

WESTERN MICHIGAN UNIVERSITY WESTERN NEWS

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Speedy supercomputer to aid in groundbreaking research

The University has unveiled the most powerful supercomputer of its kind in Michigan, a machine WMU purchased with funds that included a highly competitive grant from the National Science Foundation (NSF).

The machine — a sleek “black box” with flashing red lights about the size of a large home-entertainment unit — can perform 1 billion calculations per second. It will help WMU researchers break new ground in computational science and serve as a vast new resource for high-tech industries in West Michigan and elsewhere.

The machine is one of a new kind of computer called a distributed memory parallel supercomputer, which means that it can coordinate the work of many independent processors at the same time. The WMU supercomputer is made up of 128 processors and is 100 times faster than any other computer at WMU.

The nCUBE 2 supercomputer will form the core system of the new Concurrent Computation Research Center, the first of its kind in Michigan, in the College of Arts and Sciences. Interdisciplinary teams of WMU researchers, some working with industry scientists, will use the center to address a variety of scientific problems.

“With the NSF grant and the equipment it helps to support, WMU moves into the big leagues of supercomputing,” said Provost Nancy S. Barrett. “This represents national recognition of our ability to do first-rate work in computational science and thus to serve as a significant resource for both science and industry.”

An early collaboration for the center will be with computational chemists at the Upjohn Co. in Kalamazoo, who will be working on several problems of interest to the company, said Gerald M. Maggiora, director of computational chemistry at Upjohn.

“We see these projects as an opportunity to explore the benefits of parallel computation with the help of knowledgeable faculty experts who are close at hand,” Maggiora said. “It’s an opportunity for both the University and the company to share expertise and solve problems.”

The equipment was purchased with an NSF grant of \$190,175 as well as a grant of \$585,615 from the nCUBE Corp. of Beaverton, Ore., manufacturer of WMU’s supercomputer. The University provided \$125,000 for the project.

“This is a new era of computer technology for both basic and applied research,” said Dean Douglas P. Ferraro, arts and sciences. “It takes advantage of the expertise of our faculty and greatly enhances their opportunities in many fields.”

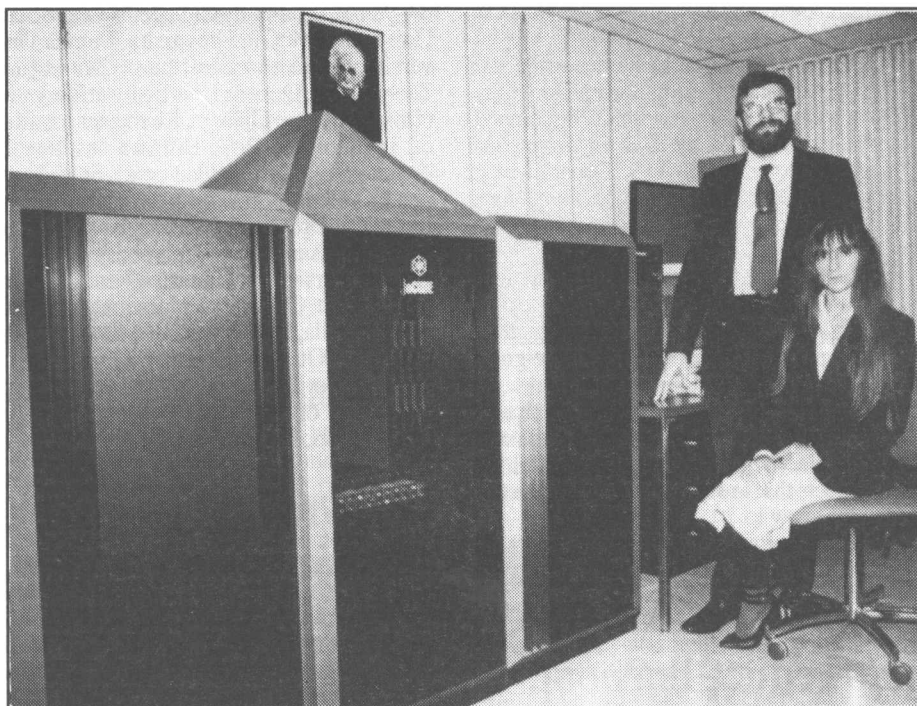
“This new equipment will strengthen our academic programs in computer science, in mathematics and statistics, and other disciplines,” said J. Donald Nelson, chairperson of computer science. “It also will be of direct benefit to students, who will be exposed to some of the most advanced computer equipment in the world.”

The NSF grant proposal was developed by John A. Kapenga and Elise de Doncker, both computer science and center co-directors. Kapenga explained what makes the parallel supercomputer so powerful.

“Rather than make calculations in linear order, one after another, the way conventional computers do, a parallel supercomputer can perform many calculations at the same time — giving it the power to solve more complex problems than conventional machines,” he said.

“The supercomputer is smaller but more powerful than most other computers,” de Doncker said. “The design of these new machines provides performance that exceeds conventional supercomputers at a fraction of the cost. The nCUBE architecture can tie together from eight to 4,096 independent processors into a single unit.”

Users of the new supercomputer will enjoy expanded opportunities to work with researchers at such institutions as the Argonne National Laboratory near Chicago, the Cali-



SUPERCOMPUTER UNVEILED — Elise de Doncker and John A. Kapenga, both computer science, spoke about the great capabilities of the University’s new supercomputer, unveiled at a news conference Feb. 14. The computer, which is housed in Dunbar Hall, can perform 1 billion calculations per second. It will form the core system of the new Concurrent Computation Research Center, which is directed by de Doncker and Kapenga.

fornia Institute of Technology and the Oak Ridge (Tenn.) National Laboratory. Kapenga and de Doncker spent a 1989-90 sabbatical year at Cal Tech, which has the world’s fastest parallel supercomputer.

Coming up with new algorithms — basic mathematical building blocks — to make parallel supercomputer processors work together better is the main focus of the research that Kapenga, de Doncker and others plan to do on the WMU supercomputer.

