

WESTERN MICHIGAN UNIVERSITY WESTERN NEWS

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November 19, 1992

Centers for Excellence will enhance research capabilities

Following a campuswide competition, three interdisciplinary research and development centers have been established to enhance the University's ability to develop new technologies and products.

The three "Centers for Excellence," which will capitalize on existing campus research strengths, were the winners in a spring competition that attracted six proposals drawing on the resources of departments from across the University. The new centers are: the **Enabling Technology Center**, directed by Christine M. Bahr, special education; the **Water Resource Research and Development Center**, directed by Michael J. Barcelona, chemistry and Institute for Water Sciences; and the **College of Arts and Sciences Geographic Information Systems Research Center**, directed by David G. Dickason, geography.

According to Donald E. Thompson, vice president for research, the three competition winners will focus on basic and applied research projects that will create an infrastructure to make WMU nationally and internationally competitive in the development of new technologies and products in areas that have significant economic development potential. Each center will receive support from the University of up to \$175,000 over its first two years of existence.

"All of these centers, which are staffed with proven researchers," Thompson says, "bring together expertise that can readily contribute to Michigan's economy through research, product development and training. And the energy and enthusiasm of these faculty members suffuse the University's research enterprise."

Of the three new centers, the **Enabling Technology Center** may draw from the broadest array of academic disciplines. Researchers from 11 departments and units in three colleges will collaborate to address the education, employment and independent living needs of persons with disabilities. The center will use emerging technology to promote WMU's already substantial reputation in the field of enabling technology.

The proposal for the center was a collaborative effort by the colleges of education, engineering and applied sciences, and health and human services. Participating departments currently include: blind rehabilitation; electrical engineering; engineering technology; health, physical education and recreation; industrial engineering; mechanical and aeronautical engineering; occupational therapy; special education; and speech pathology and audiology. Also involved are the Office of Handicapped Student Services and University computing services.

Researchers at the center will study the use of enabling technologies for individuals with disabilities and will design, develop and market new products to meet their education, employment and independent living needs. The center also will provide information, training and technical assistance to education, business and industry, government and community constituencies in West Michigan.

"The time is ripe for new enabling technology research, development, training and service initiatives," says Bahr, citing implementation of the federal Americans with Disabilities Act as a sign of the intense interest in the field. "This new law is generating tremendous need among businesses and industries nationwide for information, training, clinical assessment and product development in support of its implementation."

One of the center's main goals, Bahr says, is to foster collaborative research among faculty by providing researchers with the time and access to each other's work and

support that will foster development of new project proposals. Anyone interested in developing projects that focus on research, development, training and service in the area of enabling technologies is welcome to become part of the center.

The **Water Resource Research and Development Center** will draw on the expertise of faculty and staff in the Institute for Water Sciences and a number of departments, primarily in such disciplines as geology, chemistry, mathematics and geography. The center is designed to capitalize on WMU's past work in assessing and protecting Michigan's water resources. Its staff will research and develop new analysis techniques that can be used to solve critical water resources problems as well as develop commercially available products to address those problems. Such products would spur economic development in the state when they are transferred to the water industry and to government and private sector firms.

According to Barcelona, the main areas of focus for the center will be environmental chemistry, environmental geophysics and isotope geochemistry. The University, he says, recently has expanded the capabilities of its Water Quality Laboratory, established an advanced Stable Isotope Laboratory and acquired such new equipment as an isotope ratio mass spectrometer and ground penetrating radar. The new research capabilities should be attractive to industry in the region, and a major goal of the new center will be to expand external use and financial support of the facilities.

The equipment also will allow University researchers to venture into new arenas, such as the investigation of food tampering problems and food additive analysis for the region's food manufacturers.

An additional area of emphasis will be improving the University's hydrogeological field test site near Asylum Lake. The site is used for educational programs and research on contaminant detection, as well as for equipment calibration, evaluation and demonstration.

The **College of Arts and Sciences Geographic Information Systems Research Center** will build on five years of University research and expertise in the use of such computer systems. These systems combine traditional geographic data with layers of digitized satellite information to offer customized information about an area that can be used by local planners to make resource management decisions.

"A revolution has occurred in the geographic sciences during the 1980s," says Dickason, who has supervised WMU's efforts in the GIS arena since 1987. "The methods of GIS and digital remote sensing, which have really come of age only in the last several years, will progressively affect how institutions of all kinds manage themselves. In the future, the separation of public and private decisions may become blurred because they will increasingly be based on the same GIS and remote sensing data."

The center will operate at several different geographic levels to offer academic research on GIS methods, training to prospective GIS users and GIS products such as customized maps that can be used by public and private decision makers to enhance economic development in the region. The center also will serve as a focal point for infrastructure management in West Michigan, with WMU researchers working closely with government units and agencies already involved in planning through use of GIS.

Bartley elected president of WMU-AAUP chapter

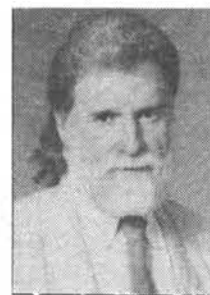
Lynwood H. Bartley, communication, and Charles E. Hines, accountancy, have been elected president and vice president, respectively, of the WMU chapter of the American Association of University Professors. Their two-year terms will begin in January.

