Awards honor 29 faculty members

Editor’s note: Information for this article was provided by the Office of University Development.

The awards and honorees are:

1. Peter Franken Distinguished University Professor of Psychology
2. Philip H. Bucksbaum, Otto Laporte Collegiate Professor of Physics
3. J. Meyer Distinguished University Professor of Public Policy
4. Sheldon H. Danziger, co-director, National Poverty Center
5. Gerald R. Ford School of Public Policy
6. William J. Herdman, professor of natural resources & sustainable environment and engineering, CoE
7. Sally C. K. Prahalad, professor of social scientific inquiry, LSA
8. Arthur E. Link Distinguished University Professor of Anthropology
9. Donald S. Lopez, professor of philosophy, School of Natural Sciences and Engineering, CoE
10. Maria L. Marcos, associate professor of accounting, Ross School of Business
11. Khalil Najafi, professor of electrical engineering and computer science, College of Engineering (CoE)
12. Stephen Maren, professor of educational psychology, College of Education, and Behavioral Sciences (CEBS)
13. Sheldon C. Stiles, professor of molecular and cell biology, LSA
14. Zoran S. Filipi, research professor, CoE
15. Zoran S. Filipi, research professor, Translational Research Institute, School of Public Health (SPH)
16. Marcos H. Flach, research professor, Transportation Research Institute, School of Public Health (SPH)
17. The Research Faculty Recognition Award, with a stipend of $1,000, goes to Zoran S. Filipi, research associate professor, Department of Mechanical Engineering, CoE; and Heather C. Hill, associate research scientist, School of Education. The award recognizes outstanding scholarly achievements, the development of innovative technology, or the development of concepts that lead to advances in science, education, health, the arts or humanities.

The following entries are excerpts from the award citations:

**Distinguished University Professorship, Philip H. Bucksbaum**

One of the world’s leading figures in atomic, molecular and optical physics, Bucksbaum has had a remarkable career. His impact in the physical sciences began during his graduate studies, with work that provided early confirmation for the Standard Model of particle physics. With his mentor, Eugene Commins, Bucksbaum authored a textbook in which is ‘most.’ However, his key contributions to the field of atomic and molecular physics may have determined the underlying science of light-matter interactions and explained how the science works; his papers have received some 3,000 citations.

During the last several years, Bucksbaum has demonstrated outstanding leadership and service by designing and leading the National Science Foundation’s (NSF) highly successful new FOCUS Center at U-M, where a number of skilled scientists study ultrafast phenomena in physics, chemistry, biology and engineering. He also initiated and leads the Virtual Journal of Ultrastar Science, read by many of the majors in the field, and he is associate editor of Physical Review Letters. The premier print publication in physics, among numerous other contributions to the scientific community, he has lobbied Congress on behalf of the Consortium of National Science Funding.

Bucksbaum has received many prestigious awards and fellowships, including a Guggenheim Fellowship, election to the American Physical Society and Optical Society, and most recently, election to the National Academy of Sciences (NAS).

Bucksbaum receives high acclaim from students at all levels for his ability to clearly explain difficult concepts. They extol him for giving generously of his time and for his inspiring enthusiasm for physics as an ongoing learning experience. The rich apprenticeship experience he provides has had a profound impact on many students who have gone on to careers in science.
effects of economic, demographic and social policy changes on poverty in the United States. His internationally renowned reputation is built not only on publications notable for their contributions to a wide range of disciplines, but also on his ability to generate creative policy research by other scholars.

“Ameria Unequal” (1995), co-authored with Danziger and Peter Gottschalk, summarizes and extends their papers that demonstrated how economic growth after 1970 benefited the poor relatively little because of rising labor market inequalities. He is widely cited as the organizer and co-editor of three summary volumes, “Fighting Poverty” (1986), “Danziger’s Unequal Poverty” (1994) and “Understanding Poverty” (2002). Throughout his career Danziger has helped build institutions. At U-M he has been centrally involved in organizing and funding two research centers, the Research and Training Program on Poverty and Public Policy and the National Poverty Center. The University’s recognition of his dedication to building organizations, the A. B. Baker Award for Lifelong Education in Neurology: From the American Academy of Neurology in 2004. He also is a superb clinician who sees patients referred from across the country.

Distinguished University Professorship, Donald S. Lopez, Jr.

