

**Martha E. Pollack**

*Provost and Executive Vice President for Academic Affairs  
Professor, School of Information, Professor, Computer Science and Engineering,  
University of Michigan*

Martha Pollack has been Provost and Executive Vice President for Academic Affairs since 2013. Since joining the University of Michigan faculty in 2000, Pollack has also served as Vice Provost for Academic and Budgetary Affairs, Dean of the School of Information, and Associate Chair for Computer Science and Engineering in the Department of Electrical Engineering and Computer Science. Previously, she was a professor at the University of Pittsburgh and a member of the technical staff at SRI International. A Fellow of the American Association for the Advancement of Science (AAAS), the Association for Computing Machinery (ACM), and the Association for the Advancement of Artificial Intelligence (AAAI), Pollack has published widely on Artificial Intelligence topics including automated planning, natural-language processing, temporal reasoning, and constraint satisfaction. A particular focus has been the design of intelligent technology to assist people with cognitive impairment, a topic on which she testified before the United States Senate Subcommittee on Aging. Her research has been funded by the National Science Foundation, Intel, DARPA, and the Air Force Office of Scientific Research. In addition to numerous awards for her research, she has been honored for her professional service in recognition of efforts to increase the representation of and improve the climate for women and underrepresented minorities in science and engineering. She has served as the Editor-in-Chief of the Journal of Artificial Intelligence Research, as President of AAAI, as a member of the Advisory Committee for the National Science Foundation's Computer and Information Science and Engineering Division, and as a member of the Board of Directors of the Computing Research Association.

**Robert Sellers**

*Vice Provost for Equity, Inclusion, and Academic Affairs  
Charles D. Moody Collegiate Professor of Psychology and Education, University of Michigan*

Dr. Sellers works with the provost and executive vice president for academic affairs on matters related to diversity at the university as well as a broad range of academic issues including the budget, faculty tenure and promotions, and student enrollment. He oversees operations of five central administrative units.

A native of Cincinnati, Ohio, Dr. Sellers attended Howard University where he earned All-America honors in football and graduated cum laude with a B.S. in psychology in 1985. He completed a Ph.D. in personality psychology at the University of Michigan in 1990, and then joined the University of Virginia Department of Psychology. In 1997, Dr. Sellers returned to the UM; he served as Associate Chair, and then from 2011-2014 as chair of the Department of Psychology.

His research has focused on the role of race in the psychological lives of African Americans, developing with his students a conceptual and empirical model of African American racial identity. The model has been used to understand the heterogeneity in the significance and meaning that African Americans place on race in defining themselves. Dr. Sellers and his students have also investigated the processes by which African American parents transmit messages about race to their children. Finally, his research has examined the ways in which African Americans suffer from and often cope with experiences of racial discrimination. Over the years, he and his graduate students have published extensively on the topic. Dr. Sellers also has frequently published research examining the life experiences of student-athletes. He is also a founder of the Center for the Study of Black Youth in Context, which conducts state-of-the-art, action-oriented research on the healthy development of African American youth and provides an important training ground for future researchers.

Dr. Sellers has received significant recognition for his research and teaching. He is a past President of the Society for the Psychological Study of Ethnic Minority Issues, a fellow of the American Psychological Association as well as a fellow of the Association for Psychological Science. He also won numerous honors and awards.



### **Andrew S. Martin**

*Dean, College of Literature, Science and the Arts  
Professor of Political Science, University of Michigan*

Dean Martin's expertise is in the study of judicial decisionmaking, with special emphasis on the U.S. Supreme Court and the lower federal courts. He also works extensively in the field of political methodology and applied statistics. He has published in leading social science and applied statistics journals, including the *American Political Science Review*, the *American Journal of Political Science*, *Political Analysis*, the *Journal of Legal Studies*, and *Statistical Science*. Dean Martin is a frequent presenter at conferences and workshops throughout the country. His research has been supported by the National Science Foundation, the MacArthur Foundation, and the National Institutes of Health, serving as principal investigator on eight grants from the National Science Foundation. Dean Martin was elected as a Fellow of the Society for Political Methodology in 2012, and received the Distinguished Faculty Award from the Alumni Board of Governors of Washington University in 2013.

Dean Martin joined the University of Michigan in 2014. He was previously Charles Nagel Chair of Constitutional Law and Political Science at the Washington University School of Law, and served as Vice Dean of the School of Law, Founding Director of the Center for Empirical Research in the Law, and Chair of the Department of Political Science in Arts & Sciences.

He teaches courses in judicial decisionmaking and political methodology at both the undergraduate and graduate levels. He has mentored nearly twenty doctoral students, and received the Outstanding Faculty Mentor Award in 2011 from the Graduate School of Arts & Sciences at Washington University. He also regularly offers workshops on social science research methods for judges, prosecutors, and legal academics.

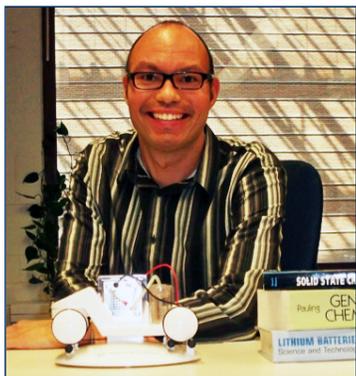
Dean Martin received his A.B. from the College of William & Mary cum laude and with high Honors in Mathematics and Government in 1994, and his Ph.D. in Political Science from Washington University in 1998. He lives with his wife and daughter in Ann Arbor, Michigan, and Sandpoint, Idaho.



