



WESTERN NEWS

Volume 23, Number 11

November 7, 1996

Senate to meet tonight

The Faculty Senate will meet at 5 p.m. Thursday, Nov. 7, in the Fetzner Center. Agenda items include remarks by President Haenicke; informational items on the Martin Luther King Jr. Day Committee, on enrollment trends and their implications and on the University's new marketing campaign; and a recommendation for action by the Research Policies Council to endorse the transition to Research II of the Carnegie Classification as an official goal of the University.

Graduate information offered at diversity day

The Graduate College will sponsor its annual Graduate Information Day for Diversity Students from noon to 2 p.m. Wednesday, Nov. 13, in the South Ballroom of the Bernhard Center.

The purpose of the event is to provide potential graduate students with information regarding graduate school and to provide master's level students with information for doctoral candidacy.

The meeting, which includes a complimentary lunch, is open to all interested students. It will cover topics such as assistantships, admission, financial aid, entrance examinations, and various programs and requirements.

Persons who wish to attend should call the Graduate College at 7-3574.

Printers gather here

Students and area printers will learn about the challenges faced in specialty printing at the 12th annual Gravure Day Tuesday, Nov. 12, at the Printing Management and Research Center in Welborn Hall.

The day-long event is sponsored by the Department of Paper and Printing Science and Engineering and the Gravure Education Foundation. For more information and registration, persons should call 7-2800.

Order your holiday plants by Nov. 22

Thinking ahead to the holidays? The Clerical/Technical Organization is sponsoring its annual poinsettia sale through Friday, Nov. 22.

Order forms are being distributed on campus this week. Six-inch potted plants will be available in three colors: red, white or marble. The cost is \$7.50 each.

The plants will be available for pick-up from 11 a.m. to 2 p.m. and 4 to 6 p.m. Thursday and Friday, Dec. 12-13. Payment by cash, check or intra will be due at that time.

Orders should be submitted to Debra White in the Haworth College of Business advising office, 2130 Schneider Hall. She can be contacted by campus mail, telephone (7-5084) or e-mail (debra.white@wmich.edu).

Look out below**'Groundbreaking' technology barely scratches the surface**

Geophysics technology that can detect dinosaur bones, the body of a murder victim or an oil spill is sparking a revolution in the way geologists and their students look at the ground beneath them.

And even though the technology has been used recently for such highly-publicized events as the search for ValuJet parts after a crash in a Florida swamp, field training in the use of near-surface geophysical equipment is hard to find. WMU is the only place in Michigan and one of only a handful of schools in the nation to develop training courses for those interested in peering beneath the surface without unearthing so much as a teaspoon of dirt.

Near-surface geophysics, using non-invasive techniques to examine the first 100 feet below the surface, can be applied in fields ranging from archaeology, civil engineering and construction to environmental cleanup, criminal science and land use planning. Ground penetrating radar, magnetometers, electrical resistivity units and seismographs are



DRIVING THE POINT HOME AT ASYLUM LAKE—Estella Atekwana, geology, second from left, made a point to her "Introduction to Geophysics" class recently while class member Andrew R. Woodrich, right, supplied the muscle and the source of sound waves being recorded on an exploration seismograph. A series of geophones or mini seismometers, connected to the larger machine, was planted in the ground along a plotted line at the Asylum Lake geophysics testing area. Each time Woodrich struck a small metal plate with a hammer, sound waves from the blow traveled through the ground until they were refracted off the water table. The large seismograph in the foreground recorded the sound waves' journey and produced a printout showing the refractions. Mike S. Nash, left, Atekwana's teaching assistant, and students Deborah A. Korson and Tyler Knoll, kneeling, helped monitor the readings and printout.

among the tools in the WMU arsenal. In recent months, they have helped locate everything from the foundation of an early Battle Creek homestead to a previously unknown petroleum contaminant plume at Wurtsmith Air Force Base.

Local students to join in national discussion on diversity issues through satellite broadcast

Kalamazoo area college students will be part of a national summit on campus diversity Wednesday, Nov. 13, that the public will be able to view live on Kalamazoo Community Access Television and on EduCABLE, the University's cable television system.

WMU's Institute for the Study of Race and Ethnic Relations has invited student representatives from WMU, Kalamazoo College, Kalamazoo Valley Community College and Davenport College to participate in a live satellite broadcast videoconference. Some 8,000 students from more than 75 campuses will simultaneously engage in a dialogue on such diversity issues as race, gender, class, sexual orientation and religion.