Bartley succeeds Shirley C. Woodworth, communication, who will remain a member of the WMU-AAUP executive committee as immediate past president. Hines succeeds Phillip P. Caruso, economics.

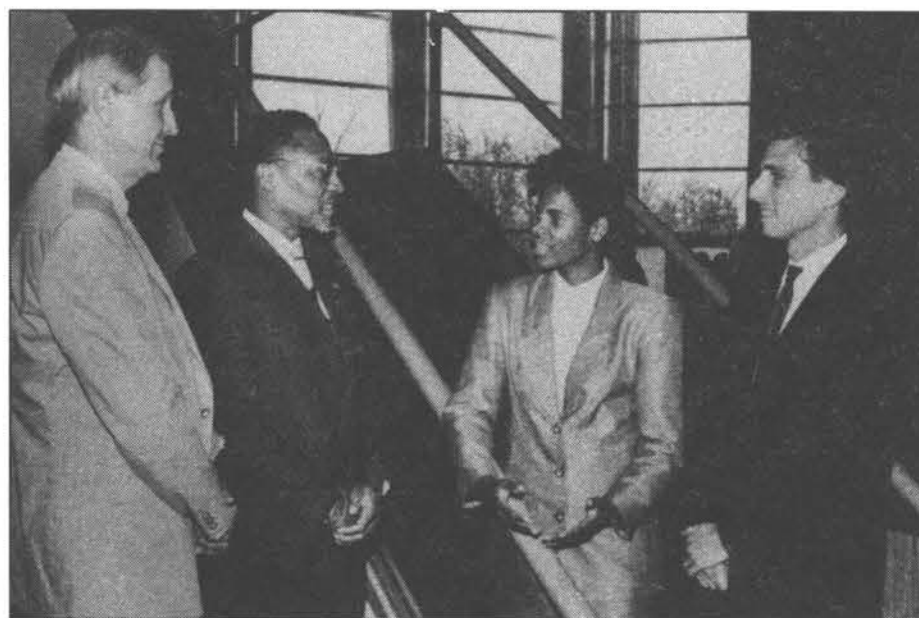
Five other executive committee positions also were on the ballot. Those elected to two-year terms were: William W. Combs, English, representing the College of Arts and Sciences—Humanities; Linda M. Delene, marketing, representing the Haworth College of Business; Dona G. Icabone, special education, representing the College of Education; Edward J. Pawlak, social work, representing the College of Health and Human Services; and Darryl A. Salisbury, Career English Language Center for International Students, representing the Association of Language Specialists.

No News published Nov. 26, last issues are Dec. 3 and 10

There will be no *Western News* published Thursday, Nov. 26, due to the Thanksgiving holiday. The last two issues of the *News* for the fall semester will be published Thursdays, Dec. 3 and Dec. 10. The deadline is at noon on the preceding Tuesday.



Bartley



Race relations conference draws large crowd

AT RIGHT: Participants in the conference, "Aftermath of the L.A. Riots — Lessons in Race Relations," filled the auditorium in the Haworth College of Business building nearly to capacity Nov. 11. Organizers of the conference, which was sponsored by WMU's Institute for the Study of Race and Ethnic Relations and the Kalamazoo Gazette, took some 400 registrations and had to turn away another 150 people. **ABOVE:** The conference speakers gathered before the event in the Fetzer Center, where small group discussions took place. They were, from left: James R. Mosby Jr., editor of the Gazette; Earl M. Washington, director of the institute; Lynnette M. Khalfani, a staff writer with the Associated Press in Los Angeles; and Jonathan Tilove, who covers race relations for the Newhouse News Service in Washington, D.C. A videotape of the conference is airing on EduCABLE. For times, see "Media" on page three.



Deming speech to be telecast live for campus viewing

W. Edwards Deming, internationally known proponent of Total Quality Management, will be in Kalamazoo to address the CEO Council's Associates for Progress on Wednesday, Nov. 25. His presentation will be telecast live from 12:20 to 1:15 p.m. and may be viewed in the Red Rooms of the Bernhard Center. To reserve a place, call the Office of the President at 7-2351.

Deming's presentation, "Consistency of Purpose for Leadership," is of special significance to Kalamazoo's business, community and governmental leaders as they position themselves in today's globally competitive environment, and to the University as it moves toward TQM. This is an opportunity to learn more about the TQM system that is revolutionizing the way people do business. Deming's appearance is sponsored by General Motors-BOC. The feed to WMU is being provided by media services.

Electronic conference offered on motivation and TQM

A special electronic conference on motivation will begin Sunday, Nov. 22, on the University's VAX computer.

The conference will bring together members of the University community and experts from outside to discuss the differences between motivating employees in the public and private sectors. Special consideration will be given to Total Quality Management, a system that is currently being considered at WMU.

"The purpose of the conference is to get people started thinking about motivation and TQM and to pull them into the discussion," said Mike Keenan, management, who is organizing the conference.

Keenan, who uses computer conferencing to conduct classes each semester, said this conference is an experiment. It is the first time a short electronic conference has been offered at WMU with experts from the outside. If successful, more topics may be offered at a later date.

Guest commentators will be David S. DeShon, director of WMU's School of Public Affairs and Administration, Richard Beers, a management consultant, Teresa Nelson, a political consultant, and staff members from the Upjohn Co.'s Quality Center.