### **Myron Campbell**

*Associate Dean for Natural Sciences, College of Literature, Science, and the Arts  
Professor of Physics, University of Michigan*

Coming to the end of his term as Associate Dean, Campbell is a former chair of the Department of Physics. His research activities are in the area of high energy hadron collisions. He is currently working on a kaon rare decay experiment KOTO at JPARC in Japan. He has been involved in the CDF (Collider Detector at Fermilab) experiment. His efforts in these collaborations have been in the area of triggering, i.e. identifying events of interest. His analysis efforts are directed towards studies of top production and decay systematic and precision tests of the standard model. Among his accomplishments, he is A.P. Sloan Fellow and Fellow of the American Physics Society. Campbell earned his B.A. at Otterbein College, and Ph.D. at Yale.

**Bart Bartlett**

*Seyhan N. Ege Associate Professor of Chemistry, University of Michigan*

Bart Bartlett directs fundamental research on compounds that will be needed to address challenges of finding clean, renewable energy. A native of St. Louis, MO, Bartlett is a former American Chemical Society Scholar who worked with Professor William E. Buhro as an undergraduate at Washington University in St. Louis (A.B. 2000). He was an NSF Graduate Research Fellow with Professor Daniel G. Nocera at the Massachusetts Institute of Technology (Ph.D 2005), and a UC President's Postdoctoral Fellow with Professor Jeffrey R. Long at the University of California, Berkeley. He began his independent career in inorganic and materials chemistry in July 2008 and was promoted in May 2014. At present, he mentors a talented group of 5 graduate students, a postdoc, and 2 undergraduates. He teaches general chemistry, inorganic chemistry at both the undergraduate and graduate levels, and graduate-level materials chemistry. He has served as the Associate Director for Science and Technology at the University of Michigan Energy Institute since January 2014.

**Edwin Bergin**

*Professor of Astronomy, University of Michigan*

Edwin Bergin's research focuses on the molecular trail of our origins. This involves theoretical and observational studies of molecules such as water and organics during each stage of the birth of stars and planets. At Michigan, Professor Bergin is a member of the STRIDE (Strategies and Tactics for Recruiting to Improve Diversity and Excellence) committee. In the Astronomy Department, he has served as the undergraduate coordinator and will begin a term as the department chair in the coming year.

**Ruth Blake**

*Professor of Geology and Geophysics, Yale University*

Ruth Blake's areas of expertise include marine biogeochemistry, stable isotope geochemistry and geomicrobiology. Her recent work focuses on developing new stable isotope tools, geochemical proxies and biomarkers to study marine/microbial phosphorus cycling and evolution of the phosphorus cycle from pre-biotic to recent. Dr. Blake is engaged in a range of studies on co-evolution of earth and life and the impacts of both on biogeochemical processes occurring in the oceans, deep-sea sediments, seafloor hydrothermal systems and the sub-seafloor deep biosphere. She is involved in ocean exploration and educational outreach with Ocean Exploration Trust as a member of the science advisory board for *E/V Nautilus*, ([nautiluslive.org](http://nautiluslive.org)). She sailed as the lead scientist onboard the *E/V Nautilus* during the 2014 field season on the Windward Passage leg between Cuba and Haiti and along the Jamaica channel. Dr. Blake holds a B.S. degree in geology from Wayne State University, MS degree in hydrogeology from the University of Texas. She earned her Ph.D. in geochemistry from the University of Michigan in 1998.



### **Rosario Ceballo**

*Professor of Psychology and Women's Studies, University of Michigan*

Rosario Ceballo investigates how contextual aspects of poverty, such as residence in dangerous neighborhoods and community violence exposure, influence families and children's development. She is particularly interested in how parenting and family processes may buffer the negative effects of poverty on adolescents' psychological well-being and academic functioning. Using quantitative and qualitative methods, her recent work relies on within-group samples to examine the presence of protective factors among impoverished, Latino families. A second research focus is the experience of infertility among racial minority women and examines the ways in which women cope with the trauma of infertility and with race- and class-based stereotypes about female reproduction. She earned her Ph.D. in Clinical and Developmental Psychology and certificate in Women's Studies from the University of Michigan in 1996.



### **Tabbye Chavous**

*Associate Dean for Academic Programs and Initiatives, Rackham School of Graduate Studies  
Professor in the School of Education, and Professor of Psychology, College of Literature, Sciences,  
and the Arts University of Michigan*

Tabbye Chavous conducts research in social identity development among ethnic minority adolescents and young adults. She is founder and co-director of the university's Center for the Study of Black Youth in Context, an National Science Foundation-funded center for research, professional training, and community outreach/engagement related to promoting positive development among diverse populations of Black youth and families. Dr. Chavous was awarded a NSF grant to examine academic identity development processes among ethnic minority men and women pursuing academic and career pathways in science, technology, engineering, and mathematics fields.

Dr. Chavous has been recognized for her efforts and contributions toward the development of a culturally and ethnically diverse campus community. As Associate Dean, Dr. Chavous serves as the primary liaison between the Graduate School and academic units in the social sciences. She also serves as faculty in the Combined Program in Education and Psychology, a Rackham interdepartmental doctoral program. Dr. Chavous She earned her Ph.D. in Community Psychology from the University of Virginia in 1998, and then joined the UM faculty, rising through the ranks to professor in 2012. She served as a chair of the Combined Program in Education and Psychology from 2005-2012.