“Working with our colleagues in many disciplines, we will apply the supercomputer to both new algorithms for solving problems and new science by solving problems,”

Kapenga said.

No fewer than five interdisciplinary projects will be undertaken as part of the NSF grant when additional funding is secured, Kapenga said. They involve faculty members in the departments of computer science, geology, mathematics and statistics, and physics as well as the Institute for Water Sciences.

Kapenga and de Doncker will provide computing expertise to the faculty participants in the five projects. They include: Arthur R. McGurn and Alvin S. Rosenthal, physics; Duane R. Hampton, geology;

(Continued on page four)

Architects support feasibility of park

A report by two local landscape architects has concluded that WMU’s proposed research and business park “could be an appropriate use” of land the University owns in the southwest part of the city of Kalamazoo.

“Investigations to date support the feasibility of the proposed use,” stated the report by O’Boyle, Cowell, Blalock & Associates and Larry L. Harris Associates, both of Kalamazoo.

“In our collective opinion,” the report continued, “the summary of the data collected indicates that there are approximately 295 acres on which development appears to be feasible with minimal impact on more sensitive areas within the WMU land holdings.”

According to the report, preliminary data analysis demonstrated that if concerns about preserving environmentally sensitive portions of the site are met, “the development of a sensitively designed research and business park could be an appropriate use of some or all of the land within the recommended limits of development.”

Sensitive portions include wetlands, steep slopes and areas of heavy tree cover and vegetation, the report noted.

The report represents the first two phases of planning for the proposed park. The WMU Board of Trustees authorized the commencement of planning in April 1991.

“The collected data and analysis from these planning phases will now be used in the next step,” said Richard T. Burke, WMU vice president for regional education and economic development. “This step includes the preparation of alternative development scenarios, the selection of a preferred alternative and the preparation of a summary plan for the park’s development.”

This step will be led by William J. Johnson & Associates of Ann Arbor in consultation with the two local firms. Johnson, who formed a landscape architecture firm 30 years ago, was involved in the highly successful

(Continued on page four)

Satellite uplink opens window to global communication

WMU has begun to provide the region with a space age “window to the world” through its newly installed satellite television “uplink,” benefiting public and private clients alike and making Kalamazoo County a player in global communications.

The uplink — or teleport — can both send and receive television programming to and from any communications satellite serving North America and the Caribbean — and, soon, satellites serving the rest of the world as well.

Kalamazoo is one of only about 175 communities in the nation with teleport capabilities and one of only six communities of its size to have one. Most teleport facilities are being developed by private groups rather than a public institution.

“The potential of this new capability — for education and for economic development — is simply enormous,” said President Haenicke. “We are deeply gratified to be able to provide this kind of service to the people of our region.”

WMU already is offering the state’s only live televised master of business administration degree program through a statewide educational network. The program is being offered by the Haworth College of Business and the Division of Continuing Education.

In addition, the new teleport can be leased by commercial clients such as the Upjohn Co., which will use the teleport to support its own worldwide video communications network, and by public clients such as local school districts, libraries and governments.

“The Upjohn Co. is our first commercial client,” said Frank R. Jamison, WMU technology initiatives. “This is a classic example of cooperation between the public sector and private enterprise, and we look forward to

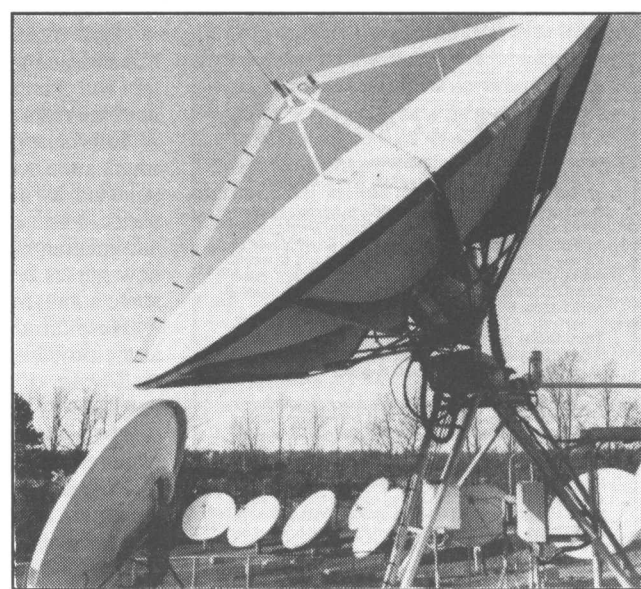
working with many other groups and organizations in the future.”

The teleport will enable the company to transmit live television programming by satellite from its own studios in Portage to Upjohn locations across the country and eventually around the world. The network will later be expanded to directly communicate with Upjohn’s customers and medical professionals.

“Upjohn’s satellite network represents a major commitment to this form of communication,” said Glenn A. Miller, manager of worldwide video communications at Upjohn. “It will put the company on the leading edge of communication capability in the pharmaceutical industry.”

As part of its commitment to global com-

‘WINDOW TO THE WORLD’ — This satellite dish on the antenna farm on East Campus is used to transmit television signals to satellites in orbit over the earth, which then retransmit the signals to ground stations anywhere in North America and the Caribbean. The teleport is being used by WMU for its statewide master of business administration program and is available for lease to clients in both the public and private sectors (WMU media services photo).



WMU race team again seeking 'sun' more for the road

A crew of WMU students will again be relying on the sun to power their car on a cross country race June 20-26, 1993.

WMU is one of two schools in the state chosen to participate in Sunrayce '93, an intercollegiate competition for 36 solar-powered cars. The 1,000-mile rally race will run from Dallas-Fort Worth to Minneapolis-St. Paul. The cars are expected to average 143 miles on each of the seven days.

WMU teamed up with Jordan College near Grand Rapids in a similar 11-day race from Florida to Michigan in 1990. Their car, "Sunseeker," took eighth place and won awards for sportsmanship and innovative design in GM Sunrayce 1990. The team also captured fourth place in the first Solar & Electric 500 and second in the Governor's Cup Solar Challenge, which both took place in Phoenix in 1991.