Persons with accounts on the VAX should type CONFER MGMT-MOTIVATE at the dollar sign. The conference will run through Sunday, Dec. 6, and may be extended if there is sufficient activity.

Grants available for integrating community service

Faculty members interested in working to better integrate community service in the curriculum are invited to apply for a new grant program through student volunteer services.

The Service-Learning Curriculum Development Grants, funded through Campus Compact, range from \$500 to \$1,500. They are intended for the development or expansion of courses that address the connections between service, public policy and civic participation.

A faculty roundtable discussion on these grants and on other initiatives under way in the community service area is planned for 10 to 11 a.m. Tuesday, Dec. 1, at the Lee Honors College.

Faculty members should submit grant proposals by 5 p.m. Friday, Dec. 18. Projects may include, but are not limited to, curricular



OLYMPIC GOLD — Representatives from the two WMU-Zest for Life Corporate Olympics teams were highlighted during halftime of the Nov. 14 football game for winning first place in their division of this year's competition. This was the second year the teams have brought home the gold cup trophy. A total of 91 persons from all employee groups participated on the teams this fall. Present at the halftime recognition were: (first row, from left) Laurie Lukaszewski, registration; Sherry LaRoy, registrar's office; Theresa J. Landis, Zest for Life; Joseph J. Hulsebus, University computing services; Halbert E. Bates, Martin Luther King Jr. Program; Linda L. Powell, health, physical education and recreation; (middle row) Anne Cline, Sara Swickard Preschool; Mary E. Ramlow, Evaluation Center; Dawn J. Papesch, University wellness programs; (back row) John Disbro, physical plant-L/G maintenance; John S. Stanford, physician assistant; Ronald C. Kramer, sociology; Gregory B. Lozeau, University computing services; Cindy A. Volk, admissions and orientation; Mark C. Kerstetter, computer science; Michael L. Smith, news services; Gregg McChesney, physical plant-L/G maintenance; Richard L. Daudert, human resources; Thomas R. Wolf, University computing services; and Patrick L. Northrop, Waldo Library.

Nobel Prize-winning physicist to speak Dec. 2-3 as part of Visiting Scholars and Artists Program

Nobel Prize-winning physicist Norman F. Ramsey will discuss atomic and molecular physics at the University Wednesday and Thursday, Dec. 2-3, as part of the Visiting Scholars and Artists Program.



Ramsey

Ramsey, the Higgins Professor of Physics at Harvard University, will present his ideas in a lecture titled "Time and the Physical Universe" at 8 p.m. Wednesday, Dec. 2, in 1104 Rood Hall. He also will lead a physics colloquium, "Experiments on Time Reversal Symmetry and Parity," at 4 p.m. Thursday, Dec. 3, in 1110 Rood Hall.

The first talk is designed to be more general in nature and will focus on atomic

clocks — instruments that measure time with the greatest accuracy and stability by depending on internal interactions of an atom. Ramsey will discuss new developments with atomic clocks as well as their importance in astronomy, physics, navigation and communication.

Ramsey has taught at Harvard since 1947. His experimental work there has ranged from molecular beams to particle physics. He and his associates have made several discoveries and inventions. Ramsey's invention used in the hydrogen maser (microwave amplification by stimulated emission of radiation) and other atomic clocks earned him the Nobel Prize in 1989.

Other awards Ramsey has received include the Presidential Certificate of Merit in 1950, the Columbia Award for Excellence in Science in 1980 and the National Medal of Science in 1988.

His visit is being coordinated by the Department of Physics. For more information, persons may contact Nora Berrah-Mansour at 7-4941.

The Visiting Scholars and Artists Program was established in 1960 and has supported more than 430 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.

College seeking holiday gifts for clients in local agencies

The College of Health and Human Services is collecting holiday gifts for the needy clients in three local agencies and invites the University community to participate in the project.

The agencies and suggested gifts are: Center for Developmentally Disabled Adults — winter hats or gloves, combs, brushes, after-shave, perfume and other personal items; Boys and Girls Club (ages six to 18) — scarves, gloves, hats, toys and games; Hispanic American Council — toys, holiday food baskets and winter clothing, especially for children.

Items should be new, gift-wrapped and labeled for the agency, age group, sex, size and any other relevant information to help distribution. Gifts may be delivered to the college office, B-124 Henry Hall, before Tuesday, Dec. 15. For more information, persons may contact Hazel L. Starcher in the college at 7-2654.

Students plan day of fasting to raise funds for Somalia

A group of WMU students is asking members of the University community to join in a fast on Monday, Nov. 23, to raise money to buy relief goods for Somalia. Those who wish to participate can pick up pledge cards in the residence halls or the Bernhard Center. The funds raised will be sent to Oxfam America, an agency that works to provide food, shelter, health care and education to the world's poor.

The pledge drive is being sponsored by the South African Solidarity Organization, the Bertha Capen Reynolds Society and students in the master of social work program. For more information, persons may contact Donald F. Cooney, social work, at 7-3190.

APA holiday party is Dec. 3

The Administrative Professional Association is planning a holiday dinner and dance for Thursday, Dec. 3, at the Holiday Inn-West.