### **Mark A. Chesler**

*Professor Emeritus of Sociology, College of Literature, Science and the Arts, University of Michigan*

Mark A. Chesler is Professor Emeritus of Sociology and faculty in the Program in Intergroup Relations at the University of Michigan, and Executive Director of Community Resources Ltd., in Ann Arbor, Michigan. He is an activist scholar conducting research, teaching, consulting, and organizing on issues of social justice and personal/organizational change around race and gender equity and of the psychosocial impact of childhood cancer. His work focuses on these issues in the contexts of: (1) challenging racism/sexism and implementing multiculturalism via organizational change projects and training/workshop designs in higher educational as well as corporate and community systems; (2) examining the ways in which entitlement/privilege and historic oppression are acted out in pedagogies and developing engaged and interactive pedagogies more suited to diverse students communities; (3) the experience of teens, young adults and families surviving childhood cancer and the role of citizen initiative and empowerment in creating and sustaining voluntary and non-profit groups, especially with regard to issues of patient/citizen empowerment and the improvement of medical and social services. Mark's teaching duties have included the innovation of Community Service Learning projects, leadership in the University of Michigan's Program on Intergroup Dialogues, and courses and workshops on Qualitative Research Methods and Participatory Action Research. He is the author and or editor of 8 books and over 200 articles, chapters, reports. He frequently speaks to professional and public audiences.



## Elizabeth Cole

*Professor of Women's Studies, Psychology, and Afroamerican & African Studies  
Associate Dean of Social Sciences, College of Literature, Science and the Arts, University of Michigan*

Elizabeth Cole's research, at the intersection of psychology and women's studies, works to understand the social construction of categories like gender, race, and social class through a combination of theoretical and empirical work employing both qualitative and quantitative methods. Current projects in her research group focus on 1) diverse women's perceptions of femininity, their bodies and sexuality; and 2) the use of essentialist rhetoric to justify discrimination against both racial and sexual minorities in public debates over marriage law. Formerly the Chair of the Women's Studies Department, she led the department in successful searches for new women professors, guided junior colleagues, and executed a well regarded celebration of the 40th anniversary of Women's Studies at Michigan. She was

honored with a 2013 Sarah Goddard Power Award, a UM award for her research on women and her leadership in support of diversity. She earned her Ph.D. Psychology (Personality) from the University of Michigan.

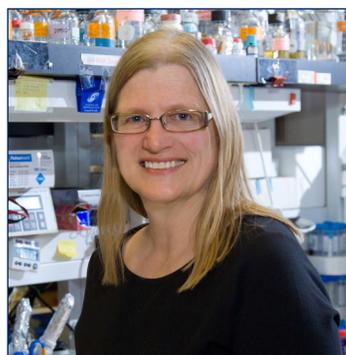


## Robert Denver

*Professor and Chair, Department of Molecular, Cellular, and Developmental Biology  
Professor of Ecology and Evolutionary Biology, University of Michigan*

Robert Denver is a developmental neuroendocrinologist. His research focuses on the molecular biology of thyroid and steroid hormone action in the developing brain, and how hormones mediate environmental effects on animal development. He uses amphibian and mouse models for his research. He was co-founder and first president of the North American Society for Comparative Endocrinology, and he currently serves as president of the International Federation of Comparative Endocrine Societies. Professor Denver joined the UM faculty in 1994 after a postdoctoral fellowship at the National Institutes of Health. He earned his B.S. at Rutgers University in 1984 and the Ph.D. in 1989 from the University of

California at Berkeley. He began his term as chair of Molecular, Cellular, and Developmental Biology in July, 2014, having served as Associate Chair for Research and Facilities as preparations were being made for the new Biological Sciences Building now under construction.



## Carol Fierke

*Jerome and Isabella Karle Distinguished University Professor  
Professor, Biological Chemistry, Medical School  
Dean-elect, Rackham Graduate School, University of Michigan*

Professor Fierke is an authority on enzyme structure-mechanism relationships and on the mechanisms of metal homeostasis in cells. Her lab is focusing on understanding the catalytic mechanism, specificity and biological functions of enzymes that catalyze posttranslational modifications, including protein farnesyltransferase and histone deacetylase. Her lab is unraveling the mechanisms of tRNA processing in bacteria and mitochondria. Also, the lab investigates zinc homeostasis in bacteria and eukaryotic cells and is exploring metal switching as a novel regulatory mechanism. She has published more than 220 articles and been funded by NIH, NSF, and the Office of Naval Research, among others. Professor Fierke joined the

UM faculty in 1999 from Duke University. In 2003 she was named the Jerome and Isabella Karle Collegiate Professor of Chemistry, and a Distinguished University Professor in 2013. After a decade as Chair of the Chemistry Department, Professor Fierke will become dean of the Horace H. Rackham School of Graduate Studies and vice provost for academic affairs-graduate studies on Sept. 1, 2015. She has been active in the NSF-funded ADVANCE project, including serving as a member of the STRIDE committee. She has received recognition for her research, her mentorship and commitment to diversity, and her leadership in the field. She earned her B.A. at Carleton College (1978) and her doctorate in biochemistry from Brandeis University (1984). She completed a NIH-sponsored postdoctoral fellowship at the Pennsylvania State University (1984-1987).



