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The University of Michigan

LSA's Frye New Academic VP

Billy E. Frye became the U-M vice president for academic affairs July 1, succeeding U-M President Harold T. Shapiro. He had been dean of the College of Literature, Science and Arts (LSA) since 1976.

Frye joined the U-M in 1961 as a member of the zoology department faculty. After serving as that department's acting chairman in the early 1970's, he was named an associate dean of the College of Literature, Science and the Arts in 1973 for a two-year term, then was designated the college's acting dean in July 1974.

Frye is a native of Georgia. He received his B.A. degree in 1953 from Piedmont College, and holds his M.A. and Ph.D. degrees from Emory University.

"I've always felt that as dean, some of the most interesting work I've done was with faculty in program development," Frye explains. "I think as vice president, there will be an even greater possibility to work in program development with faculty."

John R. Knott, Jr. professor of English and an associate LSA dean, is serving as Acting Dean of the LSA college.

Warner Named U.S. Archivist



Robert M. Warner

Dr. Robert M. Warner, director of the Michigan Historical Collections at the U-M's Bentley Historical Library, has been named archivist of the United States.

The 52-year-old historian, archivist, and author will administer the \$80 million budget of the National Archives and Records Service. He will also supervise 3,000 employees in Washington, D.C., the 15 regional centers nation-wide, and seven presidential libraries. One of those libraries, the Gerald R. Ford Presidential Library, is located on the North Campus.

Warner, a history and library science professor, has been director of the Bentley Library since 1966. He also was chairman of the planning committee for the Ford Library.

Harold Shapiro

Thoughts on the Present, and the Future



Several past presidents of the University participated in the inauguration of the University's tenth president, Harold T. Shapiro. With Shapiro (second from left) are former Interim President Allan F. Smith (left), Robben W. Fleming, and Harlan Hatcher.

The academic and economic viewpoints of the University's new president are reflected in his inaugural address and in the commencement address he delivered at Michigan Technological University, Houghton, in May.

Excerpts from those addresses follow.

On Higher Education

"The ultimate purpose of a general education institution is twofold. The first is to provide students with an understanding of what our society is, how it came to be that way, and how it relates to the larger human family.

"The second is to provide our students with that kind of knowledge and understanding that contributes to their ability to improve their concept of civilization, comprehending that the concrete present is but one alternative. In this context it is clear that not only training in science, but scholarly exposure to history, literature, and philosophy have direct relevance to society's most important goals: this knowledge puts our immediate concerns in the broadest possible human context."

"The relationship between the modern university and society is a very complex and a very fragile one. The complexity and fragility stem from the university's dual role as society's servant and as society's critic.

"On the one hand, the university has the responsibility for training and research functions that serve society's current economic and cultural life. On the other hand, the university has a fundamental responsibility to be critical of society's current arrangements and to construct, entertain, and test alternative visions of organizing society's institutions, alternative approaches to understanding nature, and to rethinking society's values.

"... for the next decades here in

the United States, our research and development capacity is inextricably tied to the health of the research universities."

"Thus, we have responsibility for providing an education that not only develops an individual's technical expertise, but relates an individual's experience to the broad human landscape of which we are a part, and moves people to a purpose and capacity beyond themselves."

"... the overall quality and excellence of Michigan's current programs places it among the relatively few truly distinguished universities, public or private, in this country. Moreover, the University can bear witness to a long tradition of such distinction in education and scholarship.

"This achievement is the result of an enduring and rather unique collaboration between the University's faculty, its students, its alumni and friends, and the citizens of the State of Michigan.

"In the coming decades, we will be challenged to find new ways to materially and intellectually sustain the University, but our strong traditions will help inform us regarding what is appropriate and where our priorities should lie."

"It is easy to talk of distinction, a challenge to actually pursue it, and a great victory to actually attain it. In this effort, we will need the support of all the collaborators in our past success — our sister institutions of higher learning, our alumni and friends, the citizens of the State of Michigan, and of course, our distinguished faculty, staff, and students."

On the Economy

"... continuing inflation, such as that which we have experienced over the last decade, is, at its heart,

not simply an economic problem, but a political problem.

"A persistent inflation can only be sustained in an economic environment characterized by a continuous series of Federal budget deficits financed through monetary expansion or the 'printing of money.'

"Further, our inflation cannot be blamed on [the short-lived impact of] OPEC oil prices, harvest failures, domestic oil cartels, or labor unions ... "we must ask ourselves why it is that our government has persisted, to make the political choice of continuing to run large budgetary deficits and to finance these by increasing the supply of money."