The evening will begin with a reception in the Holidome at 6 p.m., followed by a buffet dinner at 7 p.m. A disc jockey will provide music for dancing from 8:30 to 10:30 p.m.

Tickets are \$12.50 per person. Professional/technical/administrative staff members who would like to attend should call Margee L. McDade at 7-4835 or Marilyn T. Coe at 7-4160 as soon as possible.

Holiday tree lighting set

A holiday tree lighting has been scheduled by the Division of Student Affairs for Monday, Nov. 30. The event will begin at 6 p.m. at the fine arts plaza and will include caroling as well as a visit by St. Nick. The University community is invited to attend.

HHS faculty and students to report on scholarly activities

Research and scholarly activities in the College of Health and Human Services will be presented during a day-long meeting Friday, Dec. 4.

The annual Research and Scholarly Activities Day will run from 9 a.m. to 5 p.m. in Red Room B of the Bernhard Center. Faculty members and students from the blind rehabilitation, occupational therapy, speech pathology and audiology and physician assistant departments as well as the schools of social work and community health services will make presentations.

C/TO selling poinsettia plants

The Clerical/Technical Organization is sponsoring its fourth annual poinsettia sale through Wednesday, Dec. 2. Persons can order the five-to-seven-blossom plants by filling out the form distributed through campus mail or by calling Cindy Zimmerman, funds management, at 7-4241.

The colors available are red, white, pink, marble (pink with white) and jingle bells (red with white specks). The cost is \$7 per plant.

Orders will be available for pick-up from noon to 1 p.m. and 5 to 6 p.m. Wednesday, Dec. 9, in 208 Bernhard Center.



RESOURCES AND SERVICES FAIR — Faculty and staff members had an opportunity to learn about the work of many University departments during the "WMU and You" resources and services fair Nov. 10 in the Bernhard Center. From left, Wil B. Emmert, Office of the Vice President for Research, and William H. Cotton, WESTOPS, learned about the Center for Research on Educational Accountability and Teacher Evaluation from Kathleen M. Hueser, who works on that project in the Evaluation Center. More than 30 units were on hand at booths and exhibits to show colleagues how to benefit personally and professionally from the services they offer.

WESTERN MICHIGAN UNIVERSITY WESTERN NEWS

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Western News is distributed without charge to faculty and staff members, retirees and friends of the University, and is available at several campus locations.

Deadline: Items to be considered for publication should be submitted to News Services by noon Tuesday of the week of publication. Offices that receive too many copies — or too few copies — are asked to call 387-4100. WMU is an equal opportunity/employer/affirmative action institution.

Pilot version of Computer Competency Test ready

A new test that could help students satisfy the University's computer literacy requirement is now available in the public computer laboratories in the University Computing Center and the Bernhard Center.

A pilot version of the Computer Competency Test in either Macintosh or IBM-compatible formats can be taken at a computer terminal. The test is currently designed as a trial run so that volunteers can work the bugs out of the system. Once its designers receive feedback and determine its effectiveness, the test will be available through University computing services by appointment for continued pilot testing. Subject to future curriculum policy changes, the test eventually should help students meet the University's computer literacy requirement.

In 1983, WMU established a policy requiring students to be computer literate upon graduation by passing a proficiency test, completing a computer usage course or meeting proficiency standards set by the college in which a student is majoring. Until now, a hands-on test specifically designed to measure a student's computer knowledge did not exist.

The Computer Competency Test Committee, established by the Faculty Senate's Undergraduate Studies Council, developed the working model under the leadership of John P. Flynn, social work and University computing services.

New faculty member in art wins statewide award for leadership and creativity

Edward M. Jacomo, art, has been named the winner of the Arts in Education Award in the 1992 Governors' Arts Award competition, a statewide arts appreciation and recognition program.

The award is given to an institution or individual who has provided extraordinary leadership and creativity in advancing the cause of arts education in Michigan schools.

Formerly the headmaster at Friends School in Detroit, Jacomo joined the WMU faculty this fall. He was honored along with seven other recipients at the eighth annual Governors' Arts Award dinner Nov. 16 at the Detroit Institute of Arts. Silver and amethyst medallions were bestowed on the award recipients by Gov. John Engler.

The Governors' Arts Awards program was established in 1985 by Concerned Citizens for the Arts in Michigan and the governor of the state to recognize and honor excellence in the arts. The program is designed to bring state and national attention to Michigan's thriving arts industry and its impact on the quality of life.

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) **Chairperson** (Tenure), Executive Official, Occupational Therapy, 92/93-153, 11/17-11/23/92.

(R) **Custodian** (2 Positions; Third Shift; 10:30 p.m.-7 a.m.), M-2, Physical Plant-Building Custodial and Support Services, 92/93-159, 11/17-11/23/92.

(R) **Secretary III**, S-06, Institutional Advancement, 92/93-160, 11/17-11/23/92.

(R) **Operator Resource Analyst I** (Non-Exempt), X-02, University Computing Services, 92/93-161, 11/17-11/23/92.

(R) **Administrative Secretary I**, S-07, Physical Plant-Building Custodial and Support Services, 92/93-162, 11/17-11/23/92.