Lopez is internationally respected as a leading figure in the fields of Tibetan and Buddhist studies, Lopez has transformed the field through his innovative approaches to the traditions and scholarship of Buddhism. He has demonstrated a capacity to look at these traditions from a variety of perspectives, all of which are grounded in close readings of classical texts, sophisticated understanding of classical and contemporary cultural and historical contexts, and a solid command of contemporary scholarly theory. With a record of continuities, prolific and imaginative scholarship, Lopez is a scholar whose work spans the gamut from extremely archival work available only to a small group of linguistically trained specialists, to writing that widely is popular. He is perhaps best known for his famous work on the encounter with and study of Tibet in America and Europe during the last century, namely “Prisoners of Shangri-La: Tibetan Buddhism and the West,” published in 1998. This and his subsequent publications have had impacts on scholarly communities and on a broader popular understanding of Tibetan Buddhism. In recognition of his scholarship, he has been awarded numerous prestigious fellowships, and in 2000 he was elected to AAAS. For his contributions to undergraduate education, he was honored in 1999 with an Arthur F. Thurnau Professorship. He is an effective and supportive mentor of medical students, residents and fellows, Gilman received the A. B. Baker Award for Lifelong Education in Neurology: From the American Academy of Neurology in 2004. He also is a superb clinician who sees patients referred from across the country.

Distinguished University Professorship, Donald S. Lopez, Jr. (Non-photo available)

One of the leading archaeologists working in Latin America today and a major force in world archaeology, Marcus has gained international recognition for her excavations at Maya, Zapotec and Olmec sites, for her insights into how complex societies emerge and adapt; and for her contribution to the decipherment of writing systems. Marcus is renowned for her work on writing systems—only not Maya and hieroglyphic writing, but also the lesser-known Mixtec, Zapotec and Artec writing. Her ability to combine hieroglyphic texts, ethno-historical and archaeological data has enabled her to make general models that address a wide range of topics, such as political evolution, the rise and fall of dynasties; prehistoric fishing and subsistence strategies, and the nature of ancient ritual, religion and cosmology. Marcus has written or edited 15 books, several of which are classics in archaeology. Her book, “Mesoamerican Writing Systems: Preclassic, Classic, and Postclassic,” has been called an intellectual tour de force. In 1997, Marcus was elected to both NAS and the American Academy of Sciences. She is head of anthropology in NAS and the first archaeologist ever to be named to the NAS Council. In 2003 the state of Campeche, Mexico, honored her with an annual one-week symposium devoted to her research on Maya political history. Marcus spends time mentoring undergraduate and graduate students and works on their behalf when they enter the competitive job market. Her commitment to teaching extends far beyond preparing future anthropologists. She believes in the importance of teaching all students, regardless of major or career goals.

Distinguished University Professorship, Joyce Marcus

One of the most influential scholars in the field of management, Prahalad has been called the “guru of strategy.” He is a visionary whose ideas have commented re-arranged from the academic, corporate and public sectors. His 2004 book, “The Fortune at the Bottom of the Pyramid: Eradicating Poverty Through Profits,” was named book of the year by The Economist, Amazon.com and Fast Company, and already has helped people to look at the poor as consumers and to view the problems and opportunities in developing countries in a fundamentally different way.

Prahalad has co-authored other award-winning books, “Competing for the Future” and “The Future of Competi- tion,” and in 2004 was named the three-time winner of the McKinsey Prize for the best annual paper published in Harvard Business Review. For him, thinking beyond the confines of existing research and then producing a remarkable and original perspective that completely re-characterizes a problem in fundamental ways.

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Complementing her body of scholarly work is Stewart's record of discipline-building and her leadership in making these fields inclusive. She has been a pioneer in the field of women's studies nationally and internationally, building U-M's program and founding the Institute for Research on Women and Gender. Most recently she has made efforts to further the access to and engagement of girls and women in science, engineering and mathematics, and has organized and directed Michigan's ADVANCE grants. She has been a leader in the national social sciences community, organizing and chairing national meetings, serving on the U.S. National Committee for the International Union for Biochemistry and Molecular Biology, and serving as chair-elect for the Biological Chemistry Division of the American Chemical Society.