Jordan College is now devoting its attention to other projects and will not be a partner for the '93 race, but it has offered to consult with the WMU team.

Richard C. Schubert, Energy Research Institute, who is the faculty adviser for the project, says rule changes for the 1993 race "provide a more level playing field for us. We expect to do even better in 1993 than we did in 1990 because we have experience with the type of car required for the 1993 race."

All cars in Sunrayce '93 will use terrestrial grade solar cells, as Sunseeker did in 1990. Some competitors in that race used space age or gallium-arsenide solar cells, which are much more expensive.

The University hopes to raise nearly \$500,000 in cash and materials to fund the design, construction, testing and competition phases of the project.

Schubert is enthusiastic about the edu-

cational value of students' work on the car and in the competitions. "The 1990 race gave our students an opportunity to work with engineers from many different disciplines, and they had to meet the challenge of designing and producing a product — from concept to finished item — on time. They also gained experience in troubleshooting on the spot, organizing and communicating with a wide range of people, and putting into practice what they had learned in the classroom."

"We're excited about the chance to apply what we learned in 1990," said Mark A. Ely, a graduate student from Battle Creek who is the project coordinator. "We'll take the best ideas from Sunseeker and use them in a new car." Ely was part of the GM Sunrayce 1990 team and drove the car in the Governor's Cup Solar Challenge.

Schools were chosen for the race on the basis of proposals submitted in December. Sixty-four schools turned in proposals. The competition is sponsored by the U.S. Environmental Protection Agency, the U.S. Department of Energy, the General Motors Corp., the National Renewable Energy Laboratory and the Society of Automotive Engineers.

Schubert predicts that electric and solar cars will draw increasing interest in the marketplace as issues of global warming, clean air, oil spills and dependence on foreign oil continue to make headlines.

A California initiative mandates that by 1998, 2 percent of all vehicles sold in the state must be electric-powered. By 2010, California expects that in some regions the percentage will grow to 70.

"It's important to demonstrate that solar power really does have potential in the marketplace," Schubert said.

He pointed out that the life expectancy of

solar and electric cars is greater, and maintenance is simpler and less expensive than for conventional gas-burning autos. Solar and electric cars have no radiators, water pumps, carburetors, distributors, exhaust emission systems, hoses, fuel pumps or spark plugs. They require no oil changes — only a battery replacement every two to four years.

Other schools chosen for Sunrayce '93 are: Arizona State University, Auburn University, California State Polytechnic University at Pomona, California State University at Fresno, California State University at Los Angeles, Clarkson University, Colorado State University, Drexel University, Florida Institute of Technology, George Washington University, Iowa State University, Kauai (Hawaii) Community College, Mankato State University, McGill University, Mercer University, New Mexico Institute of Mining and Technology, Queens University at Kingston (Ontario), Reed College, Rochester Institute of Technology, Rose-Hulman Institute of Technology, Stanford University, Stark Technical College, University of California at Berkeley, University of Maryland, University of Massachusetts, University of Michigan, University of Minnesota, University of Missouri at Columbia, University of Missouri at Rolla, University of Oklahoma, University of Ottawa (Ontario), University of Puerto Rico, University of Texas at Austin, University of Waterloo (Ontario) and Virginia Polytechnic University.

Student government delegates to meet here Saturday, Feb. 22

Student government delegates from several public universities will gather at WMU Saturday, Feb. 22, for the first meeting of the Michigan Assembly of Student Associations.

The Western Student Association will play host to the conference, which runs from 9:30 a.m. to 5 p.m. in the Bernhard Center.

More than 35 delegates from eight institutions and the Michigan Collegiate Coalition, a lobbying group in Lansing, are expected. Participants will hear presentations and discuss issues ranging from tuition to dealing with administrators.

Theresa A. Powell, WMU vice president for student affairs, will welcome the delegates. President Haenicke will speak on "The Role of Student Government in the Administration of a University" following a luncheon.

The rest of the speakers will be students from WMU and other state universities. Institutions besides WMU to be represented at the conference are: Central Michigan University, Ferris State University, Grand Valley State University, Lake Superior State University, Michigan State University, Saginaw Valley State University and the University of Michigan at Flint.

The idea for the conference was developed by John D. Fleckenstein Jr., WSA president, and James B. Thelen, WSA vice president, following meetings this past summer with Chris Kemnitz, executive director of the Associated Students of MSU.

Better communication could reduce burnout, solve nursing shortage, says faculty member

Communication could be a key to solving today's nursing shortage, says a WMU faculty member.

Beth Hartman Ellis, communication, has conducted a study that shows nurse burnout can be predicted by looking at how much these professionals participate in patient care decisions. The more they participate, the less likely they are to change jobs or to leave the nursing profession, she says.

"Nurses have a phenomenal amount of responsibility," Ellis says. "But it's not very

won the 1991 W. Charles Redding Dissertation Award given by the Organizational Communication Division of the International Communication Association to the outstanding dissertation of the year.

Although times are changing, Ellis says the question of nurse and physician relations is still largely a male/female issue. Hospital administrators and physicians are traditionally men and nurses are usually women. Until recently, even directors of nursing were men chosen from other administrative posi-

'Nurses enjoy the patient care and the human interaction that it brings, but what they really need is respect from physicians for the nursing profession.'

--Beth Hartman Ellis



often that a physician will ask for a nurse's input."

With nurses providing some 90 percent of the patient care in this country's hospitals, they often are more in touch not only with the patient's medical status but also the patient's emotional health — an important factor in the healing process, she says. Yet, many physicians go about the job of evaluating patients without asking nurses' opinions.

Ellis conducted her study through focus group interviews and questionnaires for her doctoral dissertation, "Nurses' Communicative Relationships and the Prediction of Organizational Commitment, Burnout and Retention in Acute Care Settings." She received her Ph.D. in communication from Michigan State University in 1990, and joined the WMU faculty this past fall. Her dissertation

tions. The rift between the sexes has added to the difficulty in dealing with the problem, Ellis says.