"If we want more investment, someone has to do the saving. Someone has to postpone consumption today to help us invest for tomorrow. If we want more productivity, someone has to work more today to lay a better foundation for our future. If we wish to remain an effective military power in today's world, we must sacrifice certain other current benefits.

"We all believe in energy independence, but some group objects to every viable solution to this problem."

"The solution to sustained inflation is to encourage our public officials to look beyond the immediate pressures facing them and begin to confront the underlying problems and conflicts that create them. Further, we, the electorate, must face up to the implications of our own demands."

"We have become an economy of innumerable bargaining blocks, each one of which, no matter how small, has learned to use our system in order to delay or block any matter not in their own interests ... We have lost our capacity to adopt any solutions that may impose a sacrifice on some particular group."

SNR Graduates Seek Solutions for Environmental Issues

Over the past decade, Americans have come of age environmentally. And U-M has been at the forefront of the movement since it pioneered the nation's first Environmental Teach-In, March 11-14, 1970, preceding the declaration of national "Earth Day" on April 22 that same year.

Enrollment in U-M's School of Natural Resources more than doubled in 1970, and has remained fairly steady at around 900 students through the decade. But the focus of instruction has changed considerably at the school.

Professional Problem-Solvers

"Today we train students who will be equipped to become professional problem solvers in the environmental field," says William J. Johnson, dean of the school. "They will be able to integrate theoretical knowledge with a problem-solving approach that involves trade-offs, negotiations, and compromises.

"At the same time," stresses Johnson, "the traditional scientific and professional strengths of the school have been retained or improved, providing a sound basis for integrative problem solving.

"Environmental problems involve many things in consort. There are no absolute answers or solutions," he adds. "We want to prepare our students to deal creatively with conflicting needs, enlarging all sides rather than diminishing them as usually happens in a compromise."

Grads in the Field

Graduates from U-M's School of Natural Resources are tackling environmental problems across the nation.

In Washington, D.C., Alan Hirsch (Ph.D. '61) plans and manages research activities of seven research centers around the country for the Environmental Protection Agency.

He is currently involved in investigations of acid rain, alternatives to pesticides, and marine pollution.



Mark Torf sets an oil containment boom across a creek to trap a spill which can then be pumped from the surface of the water.

Findings from such research have a direct impact on U.S. environmental policy.

Hirsch says his education from the School of Natural Resources "provided me the broad interdisciplinary capability that's extremely important in doing policy analysis and planning."

Effects of Development

As a wildlife biologist for the U.S. Fish and Wildlife Service in Lansing, Carolyn Shornak Bohan ('76) finds her wildlife and fisheries background from U-M very valuable. Bohan gathers field data from which to assess the effects on wildlife of highways, bridges, power plants, and other development plans.

Toxic spills have become a major problem for our technological society. As an environmental scientist for the Ohio Environmental Protec-

tion Agency, recent graduate Mark Torf ('79) coordinates on-site activities immediately after a spill. His job includes contacting the responsible parties, issuing violation notices, measuring and identifying the spill, ensuring the clean-up meets federal standards, and providing public information.

Although forests and wildlife tend to be associated with natural resources education, urban environment and ecology are equally as important today. Talbert Spence (M.A. '74) directs the environmental education program for the Wave Hill Center for Environmental Studies, New York City.

Spence believes "The school provided a good perspective on environmental education regarding cities and urban areas, placing them in a broader context, and looking at the implications of environmental issues for industry, people, and social justice."

Other U-M graduates across the nation are selecting areas to be classified as wilderness, monitoring land and water use, planning and developing natural recreation areas, lobbying, and fighting legal battles on behalf of the environment.

Tradition of Innovation

The attempt over the past 10 years to base natural resources teaching programs on current environmental priorities follows the tradition of teaching innovation at the school, according to Dean Johnson.

For example, U-M natural resources Dean Samuel Trask Dana was the person who coined the phrase "School of Natural Resources" when the school assumed the title in 1950, having previously been a school of "forestry." In the mid-1960's the school also broke new ground in establishing programs dealing with resources management at the regional and national policy levels, notes Johnson.



Carolyn Bohan gathers field data from which to assess the environmental impact of development.

Research Projects Tackle Problems of Today and Tomorrow

Research is a major function of the U-M, with sponsored research projects last year totalling nearly \$100 million. Projects cover a huge range of topics important to society. Many findings from this research will have a profound impact on all our lives.

