



2 0 1 6 I N V E S T I T U R E

MICHIGAN STATE UNIVERSITY

October 28, 2016

Michigan State University Auditorium

EMPOWER EXTRAORDINARY

THE CAMPAIGN *for* **MICHIGAN STATE UNIVERSITY**

A FORCE FOR **CREATIVITY,** **DISCOVERY,** AND **LEARNING.**

Michigan State University has a legacy of being a dynamic, collaborative academic environment that prospective students and faculty are eager to join. We know that this distinctive environment is poised to generate a significant number of scientific breakthroughs as well as help students find their life's work. It's an environment where students, scholars, faculty, and researchers, through immeasurable creativity, discovery, and learning, will make seemingly impossible ideas possible and turn dreams into realities.

Through the Empower Extraordinary campaign Michigan State University seeks to establish 100 new endowed chairs and fund important academic programs in order to retain and attract great thinkers and mentors.



The **MSU INVESTITURE**

The Michigan State University investiture of 2016 celebrates MSU's commitment to academic excellence and innovation by bestowing faculty recognition at the university level to those who hold endowed chair and professor positions.

Today's honorees, along with the entire faculty present at this inaugural event, are teachers and researchers whose work helps MSU to continue raising the bar on what we can achieve.

The faculty who receive medallions today were appointed to positions funded during Empower Extraordinary, the campaign for MSU. As of October 1, 2016, 59 new endowed faculty positions have been created since the start of the campaign.



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College of Osteopathic Medicine



ENDOWED CHAIRS *and* **PROFESSORS**

Endowed chairs and professorships—the gold standard of distinction and recognition—give our deans and leaders a powerful means of attracting the next generation of MSU faculty. An endowed professorship provides top scholars with financial support and security, along with the acknowledgment that they are actively engaged in leading-edge work at the top of the talent pyramid.

These endowed positions were established through gifts made during the *Empower Extraordinary* campaign and are funded in perpetuity by donors.

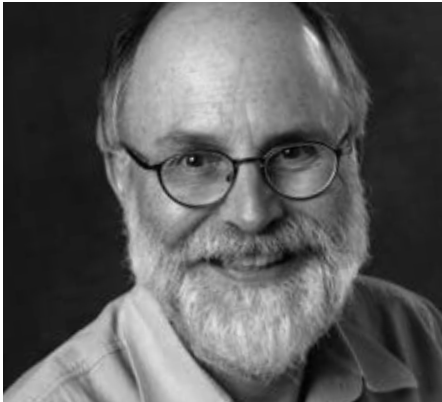


W O L F G A N G B A N Z H A F

JOHN R. KOZA ENDOWED CHAIR IN GENETIC PROGRAMMING

Established through a gift from Dr. John R. Koza

Computer Science and Engineering



WOLFGANG BANZHAF, John R. Koza Endowed Chair in Genetic Programming, is a world-renowned computer scientist and expert in the field of genetic programming, a technique that evolves computer programs to solve problems as they happen, such as finding and fixing bugs in software, generating new programs that control robots, or identifying financial market trends. Dr. Banzhaf is the first to hold an endowed chair in genetic programming in the United States.

A native of Germany, Banzhaf holds undergraduate and advanced degrees in physics from University of Stuttgart and Ludwig-Maximilians-Universität München, respectively, and earned a PhD in physics from Karlsruhe Institute of Technology.

He is one of the co-authors of “Genetic Programming: An Introduction,” a classic text in the field, as well as the sole author of “Linear Genetic Programming,” which provided a new basis to view genetic programming. Banzhaf also served as the founding editor of the journal *Genetic Programming and Evolvable Machines*. He currently chairs the Association for Computing Machinery’s Special Interest Group on Genetic and Evolutionary Computation.



D O N A L D E . C O N L O N

GAMBREL FAMILY ENDOWED PROFESSORSHIP OF MANAGEMENT

Established through a gift from Al and Nancy Gambrel

Management



DONALD E. CONLON, Gambrel Family Endowed Professor of Management, is focusing his research in the areas of organizational behavior and negotiation/dispute resolution. His work examines justice issues in organizations, negotiation and third party dispute intervention, and decision making.

Conlon earned his PhD in business administration from the organizational behavior group at the University of Illinois, Urbana-Champaign.

His research has been published in a variety of journals, including the *Academy of Management Journal*, *Administrative Science Quarterly*, *Organizational Behavior and Human Decision Processes*, and the *Journal of Applied Psychology*. He has also received “Best paper” awards from both the Academy of Management and the International Association for Conflict Management. He has served as the President of the International Association for Conflict Management, and is a past Division Chair for the Conflict Management Division of the Academy of Management. He has served or currently serves on numerous editorial boards including the *Journal of Applied Psychology*, the *Journal of Management*, the *Journal of Organizational Behavior*, and *Organizational Behavior and Human Decision Processes*.



C . D E B R A F U R R - H O L D E N

C.S. MOTT ENDOWED PROFESSOR OF PUBLIC HEALTH

Established through a gift from the C.S. Mott Foundation

Epidemiology and Biostatistics
Human Medicine



C. DEBRA FURR-HOLDEN is a Charles Stewart Mott Endowed Professor of Public Health at Michigan State University College of Human Medicine.

She earned her Bachelor of Arts degree and doctorate in epidemiology at Johns Hopkins University's Bloomberg School of Public Health.

Dr. Furr-Holden is an expert in understanding how the built and social environment shapes and influences health and health behavior. This includes areas such as exposure to violence, alcohol, tobacco, and other drugs. She has authored or co-authored more than 20 publications in the last two years on the role of neighborhood environment in childhood, adolescent, and young adult psychopathology.