"Nurses enjoy the patient care and the human interaction that it brings, but what they really need is respect from physicians for the nursing profession," she says.

Those new to the nursing profession are particularly vulnerable to burnout, Ellis says. Because nurses' first two or three years are the most strenuous as they cope with high stress, long hours and the loss of patients, lack of communication and input in patient care decisions become added hardships.

Ellis believes that with the intense competition between hospitals for physicians, hospital administrators may downplay the need to improve communication for fear of negative reactions from physicians.

"Not much will happen until administrators force physicians to look at the problem and change," she says. "The change has to come from the top."

Ellis believes if the problem of poor communication between nurses and physicians is couched as a cost-related issue, it should entice administrative action. When put to administrators that money is lost in training new nurses because of high turnover rates, some action may result, she says.

Hospital administrators also need to look at the problem in terms of its effect on the well-being of patients. Ellis says some reports show that there is a higher rate of survival among patients in hospitals with better communicating staffs.

"When put in terms of life and death, communication problems may be dealt with more seriously by the people who run hospitals," Ellis says.

WMUK-FM garners five top news awards in Michigan Association of Broadcasters contest

The news department of WMUK-FM (102.1), the University's public broadcasting service, recently won five top awards in the Michigan Association of Broadcasters' 1992 Excellence in News competition.

The department was recognized with three first-place and two merit awards for its reporting. The winning in-depth sound portraits covered topics ranging from the lives of local homeless people to the rising popularity of karaoke machines in the entertainment world.

Andy Robins received two first-place awards: one in the "Hard News" category for a report on Kalamazoo's homeless; and one in the "Use of Medium" category for a report on the 1991 Medieval Congress at WMU that captured the sounds of a 12th century catapult in action. Robins also received an award of merit in the "Feature" category for his report on a mountain-man rendezvous.

Lorraine Goodrich took first place in the "Feature" category with her examination of the growing popularity of sing-along karaoke machines. The report included her first-person account of the agony and the ecstasy of stepping up to a microphone in a roomful of "your new best friends."

In addition, the entire news staff, comprised of Robins, Goodrich and Tony Griffin, contributed to a four-part series on affirmative action in Kalamazoo that received a

merit award in the "Series" category.

"The quantity of awards is gratifying to us, but perhaps more important are the widely differing areas in which we received recognition," said Richard P. Atwell, WMUK. "They show our success in giving insight into difficult-to-understand topics. To receive such overwhelming recognition of WMUK news' accomplishment is a great source of pride."

Several members of the WMU community were featured in three of the award-winning news stories. Robins' piece on the Kalamazoo homeless included an interview with WMU students who work to raise funds for homeless relief projects. The affirmative action series included interviews with Paul C. Friday, sociology, and Robert L. Betz, counselor education and counseling psychology, who have worked with the Kalamazoo Department of Public Safety to promote sensitivities to minority concerns encountered in the line of duty. Otto Grundler, Medieval Institute, spoke about the Medieval Congress, an international event that attracts scholars and medievalists from around the world each year to campus.

Griffin, Robins and Goodrich, along with Gerrard D. Macleod, WMUK, will attend a ceremony Feb. 25 in Lansing to receive plaques for their achievements. The awards will be presented by United Press International White House Bureau Chief Helen Thomas.



DuBOIS LUNCHEON — Nathaniel McCaslin, left, emeritus in social work, was the guest speaker at the fifth annual W.E.B. DuBois Luncheon Feb. 12 in the Bernhard Center. He met here with Denise N. McDonel, a freshman from Kalamazoo, and Larry Allen Jr., a junior from Benton Harbor, before delivering an address titled "Thinking Black, Reaching Back: Black for Convenience." The luncheon was sponsored by the Black Americana Studies Program, the Office of the Vice President for Administrative Affairs and the Onyx Society of the Alumni Association as part of the University's Black History Month activities.

WESTERN MICHIGAN UNIVERSITY WESTERN NEWS

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Pulitzer Prize-winning author to read from work, lead seminar on children's literature Feb. 26

Pulitzer Prize-winning author Alison Lurie will speak at the University Wednesday, Feb. 26, as part of the Visiting Scholars and Artists Program.

She will read from her work at 8 p.m. in 3750 Knauss Hall. In addition, she will present an informal seminar on children's literature at 1:30 p.m. on the 10th floor of Sprau Tower. Both events are free and open to the public.

Lurie is the author of several novels, including the 1984 book "Foreign Affairs," which won the Pulitzer Prize. Her first book, "Love and Friendship," was published in 1962. That novel and several others, including "The Nowhere City," "Imaginary Friends" and "The War Between the Tates" take place in academic settings. The latter sold almost a million copies in paperback and was filmed for television.

Lurie's most recent novel is "The Truth About Lorin Jones" (1988), which provides a wry and provocative look at female sexual-



Lurie

ity and radical feminism.

In addition to writing fiction, Lurie teaches courses in narrative writing, folklore and children's literature at Cornell University as a professor of English. She has written three books for children and a 1990 series of essays about the classic works in the genre, "Don't Tell the Grown-ups: Subversive Children's Literature."

Lurie also has written two works of non-fiction, including a social and psychological history of fashion, "The Language of Clothes." The recipient of Yaddo Foundation Fellowships, a Guggenheim Fellowship and a Rockefeller Grant, she is the author of articles and reviews for The New Republic, The New York Review of Books and Vanity Fair, among others.

Her visit is being coordinated by the Department of English. For more information, persons may contact Norman E. Carlson, English, at 7-2633.

The Visiting Scholars and Artists Program was established in 1960 and has supported nearly 420 visits by scholars and artists representing more than 65 academic disciplines. The chairperson of the committee that oversees the program is Marcia A. Kingsley, University libraries.

Organizational communication lecture planned

"Ethics and the Study of Organizational Communication: When Will We Wake Up?" is the title of a lecture to be presented Tuesday, Feb. 25.