An Important Resource

"Teaching and research are closely intertwined," points out Charles G. Overberger, U-M vice president for research. "Learning how to carry out research is part of the process of a graduate student's education.

"In the experimental sciences in particular, part of the learning process is the use of the equipment, the use of instrumentation. In the social sciences, humanities, and arts, the prime thrust of a program may be on methodology: how to collect and then interpret data, how to write, how to conclude something from a collection of data. Both areas are looking for something new; both are trying to create, to invent, to explain.

"Someone, somewhere at the University or elsewhere then will convert that knowledge into something useful. So universities in general are resources for society and the nation," he continues.

"The best faculty — those at the cutting edge of new areas of excitement in any discipline — must have opportunities to carry out their research," Overberger adds.

Here are some examples of the kinds of new knowledge resulting from research now being conducted at U-M:

U-M Dearborn Professor Christopher J. Chestsange has discovered an enzyme, glycosylase, which repairs DNA damage inflicted by X-rays. As a result, physicians may soon be able to determine which patients have low levels of glycosylase, making them overly sensitive to radiation, so that smaller doses of X-rays may be prescribed. This can help prevent damage of DNA from X-rays, which can lead to mutations and cancer.

Arthritis researchers are investigating drugs and therapy to preserve joint cartilage in osteoarthritis, and the body's immunological systems as a way to combat rheumatoid arthritis.

Aging Process

Experiments on cell division conducted by scientists from the School of Dentistry and the Institute of Gerontology may have a significant impact on our knowledge of the aging process. Work so far indicates

that the limits of human life span are programmed into the DNA of the individual cell nucleus, reports Dr. Seong S. Han. The so-called middle-age crisis, generally regarded as a social and psychological problem, may have a physiological basis.

One area of research in the School of Engineering focuses on "ergonomics," the importance of designing machinery which better serves human needs, maximizes performance, and reduces the risk of injury or illness. In many industrial plants, for example, the wheels on equipment-hauling carts are so small they catch in cracks or dirt on the floor, causing injuries to workers because of slipping and overexertion.

Test Stress

Nervousness can keep students from performing up to their capabilities on examinations. U-M researchers have devised effective techniques for reducing student test anxiety — examination jitters commonly manifested in clammy hands, racing pulse, minds gone blank in panic.

Professors in the department of atmospheric and oceanic science are investigating what eventually happens to toxic materials put into the Great Lakes. They are studying lake

currents, sediment, and suspended particles to determine how toxic materials will move through the lakes, and how long they will stay in any part of the food chain.

Sense of Direction

Why do some people have a better sense of distance and direction than others? Prof. John Jonides is studying individuals' spatial orientation and methods for taking in visual information in an unfamiliar environment. The study may have an important impact on training procedures for people whose professions require them to process information quickly and become oriented to new situations immediately. Pilots, navigators, armed services personnel, and law enforcement officers are among those who may benefit. His research has already produced some suggestions about how individuals can improve their own sense of distance and direction.

Very few universities have the ability or tradition in lexicography that characterizes the U-M. Research in this area ranges from the Middle English Dictionary, which U-M scholars began and to which they have contributed over the past three decades, to the historical dictionary of Chinese official titles recently completed by Charles Hucker.

The Vital Margin

A Tradition of Pride

by Michael Radock
Vice President, University Relations
and Development

For many U-M alumni, a Michigan education is a matter of family pride. Each generation continues its family tradition of attendance at the University, and of active support to ensure the continuity of excellence for the next generation.

Such outstanding support is gratifying to all of us concerned with the future of higher education.

Here are the reflections of a few families who are part of Michigan's legacy.

The Armstrong Family

Although most of his relatives were from the Columbus area and went to Ohio State, Hugh Armstrong ('26) wanted to go to Michigan. Mary Armstrong recalls about her late husband:

"Hugh felt he had a good education, and that's why he was so active with the Alumni Association and the Development Council. I've continued his interest with a scholarship fund and Presidents Club activities."

Jack Armstrong ('51, '56) remembers accompanying his father on trips to Ann Arbor, which stimulated his interest in U-M — an affiliation of which he is proud. "The University gave me the ability to be successful in my field," he says.

"I know, as does almost everyone else who thinks about it, that I certainly didn't pay for all I got out of U-M. When a person gets something like that and it has given them the ability to do things in the future, they owe something back to that school."