The students will have an opportunity to pose questions to a panel of prominent scholars and activists via telephone, learn about diversity activities on other campuses, articulate a vision for the role they think their campuses should play — or not play — in promoting issues of diversity and develop strategies for implementing this vision.

The videoconference will emanate from the Institute for Public Media Arts in Durham, N.C. It will begin at 7 p.m. with a 30-minute discussion by national experts on "The Way Things Are." At 7:30 p.m.,

there will be a local campus forum on "The Way Things Can Be." At 8:40 p.m. the campus participants will rejoin the national experts for a 50-minute wrap-up discussion.

The program will air live on Kalamazoo Community Access Channel 33 and on EduCABLE Channel 36.

This is the first major event sponsored by WMU's Institute for the Study of Race and Ethnic Relations since Beverly A. Moore became its first full-time director earlier this year.

"I'm looking forward to the opportunity to have national networking and interaction," Moore says. "This videoconference is a good fit with the mission of the institute — to bring people together to discuss and debate issues related to race and ethnic relations."

"It's also an opportunity for us in Kalamazoo to broaden our scope," she says. "We concentrate so much on the environment in which we live that we don't know how similar we are to other institutions. We can learn from others and others can learn from us."

The national panel will be moderated by Farai Chideya, a CNN political analyst. Panelists will include: Ronald Takaki, pro-

"The technology is useful wherever you want to see the subsurface without actually excavating or drilling," says William A. Sauck, geology. He and Estella Atekwana, geology, developed a four-week intensive field course for graduate and undergraduate students that emphasizes hands-on training in geophysics technology. A \$85,782 grant from the National Science Foundation helped fund the purchase of four major state-of-the-art electronic systems to add to their department's existing geophysics equipment as well as the course's development and implementation.

"I don't think anyone in Michigan has better near-surface geophysics equipment," Atekwana says, "and this is the only advanced environmental geophysics course in the state."

During last summer's work, students in the field course literally struck oil while doing two weeks of field work at Wurtsmith Air Force Base near Oscoda. The base, which has been decommissioned and turned over to civilian authorities, is the site of intense bioremediation research and development under the auspices of the University of Michigan. The base has several known contaminant plumes from fuel storage tanks and landfills and is an ideal location for students to operate geophysical equipment and become familiar with what such subsurface problems look like through the "eyes" of technology.

During a lunch break, Sauck and a student went to examine an irregularity Sauck

(Continued on page four)

Did you know?

■ A total of 1,742 students or 6.8 percent of this fall's enrollment of 25,699 is made up of international students. They hail from 90 different countries.

■ The top five countries sending students to WMU are: Malaysia at 703; Japan at 170; India at 119; Thailand at 93; and South Korea at 68.

■ Some of the countries represented this year that weren't represented last year are: Algeria; Belgium; the Dominican Republic; Eritrea; Maldives; Niger; Viet Nam; the Virgin Islands; and the West Indies.

(Continued on page four)



TATTOOED AT THE TAILGATE — Linda Hill, second from left, found out what Bronco spirit was all about during a Family Festival tailgate brunch Nov. 2 in the Student Recreation Center. Timothy M. Butkiewicz, a senior from Sterling Heights, convinced her to show her WMU loyalty by letting him apply a Bronco tattoo to her face. Looking on are daughters Laura Hill, right, and Paula Hill, a junior from Hartford. The tailgate was one of several events scheduled during the Family Festival weekend and it attracted some 1,400 people to eat, meet WMU administrators and see the Bronco Marching Band, cheer team and pom pon squad before heading over to the football game.

Book explores culture and traditions of Asia and Africa

African and Asian culture and traditions are explored in a new book by a faculty member who has been one of the local pioneers in teaching American students about the non-Western world.

"Asia and Africa: Traditions" is the title of the book by Vishva B.L. (Visho) Sharma, science studies. The book was published in September by Shivalik Publishing House of Kalamazoo. Intended as a college text, the book is being used on campus this fall and is being offered to major publishing houses so that it will be available internationally in the future.