M I C H A E L H O L S A P P L E

FOOD AND CONSUMER PRODUCT INGREDIENT SAFETY ENDOWED CHAIR

*Established through gifts from the Grocery
Manufacturers Association and many of its members,
allied companies, and organizations*

Food Science and Human Nutrition



MICHAEL HOLSAPPLE came to Michigan State to establish a laboratory focused on the immune system, with particular attention on whether ingredients can contribute to the onset or progression of an allergic response. Outside of his lab-based activities, he is working to understand the mode-of-action, and pathways of toxicity to address questions associated with the safety of ingredients.

Holsapple has established a good working knowledge of the importance of integrating hazard identification and exposure science into a risk assessment. He has also worked to apply a systems toxicology approach to understand how various pathways of toxicity can inform organ toxicity.

Previously, Holsapple was executive director at Covance Laboratories, Inc. in Madison, WI; senior research leader at Battelle Memorial Institute in Columbus, OH; and executive director for the International Life Sciences Institute's Health and Environmental Sciences Institute in Washington, DC. Holsapple's degrees are from Purdue University, focusing on biology, pharmacology, and toxicology.



JENNIFER ELLYN JOHNSON

C.S. MOTT ENDOWED PROFESSOR OF PUBLIC HEALTH

Established through a gift from the C.S. Mott Foundation

Obstetrics, Gynecology, and Reproductive Biology
Human Medicine



JENNIFER ELLYN JOHNSON is a Charles Stewart Mott Endowed Professor of Public Health at Michigan State University College of Human Medicine.

Dr. Johnson earned her Bachelor of Science degree in physics and doctorate in clinical psychology from Brigham Young University.

She conducts NIH-funded randomized trials to determine the effectiveness and cost-effectiveness of mental health and substance use interventions for vulnerable populations such as pregnant women, prisoners and jail detainees. Her research in implementation science also examines ways to change policies and systems to better support mental health care for vulnerable populations. Dr. Johnson has been the principal investigator of eight National Institutes of Health awards, totaling more than \$14 million.



A L L E N M C N A M A R A

GEOLOGICAL SCIENCES ENDOWED PROFESSORSHIP

Established through an anonymous gift

Earth and Environmental Sciences



ALLEN MCNAMARA, endowed professor of geodynamics in the Department of Earth and Environmental Sciences, is conducting groundbreaking research aimed at understanding the structure, dynamics, and evolution of Earth's interior, with an emphasis on investigating how convection within the deep interior cools the planet, drives plate tectonics, and controls the volcanism at the surface.

McNamara received his BS degrees in physics and geology from Michigan State University, and his MS in geology and PhD in geophysics from the University of Michigan. Prior to joining MSU in 2016, he was an associate professor of geodynamics in the School of Earth and Space Exploration at Arizona State University.

McNamara has published more than 35 peer-reviewed papers and has been an invited speaker at numerous conferences, seminars, and colloquiums. During his tenure at Arizona State, he was voted School of Earth and Space Exploration Graduate Professor of the Year four out of his last five years there – 2012, 2013, 2015, and 2016.



HAROLD “WOODY” W. NEIGHBORS

C.S. MOTT ENDOWED PROFESSOR OF PUBLIC HEALTH

Established through a gift from the C.S. Mott Foundation

Family Medicine
Human Medicine



HAROLD “WOODY” W. NEIGHBORS is a Charles Stewart Mott Endowed Professor of Public Health at Michigan State University College of Human Medicine.

He earned his Bachelor of Arts degree in psychology from Haverford College and doctorate in social psychology from the University of Michigan. For the past 30 years, Dr. Neighbors has been a professor at the University of Michigan where he dedicated his career to the investigation of health behavior and mental health among Black Americans.

He has a long-standing interest in studying how ethnic differences in health and illness behavior affect major depression, diabetes, and oral health in difficult-to-reach population groups. His work promotes a personal empowerment perspective on coping with stress that emphasizes the ability of people, regardless of racial identification or socioeconomic position, to draw upon psychological strengths and social assets to overcome personal and community barriers that degrade mental health.



B R I A N T . P E N T L A N D

**THE MAIN STREET CAPITAL PARTNERS
INTELLECTUAL CAPITAL ENDOWED PROFESSOR**

Established through a gift from Vincent D. Foster

Accounting and Information Systems



BRIAN T. PENTLAND, the Main Street Capital Partners Intellectual Capital Endowed Professor, conducts research in the area of organizational routines.

He earned a bachelor's of science in mechanical engineering from the Massachusetts Institute of Technology, followed by a PhD in management, also from the Massachusetts Institute of Technology.

His publications have appeared in *Academy of Management Review*, *Accounting, Organizations and Society*, *Administrative Science Quarterly*, *Management Science*, *Organization Science*, YouTube, and elsewhere. He is a recipient of the 2013 John D. and Dortha J. Withrow Teacher-Scholar Award from the Eli Broad College of Business, and was awarded the 2015-16 William J. Beal Outstanding Faculty Award from MSU.



A M Y R A L S T O N

JAMES K. BILLMAN, JR., M.D. ENDOWED PROFESSOR

*Established through a gift from
James K. Billman, Jr., M.D.*

Biochemistry and Molecular Biology



AMY RALSTON, associate professor of biochemistry and molecular biology and James K. Billman, Jr., M.D. Endowed Professor, is conducting pioneering research to investigate how genes regulate stem cell behavior in the context of the mammalian embryo, with long-term goals of devising innovative stem cell therapies and improving pregnancy outcomes.

Ralston received her BA in biochemistry from Oberlin College and her PhD in zoology from the University of Wisconsin, Madison. Before coming to MSU in 2014, she was an assistant professor of molecular, cell and developmental biology at the University of California, Santa Cruz, and a postdoctoral fellow at the Hospital for Sick Children in Toronto, Ont.