### Daniel Fisher

*Claude W. Hibbard Collegiate Professor of Paleontology  
Director of the Museum of Paleontology, University of Michigan*

Shortly after arriving in Michigan, Daniel C. Fisher was called to several sites where remains of mastodons had been discovered. Evidence at these sites suggested that humans had processed carcasses to remove meat and other materials, and thus began his long-term interest in whether human activity contributed to the late Ice Age extinction of mastodons and mammoths. Dr. Fisher's recent studies of this problem focus on using data on the structure and composition of mastodon and mammoth tusks to reconstruct aspects of their behavior, growth history, nutritional status, reproductive biology, and response to environmental conditions. While still engaged in work on North American material, he has expanded his research to include woolly mammoths in northern Siberia. This arctic perspective, involving spectacular specimens recovered from the permafrost, is adding new insights to our understanding of proboscidean paleobiology, climate change, and the late Ice Age extinction. Dr. Fisher completed undergraduate and graduate work in Geological Sciences at Harvard University (PhD, 1975) and joined the faculty in Geological Sciences at the University of Rochester. In 1979, he moved to the University of Michigan's Department of Geological Sciences and Museum of Paleontology.



### Elena Gallo

*Assistant Professor, Astronomy, University of Michigan.*

Elena Gallo is working to shed light on the nature of low-luminosity, supermassive black holes in the nearby universe. Using a comprehensive sample of some 200 galaxies from the AMUSE surveys, she plans to fill in much-needed information on their role in galaxy evolution. By looking at black holes with a range of masses, luminosities, and colors in a variety of settings (dense clusters vs. field galaxies), she is hoping to address a number of fundamental questions: What is the luminosity distribution of black holes in nearby galaxies? How do they evolve from high- to low-luminosity? What proportion and types of galaxies have them? How are they affected by galaxy mergers? How do they affect their surroundings? This work complements her ongoing research on jets from nearby stellar-mass black holes. She earned her Ph.D. in Astronomy in 2005 from the University of Amsterdam, The Netherlands, and her B. S. (cum laude) in Physics in 2001 from the Università degli Studi di Milano, Italy. She joined the UM astronomy department in 2010. She was a Hubble Postdoctoral Fellow, Massachusetts Institute of Technology, Kavli Institute for Astrophysics and Space Research, and a Chandra Postdoctoral Fellow, University of California, Santa Barbara.



### Theodore Goodson, III

*Richard Barry Bernstein Collegiate Professor of Chemistry, LSA and  
Professor of Macromolecular Science and Engineering, College of Engineering, University of Michigan*

Dr. Goodson's research centers on the investigation of nonlinear optical and energy transfer in organic multi-chromophore systems for particular optical and electronic applications. His research has been translated in to technology in the areas of two-photon organic materials for eye and sensor protection, large dielectric and energy storage effects in organic macromolecular materials, and the detection of energetic (explosive) devices by nonlinear optical methods. Dr. Goodson has published over 130 scientific publications and more than 180 invited talks Dr.

Goodson has been awarded numerous awards including the Distinguished University Faculty Award, the National Science Foundation American Innovation Fellowship, Research Young Investigator Award, The Percy Julian Award, National Science Foundation CAREER Award, Alfred P. Sloan Research Fellowship, Camille Dreyfus Teacher-Scholar Award, Lloyd Ferguson Young Scientist Award, Burroughs Welcome Fund Award. He is a Fellow of the AAAS and of the American Chemical Society. Dr. Goodson has been a Senior Editor for The Journal of Physical Chemistry since 2007.



## **Rigoberto Hernandez**

*Professor of Chemistry and Biochemistry, Georgia Institute of Technology*

Dr. Hernandez is a Co-Director of the Center for Computational Molecular Science and Technology and the Director of the Open Chemistry Collaborative in Diversity Equity (OXIDE). He holds a B.S.E. in Chemical Engineering and Mathematics from Princeton University (1989), and a Ph.D. in Chemistry from the University of California, Berkeley (1993). (Hernandez was born in Güinez, Havana, Cuba but was raised and educated in the United States of America since he was in primary school. He is a U.S. citizen by birthright.)

Dr. Hernandez is the recipient of a National Science Foundation (NSF) CAREER Award (1997), Research Corporation Cottrell Scholar Award (1999), the Alfred P. Sloan Fellow Award (2000), a Humboldt Research Fellowship (2006-07), the ACS Award for Encouraging

Disadvantaged Students into Careers in the Chemical Sciences (2014), and the CCR Diversity Award (2015). He is a Fellow of the American Association for the Advancement of Science (AAAS, 2004), the American Chemical Society (ACS, 2010), and the American Physical Society (APS, 2011). At Georgia Tech, he has served as the first Blanchard Assistant Professor of Chemistry (1999-2001), the first Goizueta Foundation Junior Rotating Faculty Chair (2002-07) and a Vasser Woolley Faculty Fellow (2011-13). His recent board memberships include the National Academies Panel within the Army Research Laboratory Technical Assessment Board (2005-2011), the National Academies Board on Chemical Sciences and Technology (2007-2010), the Telluride Summer Research Conference Board of Directors (2007-09), the NIH Study Section on Molecular Structure and Function B (MSFB, 2009-2013), the Research Corporation Cottrell Scholars Advisory Committee (2011-16), the DOE Committee of Visitors (Division of Chemical Sciences, Geosciences and Bio-sciences, 2014) and the American Chemical Society Board of Directors (2014-2016).

Dr. Hernandez's research programs are currently funded by the NSF, AFOSR and Kimberly Clark Corporation. The OXIDE effort is cofunded by the NSF, DOE and NIH.