Sharma, who has been working on the book for a number of years, says a serious shortage of books for the non-Western world survey course he teaches led to the new volume's recent completion and local publication for the start of the fall semester. In 1965, WMU became one of the first institutions of higher education in the nation to require the study of non-Western cultures as part of its general education program. For 30 years, two classic books, Thomas Welty's "The Asians" and Jacques Maquet's "Africity," have served as texts for that program and for similar programs which have sprung up around the nation. Both books are now out of print and outdated, and the book on Asia was rapidly becoming unavailable.

"In one sense, I've been working on this book for 25 years," says Sharma, who has coordinated WMU's non-Western world program since 1968. "But in another sense, there was a frantic sprint this spring and summer when, after scouring the nation's bookstores, we realized that there were no longer enough of the Welty books available for our students."

Sharma says the Welty and Maquet books are considered classics, but both are

15 to 20 years out of date in their coverage of areas of the world undergoing dramatic change. While there were some other books that could be used in place of the text on Africa, nothing comparable existed on the topic of Asia. "The Asians," Sharma says, has been the leading book in the world on that subject and one major publisher already had asked him to develop an updated version of it. But Sharma feels his new

tween nine and 10. In Africa and Asia, the situation is much more fluid. Change is occurring drastically. The reality of the non-Western world is a fluid reality."

As an example, Sharma points to the role of women in the Middle East, which he says is "changing in a dramatic and alarming fashion." In Iran and this year in Turkey, Sharma notes, the world has been shown two good examples of how centuries-old traditions are changing modern life as the resurgence of fundamentalism causes serious setbacks for women.

Sharma says that a culture's traditions are especially difficult to write about since tradition doesn't exist in a vacuum and traditions that are 5,000 to 6,000 years old directly affect what is happening today.

"The living reality of tradition makes the task of an author or researcher very difficult," Sharma says. Writing the book in such a period of change at times meant revising a page already set for printing. At one point, he had to draw the line and relegate additional changes to a future edition.

Although the text is designed for college-level students, Sharma says he sees a possible market for the work in the growing number of high schools that are expanding their social studies coverage to include information on the non-Western world.

"I am constantly amazed at the growing level of commitment to culture study at the high school level," Sharma says. "It is by no means universal, but it is a growing trend."

A native of Kenya, Sharma came to WMU in 1967 as a visiting professor of social science and sociology. He joined the faculty as a permanent member the following year and began coordinating the non-Western world course. He has held a variety of leadership positions on campus and has received a number of University awards, including the Distinguished Service Award in 1992 and the Alumni Teaching Excellence Award in 1982.

Trio headed for Carnegie

The Merling Trio, a faculty trio from the School of Music, and composer Terry Winter Owens have received a grant from the American Composers Forum to write and premiere a work at New York's Carnegie Hall during the 1997-98 season.

It will be the second performance for the trio at Carnegie Hall; the first was in April 1993. Members are Renata Artman Knific, violin, Bruce Uchimura, cello, and Susan Wiersma Uchimura, piano.

Such change proved a major difficulty to Sharma in compiling his text. He notes that change in the non-Western world is occurring at a pace Americans have trouble understanding.

"In this country when we go to the polls, the results of the election won't mark the beginning of a new reality," Sharma says. "The difference between Jimmy Carter's America, Ronald Reagan's America or Bill Clinton's America is the difference be-



"This really is a unique volume. I was able to explore the area covered by Africa and all of Asia, including the Middle East. There really is no other book like it."

—Vishva B.L. Sharma

book is an improvement because he was able to cover all of Asia, including the Middle East as well as Africa.

"This really is a unique volume," Sharma notes. "I was able to explore the area covered by Africa and all of Asia, including the Middle East. There really is no other book like it."

Sharma's book divides the regions covered into five separate areas sharing common geography and cultural development. The five are: East Asia, which includes China, Japan and Korea; the 10 nations of Southeast Asia; South Asia, which includes such nations as India, Pakistan, Sri Lanka and Nepal; West Asia and North Africa, which includes the area known in the West as the Middle East; and sub-Saharan Africa, which includes much of the land mass of the African continent.

Sharma says that although he tried to maintain some consistency with Maquet's and Welty's treatment of the areas, he sees the new text as a complete break with their classical approach. His own work focuses heavily on what causes change in society.

"I try to explore the hypothesis that as technology changes, so does our ecological adaptation to our surroundings," Sharma says. "Technology changes society and society's values. It changes the way we relate to one another."

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Scientist will detail findings from expeditions

"Dinosaurs on Ice: Jurassic Dinosaurs from Antarctica" will be the topic of a talk Thursday, Nov. 14, by a nationally known paleontologist.