Ralston has already published more than 25 peer-reviewed research papers on her work. She is the recipient of the Presidential Early Career Award for Scientists and Engineers from Barack Obama and currently serves as a co-instructor of the course, Mouse Development, Stem Cells, and Cancer, at the nationally renowned Cold Spring Harbor Laboratory in New York.



A M Y S I M O N

WILLIAM AND AUDREY FARBER FAMILY CHAIR IN HOLOCAUST STUDIES AND EUROPEAN JEWISH HISTORY

*Established through a gift from the William
and Audrey Farber Family Foundation and
Michael and Elaine Serling*

Jewish Studies



AMY SIMON, the William and Audrey Farber Family Chair in Holocaust Studies and European Jewish History, has devoted her career to the study of first-person accounts of Holocaust victims, and the way their accounts—diaries, letters, memoirs, and postwar testimonials—depict Holocaust perpetrators and the interactions between the two.

Simon has a PhD in history from Indiana University, and two master's degrees, one in history, also from Indiana University, and one in Holocaust studies from University College, London.

Prior to joining MSU in August, 2016, she worked as a researcher at the United States Holocaust Memorial Museum and has taught at the University of Maryland, Baltimore County. Dr. Simon is a former Leon Milman Fellow at the United States Holocaust Memorial Museum and a former Kagan Claims Conference Fellow. She regularly participates in international workshops and conferences through the United States Holocaust Memorial Museum, Yad Vashem, the Association for Jewish Studies, and the Holocaust Educational Foundation. Dr. Simon has also published several articles on the topics of Holocaust literature and Holocaust perpetrators.



CYNTHIA LEE STARNES

THE JOHN F. SCHAEFER CHAIR IN MATRIMONIAL LAW

*Established through a gift from Trustee
Emeritus John Schaefer*

Law



CYNTHIA LEE STARNES, the John F. Schaefer Chair in Matrimonial Law, conducts her work at the intersection of family law, partnership law, and feminist theory. Her critiques of current law and reform proposals have provoked widespread commentary.

She earned a bachelor's of science with high honors from Michigan State University, followed by her Juris Doctor from Indiana University School of Law, where she graduated cum laude. She furthered her legal studies at Columbia University School of Law, where she earned an LLM in 1989.

Starnes has presented her scholarship in both international and national fora, and has worked with grass roots community groups dedicated to law reform. Starnes has taught family law to students abroad, and commercial law to judges at the National Judicial College. A long-term member of the MSU Law faculty, she co-chairs the Child and Family Advocacy certificate program, is co-advisor of the Family Law focus area, and serves as faculty advisor to the Family Law Society. Professor Starnes was named an MSU Outreach and Engagement Senior Fellow for her scholarly work toward community change, and was appointed in 2006 as one of six Computer Assisted Legal Instruction Fellows in Family Law. Her publications include articles in the *University of Chicago Law Review*, *Wisconsin Law Review*, *Iowa Law Review*, and *Indiana Law Journal*.



K Y L E P O W Y S W H Y T E

TIMNICK CHAIR IN THE HUMANITIES

Established through a gift from Henry O. Timnick

Philosophy



KYLE POWYS WHYTE, the Timnick Chair in the Humanities at Michigan State University, is Associate Professor of Philosophy and Community Sustainability, a faculty member of the Environmental Philosophy & Ethics graduate concentration, and a faculty affiliate of the American Indian & Indigenous Studies and Environmental Science & Policy programs. His research, teaching, training, and activism address moral and political issues concerning climate policy and Indigenous peoples and the ethics of cooperative relationships between Indigenous peoples and climate science organizations.

Whyte earned his undergraduate degree from Babson College, his master's degree in Philosophy from University of Memphis, and his PhD in Philosophy from Stony Brook University.

He is Potawatomi and an enrolled member of the Citizen Potawatomi Nation. His work has recently extended to cover issues related to Indigenous food sovereignty. His writing appears in journals such as *Climatic Change*, *Sustainability Science*, *Hypatia*, *Synthese*, and *Human Ecology* and in collections published by Oxford University Press, Routledge, Cambridge University Press, and New York University Press. Among others, his work has been funded by: the National Science Foundation, Bureau of Indian Affairs, Fish and Wildlife Service, Great Lakes Integrated Sciences and Assessments Center, and Mellon Foundation. He received the K. Patricia Cross Future Leaders Award from the Association of American Colleges and Universities in 2009 and the Bunyan Bryant Award for Academic Excellence from Detroiters Working for Environmental Justice in 2015.



MSU FOUNDATION PROFESSORS

Established in 2014 by the MSU Foundation, the title of MSU Foundation Professor is awarded to exceptionally accomplished faculty members, current and incoming, who are recommended for the honor by their deans. These talented researchers are leaders in their disciplines, advancing specific areas of scholarly need, disciplinary development, or research or creative emphasis at MSU. Awardees retain the title of MSU Foundation Professor for the duration of their service at MSU, and typically receive scholarly support for the first five years after receiving the award.



C H R I S T O P H B E N N I N G

MSU-DOE PLANT RESEARCH LABORATORY

Biochemistry and Molecular Biology
Plant Biology



CHRISTOPH BENNING, professor of biochemistry and molecular biology and director of the MSU-DOE Plant Research Laboratory, is one of the world's foremost experts in plant lipid metabolism.

Benning received his MS from Albert-Ludwigs Universitaet in Freiburg, Germany, and his PhD in genetics from Michigan State University. He came to MSU as an assistant professor in 1998 and was promoted to professor in 2005.

Benning has been working for more than 20 years on different aspects of lipid metabolism in photosynthetic organisms. Recently, he has applied genomic and genetic approaches to identify key regulatory factors and enzymes required for triacylglycerol biosynthesis and turnover in microalgae, and led a collaborative effort with colleagues from the Great Lakes Bioenergy Research Center that resulted in a significant early step toward producing better plants for biofuels. Benning also has extensive experience as a journal editor and is currently the editor-in-chief of *The Plant Journal*. He has received many honors throughout his career, including being named a fellow of the American Association for the Advancement of Science (AAAS) in 2014.