W. Charles Redding, professor emeritus of communication at Purdue University, will present the free address at 7:30 p.m. in 3770 Knauss Hall. It is being sponsored by WMU's Center for the Study of Ethics in Society.

Redding is considered by many to be the "father of organizational communication." In addition to teaching for more than 45 years, he has been a consultant to some 40

organizations on a variety of problems related to organizational communication.

He was the co-editor and contributing author of the first graduate-level text in organization communication, "Business and Industrial Communication," published by Harper & Row in 1964. He also has written or co-written other books, including "The Corporate Manager's Guide to Better Communication," "Communication Within the Organization" and "Interviewing Principles and Techniques."

At WMU, Redding will lecture on his concern about the relative lack of the study of ethics in the field of organizational communication. Despite the fact that ethics has become one of the hottest topics in corporate America, Redding says few organizational communication textbooks present a detailed treatment of that subject.

For more information, persons may contact James A. Jaksa, communication, at 7-3142.

Consortium panel to focus on diversity in higher education

A panel discussion on "Cultural Diversity in Higher Education in the 1990s" is planned for 4 to 6 p.m. Tuesday, Feb. 25, in Room 4310 at Kalamazoo Valley Community College.

Panelists and their specific topics will be: Earl M. Washington of WMU's Institute for the Study of Race and Ethnic Relations, on racial diversity; Virginia P. Caruso of Nazareth College, on the increasing role of women in higher education; and Barbara Patterson of Davenport College, on socioeconomic diversity.

Following the panel presentations, Chris Latiolais of Kalamazoo College will respond. Sue Cutler of KVCC will serve as moderator for further discussion with panel members and the audience. Refreshments will be served following the program, which is being sponsored by the Professional Staff Development Committee of the Kalamazoo Consortium for Higher Education.

For more information, persons may contact Mary Ann Bowman, WMU faculty development services, at 7-5305.

Fulbright scholar to speak on transportation bottleneck

A Fulbright Scholar from Taiwan will deliver an address at 3 p.m. Wednesday, Feb. 26, in 2010 Friedmann Hall.

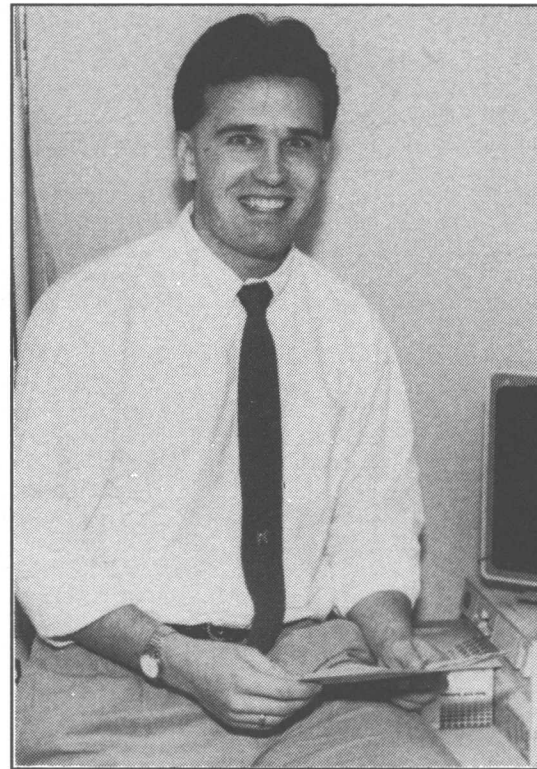
To-Far Wang, professor of economics at National Chung Hsing University in Taipei, Taiwan, will speak on "Economic Impact of a Transportation Bottleneck in Taiwan — A Transport-Constrained Input-Output/Linear Programming Model for Taiwan." He currently is spending his sabbatical at the University of Pennsylvania as a Fulbright Research Scholar.

He is expected to discuss using an input-output model to assess how much the transportation bottleneck in Taiwan has been holding back economic growth. There are many problems with transportation in that country, including congestion and high costs for moving products from the manufacturer to the port.

Wang is a U.S.-trained economist specializing in economic development and input-output analysis. He has published widely in the area of income growth and distribution using econometric and programming techniques.

His visit is being sponsored by the Asian Studies Program and the Department of Economics, and is being coordinated by Wei-Chiao Huang, economics. For more information, persons may contact Huang at 7-5547.

On Campus



SUSTAINING SOFTWARE SUPPORT — Thomas R. Wolf Jr.'s office in the new computing center is quite an improvement over where he spent his first few weeks on the job at WMU. When he joined the staff of what was then administrative data processing three and a half years ago, his temporary office was in a basement tape vault! Now an application programmer/analyst with University computing services, he designs, builds and maintains the software applications that support the various administrative functions of the University. He works with areas ranging from registration and payroll to human resources and University assessment. A 1984 WMU graduate in computer information systems, Wolf worked for an insurance company and a bank before coming back to his alma mater. "Here, I work with someone for a few months, then I'm on to another department," he says. "I'm not stuck in one niche for years — that's so refreshing compared to other jobs I've had."

In his spare time, Wolf participates in Corporate Olympics as the event captain for basketball and tennis. He also is involved in WMU's Zest for Life program and in Gull Lake city league basketball. In addition, Wolf is taking some graduate classes in environmental studies in order to "make more informed decisions about issues to me that are pretty critical."

Media Services

Chrysa K. Richards has joined the Office of Faculty Development Services in Sangren Hall as half-time secretary to coordinator Mary Ann Bowman. Richards transferred from the training and development area in the Department of Human Resources. For information about our faculty development services, call her at 7-5305 between 8 a.m. and noon.

The 30-volume "JVC Video Anthology of World Music and Dance" presents the cultures of more than 100 countries through their unique music and dance and colorful costumes. This series, recently acquired by the University videotape library, is divided

into nine major world regions: East Asia (excluding Japan); Southeast Asia; South Asia; the Middle East; Africa; Europe; the Soviet Union; the Americas; and Oceania. Explanatory booklets are available with each videotape. To arrange for a loan or playback of this series, call the Media Resource Center in Sangren Hall at 7-5070.