Soon after Fierke arrived on campus, she was appointed to the Life Sciences Initiative Advisory Committee, where she helped to shape the direction of life sciences at U-M. She has served on the Department of Chemistry's executive committee and is a member of the STRIDE committee and currently serves as chair of the department. She also has played a leadership role in the formation of a chemical biology graduate program that includes colleagues from LSA, School of Pharmacy and the Medical School. A popular teacher, Fierke has been a prolific trainer of undergraduate, graduate and postdoctoral students. She also has worked tirelessly for the betterment of women scientists across campus and serves on the STRIDE committee with the ADVANCE project to recruit and support women in science.

A premier enzymologist, Fierke exemplifies scientific distinction and rigor. She has brought to all her activities an enthusiasm and drive for excellence that has gained the admiration of her students and colleagues.

Fierke has collaborated with the most prominent scientists in biochemistry, molecular biology, cell biology and bioinformatics. She has excelled in the application of cyto geneticists for identifying the molecular basis of human diseases and has been unique in his role as a bridge between clinical and basic research in genetics. The author of several landmark papers and a number of influential articles, Fierke has made numerous contributions to the field and maintains a cutting-edge research program. In his research he has excelled in the application of cyto- geneticists for identifying the molecular basis of human diseases and has been unique in his role as a bridge between clinical and basic research in genetics. The author of several landmark papers and a number of influential articles, Fierke has made numerous contributions to the field and maintains a cutting-edge research program.
the Lake Nyos Disaster in Cameroon, West Africa, and continues to be an international authority on this type of hazard. He next turned his talents toward understanding how greenhouse gases are transferred from Arctic lakes to the atmosphere. He also has made broad contributions to understanding many different aspects of the trophic structure of lakes.

Kling’s work has been recognized widely, and he has received many awards and been tapped for national committees, workshops, panels, symposia and editorial positions. He was selected as lead author of Confronting Climate Change in the Great Lakes Region, one of three major reports on climate change and ecology for the United States, sponsored by the Ecological Society of America and the Union of Concerned Scientists.

Kling is concerned with helping students think critically and clearly and to make sure they have the resources to succeed. He has built strong programs in the Department of Ecology and Evolutionary Biology and across campus. He was a driving force behind the cross-departmental courses in global change and in developing the first course in ecosystem ecology taught at U-M.

Distinguished Faculty Achievement Award, Khalil Najafi

An expert in the field of integrated sensors, microelectromechanical systems and microsystems, Najafi has excelled as a faculty member. He is a gifted teacher always willing to put his own work aside to answer a question or interact with a student, and he also is a world leader in service to his profession. Najafi did his doctoral thesis in the area of implantable electrode arrays for interfacing with the nervous system at the cellular level. His was the first practical process for such devices, and in the nearly 20 years since their introduction, U-M has supplied more than 7,500 “Michigan Probes” to neurophysiologists worldwide. His work has had an impact on the field of biomedical devices and microsystems, and many groups around the world are using the results of his research to develop microsystems that eventually could be used for visual prostheses and for treating diseases such as Parkinson’s and epilepsy by electrical stimulation of deep-brain structures.

In recognition of his research, Najafi has received numerous awards, including the Henry Russell Award in 1994-95 and a CoE Research Excellence Award in 1999. He received a Faculty Recognition Award from U-M in 2001 and an Outstanding Achievement Award from the electrical engineering and computer science department in 2004. Najafi has been called the consummate engineer and for treating diseases such as Parkinson’s and epilepsy by electrical stimulation of deep-brain structures.

Distinguished Faculty Achievement Award, Eric S. Rabkin

A prolific scholar and respected administrator, teacher and beloved mentor, Rabkin has established himself as an important theoretician of narrative, often focusing on science fiction and fantasy. During the past 30 years, he has written, edited or co-written more than 30 books, in addition to more than 150 shorter publications. His most recent book, “Mars: A Tour of the Human Imagination,” was published in 2004.

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For more than seven years, Rabkin has pursued a large, innovative, and interdisciplin-
ary empirical study, the collabora-
tive Genre Evolution Project, which uses a close study of narrative to test the hypo-
thesis that culture evolves as a complex adap-
tive system. Results of this work have led to many pub-
lICATIONS and presentations in Europe and the United States, including an invitation from the Na-
tional Endow-
ment for the Humanities to lecture publicly on research methodology.

In recognition of his out-
standing achievements as a teacher, he received a U-M Teaching Award and was named a MacArthur Professor, both in 1990.