F E D E R I C A B R A N D I Z Z I

MSU-DOE PLANT RESEARCH LABORATORY

Plant Biology



FEDERICA BRANDIZZI, professor of plant biology with the MSU-DOE Plant Research Laboratory and lead scientist for the plants area of the Great Lakes Bioenergy Research Laboratory, has pioneered the implementation of advanced confocal microscopy for the study of plant organelles. Her research interests focus on the understanding of how plants produce materials of many kinds and how they handle stress on Earth and in space.

Brandizzi received a B.Sc. in biology and a PhD in cell and molecular biology from the University of Rome, Italy. Before being recruited to Michigan State in 2006, she was a Canada Research Chair at the University of Saskatchewan.

Brandizzi has published more than 120 peer-reviewed papers. She is actively engaged in the broader scientific community, serving as a permanent member of the Membrane Biology and Protein Processing Study Section at the National Institutes of Health, and is invested in many outreach activities to foster the education of pre-college students and teachers. Her many awards and honors include a BBSRC David Phillips Fellowship, the Bob B. Buchanan Endowed Lectureship, and the Clayton Pierson Lectureship.



C . R O B I N B U E L L

Plant Biology



C. ROBIN BUELL, professor of plant biology, is an expert in the genomic aspects of plant biology and plant pathogens and is working to speed the development and breeding of more productive, healthy, drought-tolerant, and disease-resistant food and bioenergy crops. Her recent work involves determining the genetic blueprint of medicinal plant species to enable the discovery of pharmaceuticals from plants.

Buell received her PhD from Utah State University. Prior to joining MSU in 2007, she spent nine years on the faculty at The Institute for Genomic Research in Maryland and two years at Louisiana State University.

Buell has published 180 papers on her work. She has an active research group and collaborates with scientists at MSU, across the United States and throughout the world. Buell is the recipient of numerous awards including the USDA Honor Award and MSU's William J. Beal Faculty Award, and is a fellow of both the American Association for the Advancement of Science and the American Society of Plant Biologists.



ANDREW JASON CHRISTLIEB

Computational Mathematics, Science and Engineering
Mathematics
Electrical and Computer Engineering



ANDREW JASON CHRISTLIEB, professor of mathematics, uses advanced mathematical and computational methods to solve problems in physics and engineering. He and MSU collaborators are currently working to establish a nationally recognized Plasma Enhanced Science program.

Christlieb received his PhD in mathematics from the University of Wisconsin. He held two postdoctoral positions, one in aerospace and a second in mathematics, at the University of Michigan before joining MSU in 2006. In 2010, he was promoted to associate professor and in 2014 to full professor. In 2015, he became the inaugural chair of the newly created MSU Department of Computational Science, Mathematics and Engineering.

Christlieb has an active research group, focusing on multi-scale modeling, high order numerical methods, and sub-linear lossy compression algorithms. He is currently working closely with several national labs on a variety of problems in plasma physics, including Los Alamos National Lab, Oakridge National Lab, Sandia National Lab, and AFRL Kirtland.



RACHEL T. A. CROSON

SOCIAL SCIENCE, DEAN

Economics



RACHEL T. A. CROSON, professor of economics, is also dean of the College of Social Science. Her research focuses on experimental and behavioral economics, investigating how people make a variety of economic decisions. Her research draws on and contributes to multiple disciplines, and has been published in academic journals in economics, business, political science, and sociology.

Dr. Croson earned her undergraduate degree from the University of Pennsylvania, with a double major in economics and philosophy, and a minor in political science. She earned her doctorate in economics from Harvard University.

Previously, she served as dean of the College of Business at the University of Texas at Arlington, professor and director of the Negotiations Center at the University of Texas at Dallas, and associate professor at the Wharton School of the University of Pennsylvania. Between 2010 and 2012 she served two years as the National Science Foundation's division director for Social and Economic Sciences. She has held a number of professional leadership roles, including serving on the board of the Committee on the Status of Women in the Economics Profession, where she was pivotal in developing and running mentoring workshops for female junior faculty.



MARCOS DANTUS

Chemistry
Physics and Astronomy



MARCOS DANTUS, University Distinguished Professor of chemistry and physics, has pioneered the use of spectrally and temporally shaped ultrafast pulses and has invented revolutionary laser optimization instruments.

Dantus, who joined MSU in 1993, received his doctorate from the California Institute of Technology in 1991 and worked with A. H. Zewail (1999 Nobel Prize in Chemistry recipient) on the development of Femtosecond Transition State Spectroscopy, now known as Femtochemistry. Dantus' development of an instrument capable of automated laser pulse compression is enabling research around the world as well as novel fiber laser designs.

At MSU, Dantus has published more than 200 scholarly articles and has been issued 25 patents. He is a member of the National Academy of Inventors, and a fellow of both the Optical Society of America and the Physics Society of America. He regularly collaborates with different branches of the U.S. Department of Defense, and has collaborations with Harvard, University of California, Irvine, and Case Western medical clinics.



DIMITAR D. DELIYSKI

Communicative Sciences and Disorders



DIMITAR D. DELIYSKI is a pioneer and international leader in the field of voice and speech disorders, and Chair of the Department of Communicative Sciences and Disorders.

A native of Bulgaria, Deliyski received his PhD in signal processing from the Bulgarian Academy of Sciences in Sofia, Bulgaria, in 1990. He completed a postdoctoral fellowship in communication sciences and disorders at the University of Memphis in 1990-1992. Deliyski has a master's and bachelor's degree in computer science from Sofia Technical University, also in Sofia, Bulgaria.