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. Remember, employment services office hours are 9 to 11 a.m. and 3 to 5 p.m. only. Your

The test covers general computer issues, ethical/social computing issues and communication issues. In addition, uses of data base, spreadsheet and word processing programs are integral to the test. The student also must exhibit knowledge of the library's computer system, FINDER.

To take the trial version of the test, students should present a validated I.D. and obtain an instructional hand-out in the University Computing Center or the Bernhard Center laboratories. If the test is endorsed by the Undergraduate Studies Council, it will be administered by appointment through the Center for Academic Support Programs.

Snow removal crews assigned

Assignments have been made and winter hours soon will begin for snow removal crews in landscape services. These schedules will cover snow removal seven days a week, 24 hours a day.

"Providing we do not have major snow storms, most areas will be clear of snow and ice prior to students, faculty and staff arriving on campus," said Paul MacNellis, landscape services.

Various steps around campus that are a convenience rather than a necessity will be closed for the winter, allowing crews to concentrate on major access areas and provide better service for ice and snow removal.

Students, faculty and staff members with handicaps or disabilities who need special consideration on campus due to snow and other weather conditions should call landscape services at 7-8557.

WMU unit earns largest national SME grant this year

WMU's Department of Engineering Technology has received a grant of equipment and funds valued at \$273,636 from the Society of Manufacturing Engineers Manufacturing Engineering Education Foundation.

The award is the largest of 88 grants made to colleges and universities nationwide this year by the Dearborn-based foundation. The 1992 grant also is the largest amount the foundation has ever awarded to support WMU's Manufacturing Engineering Technology Program and it marks the sixth consecutive year of support to WMU by the foundation.

According to Ralph Tanner, engineering technology, the grant is largely made up of computer aided manufacturing (CAM) software, numerically controlled lathes and a laser alignment system. The grant also includes \$1,250 for library acquisitions.

The grant will allow the department to keep up with state-of-the-art training equip-

ment used to prepare students for work with the kinds of manufacturing devices they will encounter when they begin their careers, he says.

(R) Replacement
WMU is an EO/AA employer

Media

The first in a series of television programs titled "Focus on Women" will air on Kalamazoo Community Access Television Nov. 19-28. The programs are presented by WMU's Center for Women's Studies and Research and produced by media services. The first program, "Women in Sports," will focus on Title IX, which outlawed athletic discrimination in high schools and colleges in 1972. Host Linda J. Borish, history, will interview Kathy B. Beauregard, intercollegiate athletics, and WMU female

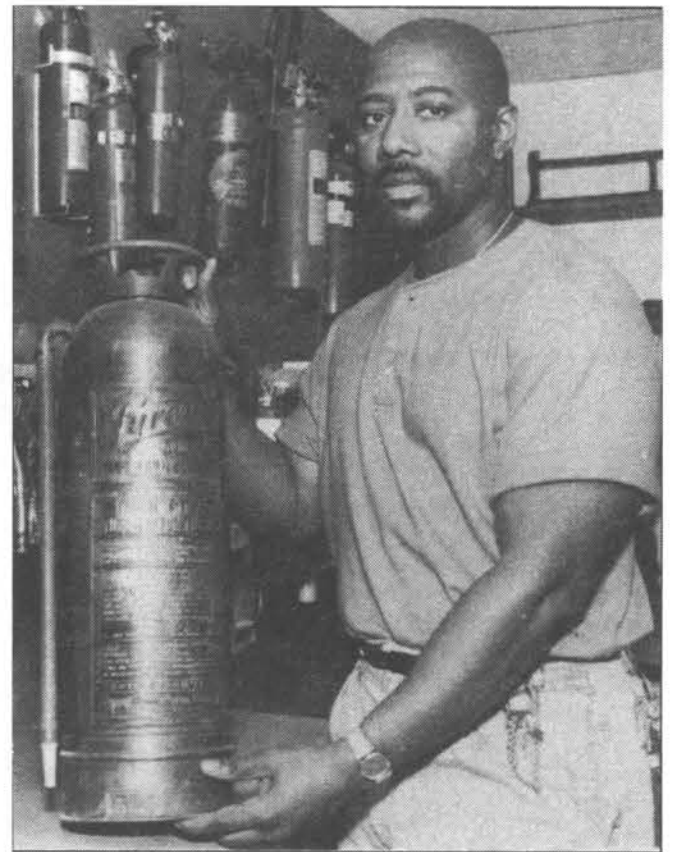
Exchange

AVAILABLE — College graduate holding temporary position at WMU available to care for faculty home during winter semester or seeking apartment. Call G. Schma at 7-4198.

FOR RENT — Large, quiet, well-decorated two-bedroom upper with mini-blinds, ceiling fans and garage. \$340/month plus utilities, deposit and references. Call 381-1966.

On campus

JOB ADDS TO HOBBY — Gary Somerville has accumulated an interesting collection while on the job at WMU. The fire safety maintenance officer in the Department of Public Safety's Division of Environmental Health and Safety, he has collected about 20 fire extinguishers from various time periods. He is pictured here in front of the "wall of distinction" in his office, holding a canister found on East Campus. Somerville cleans up the extinguishers as he finds them and adds them to his collection. The oldest extinguisher he has picked up is from around 1925 and was found in the Gilmore Alumni House when it was donated to the University. Somerville is in charge of maintaining all the fire extinguishers for the University. He inspects the 3,000 devices on campus at least once a year. He also helps maintain other fire safety equipment, such as sprinkler valves and hoses. In addition, he tests the alarm bells on campus to make sure they work and leads presentations for University groups on fire safety. "I get to meet a lot of different people and see different places," says Somerville, a WMU employee for eight years. In his spare time, he enjoys training with weights in the Zest for Life Room and at home.



