

THE UNIVERSITY OF MICHIGAN

Regents Communication

ACTION REQUEST

EXH	MOTION <i>White</i>
	SECC. ID <i>Maynard</i>
	ACT. APPROVED BY THE REGENTS
NOTE:	FEB 17 2005

Subject: Report of Faculty Retirement

Action Requested: Adoption of Retirement Memoir

Kenneth L. Campbell, Ph.D., senior research scientist in the University of Michigan Transportation Research Institute (UMTRI), retired from active faculty status on August 10, 2001.

Dr. Campbell received his B.S., M.S., and Ph.D. degrees from the University of Wisconsin in 1967, 1968, and 1971 respectively. He was a research engineer at General Motors from 1971-74 and joined the University of Michigan as an assistant research scientist in 1974. He was promoted to associate research scientist in 1977, research scientist in 1991, and senior research scientist in 1997, and he served as director of the Center for National Truck Statistics from 1988-2001 and division head of the UMTRI Survey Analysis Division from 1997-2001.

Dr. Campbell applied statistical methods to the analysis of transportation safety. His work included the design and management of large-scale accident and travel survey programs, creation of models of factors associated with accident risk, identification of prevalent collision situations for advanced collision avoidance technology, and development of deterministic models to predict the probability of injury in a collision. His research focused on the application of multivariate statistical techniques to determine the relationship of driver, vehicle, highway, and environmental factors to accident risk. His work with proposed Intelligent Transportation Systems helped develop collision typologies to classify accidents so as to identify the collision situations with the greatest potential for the use of advanced collision-avoidance technology. More recently, he applied statistical methods to distributions of time to collision in normal driving to estimate the effect of advanced technologies on the probability of collision.

Dr. Campbell received the Society of Automotive Engineers' Excellence in Oral Presentation Award and the Arch T. Colwell Award. He held leadership positions on the UMTRI Executive Committee and the Motor Vehicle Safety Research Advisory Committee at the National Highway Traffic Safety Administration.

The Regents now salute this faculty member by naming **Kenneth L. Campbell senior research scientist emeritus**.

Requested by:

Marvin Krislov

Marvin Krislov
acting as Vice President and Secretary of the University

February 2005

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Robert D. Ervin, research professor in the University of Michigan Transportation Research Institute (UMTRI) and research scientist in the College of Engineering, retired from active faculty status on October 31, 2004.

Robert Ervin received his B.S. degree from the University of Detroit in 1966 and his M.S. degree from Cornell University in 1968. He joined the University of Michigan as a research associate in 1961 and was promoted to associate research engineer in 1970, associate research scientist in 1974, research scientist in 1978, senior research scientist in 1997, and research professor in 2003. He was appointed research scientist in mechanical engineering in 1989 and within UMTRI served as head of the Engineering Research Division from 1989-2003 and interim director from 1987-89 and in 1999.

World-renowned for creating an understanding of the stability and control of heavy trucks, Professor Ervin focused his research on the mechanical performance of motor vehicles and, in particular, the dynamics and control of vehicles as applied to the operation, design, and policy issues affecting traffic safety. Professor Ervin engaged in the conceptual development and evaluation of Intelligent Transportation Systems, and he advanced the field of electrorheological control systems in collaboration with investigators in the College of Engineering. Since 1989, his focus has been on modeling, measurement, and evaluation of active safety technology for motor vehicles.

In 2004, Professor Ervin received the Society of Automotive Engineers' Delco Electronics Intelligent Transportation Systems Award in recognition of his outstanding leadership and contribution to the advancement of intelligent transportation systems. He served as project director and principal investigator of approximately 130 grants and contracts and co-founded the Industrial Affiliates Program in Electrorheology, the Intelligent Vehicle Highway Systems program, and the ITS Research Center of Excellence. As head of the Engineering Research Division of UMTRI, he provided outstanding leadership and served for many years on the UMTRI Executive Committee.