Prior to MSU, Deliyski served as the Cotton Chair of Otolaryngology Research at the Cincinnati Children's Hospital Medical Center and associate director of the Communication Sciences Research Center. He has also held academic appointments with the University of Cincinnati as a tenured associate professor in otolaryngology – head and neck surgery and affiliated associate professor in communication sciences and disorders, and he served as an adjunct professor with the Interdisciplinary Mathematics Institute at the University of South Carolina, Columbia. He has an extensive publication record and is an international leader in laryngeal imaging and vocal analysis research.



DEAN DELLAPENNA

Biochemistry and Molecular Biology



DEAN DELLAPENNA, University Distinguished Professor of biochemistry and molecular biology, is an exceptional plant physiologist who studies medicinal plant genomics, plant metabolism and vitamin synthesis. He is one of MSU's most visible ambassadors to the international plant science community and governmental and non-governmental agencies on the importance of basic plant research for increasing the nutritional value of plants for human health.

DellaPenna received his BS in cellular biology from Ohio University and his PhD in plant physiology from the University of California, Davis. Before coming to MSU in 2000, he was a faculty member at the University of Arizona's Plant Science Department and then the Biochemistry Department at the University of Nevada, Reno.

He is currently on the editorial board of the *Annual Review of Plant Biology* and is a fellow of the American Association for the Advancement of Science.



K E N N E T H A . F R A N K

Counseling, Educational Psychology, and
Special Education



KENNETH A. FRANK is a professor of measurement and quantitative methods, known for his expertise on social networks in educational settings. He joined the College of Education in January 1993, and has since become known as an innovative educator who draws on technological and pedagogical techniques to connect with his students.

Prior to MSU, Frank earned his BA in statistics and English and MA in higher and adult continuing education at the University of Michigan. He earned his PhD in measurement, evaluation and statistical analysis from the University of Chicago in 1993.

Frank's research encompasses a wide range of areas, including sociology, fisheries, ecology, and more. He has been published in numerous journals, and in the past five years alone, has been the principal investigator or co-principal investigator on almost \$13 million in external funding from the National Science Foundation, the William T. Grant foundation, and more.



G R E G G A . H O W E

MSU-DOE PLANT RESEARCH LABORATORY

Biochemistry and Molecular Biology



GREGG A. HOWE, University Distinguished Professor of biochemistry and molecular biology, and a researcher in the MSU-DOE Plant Research Laboratory, is an internationally recognized leader in research on plant hormone biology and how plants defend themselves in response to insects and other environmental stresses.

Howe received his BA and MS in biology from East Carolina University, and his PhD in biology from the University of California, Los Angeles. Prior to joining MSU in 1997, he was a postdoctoral fellow at both Washington State University and the National Institutes of Health.

Howe has served on the editorial board of *Plant Physiology* for the past decade. The contributions he has made to his field have been nationally recognized with such honors as his being named a fellow in the American Association for the Advancement of Science and a Thomson Reuters Highly Cited Researcher in 2014 and 2015.



JOEY WALTER HUSTON

Physics and Astronomy



JOEY WALTER HUSTON, professor of physics and astronomy, is an expert in experimental high energy physics and in high energy physics phenomenology, and plays an instrumental role in global parton distribution fits (PDFs), and in standard model and Higgs boson analyses in the ATLAS experiment at CERN. He is a member of the Higgs Cross Section Working Group and of the PDF4LHC Working Group at the Large Hadron Collider (LHC) in Geneva, Switzerland.

Huston received his BS in physics from Carnegie-Mellon University and his PhD in experimental high energy physics from the University of Rochester. He came to MSU in 1985 as a visiting assistant professor and formally joined the faculty in 1986. He is also a visiting professor at the Institute for Particle Physics Phenomenology at Durham University in the United Kingdom.

Huston has published more than 1,300 publications and is currently completing a book for Oxford University Press on quantum chromodynamics (QCD) at the LHC. He is a fellow of the American Physical Society and served six years as co-spokesperson of the Coordinated Theoretical Experimental Project on QCD Collaboration.



T H O M A S . J A Y N E

Agricultural, Food and Resource Economics



THOMAS S. JAYNE has devoted his career to working with African colleagues to respond to the region's major agricultural policy challenges. He brought this leadership to campus as co-director of the Alliance for African Partnership, a university-wide initiative at MSU to promote long-term partnerships with African research and capacity building organizations.

Jayne is a distinguished fellow of the African Association of Agricultural Economists. He has mentored dozens of young African professionals and played a major role in building MSU's partnerships with African agricultural policy research institutes. He has served as co-director of several grants from U.S. Agency for International Development, the Department for International Development and the Gates Foundation, focusing on building sustainable research capacity in Africa.

Over the past decade, he has received six distinguished research excellence awards from various professional and academic organizations, including the 2009 Outstanding Article Award in Agricultural Economics.



CHRISTOPHER A. KLAUSMEIER

W. K. KELLOGG BIOLOGICAL STATION

Plant Biology



CHRISTOPHER A. KLAUSMEIER, professor of plant biology and W.K. Kellogg Biological Station faculty member, is an expert in theoretical ecology, especially related to microbial and aquatic systems.

Klausmeier received his BS in mathematics from Harvey Mudd College, Claremont, Calif., and his PhD in ecology, evolution and behavior from the University of Minnesota, St. Paul. Before joining MSU in 2005, he was on the faculty in the Georgia Institute of Technology's School of Biology, a postdoctoral researcher at Princeton University, and a National Science Foundation (NSF) International Research Fellow at EAWAG in Switzerland.

Klausmeier has published more than 50 articles on his research. He has given many invited talks and regularly participates in international workshops and summer schools. Klausmeier is also an associate editor for *The American Naturalist*. His awards and honors include being the recipient of an NSF CAREER Award and an EU Marie Curie Incoming International Fellowship, which supported a sabbatical visit to the Danish Technical University in Copenhagen.