Jack's daughter, Elizabeth, graduated from U-M in 1977. "Not long ago," Jack relates, "she was going to take some graduate work at another school and was a little nervous about how she'd compete. She concluded in a hurry that the basic music background she got at U-M was better than that of students in a number of other schools' graduate programs."

Jack also has a daughter-in-law, Patricia Markell Armstrong, who has graduated from U-M.

The Brown Family

Regent-Emeritus Robert J. Brown ('26) and his son Robert M. "Bob" ('63) are the first father-son football captains in Michigan history. Regent Brown's brother-in-law, the late George Monroe ('28), was an active Michigan supporter. Bob's wife, Susan Crumpacker Brown ('63), also carries on a strong Michigan tradition that began with her great-great grandfather.

"I chose to go to Michigan because I realized that if I were going to accomplish anything, I ought to be challenged. I wanted to be challenged, and I wanted a good education. I've never been disappointed in that regard," Regent-Emeritus Brown recalls.

"The problem of trying to maintain Michigan as a state-supported school is getting more difficult all the time because of the competition for limited state funds. I don't want my degree degraded because the University has to lower its stan-

dards. I have supported U-M and will continue to do so because I feel it is one of the best schools in the country."

"I would like my children to go to Michigan," Susan says. "I hope perhaps one of them would be the third U-M football captain in the Brown family."

"I have a tremendous amount of pride in U-M, as does my Dad (Owen Crumpacker, '35) . . . Part of our family pride is to do everything we can to keep Michigan Number 1."

The Burkons Family

Harold Burkons ('31, '33) and his son, David ('73), both received medical degrees from Michigan. Both are obstetricians. Harold estimates he has delivered 11,000 babies during his years in practice. He also has time to actively support his alma mater.

"It's obvious that if Michigan is going to maintain its highly rated status in the academic world, it needs a little extra money to work with," he points out. "There are many valuable educational opportunities that can be provided with extra funds."

"We all recognize the tremendous value of higher education. I think those of us who are able to help the University, very often because of the education we received at Michigan, should make every effort to provide it with the proper financial support."

David Burkons explains, "My father's Michigan loyalties influenced me very much. My own sons are U-M prospects."

"The respect with which your education is held by others is a good way to compare its quality. Whenever people are asking questions or exchanging opinions, I'm always asked 'How is it done at Michigan?'"

"So often in the academic world, a certain piece of equipment, or a certain professor, or a certain something will raise your department from one of many good departments to an outstanding one that many people are talking about. Legislatures are hard-pressed to appropriate money for the many things that are in that realm, and other sources of funding are on the decline as well. It's up to us to assure that Michigan remains a leader in higher education."

The Kalmbach Family

Leland J. "Pete" Kalmbach ('23) says, "My two older brothers went to Michigan; I lived only 14 miles from U-M, in Chelsea; I had always gone to the football games, so it was natural for me to attend Michigan." He is pleased that his son, Dohn ('60, '62), also chose Michigan over the eastern schools.

The Kalmbach family has actively supported the University. Pete was one of the volunteers who founded the Presidents Club in 1961 and helped to establish the large-scale development activities of the University that have provided the Vital Margin of excellence for U-M.

"When I went to U-M we had the most outstanding actuarial school in the United States or in North America," Pete recalls. "I feel indebted to the University because of the fine actuarial education I received. Then, there was Professor James Glover who took such interest in his students. If he hadn't directed me, there's no telling where I would have ended up."

"It's important for people to support higher education. The extent to which they do so, I suppose, depends on how they feel about the education they received at the University. Michigan is an outstanding university!"