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ment used to prepare students for work with the kinds of manufacturing devices they will encounter when they begin their careers, he says.

The Manufacturing Engineering Technology Program currently enrolls 72 students and has been growing at the rate of about 10 students each year. It is designed to prepare students for entry positions in manufacturing industries. The curriculum focuses on materials and manufacturing processes and equips graduates to plan manufacturing practices and develop tooling, machines and systems necessary for efficient production.

Department of Blind Rehab. noted in National Geographic

The Department of Blind Rehabilitation is featured in the lead article in this month's National Geographic.

The article, which focuses on sight, describes the latest medical advances, the functioning of the visual system and the rehabilitation of the visually impaired. The author describes his experience simulating vision loss under the guidance of William R. Wiener, department chairperson, and faculty member Susan Ponchillia. Later, he quotes another faculty member, Paul E. Ponchillia, as he talks about the greatest barrier to independence being the attitudes of the sighted toward the blind.

athletes. The show will air at: 6 p.m. Thursday, Nov. 19, on Channel 30; 5 p.m. Friday, Nov. 20, on Channel 32; 8 p.m. Friday, Nov. 27, on Channel 33; and 10 p.m. Saturday, Nov. 28, on Channel 32.

Two members of the University community will be guests in the coming weeks on "Focus," a five-minute interview produced by news services. "Focus" is scheduled to air on these Saturdays at 6:10 a.m. on WKPR-AM (1420 with the following speakers and topics: Patrick M. Jenlink, educational leadership, on the Michigan Lottery's impact on education, Nov. 21; and Jay D. Lindquist, marketing, on "infomercials," Nov. 28.

A videotape by media services of the Nov. 11 conference at WMU titled "Aftermath of the L.A. Riots — Lessons in Race Relations" will be shown on EduCABLE Channel 7 Nov. 20-24. It will air at: 2 p.m. Friday, Nov. 20; 7 p.m. Sunday, Nov. 22; and 2:30 p.m. Tuesday, Nov. 24.

At past SME conventions, Tanner reports, SME officials have singled out WMU by praising its role in preparing students to be immediately productive in industry. The Department of Engineering Technology currently is developing a master's program in manufacturing with the assistance of a 1991 grant from the foundation.

The SME Foundation received a total of 132 requests from universities and technical institutions for funding during its 1992 award period. From those requests, 88 were selected for funding. The awards made included cash grants totaling \$428,760 and \$3,682,549 worth of in-kind gifts of equipment and software donated by companies that support the purpose and goals of the foundation.

The awards have been made annually since 1979 to spur new developments in manufacturing technology and productivity and to further manufacturing engineering as an educational discipline. Founded in 1932, the SME has more than 75,000 members in 70 countries and sponsors some 350 senior chapters and 200 student chapters worldwide.

Service

These employees are recognized for five, 10, 15, 20 and 40 years of service to the University in November:

40 years — Jack L. Richards, printing services.

20 years — David B. Schneider, physical plant-B/E maintenance.

15 years — Bonneita K. Kibby, physical plant-building custodial and support services.

10 years — David Bonselaar, physical plant-B/E maintenance; Carolyn R. Henning, human resources; James R. Hiatt, public safety; Loren F. Purk, physical plant-B/E maintenance.

Five years — Richelle F. Carruth, telecommunications; Patty J. DeLoach, psychology; Richard W. DeRoo, physical plant-L/G maintenance; Kathy Gould, physician assistant; Michael R. Hofeldt, University publications; Mildred M. Houghton, Burnham dining service; Mary L. Hunt, continuing education; Thomas A. Korinek, public safety; Victoria Miner, Valley III dining service; Stella I. Morado, Office of the Vice President for Student Affairs; Johnny L. Paige, Bernhard Center; Cheryl P. Roland, news services; Nicholas Stoken, physical plant-building custodial and support services; and Laurie A. White, telecommunications.

Calendar

Thursday, November 19

(and 20) Exhibition, watercolors and mixed media, realistic and abstract, Sylvia Wong, Three Rivers artist, Department of Human Resources, 1240 Seibert Administration Building, 8 a.m.-noon and 1-5 p.m.

Training and development seminar, "Valuing Diversity," David A. Glenn, affirmative action, and Doreen A. Brinson and Larry C. Scott, both human resources, 204 Bernhard Center, 8:30 a.m.-noon.

(and 20) Exhibition by students, Student Art Gallery, East Hall, 10 a.m.-5 p.m.: Rotunda Gallery, paintings by BFA candidate Marisa Krusniak; and South Gallery, photography by Melissa Meader.

(thru Dec. 10) Exhibition, sculpture, painting and drawing by Phil Vander Weg, chairperson of art, Gallery II, Sangren Hall, 10 a.m.-5 p.m.

Geography Awareness Week lecture, "The Conservation Reserve Program," Phil Gersmehl, professor of geography, the University of Minnesota, 338 Wood Hall, noon.