J A M E S F . K L A U S N E R

Mechanical Engineering



JAMES F. KLAUSNER, chair of the Department of Mechanical Engineering, conducts cutting-edge research in thermochemical energy storage, energy efficient manufacturing, and thermal management for energy efficient processes.

He earned both his MS and his PhD in mechanical engineering from the University of Illinois, Urbana-Champaign in 1989.

Prior to joining MSU in 2016, he was previously the Newton C. Ebaugh Professor of Mechanical and Aerospace Engineering at the University of Florida in Gainesville, and a program director at the Advanced Research Projects Agency-Energy. He has authored more than 100 technical publications in the thermal fluid sciences and holds eight patents or patent applications.



KELLY KLUMP

Psychology



KELLY KLUMP, MSU Foundation Professor of Psychology, is pioneering research that is changing our understanding about the causes of eating disorders. She has discovered that psychosocial and cultural risk factors that often peak in women during puberty do not alone cause these serious disorders as has been long believed. Genetics plays a significant role in the development of eating disorders, and her groundbreaking research is bringing us closer to understanding why these disorders occur and how biology may interact with cultural risk factors.

Klump is a licensed psychologist and earned her BS in psychology summa cum laude from MSU and her MA and PhD in clinical psychology from the University of Minnesota. She completed her predoctoral internship at McLean Hospital in the Harvard University Medical School, and her postdoctoral fellowship at Western Psychiatric Institute and Clinic in the University of Pittsburgh Medical Center.

Klump joined the Department of Psychology in 2000. She co-founded the Michigan State University Twin Registry, a population-based twin registry that includes over 25,000 twins. She has served as President of the Academy for Eating Disorders (AED). She is a Fellow of the AED and the Association for Psychological Science (APS). She currently serves as treasurer of the Behavior Genetics Association and as an advisory committee member for The Renfrew Center Clinical Excellence Board.



E L E N A L I T C H M A N

W. K. KELLOGG BIOLOGICAL STATION

Integrative Biology



ELENA LITCHMAN, professor of integrative biology and W.K. Kellogg Biological Station faculty member, is internationally recognized for her research on phytoplankton communities in both freshwater and marine environments.

Litchman received her Honors Diploma in biology from Moscow State University, Russia, and her PhD in ecology from the University of Minnesota, St. Paul. Prior to joining MSU in 2005, she was a research scientist in the Georgia Institute of Technology's School of Biology, a postdoctoral associate at Rutgers University, and a postdoctoral researcher at the Swiss Federal Institute for Environmental Science and Technology in Switzerland.

Litchman has published more than 60 peer-reviewed papers and is regularly invited to give talks at international conferences, workshops and symposia. Her many accolades include the Presidential Early Career Award for Scientists and Engineers (PECASE) and an NSF CAREER Award. Litchman currently serves on the advisory boards of WasserCluster Lunz Austria, and the Danish Center of Excellence "Life in a Changing Ocean," Denmark, and on the editorial board of the *Journal of Plankton Research*.



RICHARD E. LUCAS

Psychology



RICHARD E. LUCAS, professor of psychology, is known internationally for his research on happiness and subjective well-being, positive emotions, and the effects of life events on life satisfaction. His work in personality traits, extraversion, and personality assessment has been supported by the National Institute on Aging, among others, and has been published extensively in the top research journals in the field.

Lucas earned his bachelor's degree in psychology from Bowdoin College, followed by a master's and PhD in psychology from the University of Illinois.

Lucas joined the Department of Psychology in 2001. He serves as editor-in-chief of the *Journal of Research in Personality*. He has been an outspoken proponent of replication studies, conducting follow-up research that can increase the confidence in the results of an original study. Lucas is a core faculty member in MSU's Consortium for Multicultural Psychology Research. He serves on the editorial board of *Social and Personality Psychology Science* and as a consulting editor for the *Personality and Social Psychology Bulletin* and the *Journal of Happiness Studies*.



SHANNON D. MANNING

Microbiology and Molecular Genetics



SHANNON D. MANNING, associate professor of microbiology and molecular genetics, studies molecular epidemiology and the evolutionary genetics of infectious diseases caused by bacterial pathogens, namely *Escherichia coli* and *Streptococcus agalactiae*. Manning has made exceptional contributions to global health by advancing the understanding of the pathogens that threaten it and was part of the team that decoded the deadliest E. coli outbreak to date in 2011 in Germany.

Manning received a BS in biology, an MPH in hospital and molecular epidemiology and a PhD in molecular epidemiology, all from the University of Michigan. Before coming to MSU in 2004 as a postdoctoral student, she was awarded an emerging infectious diseases research fellowship through the Centers for Disease Control and Prevention. Manning joined the MSU faculty as an assistant professor in 2010.

Since 1998, she has contributed to more than 65 publications and book chapters. She currently serves as an ad hoc reviewer for the National Institutes of Health and a review editor for *Frontiers in Cellular and Infection Microbiology*.



BERONDA L. MONTGOMERY

MSU-DOE PLANT RESEARCH LABORATORY

Biochemistry and Molecular Biology
Microbiology and Molecular Genetics



BERONDA L. MONTGOMERY, professor of biochemistry and molecular biology and microbiology and molecular genetics, and a member of the MSU-DOE Plant Research Laboratory, is conducting pioneering research that seeks to understand dynamic molecular processes utilized by photosynthetic organisms for adapting to changes in their photoenvironment.

Montgomery received her PhD in plant biology from the University of California, Davis. Prior to joining MSU in 2004, she was an NSF Postdoctoral Research Fellowship recipient at Indiana University.

Montgomery has published 75 papers, reviews, and book chapters. She has received numerous honors and awards which include being named an NSF CAREER Award recipient, a fellow of the Committee on Institutional Cooperation Academic Leadership Program, and a Howard Hughes Medical Institute Professor Competition finalist. She is currently a reviewing editor for *Frontiers in Environmental Toxicology* and an editorial board member of the *Journal of Biological Chemistry*.