Throughout his tenure at the University, Rabkin has given his time and valuable service to the department, the LSA and the University. Among the first to master the new computer technologies for teaching and research, he has been generous with his time as computer advisor to the department. As associate dean for long-range planning (1979-83) in LSA, he founded and was the first occupant of the position of minority affairs. He founded and directed the Collegiate Institute for Values and Scien-
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and other publications. Sastry’s work on statistical modeling of disordered materials has led to scientific advances in biology and design of novel energy storage materials. Her work in batteries for the Department of Energy, for example, is the first coupled mechanical and electrochemical simulation technique to understand failure initiation in high-power battery systems. In the biosciences, she initiated and leads a multiyear project on nanoscale modeling and intracellular transport, funded by a grant from the Keck Foundation.

In parallel with her research accomplishments, Sastry also is a respected teacher and mentor. She has introduced a popular new course, revamped her department’s capstone laboratory course, and initiated several projects that engage beginning students. Of her many doctoral and postdoctoral students, several have obtained faculty positions.

Sastry also has made significant service contributions to the university and her profession. She currently serves as chair of the Undergraduate Council at U-M, and recently chaired the CoE Outreach Committee and the Mechanical Engineering Search Committee. She also is associate editor of two professional journals.

Her groundbreaking research has translated not only to archival publications, but also helped shape the careers of her students, and opened the door to greater collaboration among disciplines.

Faculty Recognition Award, George Steinmetz
Steinmetz’s influential contributions to scholarship have made Steinmetz a leading national figure in the renaissance of cultural and historical sociology. His work has shown a clear pattern of cumulative development in which, building on previous work, he has developed a deeper knowledge of German history while extending his empirical reach. His first book, “Regulating the Social,” earned him a reputation as one of the discipline’s most creative and original social theorists. In his forthcoming book, “The Devil’s Handwriting,” Steinmetz offers an investigation into the radically contrasting policies pursued by Germany’s overseas colonial administrators in three areas: Southwest Africa, Samoa, and the Chinese province of Qingdao. This work, which

explains three distinct colonial trajectories by integrating social, cultural, and political factors in modern history, has won him considerable acclaim and will serve as an essential resource for students and scholars of the period.

For many years he has analyzed the dynamics of individual decision-making processes, using quantitative methods based on observations with fluorescence microscopy. His work is important because the physiological and chemical changes in macrophages can determine the outcome of infection.

Taking a highly innovative approach to the study of macrophage–microbe interactions, Swanson and his colleagues have developed a number of techniques and methods to analyze physiological processes in live macrophages, and in real time, making it possible to understand the host response to single macrophages at an extraordinary level of detail. In addition to being one of the most technologically advanced investigators using imaging, he brings a completely innovative and innovative perspective to his function, well documented by using model systems such as macrophages.

Swanson’s work has resulted in 15 published articles in peer-reviewed journals since 1999 and in invitations to write chapters in books on cell biological methodologies. Investigators outside the University have recognized the significance and importance of his work by inviting him to give lectures at the prestigious Gordon and Keystone Conferences from 2000-03, and to write for Nature.

Swanson’s teaching is characterized by versatility and range of knowledge. Students note his ability to step back from details and present the larger context. A mentor to graduate students who rely on his insights and expertise, he has chaired five doctoral committees and served on the committees of 30 more, in addition to mentoring six postdoctoral fellows.

He has compiled an exemplary record of service to his departments and to interdisciplinary programs. He has been assistant director of the Graduate Program in Cellular and Molecular Biology and director of the Cellular Biotechnology Interdepartmental Training Program. He has served on committees that advised the vice president for research on scientific matters and on the Biomedical Research Council, as chair in 2001-02.

University Undergraduate Teaching Award, James Diana
A demanding but highly popular teacher, Diana has helped generated new perspectives on how to study complex environmental issues. Enrollment in his Ecological Issues course is the single-best predictor of declaring a concentration in the Program in the Environment. Under his guidance, his well-rounded and discerning citizens, problem solvers and leaders in the field.

As associate dean for academic programs, Diana worked for three years to design and implement what may be the most exciting comprehensive environmental educational program on campus in decades—the Program in the Environment. Creating a program that could capture the imagination of both LSA and SNRE faculty and train a cross-section of undergraduates to be both broad and deep in environmental areas was an intellectual and logistical undertaking of enormous proportions. Today the program has 200 concentrators and it is being embraced broadly.