William R. Hammer, professor and chairperson of the Department of Geology and director of the Fryxell Geology Museum at Augustana College in Rock Island, Ill., will speak at 4 p.m. in 1118 Rood Hall. The talk is free and open to the public.

Hammer, who also is a research associate at the Field Museum of Natural History in Chicago, will describe his 1990-91 expedition to Antarctica on which the skeletal remains of the first known Jurassic era dinosaurs in that area were collected. The expedition discovered a previously unknown dinosaur that has been named Cryolophosaurus. The dinosaur, a relative of some of the well-known North American carnivores such as Allosaurus, is approximately 50 million years older than its northern relations. The discovery also marked the first such find of a dinosaur of that type on a southern continent.

The discoveries were made on Mount Kirkpatrick near the Beardmore Glacier area of Antarctica. Hammer, who has taken part in five expeditions to Antarctica, re-

cently returned from another expedition to the Shackleton Glacier.

Hammer has been designated a 1996-97 Distinguished Lecturer by the American Association of Petroleum Geologists, an international geological organization based in Tulsa, Okla. His visit to WMU is one of a series of appearances he will make this year before university and geological society audiences around the country.

His visit to the University is being coordinated by the Department of Geology. For more information, persons may contact Estella Atekwana, geology, at 7-3667.

Talk to feature photographs from space detection devices

Noted astronomer John R. Dickel will present a lecture on campus Thursday, Nov. 14. Titled "Revealing the Hidden Cosmos," the address is set for 7:30 p.m. in 1104 Rood Hall.

Dickel, a professor of astronomy at the University of Illinois, specializes in research on the remnants of supernovae, which are stars that end their lives in huge explosions.

During his lecture at WMU, Dickel will present examples of how modern astronomers use detection devices of many kinds to reveal aspects of the universe that normally are invisible to humans. These include infrared and radio telescopes as well as a wide variety of X-ray and gamma-ray detectors placed in orbit above the Earth in recent years.

Dickel will illustrate his presentation with photographs from these devices and from the Hubble Space Telescope, and he will explain what scientists have learned from them.

The free lecture is intended for a general audience. Earlier in the day, Dickel will meet with a general astronomy class and members of the physics faculty and also will give a special physics department colloquium.

Dickel's visit is being sponsored by the American Astronomical Society through its Harlow Shapley Visiting Lectureship Program and by the WMU Department of Physics. For more information, persons may contact Paul V. Pancella, physics, at 7-4962.

Kuttner named to skills center post

George Kuttner has been named assistant director of the Academic Skills Center.

He will be responsible for coordinating the Writing Center, which offers one-on-one tutoring in all forms of writing for WMU students. The center also provides instructional software for college writers to use in its computer lab, a writers' reference library, instructional hand-outs and in-class workshops. He will design and implement tutor training and work to expand the Writing Center's resources.

Kuttner brings to the job a particular interest in writing across the curriculum, and will work to increase student and faculty awareness of and involvement with the Writing Center and with all the components of the Academic Skills Center.

He will assist Cindy Overly, director of the Academic Skills Center, by working with the other components of the center, which include the Supplemental Instruction, Student Support and Content Tutoring programs.

A graduate of San Francisco State University with a bachelor of arts degree in creative writing, Kuttner plans to complete his master of fine arts degree in creative writing at WMU this fall. While a graduate student, he has worked as a teaching assistant, leading composition and creative writing courses in the Department of English. He also served as managing editor of Third Coast, WMU's new literary magazine.



Kuttner

WESTERN NEWS

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WESTERN MICHIGAN UNIVERSITY

A WORLD OF DIFFERENCE

Contracts for science project to go by end of fall

Construction contracts are expected to be awarded before the end of the fall semester on the project to renovate and expand science facilities at the University.

The project involves the retrofit of Wood Hall and the construction of a new Science Research Pavilion. The design for the project was modified after initial bids came in \$5.5 million over the project's \$43.5 million budget, said David Dakin, campus facility development. He said he expected considerable interest in the project by potential bidders.

"None of the changes affects the programs for which the facilities are designed, with the exception of identifying the greenhouse as an alternate part of the bid process," Dakin said. "This gives us a firm cost without committing us to proceed with that part of the work."