Dr. Hernandez's research area can be broadly classified as the theoretical and computational chemistry of systems far from equilibrium. This includes a focus on microscopic reaction dynamics and their effects on macroscopic chemical reaction rates in arbitrary solvent environments. His current projects involve questions pertaining to the diffusion of mesogens in colloidal suspensions and liquid crystals, the structure and dynamics of assemblies of Janus and other patchy particles, fundamental advances in transition state theory, the role of molecular reactions in nonequilibrium air and the dynamics of protein folding and rearrangement.



## **Mary James**

*A.A. Knowlton Professor of Physics and Dean for Institutional Diversity, Reed College*

Mary James' principal areas of physics research have been in accelerator physics and astrophysics. As part of her duties as Dean, Professor James oversees Reed's new Center for Teaching and Learning that supports faculty at all career stages as they develop new curriculum and pedagogical initiatives. Among the goals of the Center is to encourage faculty to investigate and integrate best practices in their disciplines to attract and retain women, first generation students, and students of color in the STEM majors at Reed. Professor James has also served on and chaired the Committee on Minorities for the American Physical Society. The committee's work focuses on helping Physics Departments create strong mentoring programs and support-

ive department climates, particularly for women and students from racial and ethnic groups under-represented in physics. James received her B.A. in physics from Hampshire College and her Ph.D. in applied physics from Stanford University. She received her B.S. in Chemical Engineering from the University of Rochester and her M.S.E. and Ph.D. in Chemical and Biochemical Engineering from the University of Pennsylvania and did postdoctoral work at the University of Massachusetts. Her research interests include mathematical/computational modeling in immunology, cancer, and tissue engineering.



### **Rebecca Lange**

*Professor, Earth and Environmental Studies, University of Michigan*

Rebecca Lange's research is focused on how magmatism and volcanism has shaped the geochemical evolution of the solid Earth. She is particularly interested in the origin and evolution of continental crust at subduction zones, and in applying thermodynamics to magmatic systems to extract information about pre-eruptive water contents, temperatures and ascent rates. Her research group is involved in systematic measurements of various thermodynamic properties of magmatic melts, including density and compressibility. Lange obtained her Ph.D. from the University of California at Berkeley in 1989 and spent two post-doctoral years at Princeton University. She joined the faculty at the University of Michigan in 1991. She served as chair of her department from 2010-2014.

She is a Fellow of the Mineralogical Society of America and the Geochemical Society; other honors include the Clarke Award and Ingerson Lecturer. She has served on various federal scientific review panels and also on numerous committees for various professional societies. For example, she is currently Vice President (President-Elect) for the Mineralogical Society of America and served on its council from 2003-2006. She was Treasurer for the Geochemical Society from 2000-2005. She is a member of the Geological Society of America and the American Geophysical Union. She has served on the editorial board of both *American Mineralogist* and the *Journal of Geophysical Research-Solid Earth*.



### **Nicolai Lehnert**

*Associate Professor of Chemistry and Biophysics, University of Michigan*

Nicolai Lehnert investigates the biological role of nitric oxide (bioinorganic chemistry and biophysics), the development of homogeneous catalysts for the generation of the sustainable energy carrier hydrogen (organometallic chemistry and energy sciences), and porphyrin-based materials for non-linear optics. Dr. Lehnert earned his a PhD in Chemistry from the University Mainz, Germany, and was a postdoctoral fellow at Stanford. In 2006, he joined the University of Michigan faculty. He was promoted to associate professor in 2012. In 2009, he received an NSF Career Award. Other awards include a Japan Society for the Promotion of Science Invitation Fellowship(2008), Dow Corning Assistant Professor of Chemistry (2007), and 3M Nontenured Faculty Grant (2011). In 2014, the College of Literature, Science, and the Arts recognized him with the LSA Award for Outstanding Contributions to Undergraduate Education.



### **Stephen Maldonado**

*Associate Professor of Chemistry and Applied Physics, University of Michigan*

Stephen Maldonado oversees an interdisciplinary research group working in the field of semiconductor electrochemistry. The research spans artificial photosynthesis, surface science, and crystal growth. An emphasis of the work is to develop new, greener synthetic pathways for chemicals and materials. he received a PhD in Chemistry from the University of Texas at Austin and was a postdoctoral fellow at CalTech. In 2008, Professor Maldonado joined the University of Michigan faculty in the chemistry department. As an independent researcher, he has received an NSF CAREER Award in 2010, was named a Sloan Research Fellow and a Camille Dreyfus Teacher-Scholar in 2013, highlighted with the Young Investigator award by the Society of Electroanalytical Chemistry in 2014, and was recognized with a State of Michigan Governor's Award in Green Chemistry in 2013.



## **Karin A. Martin**

*Professor of Sociology and Women's Studies  
Associate Director for LSA of the ADVANCE Program, University of Michigan*

Karin Martin focuses her research on gender and sexuality as well as childhood and child care and includes a book and multiple articles appearing in the American Sociological Review, Gender & Society, Journal of Family Issues, Child Abuse & Neglect among others. She has received numerous awards for her teaching and mentoring, including the Rackham Distinguished Graduate Mentor Award. Professor Martin earned her M.A. and Ph.D. in sociology from the University of California at Berkeley.