Media services and the Upjohn Co. have established a microwave link for use with WMU's teleport to communicate with Upjohn's nationwide facilities (see related article on page one). This new endeavor is representative of relationships we expect to develop with other businesses and industries throughout the region. For information on this new service, contact Frank R. Jamison, Office of Technology Initiatives, at 7-5004.

Obituary

Helen E. Master, emerita in English, died Feb. 8 in Rochester, Minn. She was 93.

Master was a faculty member at WMU from 1921 until she retired in 1962. She taught courses on children's literature, the history of the English language, general literature and rhetoric. She earned her bachelor's and master's degrees from the University of Michigan.

After moving to Rochester in 1968, she became involved in volunteer work as a reader to the blind, a reader in nursing homes and a book mender at the Rochester Public Library. She received the Kiwanian Community Service Volunteer Award in 1976 and Rochester's Volunteer of the Year Award in 1986.

Memorial contributions may be made to the Rochester Public Library.

Human Resources

Essential Communication Skills seminar offered

Do your fingers (or tongue) ever trip you up on your grammar? Here's a chance to learn to avoid some of the common errors we all make from 12:10 to 12:45 p.m. Wednesday, Feb. 26, in the Red Rooms of the Bernhard Center. Joel P. Bowman and Bernadine P. Branshaw, both business information systems, invite you to the second in the Essential Communication Skills seminar series, "Writing With Confidence: Grammar."

All employees are invited to bring their lunch and attend this series, which is sponsored jointly by the Administrative Professional Association, the Clerical/Technical Organization and the Department of Human Resources. Future sessions are: "Knowing Where to Pause: Punctuation," March 11; and "Building Relationships," April 15.

To enroll, call Doris J. Moore, human resources, at 7-3620.

Libraries

WHAT EXACTLY IS WESTNET? The University libraries' computerized system known as WESTNET has proven to be very popular with faculty, staff and students, but some people are still wondering what it's all about.

WESTNET is the umbrella title for the entire online system operated by the University libraries. It contains the online catalog, "FINDER," which replaces the old card catalog. WESTNET also has several other components. "KELLY" is a regional online catalog for libraries located throughout Southwest Michigan. These libraries include school, public, academic and special libraries.

WESTNET also contains a third component, "DATAQUEST I," the place to look for citations to articles in journals. There are currently three DATAQUEST I databases: ERIC, for articles in education journals and the ERIC microfiche collection; ABI/INFORM for articles in business journals; and PsycINFO, for articles in psychology journals.

These databases have many powerful

searching features, such as searching for multiple concepts at once, limiting articles to a certain range of dates or searching for articles in a given language.

Guides on searching all of the WESTNET components as well as how to access the system from outside the libraries can be obtained in the Waldo Library central reference department. For general information on searching the WESTNET databases and on workshops coming up next month, call the University libraries central reference desks or contact Pat Vander Meer at 7-5178.

Media

Benjamin C. Wilson, Black Americana Studies Program, discusses the influence of African-American culture on today's music on "Focus," a five-minute interview produced by news services. "Focus" is scheduled to air Saturday, Feb. 22, at 6:10 a.m. on WKPR-AM (1420) and at 5:45 p.m. on WKZO-AM (590).

Jobs

The following list of vacancies is currently being posted through the Job Opportunity Program by employment services in the Department of Human Resources. Interested benefits eligible employees should submit a job opportunity transfer application or sign the appropriate bid sheet during the posting period.

S-01 and S-02 clerical positions are not required to be posted. Interested University employees may contact an employment services staff member for assistance in securing these positions.

(R) **Director, Residence Hall** (1-5 Anticipated Vacancies), R-05, Residence Hall Life/Residence Hall Facilities, 91/92-281, 2/18-2/24/92.

(R) **Coordinator, CDDA** (Term Ends 3/31/92), P-05, Center for Developmentally Disabled Adults, 91/92-282, 2/18-2/24/92.

(R) **Instructor** (1-Year Appointment), I-40, Finance and Commercial Law, 91/92-

284, 2/18-2/24/92.

(R) **Secretary III**, S-06, Continuing Education-Conferences and Institutes, 91/92-289, 2/18-2/24/92.

(R) **Secretary III**, S-06, Continuing Education-Kalamazoo Off-Campus Programs, 91/92-290, 2/18-2/24/92.

(N) **Secretary Administrative II** (.5 FTE; 20 Hours/Week; Term Ends 8/31/92), S-08, Tate Research Center, 91/92-291, 2/18-2/24/92.

(R) **Secretary I** (Repost; Academic Year and Spring; .43 FTE; 20 Hours/Week), S-04, Psychology, 91/92-166, 2/18-2/24/92.

Please call the Applicant Information Service at 7-3669 for up-to-date information on the Job Opportunity Program and vacancies available to external applicants.

(N) New

(R) Replacement

WMU is an EO/AA employer

Calendar

FEBRUARY

Thursday/20

(thru 21) Student Employment Week.

(thru March 2) Black History Month display, "Achievements of Afro-Americans Past and Present," atrium area, third floor, Waldo Library.

(thru 28) Black History Month art exhibit, "Landscapes, Still Lives and Abstracts," mixed media by James C. Palmore, Kalamazoo artist, 1240 Seibert Administration Building, weekdays, 8 a.m.-noon and 1-5 p.m.

Human resources University Hospital-Medical Plan informational meeting with John Hancock Co. representatives, open to all benefits eligible active and retired employees: 105 Bernhard Center, 9-10:30 a.m. and 3-4:30 p.m.; and Red Rooms, Bernhard Center, noon-1:30 p.m.

Campuswide blood pressure screening: Seibert Administration Building lobby, 9:30 a.m.-2 p.m.; and physical plant, 2:30-3:30 p.m.

(thru 25) Exhibition, paintings by Mary Hatch, Kalamazoo artist, Gallery II, Sangren Hall, weekdays, 10 a.m.-5 p.m.