The Regents now salute this faculty member by naming Robert D. Ervin research professor emeritus and research scientist emeritus.

Requested by:

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David I. Friedman, M.D., professor of microbiology and immunology in the Medical School, retired from active faculty status on December 31, 2004.

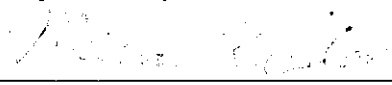
Dr. Friedman received his B.A. and M.D. degrees from the University of Minnesota in 1960 and 1964, respectively. He did post-doctoral work at Purdue University from 1965-66, served at the Walter Reed Army Institute of Research from 1966-68, and completed additional post-doctoral training at the National Institutes of Health from 1968-71. Dr. Friedman joined the University of Michigan faculty as an assistant professor in 1971 and was promoted to associate professor in 1974 and professor in 1977. He was acting chair of the Department of Microbiology from 1983-84 and director of the Cellular Biotechnology Training Program from 1994-2003.

Dr. Friedman studied the interplay of bacterial viruses (phage) and their bacterial hosts to answer basic questions about the molecular biology of the cell. He did pioneering work to characterize the developmental pathway governing growth of phage lambda in *Escherichia coli*, focusing on lytic gene expression regulated by the phage N protein. This led to the discovery of several host factors required for N function, which he called Nus factors, and revealed that regulation of transcript elongation is a key mechanism for controlling gene expression. Dr. Friedman also discovered the *himA* gene, which encodes the Integration Host Factor required for a vast number of important protein-DNA interactions in the cell, and he has been studying the role of phage development in the pathogenesis of enterohemorrhagic *E. coli* (EHEC). He demonstrated that toxin released by these bacteria is dependent on phage lytic growth functions and linked the bacteriophage developmental program to a critical feature of EHEC pathogenesis.

In addition to his numerous scientific achievements, Dr. Friedman was a dedicated teacher. He led the highly-regarded cellular biotechnology training program for ten years, taught a popular course on bacterial genetics, and taught molecular biology to first-year medical students. He was a tireless and generous mentor and friend to numerous students, postdocs, staff, and faculty.

The Regents salute this distinguished scholar by naming **David I. Friedman professor emeritus of microbiology and immunology.**

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Noriko Kamachi, Ph.D., professor of history in the College of Arts, Sciences, and Letters at the University of Michigan-Dearborn, retired from active faculty status on December 31, 2004.

Professor Kamachi received her B.A. degree from Ochanomizu University in Tokyo in 1960 and her M.A. and Ph.D. degrees from Harvard University in 1966 and 1972, respectively. She joined the University of Michigan-Dearborn faculty as a lecturer in 1971 and was promoted to assistant professor in 1972, associate professor in 1976, and professor in 1981.

Professor Kamachi taught numerous courses on Japanese and Chinese history, including Chinese civilization, Japanese society and culture, traditional China, late Imperial China, modern China, traditional Japan, and modern Japan. Her research interests centered on Japanese historiography of modern China, Sino-Japanese relations in the modern period, and cultural identity in an age of nationalism. She has also written numerous articles on East Asian history.

Professor Kamachi has served as a faculty associate with the Center for Chinese Studies since 1973, a faculty associate with the Center for Japanese Studies since 1990, and the director of publications for the Center for Chinese Studies since 1998. She is a member of the Association for Asian Studies, the American Society for Legal History, and the Society for Chinese Legal History in Japan.

The Regents now salute this dedicated and accomplished teacher and scholar by naming **Noriko Kamachi professor emerita of history.**

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Charles C. MacAdam, research scientist in the University of Michigan Transportation Research Institute (UMTRI), retired from active faculty status on December 1, 2003.

Mr. MacAdam received his B.S. and M.S. degrees from the University of Michigan in 1969 and 1971, respectively. He joined the University of Michigan faculty as a research associate in 1971, and was promoted to senior research associate in 1978, assistant research scientist in 1980, associate research scientist in 1988, and research scientist in 2000.