(thru 24) Exhibition, drawings from students in the University of Michigan School of Art, Space Gallery, Knauss Hall, Mondays through Thursdays, 1-4 p.m.

College Bowl tournament, Bernhard Center, 7-10 p.m.

*(thru 21) University Theatre production, "I Hate Hamlet," Dalton Center Multi-Media Room, 8 p.m.

Friday, November 20

Department of Dance informal performance, Dalton Center Dance Studio B, noon.

Geography Awareness Week question and answer period with Harm de Blij, professor of geography, the University of Miami, following his talk, "The Geography of Politics in the 21st Century," 338 Wood Hall, 2:30 p.m.

Visiting Scholars and Artists Program lecture, "Producing Black Scientists and Teaching Black Children," Mildred Johnson, third grade teacher, Marquette Elementary School, Muskegon, 3750 Knauss Hall, 3 p.m.

Retirement reception honoring Esther E. Bickle, Graduate College, President's Dining Room, Bernhard Center, 3-5 p.m.

International affairs lecture and slide presentation, "Exhibiting: East and West," Edward L. Harkness, art, 3020 Friedmann Hall, 3:30 p.m.

Psychology colloquium, "Psychotherapy from an Integrative Perspective," Malcolm H. Robertson, psychology, 3760 Knauss Hall, 4 p.m.

Faculty recital, Patricia Stromsta, soprano, Dalton Center Recital Hall, 7:30 p.m.

*Concert, Kalamazoo Symphony Orchestra with the Western Brass Quintet, Miller Auditorium, 8 p.m.

Saturday, November 21

*Hockey, WMU vs. the University of Notre Dame, Lawson Arena, 7 p.m.

*Performance, "A Hometown Christmas," Jack Daniel's Original Silver Cornet Band, Miller Auditorium, 8 p.m.

*Concert, Western Jazz Quartet with drummer Billy Hart and vocalist Duane Davis, Dalton Center Recital Hall, 8 p.m.

Sunday, November 22

Women's basketball exhibition, WMU vs. Chicago Challengers, Oakland Gymnasium, 1:30 p.m.

*Concert, Bronco Marching Band, Miller Auditorium, 3 p.m.

Student recital, Scott Terrell, organ, Dalton Center Recital Hall, 6 p.m.

Monday, November 23

Concert, University Percussion Ensemble, Dalton Center Recital Hall, 8 p.m.

Tuesday, November 24

Concert, University Symphony Orchestra, Dalton Center Recital Hall, 8 p.m.

Wednesday, November 25

(thru 29) Thanksgiving recess (classes end at noon Wednesday).

Live telecast of address to CEO Council's Associates for Progress, "Consistency of Purpose for Leadership," W. Edwards Deming, internationally known proponent of Total Quality Management, Red Rooms, Bernhard Center, 12:20-1:15 p.m.; call 7-2351 to reserve a place.

Monday, November 30

(thru Dec. 4) Exhibition by students, Student Art Gallery, East Hall, weekdays, 10 a.m.-5 p.m.: Rotunda Gallery, graphic design by BFA candidate Donna Mitchell; and South Gallery, computer imagery by Katie Heilman.

CREATING HISTORIC MODELS

A career in set design and an interest in arts and crafts led Vern H. Stillwell, theatre, to create nine historic theatre models ranging from the fifth century B.C. to the 20th century A.D. The scale models, constructed of poster board and wood, will be on display Wednesday through Friday, Dec. 2-4, in the Dalton Center's Multi-Media Room. Stillwell, who uses the representations in his theatre history and Direct Encounter with the Arts classes, believes the three-dimensional models give the students a better understanding of the architectural period. "The students don't get a sense of how the audience sat around in the theatre from a photograph," he says. "The models give an intimacy you can't get from a picture."



Stillwell built the theatres from published plans under grants from the University Faculty Research and Creative Activities Support Fund and from the College of Fine Arts Research and Activities Fund. He is pictured here with a model of the Globe Theatre in London, built in 1599. Hours for the exhibit are 1 to 5 p.m. Wednesday and Thursday, Dec. 2-3, and 1 to 5 p.m. and 7 to 9 p.m. Friday, Dec. 4. A reception honoring Stillwell is planned for 4 p.m. Wednesday in the Dalton Center lobby.

Holiday tree lighting, fine arts plaza, 6 p.m.

Tuesday, December 1

Faculty Service-Learning Roundtable, Lee Honors College, 10-11 a.m.

Wednesday, December 2

Meeting, Clerical/Technical Organization, Red Room A, Bernhard Center, noon-1 p.m.

(thru 4) Exhibition of historic theatre models, Vern H. Stillwell, theatre, Dalton Center Multi-Media Room: Dec. 2-3, 1-5 p.m.; and Dec. 4, 1-5 and 7-9 p.m.; reception honoring Stillwell, Dalton Center lobby, Dec. 2, 4 p.m.

History colloquium, "German and American Prisoners of War in WWII," Lewis H. Carlson, history, 3020 Friedmann Hall, 3:30 p.m.

Lecture series on the European Community, "E.C. Study Programs in the U.S.," Leon Hurwitz, European Community Studies Association, Lee Honors College lounge, 7 p.m.