## **Timothy McKay**

*Arthur F. Thurnau Professor of Physics, Astronomy, and Education  
Director of the Honors Program for the  
College of Literature, Science, and the Arts, University of Michigan*

Timothy McKay is a data scientist, with extensive and various experience drawing inference from large data sets. In astrophysics, his main research tools have been the Sloan Digital Sky Survey, the Dark Energy Survey, and the simulations which support them both. In education, he works to understand and improve postsecondary student outcomes using the rich, extensive, and complex digital data produced in the course of educating students today. In this role, he leads the Provost's Learning Analytics Task Force and is the PI of the Digital Innovation Greenhouse. McKay is also an academic administrator, leading the 1800 student Honors Program in the UM College of Literature Science and the Arts since 2008. During this time, he has worked with donors to create and endow the Honors Summer Fellows program, an interdisciplinary summer research program for students working to complete senior thesis projects in the Humanities, Social Sciences, and Natural Sciences. McKay also helped design and launch the UM Honors Core Curriculum, an array of 12 extradisciplinary courses especially designed for first and second year Honors students.



## **Ann Miller**

*Assistant Professor, Molecular, Cellular, and Developmental Biology,  
University of Michigan*

The Miller Lab investigates the molecular mechanisms by which Rho small GTPases regulate cytokinesis in the context of the intact epithelium using *Xenopus laevis* embryos as a model system. They use approaches from cell biology, molecular biology, and biochemistry, with an emphasis on live cell imaging. Ann grew up in South Dakota. She attended Gustavus Adolphus College in St. Peter, MN where she earned a B.A. in Biochemistry. She then completed her Ph.D. in Biochemistry at Yale University in Dr. Anthony Koleske's Lab and her Postdoctoral Fellowship in Cell Biology at the

University of Wisconsin-Madison in Dr. Bill Bement's Lab. Her postdoctoral work was funded by fellowships from the American Cancer Society and the Helen Hay Whitney Foundation and a K99/R00 Pathway to Independence Grant. Ann started her own lab at the University of Michigan in 2011. She enjoys thinking and writing about the research in her lab, mentoring postdocs, grad students, and undergrads in the lab, teaching about cell biology and the cytoskeleton in the classroom, and doing outreach events to help young students get excited about biology. When she's not doing science, Ann Miller enjoys spending time with her husband, Dave who is a physical therapist, and their 6 year-old daughter, Grace, and 1 year-old son, Micah.



### **Jens-Christian Meiners**

*Professor of Physics and Biophysics, Director of LSA Biophysics, University of Michigan*

Jens-Christian Meiners aims to understand how the topology of a DNA molecule affects the dynamics of the molecule, its interaction with other molecules like regulatory proteins, and ultimately its biological functions. His group is using laser-trapping techniques to directly manipulate a single DNA molecule and study its dynamics, in particular, a novel optical-tweezer based force measurement technique - femtonewton force spectroscopy. Combining these optical methods with modern micro fabrication techniques, such as micro fluidic chips made of silicon elastomers will greatly enhance our capabilities to study a wide range of DNA-protein interactions and shed more light on fundamental biological processes. Meiners received a M.S. from the University of Delaware in 1994, and earned his PhD from the Universitat Konstanz, Germany Ph.D. in 1997. He has been director of Biophisc since 2008.



### **Vijayan Nair**

*Donald A. Darling Professor of Statistics and Professor of Industrial & Operations Engineering  
University of Michigan*

Before joining the University of Michigan in 1993, Vijayan Nair spent 15 years as a Research Scientist at Bell Laboratories in New Jersey. He has broad research interests covering statistical methodology and applications in statistical engineering, reliability and risk analysis, design and analysis of experiments. He served as Chair of the Department of Statistics for 12 years and is currently the President of the International Statistical Institute.



### **Diarmaid Ó Foighil**

*Professor and Chair, Department of Ecology and Evolutionary Biology, University of Michigan*

Diarmaid Ó Foighil targets primary questions in the overlapping disciplines of evolution, systematics and biogeography using exemplar molluscan taxa— Mollusca being enormously diverse, with an excellent fossil record, and playing central roles in almost all of the earth's ecosystems. He has research projects on marine, terrestrial and freshwater taxa. Professor Ó Foighil obtained a B.Sc. (hons) in Zoology from NUI Galway (Ireland) in 1981 and a Ph.D. in biology from the University of Victoria (Canada) in 1987. He was a postdoctoral fellow at the Friday Harbor Laboratories (University of Washington); Simon Fraser University (Vancouver, B.C.); and a research scientist at the University of South Carolina prior to joining the faculty at the University of Michigan in 1995. Formerly the Director of the Museum of Zoology, he became the chair of the Department of Ecology and Evolutionary Biology in 2014. He has served as the president of the American Malacological Society and on the editorial boards of *Evolution* and *Malacologia*.



## Jennifer Ogilvie

*Associate Professor of Physics, University of Michigan*

Jennifer Ogilvie studies the dynamics of biological systems over a diverse range of time and length-scales using the combined tools of nonlinear spectroscopy and microscopy. A particular focus of her work aims to understand the ultrafast processes of energy transfer and charge separation in photosynthetic systems. She received her B.Sc. in Applied Physics at the University of Waterloo, her M.Sc. in Physics at Simon Fraser University and her Ph.D. in Physics at the University of Toronto. She was a postdoctoral fellow at the Ecole Polytechnique, France. She is the recipient of an Alfred P. Sloan Fellowship and the NSF CAREER award.