In another innovation under his leadership, SNRE faculty this year approved a new sustainability track to equip students to tackle environmental problems from an enterprise or business side, as well as from a technological or engineering side. Faculty from CoE and the Ross School of Business are collaborating on curricular development, and the program will have ramifications for both graduate and undergraduate training.

Diana’s teaching and his approach to problem solving are instrumental in students’ career decisions. His more disciplinarily oriented courses in aquatic ecology have filled up year after year, and students seek hours of research and field experience beyond what is required, so as to continue learning at his side.

Diana also has led the school’s effort to increase minority enrollment, working in a number of ways to recruit new students of color. Among other undertakings, he helped students design an independent study course on Native American natural resources issues, and he hosted two environmental leaders on campus to teach a series of workshops on “Conservation in Black and White.”
Ross Chambers
Chambers is well known for his international reputation for work in the field of French literature, literary criticism and comparative literature. An authority on many 19th- and 20th-century French writers, he has written for his work in the fields of literature, literary criticism and comparative literature. His work on the self-reflexive legacy of its focus on the very urge of the Rhetoric of Haunt the work of synthesis. His new book, “Untimely Interventions: AIDS Writing, Testimonial, and vicissitudes, this book is by paying attention to how this generation of students accounts of collective disas from 1979-81. In this position, he worked diligently to enhance communication between the Medical School and other University faculties, as well as with central administration. During the 1980s, Mar- celeo served on the advisory committee to the Affirmative Action Program, the Peri- odic Health Appraisal Unit Committee, the University Committee on the Use and Care of Animals, and the Sen- ate Committee on the Eco- nomic Status of the Faculty. She was elected to the Senate Assembly in 1989 and to the Senate Advisory Committee on University Affairs in 1991. She subsequently served again on the Senate Assembly from 1999-2003 and has been a member of the Civil Liberties Board, the Research Policies Committee, the Michigan Union Board of Representa- tives and the Primary Re- search Scientist Award Commit- tee. Since 1990 Marcelo has been chair of the Academic Women’s Caucus. She also has served on the governing council of the U-M chapter of Sigma Xi, the National Science and Engineering Honor Society, as treasurer, vice president and president. Currently, she is a member of the Medical Center Bylaws Committee and of the Faculty Perspectives Page Committee of the NIH since 1975, when she joined the U-M faculty. She was ap- pointed to the Women’s Commission by the Medical Center and chaired the group from 1979-81. In this posi- tion, she worked diligently to enhance communication between the Medical School and other University faculties, as well as with central administration. During the 1980s, Mar- Marcelo is the author of numerous articles and book chapters. She shares ownership in five patents and is the principal investigator of an NIH train- ing grant. Currently she is part of a team undertaking a clinical trial of a live cell device at the Medical Center. During her career she has attended numerous postdoctoral students, most of whom hold academic ap- pointments in the United States, Europe and Japan, and she has mentored many high school and undergradu- ate student interns.