Visiting Scholars and Artists Program lecture, "Time and the Physical Universe," Norman F. Ramsey, the Higgins Professor of Physics, Harvard University, 1104 Rood Hall, 8 p.m.

Thursday, December 3

Visiting Scholars and Artists Program colloquium, "Experiments on Time Reversal Symmetry and Parity," Norman F. Ramsey, the Higgins Professor of Physics, Harvard University, 1110 Rood Hall, 4 p.m.

Meeting, Faculty Senate, Fetzer Center, 7 p.m.

Guest jazz artist concert, Joshua Breakstone, guitar, Dalton Center Recital Hall, 8 p.m.

*(thru 5) Orchestral dance concert, Dalton Center Dance Studio B: Dec. 3-4, 8 p.m.; and Dec. 5, 2 and 8 p.m.

*Admission charged

Cordier book chronicles lives of school teachers of the Midwestern plains

The struggles and successes of the pioneering school teachers of the Midwestern plains are the subject of a new book by Mary H. Cordier, emerita in education and professional development.

Based on 10 years of documentary research "Schoolwomen of the Prairies and Plains: Personal Narratives From Iowa, Kansas, and Nebraska, 1860s to 1920s" takes an in-depth look at the women responsible for educating prairie children during those formative years of American education.

Cordier chronicles the strengths of teachers like Phebe Sudlow, who began her teaching career as a teenager in a log schoolhouse and went on to become the first woman superintendent of a city school system, demanding and receiving "a man's pay for a man's job." She brings to life Agnes Briggs, who in 1867 had to walk five miles and wade across seven creeks to get to her school each day.

The author has gathered the intimate thoughts of women who taught in an era when whispering and idleness were the most critical discipline problems in the classroom, when educational aids had to be improvised, when the dirt floors of the schoolhouse muddied up after a good rain and when teachers were expected to maintain the highest of moral character under the close scrutiny of the public eye.

In addition to oral histories and period photographs, Cordier uses the personal diaries, letters, journals and school papers of her subjects to depict the living and working conditions of these pioneering school teach-

"Although the conditions of teaching and learning have changed remarkably in the past 100 years, the essential character of successful teachers has remained the same."

—Mary H. Cordier

ers. She describes in animated fashion how, in addition to their teaching duties, schoolwomen had to clean the buildings, stoke the pot-bellied stoves and battle snakes, rodents and insects in the schoolhouse. She also covers the curriculum content and modes of discipline of the prairie classroom.

"I've drawn from the personal documents of approximately 100 teachers," Cordier said. "The first half of the text offers an educational and historical overview of their lives, while the second section features narratives of five schoolwomen whose teaching careers are representative of the educators of that era. I chose to focus on the three states since they had the highest levels of literacy in the United States during the late 1800s."

Two of the five featured schoolwomen have a Kalamazoo connection. Ninety-seven-year-old Ethel Hale Russel, a former teacher at WMU's Campus School, shared with Cordier the memories and school documents from her teaching days in Nebraska, Idaho, Utah and Iowa during the early 1900s. Eleanor McKinney, emerita in librarianship, provided the author with a "virtual treasure trove of photographs and letters — even an attendance book" that belonged to her grandmother, Nancy Higgins Gaddis, who taught in Nebraska more than 100 years ago.

"While I've targeted my book for scholars of education and women's history and for teachers interested in their heritage," Cordier explained, "the general reader should enjoy the book too since the text is written in such a lively fashion. These were very interesting people who had a lot to say, and I've made use of their own words in the text."

Cordier recounts the heartbreaking passages of Sarah Jane Price as she records the loss of her young school children to scarlet fever, diphtheria, drowning and even suicide, reflecting in 1879 that, "Our little graveyard is filling up very rapidly."

Yet despite the hardships of winter blizzards and summer heat and dust, of meager paychecks and loneliness, Cordier found that these early teachers adapted to the demands and persevered in their dedication to their profession, uniform in their love of the land and their students.

"Although the conditions of teaching and learning have changed remarkably in the past 100 years," she observed, "the essential character of successful teachers has remained the same. From one generation to the next, teachers are genuinely concerned about the education and welfare of all the children of the community."

Published by the University of New

Mexico Press, the 365-page hardbound book includes 66 archival photos and is available locally at John W. Rollins Bookseller, Athena Book Shop, Pandora's Books and the WMU Bookstore for \$32.50.

Although she retired in 1990 after 27 years at the University, Cordier has not set aside her academic interests. Her works in progress include a look at American history through children's literature, co-written with Maria A. Perez-Stable, University libraries, and a book of poems for young children.

Break tour offered to London

The Office of International Affairs is offering a tour to England during mid-winter break.

The trip is billed as a London Theatre Tour and runs from Feb. 26 through March 7. The price for the trip is \$1,349, including round trip airfare, hotel accommodations, two theatre tickets, a backstage tour of the Royal National Theatre and a variety of other tours and seminars. In addition, students can receive an optional one credit for participation in this program.

C.J. Gianakaris, English and theatre, will serve as escort for this program. Gianakaris has written extensively on the stage, particularly on British playwright Peter Shaffer. He will provide orientation sessions as well as written information to assist travelers in their selection of events.

For more information, persons should contact the Office of International Affairs at 7-3951.