## Baldomero Olivera

*Distinguished Professor of Biology, University of Utah*

Baldomero (“Toto”) Olivera grew up in the Philippines. His early research contributions include the discovery and biochemical characterization of E. coli DNA ligase, an important enzyme of DNA replication and repair that has become a keystone of recombinant DNA technology. Toto Olivera initiated the characterization of predatory cone snail venoms. A large number of peptide neurotoxins (“conotoxins”) are present in each venom, and their characterization led Olivera’s research group to molecular neuroscience. Several peptides discovered in Olivera’s laboratory reached human clinical trials and one (Prialt) has been approved for the treatment of intractable pain.

He has been elected a member of the American Philosophical Society, the U.S. National Academy of Science, and the Institute of Medicine. He was given the Outstanding Alumni Award of Caltech, the Redi Award from the International Society for Toxinology and the Harvard Foundation Scientist of the Year 2007 Award. When he first arrived in Utah, he organized the Biochemistry/Molecular Biology Core curriculum for undergraduates. As Founding Director, he organized the University of Utah Interdepartmental Neuroscience Program. He is presently focused on establishing academic and research programs that link Neuroscience to Chemical Biology, and on disseminating his science education outreach program to K-12 students.



## Laura Olsen

*Arthur F Thurnau Professor*

*Academic Program Director, Undergraduate Program in Biology*

*Professor of Molecular, Cellular, and Developmental Biology*

*Professor of Ecology and Evolutionary Biology, University of Michigan*

Research in the Olsen lab focuses on peroxisome biogenesis and degradation. More specifically, the group studies peroxisome assembly, peroxisome proteomics, and peroxisomal proteases in plants. Professor Olsen earned her Ph.D. degree in Botany from the University of Wisconsin at Madison and was an NIH Postdoctoral Fellow at the University of California, Davis.

Her Master’s degree in Botany is from Iowa State University. She did her bachelor’s degree at Doane College in Crete, NE, where she had a double major in math and biology, and a minor in German. Since being at the University of Michigan, she was awarded the Class of 1923 Memorial Teaching Award in 1996, the Amoco Foundation Undergraduate Teaching Award in 2000, the John Dewey Teaching Award in 2011, and has been an Arthur F. Thurnau Professor since 2001.



### **Bradford Orr**

*Professor and Chair of Physics, University of Michigan.*

Bradley Orr conducts research on nanoparticles and their interactions with biological structures, such as cell membranes. Most recently he has examined the statistical properties of polymer nanoparticles and their drug conjugates. Professor Orr completed his Ph.D. and B.S. degrees in Physics at the University of Minnesota. He then went to IBM Thomas J. Watson Research Center as a postdoctoral researcher. In 1987 he joined the University of Michigan. He has published over 120 papers. Professor Orr has received a number of awards including an Arthur F. Thurnau Professorship, Provost Teaching Innovation Prize, Harold R. Johnson Diversity Service Award, NSF Presidential Young Investigator Award and Alfred P. Sloan Research Fellowship. He is a fellow of the American Physical Society.



### **Annette Ostling**

*Associate Professor, Ecology and Evolutionary Biology, University of Michigan*

Annette Ostling is a community ecologist focused on the influence of competitive interactions on the number, composition, and relative abundance of species in ecological communities. Her work is focused on advancing theory in this area, but also aims to improve empirical approaches for discerning processes influencing ecological communities from their structure. She received a B.A. in Physics from Columbia University in 1994, an M.S. in Physics from the University of Illinois at Urbana-Champaign in 1999, and a Ph.D. in Energy and Resources from the University of California, Berkeley in 2004. She did her postdoctoral training in the Ecology and Evolutionary Biology Department at Princeton before joining the University of Michigan in 2006. Professor Ostling was an EPA STAR fellow as a graduate student and a Princeton Council on Science and Technology Postdoctoral Fellow. She has received funding for her work from NSF's Advancing Theory in Biology Program. She will be on sabbatical in the 2015-2016 academic year as a visitor at the Center for Macroecology, Evolution, and Climate at the University of Copenhagen, and as a Miller Institute Visiting Professor at the University of California, Berkeley.



### **Pamela Raymond**

*Stephen S. Easter Collegiate Professor, Molecular, Cellular, and Developmental Biology  
University of Michigan*

The research in Professor Pamela Raymond's laboratory has enhanced our understanding of the cellular and molecular basis of extrinsic and intrinsic signals that regulate retinal neurogenesis (the formation of neurons) and that control neuronal specificity (the expression of differentiated cellular features) during development and regeneration of neurons in the visual system. She has published over 100 scientific articles and co-edited two books. Dr. Raymond received her B.S., M.S., and Ph.D. degrees in Zoology from the University of Michigan, and she did postdoctoral training in the Molecular, Behavioral, Neuroscience Institute at the University of Michigan. She has held academic appointments at Harvard Medical School and the University of Michigan Medical School, and she was a Fogarty Senior International Fellow at the University of Lausanne. While on the faculty at the University of Michigan, she served as Associate Provost for Academic and Faculty Affairs (1997-2002) and as Chair of the Department of Molecular, Cellular, and Developmental Biology (2008-2014). Professor Raymond has served on numerous federal scientific review panels, she chaired the National Eye Institute Board of Scientific Counselors (2002-2008), and she is currently on the steering committee for the National Eye Institute Audacious Goals Initiative, designed to catalyze cross-disciplinary research that will enable restoration of human vision through regeneration of the retina. Since 2002 she has held several leadership roles in the University of Michigan's ADVANCE program, the goal of which is to promote faculty diversity.