Student Employment Referral Service "Summer Employment Day," Bernhard Center ballrooms, 10 a.m.-4 p.m.

President Haenicke's open office hours, 3060 Seibert Administration Building, 10 a.m.-noon.

Computer science colloquium, "Building Robust Machine Vision Systems," Brian Mitchell, vice president and director of technology, Cybernet Systems Corp., 3420 Dunbar Hall, 4 p.m.; refreshments, 3:45 p.m.

Mathematics and statistics colloquium, "The Application of Statistical Tools in Quality and Productivity Advancement," Janelle Dombek, senior statistical analyst, Dow Chemical Co., commons room, sixth floor, Everett Tower, 4:10 p.m.; refreshments, 3:45 p.m.

Black History Month play, "1001 Black Inventions," presented by Pin Point Theatre, Washington, D.C., Dalton Center Recital Hall, 7 p.m.

University film series, "Macbeth" (England, 1971), directed by Roman Polanski, 2302 Sangren Hall, 8 p.m.

*(thru 22) University Theatre and School of Music opera production, "Falstaff," Shaw Theatre, 8 p.m.

Friday/21

Campuswide blood pressure screening: Rood Hall lobbies, 9:30 a.m.-1 p.m.

Dance showing, Orchestis Dance Society, Dance Studio B, Dalton Center, noon.

High Noon at Dalton, student chamber music groups, Dalton Center lobby, noon.

Black History Month reception for minority faculty and staff, Fetzer Center, 4-6 p.m.

Psychology colloquium, "Interactive Video Technology Instruction," Howard Farris, psychology, Nancy Lindahl, Kalamazoo Public Schools, and Alan Bain, University of West Australia and Lehigh University, 309 Wood Hall, 4 p.m.

(and 22) "Minifest IV: If It Swings and Pops, Den Dis Is Jazz," featuring lectures by Horace Boyer, professor of music and dance, University of Massachusetts at Amherst, and performances by jazz groups, Dalton Center Recital Hall: Friday, 7:30 p.m.; and Saturday, noon and 7:30 p.m.

*(and 22) Hockey, WMU vs. Lake Superior State University, Lawson Arena, 7:30 p.m.

Saturday/22

Women's gymnastics, WMU vs. Northern Illinois University, Gary Center Gym, noon.

Student recital, Kimberly Hook, oboe, Dalton Center Lecture Hall, 4 p.m.

*Concert, Ivo Pogorelich, piano, Miller Auditorium, 8 p.m.

Sunday/23

Concert, "The Evolution of the Wind Band," University Symphonic Band conducted by Jeffrey Renshaw, Miller Auditorium, 3 p.m.

Student recital, Charlotte Webb, mezzo-soprano, Dalton Center Recital Hall, 4 p.m.

Monday/24

(thru March 20) Traveling exhibit, Southwest Michigan chapter of the American Institute of Architects, "Award-Winning Buildings in Southwest Michigan," 3008 Kohrman Hall, weekdays, 8 a.m.-9 p.m.

Black History Month brown bag lunch, "Black Women Political Activists," JoNina M. Abron, English, lower level, Kanley Chapel, noon-1 p.m.

Black History Month lecture, "A Journey Through South Africa: September 1991," Charles Moody Sr., vice provost for minority affairs, University of Michigan, and his wife, Christella, 3770 Knauss Hall, 3:30 p.m.

Presentation by candidate for the proposed School of Nursing, "Challenges and Opportunities in Nursing Education Now and in the Future," Fay Carol Reed, dean and professor of nursing, Ohio Wesleyan University, Fetzer Center, 4 p.m.; reception following.

Guest artist recital, Silvia Kahane, piano, Dalton Center Recital Hall, 8 p.m.

Satellite uplink *(Continued from page one)*

Council, Downtown Kalamazoo Inc., the Upjohn Co., the Kalamazoo Public Schools, the Kalamazoo Valley Intermediate School District, the Kalamazoo Public Library, the First of America Bank Corp., Kalamazoo Valley Community College, Davenport College, Kalamazoo College, Cablevision of Michigan, the Community Access Center, Kalamazoo Center Holdings and the Radisson Plaza Hotel.

Meanwhile, a WMU faculty member, Andrew S. Targowski, business information systems, has been working with the management information systems department of the city of Kalamazoo to help develop a countywide geographic information system, which would benefit by fiber-optic technology. He recently published an article on the "wired city" in a major international journal.

The teleport became operational in January in cooperation with the Michigan Information Technology Network (MITN). Its installation was a joint effort of the Department of Telecommunications and the Division of Media Services at WMU. The MITN is made up of the state's five leading research-oriented universities, including WMU.

The MITN, a not-for-profit corporation set up by the state, paid the \$700,000 cost of the teleport and leases it to WMU, which in turn can lease it to others who have a need to transmit live television. Potential clients include TV stations, cable networks, corporations, governments, schools and communities.

WMU's is the only satellite teleport in Southwest Michigan, Jamison said. In addition, it is the only teleport in West Michigan with the ability to "scramble" or encrypt its signal so that only authorized receivers may use it. WMU also can offer a full range of television produc-

tion capabilities to its clients.

The two-way capability of the teleport allows WMU to distribute programming it produces or receives to local and area recipients, using a combination of fiber-optic cable and microwave transmission, Jamison said.

Super *(Continued from page one)*

Michael R. Stoline and Joseph W. McKean, mathematics and statistics; and Michael J. Barcelona, Institute for Water Sciences.

"One reason we got the NSF grant is that it involved so many scientifically important interdisciplinary projects," Kapenga explained. "We competed against the biggest institutions in the country, and only one in 10 projects gets funded. We're really thrilled."

Park *(Continued from page one)*

Oakland Technology Park in Auburn Hills.

"Bill Johnson's experience at Auburn Hills, his environmental and design sensitivity and his reputation for working well with a wide range of community interests are major reasons WMU selected his firm to head this phase of park planning," Burke said.