A solid engineering investigator and a well-organized project manager, Mr. MacAdam led UMTRI's Engineering Research Division (ERD) into specialized areas of modeling and analysis that support its focal area of study in vehicle dynamics and control. His early work into field measurement and modeling of the driving process influenced the research trajectory that is now so central to the ERD research program. Mr. MacAdam directed and managed numerous motor vehicle research projects related to the braking and handling dynamics of passenger cars, commercial vehicles, and motorcycles, and he was frequently involved with the development and experimental validation of models and computer simulations used to study vehicle dynamics and driver-vehicle interactions. In 1980, he developed a preview-based steering control model used in numerous vehicle simulation programs to represent the closed-loop steering control behavior of drivers. He was responsible for full-scale test programs and analysis of cross-wind aerodynamics of passenger cars, advanced research into closed-loop driver steering control processes, the dynamics of commercial vehicles, and vehicle-highway design interactions.

Mr. MacAdam enjoyed special prominence in the world's most prestigious organization in vehicle dynamics and control, the International Association of Vehicle System Dynamics (IAVSD). He has published in most of the bi-annual IAVSD international symposia since 1979, and in 1995, he was chair of the 14th IAVSD symposium. He served on the editorial board of the IAVSD journal for many years and was elected to the IAVSD Board of Trustees in 1999.

The Regents now salute this faculty member by naming **Charles C. MacAdam** research scientist emeritus.

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Kurt Metzger, Ph.D., associate research scientist in the College of Engineering, retired from active faculty status on April 30, 2004.

Dr. Metzger received his B.S.E., M.S.E., and Ph.D. degrees from the University of Michigan in 1963, 1966, and 1983, respectively. He joined the University of Michigan faculty as an assistant research engineer in 1966 and was promoted to assistant research scientist in 1974 and associate research scientist in 1987.

Dr. Metzger entered the field of digital signal processing during its infancy and played a significant role in many of the key ocean acoustic propagation measurements made over the last 35 years. In 1978, he worked with fellow researcher John L. Spiesberger to conduct propagation measurements that set the stage for Walter Munk's pioneering ocean acoustic tomography experiment in 1981. These measurements demonstrated that multipath propagation exists in the ocean, that the paths can be identified, and that they are stable and can be tracked. In recognition, he was included in the dedication of the first book published on ocean acoustic tomography. Dr. Metzger was responsible for signal generation and processing of the first receptions for the 1991 Heard Island Feasibility Test (HIFT), in which ship-based acoustic transmissions, originated just off Heard Island in the Antarctic, were received simultaneously on both U.S. coasts and many other glob-spanning receiving sites. Following HIFT, he was one of the principal investigators for the multi-year, ocean-basin spanning Acoustic Thermometry of Ocean Climate measurement.

Dr. Metzger's digital signal processing design laboratory course provided students with a major design experience, and his exceptional dedication to teaching and to his field has encouraged many undergraduate students to pursue careers in digital signal processing. Dr. Metzger presented his work at many conferences and co-authored numerous journal articles. His outstanding contributions are recognized and appreciated by colleagues and former students around the world.

The Regents salute this distinguished scholar by naming **Kurt Metzger** associate research scientist emeritus.

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Andrzej S. Nowak, Ph.D., professor of civil engineering in the College of Engineering, retired from active faculty status on December 31, 2004.

Professor Nowak received his M.S. and Ph.D. degrees from Politechnika Warszawska (Warsaw Technical University) in 1970 and 1975, respectively. From 1976-78, he was a research associate at the University of Waterloo in Canada, and from 1978-79 he was an assistant professor at the State University of New York at Buffalo. Professor Nowak joined the University of Michigan faculty as an assistant professor in 1979 and was promoted to associate professor in 1984 and professor in 1990.