It enables the greenhouse to be built in the event that bids for the entire project are low enough or if other funds can be identified for this part of the project, Dakin said.

Examples of other design changes include the elimination of a central staircase in the Wood Hall renovation that was to replace two existing staircases, which will remain, and a reduction in the length of the

atrium link between the two halves of the Science Research Pavilion.

"The link is 12 feet shorter, which reduces the space between the two halves from 66 feet to 54 feet," Dakin said. "This change will not be noticed by anyone walking under the atrium or in any activity in the atrium."

Construction would begin in January, with occupation of the new Wood Hall during the winter 1998 semester, he said. The Science Research Pavilion is expected to be completed during the winter 1999 semester.

Receptions to mark retirements of three

Two retirement receptions are planned for Friday, Nov. 15, at the Student Recreation Center.

John Miller, health, physical education and recreation, and Sharlene M. Miller, Office of the Registrar, will be honored from 3 to 5 p.m. in Rooms 3012-13. Billye A. Cheatum, health, physical education and recreation, will be honored from 4 to 6 p.m. in the center's first floor Spell Laboratory.

The University community is invited to attend.

Office branching out into programs for professional growth and development

WMU's conference planning office has a new name, a new director and a new mission.

James H. McFaul has been named director of the Office of Professional Programs and Conferences in WMU's Division of Continuing Education (see related story below). The unit, formerly called the Office of Conferences and Institutes, will be branching out into some new areas under his direction.

Until now, the office primarily has been involved in developing and implementing non-credit conferences and institutes each year across the country for a variety of clients ranging from teachers to substance abuse professionals. That function will remain a critical part of the operation, McFaul says, while the office also will be involved in programs for professional growth and development.

Dean James A. Visser, continuing education, says the mission of the unit has been broadened and refocused to help link the University's academic units with professional associations and the business community through joint efforts at non-credit programming.

"This allows WMU to secure stronger ties to its professional constituencies outside the University while also drawing prospective students to our credit programs," Visser says. "It's also a way to ensure that the content of both credit programs and professional development training is in synch. The new Office of Professional Programs and Conferences will become the logistical mechanism, and sometimes even the catalyst, that allows this necessary relationship between academic education and professional training to work."

Programs to be offered include non-credit courses for members of certain professions who need to earn continuing education hours for licensing and certification, such as nurses, accountants and counseling psychologists.

"We want to be able to accommodate their needs," McFaul says. "Because of the variety of programs and schools at WMU, we can provide top quality training by using our faculty and facilities to deliver it."

While some of those opportunities will be offered on campus in Kalamazoo, others will take place at the University's regional centers in Battle Creek, Benton Harbor/St. Joseph, Grand Rapids, Lansing and Muskegon as well as at other sites. McFaul and his staff also will organize classes on site at companies, if requested.

McFaul sees a real need for this type of training in today's business market. "When times are tough, it's important to maintain

training programs and to keep on the cutting edge," he says. "Better trained employees are more productive."

McFaul says his office will be targeting small- and medium-sized companies, many of which need outside sources because they don't have trainers on staff. "We can be their training department," he says.

For more information, persons may contact McFaul at 7-4174.

McFaul selected as director of renamed office

James H. McFaul has been named director of the Office of Professional Programs and Conferences in the Division of Continuing Education.

He comes to WMU from Indiana University Kokomo, where he was associate director of continuing studies for the past seven years. He was responsible for developing, implementing and managing non-credit continuing education program operations. Those included 300 offerings a year for the general public and 10



McFaul

Libraries

Since 1989, the archives and regional history collections of University libraries have acquired monographs through the Charles R. Starring Endowment.

Charles R. Starring, a WMU professor of history from 1928 to 1969, had a lifelong interest in the study of regional history. He established the endowment for the purposes of acquiring materials for researchers using the regional history collections of the University archives. Researchers sharing Starring's interest in regional and family history issues may use the collection located at the archives.

To date, more than 1,500 monographs have been acquired. Materials dealing with family history and genealogy, regional history, public history and Michigan history make up the majority of the holdings. Through the endowment, monographs from a variety of sources are acquired. Included are publications of small non-profit historical organizations, monographs of university presses and out-of-print books. Other acquisitions include microfilm materials such as the Lyman Draper Manuscripts.