Besides the Oakland Technology Park, Johnson also has designed a number of college campuses as well as other business parks. In 1986, he received the Medal of Honor from the American Society of Landscape Architects. He was for 10 years dean of the College of Natural Resources at the University of Michigan.

The park is proposed for about 300 of the nearly 600 acres of land the University owns in the southwest part of Kalamazoo. A small portion of the land lies within Oshtemo Township.

Tuesday/25

Human resources University Hospital-Medical Plan informational meeting with John Hancock Co. representatives, open to all benefits eligible active and retired employees: 105 Bernhard Center, 9-10:30 a.m. and 3 to 4:30 p.m.; and Faculty Dining Room, Bernhard Center, noon-1:30 p.m.

(thru 28) Exhibition, "A Blurp in the Medium," multi-media installation by Jennifer Hord, WMU art student, Multi-Media Room, Dalton Center, 10 a.m.-5 p.m.; closing reception, Friday, Feb. 28, 5-8 p.m.

Physics colloquium, "Combining a Linear Collider With a Heavy Flavor Factory," Sekazi K. Mtingwa, Department of Physics, North Carolina Agricultural and Technical State University, 1110 Rood Hall, 4 p.m.; refreshments, 3:30 p.m.

*Black History Month play, "The Meeting," with Von H. Washington, theatre, as Malcolm X, and John McCants, Civic Black Theatre, as Martin Luther King Jr., Dalton Center Recital Hall, 7 p.m.

Center for the Study of Ethics in Society lecture, "Ethics and the Study of Organizational Communication: When Will We Wake Up?" Charles Redding, professor emeritus of communication, Purdue University, 3770 Knauss Hall, 7:30 p.m.

Wednesday/26

Human resources University Hospital-Medical Plan informational meeting with John Hancock Co. representatives, open to all benefits eligible active and retired employees, 105 Bernhard Center, 9-10:30 a.m., noon-1:30 p.m. and 3 to 4:30 p.m.

Training and development luncheon seminar, "Essential Communication Skills, Part II — Writing With Confidence: Grammar," Joel P. Bowman and Bernadine P. Branchaw, both business information systems, Red Rooms, Bernhard Center, 12:10-12:45 p.m.

School of Music Convocation Series concert, Western Jazz Quartet, Dalton Center Recital Hall, 2 p.m.

Visiting Scholars and Artists Program lecture, "Improving America's Service," Leonard L. Berry, director of the Center for Retailing Studies and holder of the J.C. Penney Chair of Retailing Studies, Texas A&M University, Fetzer Center, 2:30 p.m.

Student Employment Referral Service "Internship Search Workshop," conference room, first floor, Ellsworth Hall, 3-4:30 p.m.; registration required by calling 7-2725.

Economics lecture, "Economic Impact of a Transportation Bottleneck in Taiwan — A Transport Constrained Input-Output/Linear Programming Model for Taiwan," To-Far Wang, professor of economics, National Chung Hsing University, Taiwan, 2010 Friedmann Hall, 3 p.m.

Biological sciences seminar, "Regulation of Fatty Acid Synthase Gene Expression," Susan R. Stapleton, chemistry, 5270 McCracken Hall, 4 p.m.

Black History Month gospel concert, Dalton Center Recital Hall, 7 p.m.

Visiting Scholars and Artists Program presentations by Pulitzer Prize-winning author Alison Lurie: informal seminar on children's literature, 10th floor, Sprau Tower, 1:30 p.m.; reading from her work, 3750 Knauss Hall, 8 p.m.

Thursday/27

*(and 28) Black History Month play, "The Meeting," with Von H. Washington, theatre, as Malcolm X, and John McCants, Civic Black Theatre, as Martin Luther King Jr., Dalton Center Recital Hall, 7:30 p.m.

*Admission charged



SERVICE WEEK — Students involved in volunteer service projects were honored at a reception Feb. 13 in the Bernhard Center. The event was part of Service Week, which took place Feb. 10-13 and was designed to encourage student volunteerism. From left, President Haenicke recognized the week's co-chairpersons, who are members of the student volunteer services board, Tricia Rapson, a sophomore from Bad Axe, and John J. Bursch, a sophomore from Grand Ledge, as Dean Faith Gabelnick, Lee Honors College, and Julie A. Wyrwa, student volunteer services, looked on. Activities during the week ranged from a collection of toiletries for the YWCA Domestic Assault Shelter to a panel presentation on volunteer opportunities with children and at-risk youth.

Student-run restaurant open in Kohrman Hall

Healthful meals served in surroundings that bear a touch of Japan are in store for Kalamazoo area lunch crowds visiting a special student-run restaurant now open.

Kimonos, a restaurant operated by students from the Department of Consumer Resources and Technology, will be open for lunch from 11:30 a.m. to 12:30 p.m. Tuesdays and Thursdays through April 16 in 3004 Kohrman Hall.

This is the fifth year of operation for the popular restaurant that is designed to give students in food service and interior design programs an opportunity to gain required experience for their future professions. The food is prepared and served by dietetics and food service majors enrolled in a "Quantity Foods" class taught by Donna VanWestrienen, consumer resources and technology.

The decor is the product of senior studio interior design students, who based their plans on a number of Japanese kimonos that were loaned for display in the restaurant. The design students worked under the guidance of Mary Jo Peterson, consumer resources and technology.

The luncheon menu varies daily at Kimonos and reservations are required because of limited seating. To make reservations or for more information, persons may call the Department of Consumer Resources and Technology at 7-3704.

Open office hours today

President Haenicke will conduct open office hours from 10 a.m. to noon Thursday, Feb. 20, to provide students, faculty and staff members with the opportunity to stop by and visit with him on any topic of concern.

Haenicke plans to be available in his office, 3060 Seibert Administration Building.

Individuals may visit without making an appointment and will not be restricted in time unless others are waiting. In that case, a time limit of 10 minutes will be imposed.

Persons may call the Office of the President at 7-2351 to make sure Haenicke is on campus prior to visiting during the allotted time.