IOANNIS “JOHN” PAPAPOLYMEROU

Electrical and Computer Engineering



IOANNIS “JOHN” PAPAPOLYMEROU, chair of the Department of Electrical and Computer Engineering, conducts research focused on the development of microwave/mm-wave/submm-wave circuits, antennas, and modules for wireless communication, radar, and sensing systems.

A native of Greece, Papapolymerou earned a bachelor’s degree in electrical engineering from the National Technical University of Athens, Greece, before coming to the United States to pursue his master’s and PhD in electrical engineering at the University of Michigan.

Prior to arriving at MSU in 2015, he served as the Ken Byers Professor in the School of Electrical and Computer Engineering and associate director of the Georgia Electronic Design Center (GEDC) at Georgia Tech. He has published more than 350 refereed journal and conference publications and holds five U.S. patents.



B A R R Y R . P I T T E N D R I G H

Entomology



BARRY R. PITTENDRIGH is an entomologist whose work focuses on pest problems in cowpea, a legume crop that is an important source of protein for populations in developing countries. His work has resulted in developing methods of controlling pests in cowpea, biologically.

When presenting this solution to West African farmers, Pittendrigh encountered another problem. His efforts to provide information to farmers were stalled by the fact that many of the farmers spoke different languages. That problem led Pittendrigh and his colleagues to create Scientific Animations Without Borders (SAWBO), a program that produces animated 2D and 3D educational videos that people can watch on their cell phones. Video content is often scientific knowledge and the language narration can be changed for the user. Cell phone ownership is widespread in Africa and other parts of the developing world.

Prior to coming to MSU, Pittendrigh was the C.W. Kearns, C.L. Metcalf and W.P. Flint Endowed Chair in Insect Toxicology at the University of Illinois at Urbana-Champaign. There, his work on body louse led to sequencing the body louse genome. Since body louse need a symbiotic relationship with bacteria to survive, they spread disease in humans. By mapping the body louse genome, researchers can now look for ways to combat disease-spreading body louse.



X I A O B O T A N

Electrical and Computer Engineering



XIAOBO TAN, professor in the Department of Electrical and Computer Engineering and director of MSU's Smart Microsystems Laboratory, focuses his research on electroactive polymer sensors and actuators, modeling and control of smart materials, and bio-inspired underwater robots.

He earned his bachelor's and master's degrees in automatic control from Tsinghua University in Beijing, China, then went on to pursue a PhD in electrical and computer engineering at the University of Maryland. At Maryland, he served as a research associate with the Institute for Systems Research.

Tan joined MSU in 2004, where his work has earned support from the NSF, ONR, USGS, and the Great Lakes Fishery Commission, among others. He received the NSF CAREER Award in 2006, the MSU Teacher-Scholar Award in 2010, and multiple best paper awards. He has served on the organizing or program committees for a number of international conferences, including serving as the program chair for the 15th International Conference on Advanced Robotics, the finance chair for the 2015 American Control Conference, and the registration chair for the 2016 IEEE/ASME International Conference on Advanced Intelligent Mechatronics. To integrate his research with educational and outreach activities, Tan has served as director of an NSF-funded Research Experiences for Teachers (RET) Site program at MSU from 2009-2016 and was curator of a robotic fish exhibit at the MSU Museum in 2016.



M I C H A E L T H O M A S H O W

MSU-DOE PLANT RESEARCH LABORATORY

Plant, Soil and Microbial Sciences



MICHAEL THOMASHOW, University Distinguished Professor and founding director of the MSU Plant Resilience Institute, is world-renowned for identifying regulatory pathways controlling freezing tolerance in model and agriculturally important plants. He holds joint appointments in the Departments of Microbiology and Molecular Genetics, and Plant, Soil and Microbial Sciences.

Thomashow received his AB in bacteriology and his PhD in microbiology from UCLA. Prior to joining MSU in 1986, he was on the faculty in the Department of Microbiology at Washington State University and was a Damon Runyon-Walter Winchell Cancer Fund Research Fellow in Department of Microbiology and Immunology at the University of Washington, Seattle.

Thomashow has published more than 125 research articles on his work and is one of the most highly cited researchers in his field. His many honors and achievements include being elected to the U.S. National Academies of Science, being named a fellow of the American Academy of Microbiology, the American Society of Plant Biologists and the American Association for the Advancement of Science, and being named recipient of the American Society of Plant Biologists' Steven Hales Prize.



ALEXANDER “SASHA” L. VOLBERG

Mathematics



ALEXANDER “SASHA” L. VOLBERG, University Distinguished Professor of mathematics, specializes in harmonic analysis, singular integrals and operator theory and serves as the face of mathematics for MSU on a global scale. His 2014 paper in *Acta Mathematica* resolved the 30-year-old David-Semmes conjecture, concerning the possible structure of the singularity in the underlying measure of bounded Calderon-Zygmund operators.

Volberg, who joined MSU in 1991, received his MS from St. Petersburg University, Russia, and his PhD from Steklov Mathematical Institute, Russian Academy of Science.

Volberg has published more than 160 papers on his research. His many awards and honors include a Salem Prize, a Lars Onsager Medal for the Norwegian University of Science and Technology, and a Humboldt Foundation Professorship. Volberg was recently honored at an international conference in Bedlewo, Poland, that covered developments in the areas of analysis (notably, harmonic analysis, spectral theory of functions and operators, one-dimensional complex analysis, potential analysis, and their applications), in which Volberg has made substantial and recognized contributions over the past 25 years.