Since 1994, monograph acquisitions from the Starring Endowment have been designated in the cataloging record. Library patrons who wish to learn about

On campus

WHERE THE HEART IS — Doris N. Ohler, a lead person in the Bernhard Center Public Cafeteria, has lived in six different states. But when it came time to make a decision about where to raise a family, she and her husband decided to go where they were happiest and ended up back in Michigan. Ohler earned her bachelor's degree from WMU in 1979 in merchandising and interior design. Over the course of the next several years, she worked in interior design and food services all over the country. When she ended up back in the Kalamazoo area, she says she naturally looked to her alma mater

for employment. "I enjoy the students," says Ohler, who joined the dining services staff in 1991. "That's what brought me back to campus. I work with a lot of international students and they really add to the flavor of the job." Ohler hires, trains and schedules the five permanent part-time employees and the students who work as servers, busers and cashiers in the public cafeteria. She also helps make sure the menus are straight and the food is set up properly. "It's like having 300 people to lunch every day," she says, "only I don't have to do the cooking." She also helps with the planning on special meals, such as the pasta, chili and fruit bars. In addition, she works with the cafeteria's deli delivery service, which provides an average of about 25 lunches a day to people all over the campus. When not at work, Ohler enjoys working with clay and paints as well as spending time with her family. She and her husband are restoring a 1960 wooden boat. They also devote a considerable amount of time to following the activities of their two sons, ages 9 and 11.



Six win quarterly service excellence awards

Six outstanding persons have been selected to receive Staff Service Excellence Awards for the quarter that covers July, August and September. The winners were nominated by their peers to honor excellence and performance above and beyond job requirements.

They are: Diane M. Ariza, admissions

and orientation; Robert D. Champion, physical plant-landscape services; Vicki L. Cox, physical plant-operational services; Robert R. Eversole, biological sciences; Dean K. Honsberger, University budgets; and Diane L. Stephenson, biological sciences.

Champion is from the American Federation of State, County and Municipal Employees ranks and Cox is from the clerical/technical employee group. Ariza, Eversole, Honsberger and Stephenson are from the professional/technical/administrative employee group. They are among 16 employees nominated by their peers.

Each will receive a Staff Service Excellence certificate and a \$50 gift certificate to the designated University facility of their choice. A total of 83 staff members have received awards since the program began in 1994.

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 during the posting period, and may contact an employment services staff member for assistance in securing these positions.

S-01 and S-02 clerical positions are not required to be posted. For persons interested in faculty positions, there are openings in selected fields. A letter of application should be submitted to the appropriate dean or chairperson.

(R) **Environmental Control Person** (First Shift), M-5, Physical Plant-Maintenance Services, 96/97-148, 11/5-11/11/96.

(R) **Secretary I**, S-04, Physical Plant-Maintenance Services, 96/97-157, 11/5-11/11/96.

(R) **Grounds Laborer I** (First Shift, 6 a.m.-2:30 p.m.), M-2, Physical Plant-Landscape Services, 96/97-158, 11/5-11/11/96.

(R) **Utility Food Worker** (2 Positions), F-1, Dining Services, 96/97-160, 11/5-11/11/96.

(N) **Systems Coordinator** (Term Ends 1 Year; Renewable; Hourly), X-02, Psychology, 96/97-161, 11/5-11/11/96.

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

Media

Steven C. Rhodes, communication, discusses sexual harassment on "Focus," a five-minute interview produced by the Office of Marketing, Public Relations and Communications. "Focus" is scheduled to air at 6:10 a.m. Saturday, Nov. 9, on WKPR-AM (1420). "Focus" is also used on a regular basis by WKZO-AM (590), WGUV-FM (88.5) and several other radio stations around Michigan.

Calendar

The master calendar maintained by the Office of Marketing, Public Relations and Communications for use in Western News is available through Gopher on the VMScluster. Currently, there are three calendars available: November events; December events; and future events, which run from January through December 1997. To view the calendars, type Gopher at the system prompt. At the next menu, choose 2. Western Michigan University, then choose 5. Campus Calendar. You will find options for 1. This Month's Events, 2. Next Month's Events and 3. Future Events. The calendars also are available through WMU's home page on the World Wide Web under University Information.