An expert in structural reliability and bridge engineering, Professor Nowak has served as director of the Michigan Bridge and Reliability Research Center since 2001. His major research accomplishments include the development of a reliability-based calibration procedure for calculation of load and resistance factors. This procedure was successfully applied on Canadian Highway Bridge Design Code and British Standard BS-5400. He also made important contributions in the area of bridge diagnostics and evaluation, including analytical load models used for prediction of extreme load events for bridges and buildings and the development of loads on bridges and fatigue load spectra. His proof load test procedure using military tanks saved many bridges and millions of dollars for the Michigan Department of Transportation.

Professor Nowak chaired the doctoral committees for 26 students, organized several major international conferences on reliability and bridge engineering, authored more than 300 refereed publications, and chaired a number of committees associated with professional organizations. He received the University of Michigan College of Engineering Excellence in Research Award, the International Federation for Information Processing WG 7.5 Award, the Polish-American Engineers Association Award, and the Moisseiff Award and an honorary professorship from the American Society of Civil Engineers (ASCE).

The Regents salute this distinguished scholar by naming Andrzej S. Nowak professor emeritus of civil engineering.

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Richard W. Roehl, Ph.D., professor of economics in the College of Arts, Sciences, and Letters at the University of Michigan-Dearborn, retired from active faculty status on December 31, 2004.

Professor Roehl received his B.S. degree from Columbia University in 1963 and his M.A. and Ph.D. degrees from the University of California-Berkeley in 1965 and 1968, respectively. He was an assistant professor at the University of California-Berkeley from 1968-74 and a visiting associate professor at Bowdoin College from 1974-76. Professor Roehl joined the University of Michigan-Dearborn faculty as an associate professor in 1976 and was promoted to professor in 1979.

Professor Roehl's major research efforts and publications concentrated on medieval feudalism and modern European economic development, and he taught courses in American economic history, European economic history, and the history of economic thought. As director of the Master of Arts in Liberal Studies Program of the Dearborn campus (2001-03), he helped develop the core graduate courses for the M.A. degree. He was chair of the Department of Social Sciences from 1978-81 and associate dean of the College of Arts, Sciences, and Letters from 1993-99. Professor Roehl was an active member of the American Economic Association, the American Historical Association, the Economic History Association, the Economics History Society, and the Medieval Academy of America.

The Regents now salute this dedicated and accomplished teacher and scholar by naming **Richard W. Roehl professor emeritus of economics.**

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Eugene F. Stoermer, Ph.D., professor of natural resources in the School of Natural Resources and Environment and research scientist in the Herbarium, retired from active faculty status on January 9, 2005, after a most productive career as a teacher and researcher.

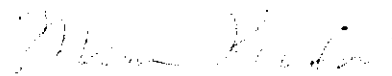
Professor Stoermer received his B.S. degree from Iowa State University in 1958 and his Ph.D. degree from Iowa State University in 1963. From 1963-65, he was a research associate and instructor at Iowa State University. He joined the University of Michigan in 1965 as an associate research algologist, and he served as a research associate taxonomist from 1965-66 and a lecturer from 1969-73. He was appointed associate research scientist in 1973 and associate professor in 1976 and was promoted to research scientist in 1974 and professor in 1985.

With a wide range of scholarly interests, Professor Stoermer's research has examined the physical, chemical, and biological limnology of large lakes such as the Great Lakes and Lake Baikal. However, his major interest centers on diatoms, a group of microscopic algae. Professor Stoermer published broadly on diatoms and is recognized internationally as one of the leading authorities on the taxonomy of these diverse organisms. He introduced many students to diatoms in classes at the University's Biological Station, the Kellogg Biological Station, and the Iowa Lakeside Laboratory.

Professor Stoermer has provided generous service to the academic community. He participated in numerous professional organizations and served as president of the Phycological Society of America and the International Society of Diatom Research.

The Regents salute this distinguished educator and researcher by naming Eugene F. Stoermer professor emeritus of natural resources and environment and research scientist emeritus.

Requested by:


Marvin Krislov

acting as Vice President and Secretary of the University

February 2005