Regents’ Award for Distinguished Public Service, Bunyan I. Bryant, Jr. During his 34-year career at U-M, Bryant has been deeply involved in teaching, research and service to the community. His work on behalf of the Environmental Justice Program (EJP) has gained him local, national and international recognition. In 1994, he was invited to the White House to wit- ness President Clinton’s sign- ing of the Environmental Justice Executive Order. More recently he was involved in a policy briefing at the Michi- gan State Department of Environmental Quality Advi- sory Council and was part of the Michigan Environmental Justice Coalition to encour- age the governor of Michigan to sign an environmental justice executive order. Environmental justice is the term used for efforts to ensure the fair treatment and meaningful involvement of all people, regardless of race, color, national origin, or income, with respect to the development, implementa- tion, and enforcement of environmental laws, regula- tions, and policies. During the past 15 years, the EJP has become one of the most vis- ible in SNRE and has made a unique contribution to the school and University. Six years ago, Bunyan created the Environmental Initiative to research and disseminate conference proceedings and policy briefings. He has made presentations on environmental justice at many national and international conferences. Bunyan has been an inspira- tion for his students, and re-cently completed an environ- mental textbook for under- graduate students. In one of his courses, students, with the support of the dean’s office, organized an international conference on climate justice, which was held on campus and drew scholars and activ- ists from around the United States and around the world. The conference had a tremendous effect upon public policy and continues to do so. Informa- tion discussions at the confer- ence helped support the Global Climate Change Bill authored by Sen. John Mc- Cain and Sen. Joe Lieberman. During the past year, Bry- ant chaired the dissertation committee of the first Af- rican-American woman to complete an environmental justice dissertation. He also advised the first environmen- tal justice master’s project, which focused on an envi- ronmental justice assessment of the Arab community in Dearborn and the surround- ing communities. Bryant has received nu- merous awards for his achievements, including the Dreamkeeper Award in 1993 and the Harold R. Johnson Diversity Service Award in 2001. For excellence in teaching he was given an Outstanding Teaching Award from SNRE in 2000, and in 2001, he was appointed by Presi- dent debror Thurnau Professorship. University Librarian Achievement Award, Rebecca M. Dunkle As head of online access and distributed services at the Harlan Hatcher Graduate Library, Dunkle has responsi- bilities for the social sciences and overall library access ser- vices. Whether in the role of leader, colleague or collabo- rator, she consistently dem- onstrates her commitment to the intellectual, academic and vicissitudes, this book is by paying attention to how this generation of students accounts of collective disas from 1979-81. In this position, she worked diligently to enhance communication between the Medical School and other University faculties, as well as with central administration. During the 1980s, Mar- Marcelo is the author of numerous articles and book chapters. She shares ownership in five patents and is the principal investigator of an NIH train- ing grant. Currently she is part of a team undertaking a clinical trial of a live cell device at the Medical Center. During her career she has attended numerous postdoctoral students, most of whom hold academic ap- pointments in the United States, Europe and Japan, and she has mentored many high school and undergradu- ate student interns.

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Regents’ Award for Distinguished Public Service, Bunyan I. Bryant, Jr. During his 34-year career at U-M, Bryant has been deeply involved in teaching, research and service to the community. His work on behalf of the Environmental Justice Program (EJP) has gained him local, national and international recognition. In 1994, he was invited to the White House to wit- ness President Clinton’s sign- ing of the Environmental Justice Executive Order. More recently he was involved in a policy briefing at the Michigan State Department of Environmental Quality Advisory Council and was part of the Michigan Environmental Justice Coalition to encour- age the governor of Michigan to sign an environmental justice executive order. Environmental justice is the term used for efforts to ensure the fair treatment and meaningful involvement of all people, regardless of race, color, national origin, or income, with respect to the development, implementation, and enforcement of environmental laws, regulations, and policies. During the past 15 years, the EJP has become one of the most visible in SNRE and has made a unique contribution to the school and University. Six years ago, Bunyan created the Environmental Initiative to research and disseminate conference proceedings and policy briefings. He has made presentations on environmental justice at many national and international conferences. Bunyan has been an inspiration for his students, and recently completed an environmental textbook for undergraduate students. In one of his courses, students, with the support of the dean’s office, organized an international conference on climate justice, which was held on campus and drew scholars and activists from around the United States and around the world. The conference had a tremendous effect upon public policy and continues to do so. Information discussions at the conference helped support the Global Climate Change Bill authored by Sen. John Mc- Cain and Sen. Joe Lieberman. During the past year, Bry- ant chaired the dissertation committee of the first African-American woman to complete an environmental justice dissertation. He also advised the first environmental justice master’s project, which focused on an environmental justice assessment of the Arab community in Dearborn and the surrounding communities. Bryant has received numerous awards for his achievements, including the Dreamkeeper Award in 1993 and the Harold R. Johnson Diversity Service Award in 2001. For excellence in teaching he was given an Outstanding Teaching Award from SNRE in 2000, and in 2001, he was appointed by President debror Thurnau Professorship. University Librarian Achievement Award, Rebecca M. Dunkle As head of online access and distributed services at the Harlan Hatcher Graduate Library, Dunkle has responsibilities for the social sciences and overall library access services. Whether in the role of leader, colleague or collaborator, she consistently demonstrates her commitment to the intellectual, academic and
Since 1996, Bonn has been a nationally known expert in the inner magnetosphere and its variability, and particularly its interaction with Earth’s upper atmosphere. One of her largest contributions to the base of knowledge of the magnetosphere’s physics and chemistry has been the development of a model of the ring current, a collection of ions and electrons traveling around Earth just inside geosynchronous orbit. Her research is essential to an eventual capability to forecast space weather. 