JOHN A. HANNAH DISTINGUISHED PROFESSORS

The John A. Hannah Distinguished Professorship was first announced in 1966, in honor of Dr. Hannah's 25th year as president of Michigan State University. Hannah was an ambitious, insightful, and caring leader, whose commitment to the true mission of a land-grant university brought MSU into worldwide prominence. John A. Hannah Distinguished Professors, much like Hannah himself, are educators who, through their research, scholarship, creative activity, and teaching, are helping to strengthen their disciplines, and strengthen MSU's ability to solve global problems.



C H E R Y L A . K E R F E L D

MSU-DOE PLANT RESEARCH LABORATORY

Biochemistry and Molecular Biology



CHERYL A. KERFELD, professor of structural bioengineering, is internationally recognized for her research on the structure-based characterization and engineering of photoprotection and the development of protein-based nanoreactors for diverse applications in synthetic biology. She holds joint appointments with the Department of Biochemistry and Molecular Biology and the MSU-DOE Plant Research Laboratory.

Kerfeld received her BA in biology and English literature and an MA in English literature from the University of Minnesota, and her PhD in structural biology from University of California, Los Angeles. Before joining MSU in 2013, she was on the faculty of UC, Berkeley Lawrence Berkeley Laboratory, during which time she established and led the Genomics and Bioinformatics Education Program at the U.S. Department of Energy Joint Genome Institute. Prior to that, she held appointments on UCLA's teaching and research faculties.

Kerfeld has published more than 115 research papers, many of which are landmarks in the field. Other notable achievements and honors include co-founding and serving as academic editor for the PLOS Biology Education Series (2010-2013) and recognition by the American Society of Biochemistry and Molecular Biology with its Award for Exemplary Contributions to Education in 2011.



EMILIO FEDERICO MORAN

Geography, Environment, and Spatial Sciences



EMILIO FEDERICO MORAN, professor of global change science, is a social anthropologist who has studied and published in the areas of tropical agriculture, social science, ecology, economics, and earth observations from satellites.

He earned a bachelor's degree in Spanish literature from Spring Hill College, followed by a master's degree in Latin American History from University of Florida. He pursued certificates in Latin American studies, economics, ecology, and tropical agriculture before earning his PhD in social anthropology from the University of Florida.

Before officially joining MSU's Department of Geography in 2013, he delivered the Rachel Carson Distinguished Lecture "Rethinking Human-Environment Interactions" and received an honorary degree from MSU. He was also named the university's 11th member of the National Academy of Sciences.



WITOLD NAZAREWICZ

FACILITY FOR RARE ISOTOPE BEAMS

Physics and Astronomy



WITOLD NAZAREWICZ, professor and FRIB chief scientist, is internationally renowned for his work in the field of theoretical nuclear physics.

Nazarewicz received his M. Sci. Engineer degree from the Warsaw University of Technology and his PhD in physics at the Institute for Nuclear Research, Poland. Prior to joining MSU in 2014, he was the James McConnell Distinguished Professor in the Department of Physics and Astronomy at the University of Tennessee, and corporate fellow at Oak Ridge National Laboratory.

He is the author of more than 400 refereed publications in scientific journals and is listed among the most highly-cited nuclear theorists. He has given more than 530 invited talks and presentations at major international conferences, seminars, and colloquia. Among his many accolades and accomplishments, Nazarewicz is a fellow of the American Physical Society, the U.K. Institute of Physics, and the American Association for the Advancement of Science, and presently serves on 13 professional committees and editorial boards.



ANGELA K. WILSON

Chemistry



ANGELA K. WILSON, professor of computational chemistry, is a globally prominent scholar in the fields of theoretical and computational chemistry.

Wilson received her BS in chemistry from Eastern Washington University and her PhD in chemical physics from the University of Minnesota. Prior to joining MSU in 2016, she was the Regent's Professor of Chemistry, director of the Center for Advanced Scientific Computing and Modeling, and associate vice provost for faculty at the University of North Texas. Presently, Wilson is also the division director of the National Science Foundation's Division of Chemistry.

Wilson's many awards and honors include being named a fellow of the American Chemical Society, the American Physical Society and the American Association for the Advancement of Science, a national associate of the National Academies, and the 2015 recipient of the Francis P. Garvan-John M. Olin Medal from the American Chemical Society, the nation's top award in chemistry designated for women chemists. She also serves as an editor of *Computational and Theoretical Chemistry*.



FELICIA WU

Food Science and Human Nutrition
Agricultural, Food, and Resource Economics



FELICIA WU, professor of food science and human nutrition and agricultural, food, and resource economics, also serves as Director of the Center for Health Impacts of Agriculture (CHIA). Her research includes foci on: the global burden of disease caused by foodborne mycotoxins, the cost-effectiveness of interventions to improve food safety in terms of human health benefits, the economic impacts of food safety regulations, and the benefits of transgenic Bt corn in terms of mycotoxin reduction.

Wu received her AB and SM in applied mathematics from Harvard University, and her PhD in engineering and public policy from Carnegie Mellon University.

Prior to joining MSU, Wu was an associate professor of environmental and occupational health at the University of Pittsburgh. She serves on the U.S. National Academy of Sciences, Committee on the Future of Animal Sciences Research, Joint Expert Committee on Food Additives of the FAO and WHO of the United Nations, the WHO Foodborne Disease Burden Epidemiology Reference Group, and the International Life Sciences Institute Food, Nutrition and Safety Program. She is the 2007 recipient of the Chauncey Starr Award, given annually by the Society for Risk Analysis to a risk analyst under age 40; and the 2011 recipient of the SCOPE-Zhongyu award (one of three worldwide) for environmental management research.



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Endowed Chairs are faculty members with significant experience and accomplishment in their fields, who in their careers have built a network of collaborators and a robust research portfolio. Private funding gives them the resources they need to further their work, publish their findings, travel to conferences, and even create opportunities for promising students to gain real-life research experience. The work they do helps MSU remain a competitive force among other universities and research institutions on a global scale.

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