## **Denise Sekaquaptewa**

*Professor, Department of Psychology*

*Associate Director of the ADVANCE Program, University of Michigan*

Dr. Sekaquaptewa received her master's and doctoral degrees in social psychology from the Ohio State University. Her research in experimental social psychology focuses on stereotyping and intergroup dynamics, including how being in the numerical minority in terms of gender or race influences academic outcomes and experiences. The consequences of unintended bias for intergroup behavior and individual performance are also a focus on her work. She has served as an Associate Editor for the journals *Cultural Diversity and Ethnic Minority Psychology*, and *Personality and Social Psychology Bulletin*.



## **Abigail J. Stewart**

*Sandra Schwartz Tangri Distinguished University Professor of Psychology and Women's Studies*

*Director of the ADVANCE Program, University of Michigan.*

Dr. Stewart has published many scholarly articles and several books, focusing on the psychology of women's lives, personality, and adaptation to personal and social changes. Her current research, which combines qualitative and quantitative methods, includes comparative analyses of longitudinal studies of educated women's lives and personalities; a collaborative study of race, gender and generation in the graduates of a Midwest high school; comparative study of women's movement activism in several national contexts; and research and interventions on gender and

science and technology with graduate students, postdoctoral fellows and faculty. Professor Stewart and her colleagues, Janet E. Malley and Danielle LaVaque-Manty, have edited a book for the University of Michigan Press based on the experience of some ADVANCE program efforts to create institutional change: *Transforming science and engineering: Advancing academic women*. It was re-published in paperback in 2010. She has continued to study the impact of institutional climate on women and underrepresented minorities on the faculty. She recently completed a study of climate change at the University of Michigan over the 13 years of the ADVANCE presence there, as well as on factors that predict departmental level change—or its absence.



## **Priscilla K. Tucker**

*Professor, Ecology and Evolutionary Biology*

*Curator of Mammals, Museum of Zoology; Associate Chair, UMMZ Collections, University of Michigan*

An evolutionary biologist, Professor Tucker studies biological diversity and the evolutionary processes that give rise to it. She is specifically interested in the genomic changes underlying mammalian diversity and uses hybridizing species of mice to probe the genomic underpinnings of the species boundary. Professor Tucker received a B.A. in Spanish from Colgate University in 1974, and M.S. and Ph.D. degrees in Wildlife and Fisheries Science from Texas A&M University in 1980 and 1984, respectively. She did her postdoctoral training at the Jackson Laboratory before joining the Department of Biology at UM in 1988. In the recent past, Professor Tucker

served as Associate Chair for Undergraduate Affairs in Ecology and Evolutionary Biology and as an elected member to the LSA Executive Committee. She currently serves as Associate Chair of the University of Michigan Museum of Zoology, a world-class research collection of animals. She is a member of the ADVANCE Advisory Board in LSA, the President's Postdoctoral Fellowship Program Advisory Committee and the LSA Bicentennial Theme Semester Committee.



### **Sari van Anders**

*Associate Professor of Psychology & Women's Studies  
Affiliate Faculty in Neuroscience, Reproductive Sciences,  
and Science, Technology, & Society, University of Michigan*

Sari van Anders' research is in social neuroendocrinology, feminist science, and sexuality, and has received a number of awards, including the Janet Taylor Spence Award for Transformative Early Career Contributions from the Association for Psychological Science, the Frank Beach Early Career Award from the Society for Behavioral Neuroendocrinology, and has been named a "scientist to watch" by *The Scientist* magazine. Dr. van Anders' teaching has also been honored by the University of Michigan. Dr. van Anders' PhD was awarded in 2007 by Simon Fraser

University. Dr. van Anders has published over 50 papers, and sits on four editorial boards, as well as serving as the new Editor for the Annual Review of Sex Research. Dr. van Anders' research is funded by various private and public sources, including the National Institutes of Allergies and Infectious Diseases at the NIH. Dr. van Anders has been extensively involved in mentoring and professional development programs, including mentoring around difference and LGBTQ mentoring.



### **John Wolfe**

*Arthur F Thurnau Professor  
Associate Chair, Department of Chemistry  
Professor of Chemistry, University of Michigan*

John P. Wolfe's current research is directed towards the development of new palladium-catalyzed reactions for the stereoselective synthesis of heterocycles, and new reactions of enediolate nucleophiles for enantioselective synthesis of functionalized tertiary alcohols. Professor Wolfe received his B.A. degree in Chemistry from the University of Colorado, Boulder in 1994 where he conducted undergraduate research in the labs of Professor Gary A. Molander. He received his Ph.D. degree in 1999 from the Massachusetts Institute of Technology under the guidance of Professor Stephen L. Buchwald. Following the completion of his Ph.D. studies, he

spent three years as an NIH postdoctoral fellow in the lab of Professor Larry E. Overman at the University of California, Irvine. He joined the faculty at the University of Michigan in July, 2002. He has taught both large (enrollments of ~300-400) and small (enrollments of 20-100) lecture and laboratory courses, and is particularly interested in improving the experience of undergraduates in large classrooms. His research and teaching accomplishments have been recognized with several awards, including the Dreyfus New Faculty Award (2002), the Research Corporation Innovation Award (2002), the 3M Untenured Faculty Award (2003-2005), the Amgen Young Investigator Award (2004), the Lilly Grantee Award (2005), the Camille Dreyfus Teacher-Scholar Award (2006), the GlaxoSmithKline Scholar Award (2008-2009), the LSA Excellence in Education Award (2012) and the John Dewey Award (2012). He was named a Fellow of the American Association for the Advancement of Science in 2012, and an Arthur F. Thurnau Professor in 2015.