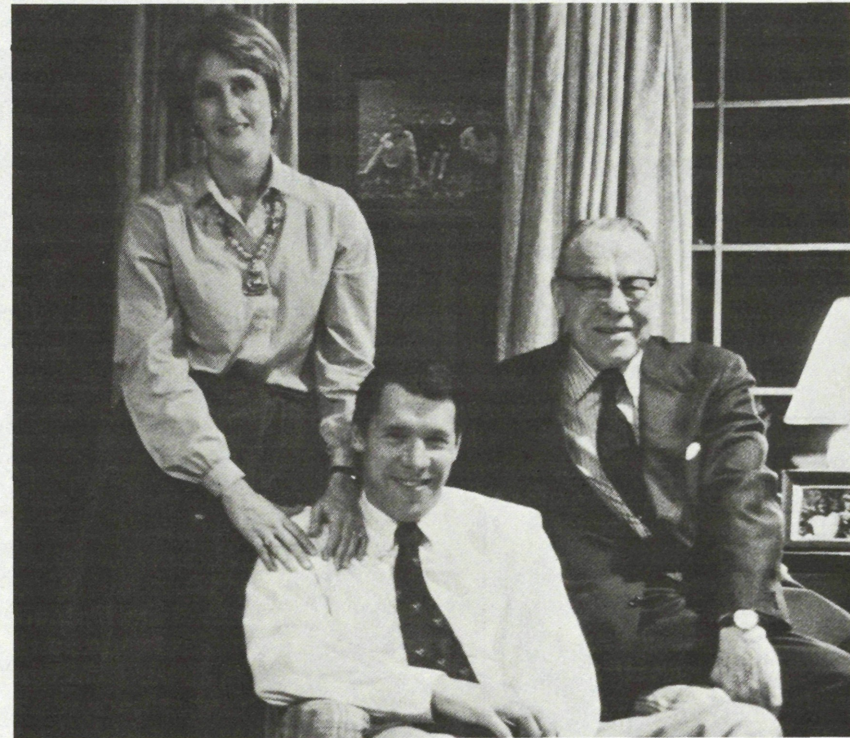
The Armstrong Family



The Burkons Family



The Brown Family



The Kalmbach Family



Groundbreaking Ceremony Sets Dow Engineering Building Underway



Herbert H. Dow (left) and Dr. Harry A. Towsley (right) break ground for the new Herbert H. Dow Engineering Building on North Campus. The Dow Building was made possible through generous gifts from the Herbert H. and Grace A. Dow Foundation of Midland, the Harry A. and Margaret D. Towsley Foundation of Ann Arbor, and other private contributors.

Presiding at the ceremony, Dean David Ragone (center) observed: "This building is a vital part of the College's plans to consolidate all its facilities in modern quarters on the North Campus."

The 63,000 square foot Dow Building will house the departments of Chemical Engineering and of Materials & Metallurgical Engineering. Completion is anticipated in 1982.

Gift Funds Law School Program

A \$100,000 gift to the U-M Law School will establish a fellowship program allowing leading lawyers, government officials, and other public figures to spend time at the Law School. The gift was received from the Helen L. DeRoy Testamentary Foundation of Detroit.

Under the new Helen L. DeRoy Fellowship Program, visiting fellows will spend several days to several weeks at the Law School, presenting lectures and meeting informally with students and faculty, according to U-M Law Dean Terrance Sandalow.

The Foundation also established the Helen L. DeRoy memorial Award, an annual cash award given

to the author of the best student contribution to the *Michigan Law Review*, a law student scholarly journal.

Wolverines Have Winning Spring

U-M athletic teams logged an impressive series of wins this spring. In the biggest surprise of the season, the Wolverines won the Big Ten Baseball Championship and the Midwest Regional Finals.

In track, U-M won the Big Ten Outdoor Track and Field Championships with a record 162 points to defending champion Indiana's 136. The U-M Tennis team won its 13th straight conference title, while the golf team came in second in Big Ten competition.

Ford Library Nearing Completion



Former President Gerald R. Ford was on campus this spring to conduct classes and observe construction progress of the Ford Library. Here he sees how the library lobby is taking shape.

U Hospital Plan Approved

The U-M Regents have approved an architectural plan for the University Replacement Hospital to be constructed on the northeast corner of the medical campus. The "pavilion" plan makes use of six separate but integrated structures on the site. Architects will now prepare schematic drawings of the buildings which will be used to match programs to actual spaces.

The new hospital will be built into the top of the 40-foot ridge leading from the medical campus down to the Amtrak railroad tracks. It will encompass the site of the present North Outpatient Building which will be torn down, along with the Clinical Faculty Office Building.

Hospital planners say the pavilion plan can be constructed more quickly and economically, particularly using "fast-track" construction—letting some construction contracts before all building plans are complete. They say the

north site is advantageous in terms of accessibility and minimum disruption of hospital services during construction.

Scholars to Study in China

Five U-M research scholars, more than from any other American university, are among 31 who have been selected to study and do research in the People's Republic of China during 1980-81. They were selected by the Committee on Scholarly Communication with the People's Republic of China.

The U-M scholars include: Charles L. Brace, professor of anthropology and curator of the Museum of Anthropology; Leslie Corsa, Jr., M.D., professor of population planning in the School of Public Health; Richard Edwards, professor of the history of art; Yi-tsi Mei Feuerwerker, lecturer in the Residential College; and William R. Lavelly, a doctoral candidate in the sociology department's Population Studies Center.

Michigan Today

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