications, 29 peer-reviewed articles and reports and 30 presents as first author and contributor. Wick has received more than \$470,000 in grant funding.



SCOTT WOOD

Dean and Professor of Geosciences in the College of Science and Mathematics

Wood earned his B.A. in 1980 from Hamilton College and M.A. in 1982 and Ph.D. in 1985 from Princeton University. He has had 84 refereed journal publications, 13 refereed chapters in books and 23 refereed conference proceedings. He is a Fellow of the Society of Economic Geologists and has received the following awards: 2006 Distinguished Service Award in the Division of Geochemistry from the American Chemical Society, 2005 Inaugural Distinguished Faculty Award in the College of Science at the University of Idaho, 2004 Julian Boldy Award for best paper in economic geology at the annual Joint Meeting of the Geological Association of Canada and the Mineralogical Association of Canada, 2003-2004 Environmental Science Program Outstanding Faculty Award, 1998 University of Idaho Award for Excellence in Research, and 1993 and 1995 Meritorious Service Awards from the Geochemical Society. He was a co-organizer of the 15th Annual V.M. Goldschmidt Conference 2005 in Moscow, Idaho. Wood has obtained more than \$4 million in research funding from a variety of sources, including NSF, NSERC, NIH, DOE and DoD.

This booklet is designed to introduce NDSU's new faculty to the institution and community, and has been produced by the Office of the Provost.



NDSU

North Dakota State University does not discriminate on the basis of age, color, disability, gender expression/identity, genetic information, marital status, national origin, public assistance status, race, religion, sex, sexual orientation or status as a U.S. veteran. Direct inquiries to the Vice President for Equity, Diversity and Global Outreach, 205 Old Main, (701) 231-7708.