Kozyra is a recognized world expert on the Sun-Earth system. She has published nearly 70 papers and given more than 50 invited lectures. For her scientific achievements, she recently was elected fellow of the American Geophysical Union. In the energy and dedication she brings to leadership and service roles, Kozyra has few equals in the space physics community. 

Shope also has helped to increase understanding of rare disease to older drivers. Her broad approach to transportation safety has required innovative methodological development, merging emerging and analyzing data from multiple sources. She and her colleagues are currently designing new methods of analyzing longitudinal associations across data sources.

Shope provides by example a well-lit path for new researchers, she continues to reach out to scientists in other disciplines, enriching her understanding of issues and enlarging the possibilities for new research ideas and approaches. She also demonstrates a remarkable ability to mentor research and support staff and students.

Shope is nationally and internationally known for her pioneering research concerning risky adolescent behavior, and has done much to advance adolescent health and safety. Her insights have been valuable to practitioners and researchers alike.
of those rare individuals who complement modeling with developing sophisticated engine test cells to provide fundamental insight and validate those models. Filipi's work has made him well known in his field on a national and international level and earned him the CoE Outstanding Research Scientist Award. He has published in highly respected journals, and given presentations at conferences and academies institutions. His research is highly regarded in the engine- and hybrid-vehicle research communities.

As an independent scholar, Filipi has focused on modeling and simulating engines and hybrid propulsion and energy storage devices, with emphasis on complex interactions in the powertrain system under transient in-vehicle conditions. Modeling techniques span a range from fundamental, physics-based approaches to application of neural networks as real-time models for optimization studies. His participation in the Automotive Research Center (ARC) has been essential in integrating the collective efforts of larger thrust groups. In particular, Filipi has led multidisciplinary teams carrying out case studies that pioneered novel, high-efficiency options for ground vehicle propulsion.

While performing his primary research duties, Filipi often has made valuable contributions to teaching that go far beyond what is normally expected of research scientists. He has advised or mentored numerous master's and doctoral students pursuing sponsored research, and demonstrated outstanding dedication to effective team-building. His involvement in setting up engine research laboratories has exposed many graduate and undergraduate students to modern instrumentation and experimental techniques. Throughout his career, Filipi has been an active and recognized member of the technical community. He has organized numerous conference sessions, reviewed papers and participated in technical forums. He has been elected as an associate of the American Society of Mechanical Engineers Internal Combustion Engine Division and appointed a member of the Society of Automotive Engineers Hybrid Vehicle Committee. He has contributed to the CoE Strategic Planning activity, and currently serves as the assistant director of ARC and a member of the Department of Mechanical Engineering advisory and renovation steering committees.

Research Faculty Recognition Award, Heather C. Hill
During her tenure at the School of Education, Hill has become a rising star in educational research. Her work has made substantial contributions to the fields of teacher professional development and educational evaluation. A prolific and respected scholar, she addresses issues ranging from the impact, interpretation and implementation of policy to the development of measures to evaluate teachers' mathematical knowledge for teaching. Her publications and grant activity demonstrate her intellectual talents and ability to meet high standards for scholarly research. Hill's work as principal investigator on three NSF grants has brought national attention to the school and University. A central thread in her work concerns the role that adult learning plays in policy implementation. She has shown that adults' opportunities to teach and learn about policy are critical to the enactment of policy. Her investigations have helped open up a new terrain for the study of education. With her colleagues, she has made breakthroughs of significant magnitude, changing the way the field views and studies professional development.

"Learning Policy," co-authored with David Cohen and published in 2001, is a model of successful application of solid social science research to an important and interesting problem of policy and practice. It establishes empirically, for the first time, the relationship of professional development opportunities to teaching practice and student achievement. It provides the common-sense lesson that professional development that is linked to the student curriculum is more effective than generic professional development opportunities in changing teacher practice and in improving student outcomes.

Since completing her dissertation in 2001, Hill has published 10 peer-reviewed articles in scholarly journals. In recent work with colleagues, she developed and validated measures of teachers' pedagogical content knowledge, thereby enabling others to study the effectiveness of professional development and other teacher learning opportunities.

Hill has been an active mentor to graduate students eager to learn the unique combination of theoretical and methodological skills central to her success, and has provided instruction and leadership to many educators and researchers interested in using her measures of the knowledge of teaching mathematics. She also has contributed service to professional journals and organizations.