Thursday, November 7

- (thru 22) Exhibition, painting by Jacqueline Moses, Chicago artist, Gallery II, Sangren Hall, weekdays, 10 a.m.-5 p.m.
 - (and 8) Exhibition, graphic design by Andrea Burke and Jesse Peterson, BFA candidates, Rotunda and South Galleries, East Hall, 10 a.m.-5 p.m.; closing reception, Friday, Nov. 8, 5-8 p.m.
 - (thru 21) Exhibition, video, film and photography by Sandra Binion, Chicago artist, Space Gallery, Knauss Hall, Mondays thru Thursdays, 10 a.m.-4 p.m.
 - Visiting Scholars and Artists Program lectures by David Bromwich, the Bird White Housum Professor of English, Yale University, 10th floor, Sprau Tower: "Coleridge and Wordsworth: Collaboration, Criticism and Creation," 10 a.m.; and "Poets and Critics: Criticism and Creative Writing," 3:30 p.m.
 - Videoconference, "Critical Thinking: Required Learning for the 21st Century," Stewart Tower Conference Room, third floor, University Computing Center, 2:30-4 p.m.; to register call 7-5305.
 - Formatting workshop for the preparation of doctoral dissertations, specialist projects and master's theses, Graduate College conference room, Seibert Administration Building, 3-4:30 p.m.; advance registration required by calling 7-3569.
 - Meeting, Faculty Senate, Fetzer Center, 5 p.m.
 - *Sneak Preview concert, Gold Company and GCII, Dalton Center Recital Hall, 8 p.m.
 - *(thru 10 and 14-17) University Theatre production, "The School for Scandal," Dalton Center Multi-Media Room: Nov. 7-9 and 14-16, 8 p.m.; and Nov. 10 and 17, 2 p.m.
- ## Friday, November 8
- Kalamazoo Forum on Women's Health, Fetzer Center, 8 a.m.-5 p.m.; call 7-2654 for information.

Geophysics *(Continued from page one)*

had spotted some time before in a geophysical survey of the area. Taking a more detailed look at the area in question by making a series of passes with a ground penetrating radar unit, they discovered a previously unknown plume of fuel contaminant 15 feet below the surface and near the water table. Drilling and sample collection of the plume turned up specimens that Sauck says are among the worst found at the base. The discovery resulted in Air Force contractors being called in, and sparked new negotiations between the Air Force and the civilian base authority.

In addition to locating the size and extent of such problems as oil spills, the equipment can be used to find buried hardware such as pipelines, utility lines, oil drums and tanks without doing physical damage to that hardware. Pinpointing the location of such items without physically touching them is a critical environmental use of geophysics, since drilling or digging runs the risk of damaging a line or puncturing a tank and introducing new contamination problems to an area.

When geophysics is used for archaeological or forensic purposes, its value lies in the fact that it can illuminate without destroying fragile historical or criminal evidence. Once an item is located, those conducting a search can decide the safest way to excavate around the item.

Despite its wide applicability, Sauck and Atekwana say there is a general lack of understanding of geophysics among many of the industries that might most benefit from it. Among the general public, the techniques seem completely unknown even though they have been used for such popularly appealing efforts as the hunt for dinosaur bones.

The equipment, different geophysical techniques and instrumentation originally was developed for use by the oil, mineral and gas industries and they have been refined for near-surface use to provide higher resolution than can be achieved at deeper depths. The equipment and techniques are relatively easy to use, even by a novice. The challenge, Sauck and Atekwana say, lies in knowing what tool to use and how to interpret the data collected.

"Each site is geophysically different," Sauck notes. "What you do at one site won't always work at a second site. Accuracy depends on using the right tool for the soil composition. Clay, for instance, limits the depth of penetration for some tools such as ground penetrating radar."

Atekwana says that successful application of the technology requires that the users have a thorough knowledge of

geology, geochemistry and hydrogeology as well as geophysics. It's important, she notes, that students understand both what is geologically typical and what is abnormal.

"If you are hunting for elephants," Sauck points out, "it's a good idea to know what they look like before you begin your exploration."

To ensure that their students get a wide range of experience in reading data about subsurface material, Sauck and Atekwana have been setting up a geophysical test site for the tools at WMU's Asylum Lake field laboratory.

They have been systematically burying objects there for their students to find. These include barrels and pipes buried at differing depths, orientations and groupings. Buried containers might be filled or partially filled with water or air and can be made of any of a variety of materials, such as steel or plastic.

Sauck and Atekwana also hope to develop a section with some archaeological targets, such as animal skeletal remains. In addition, the site may be used by manufacturing representatives interested in testing the sensitivity of new equipment.

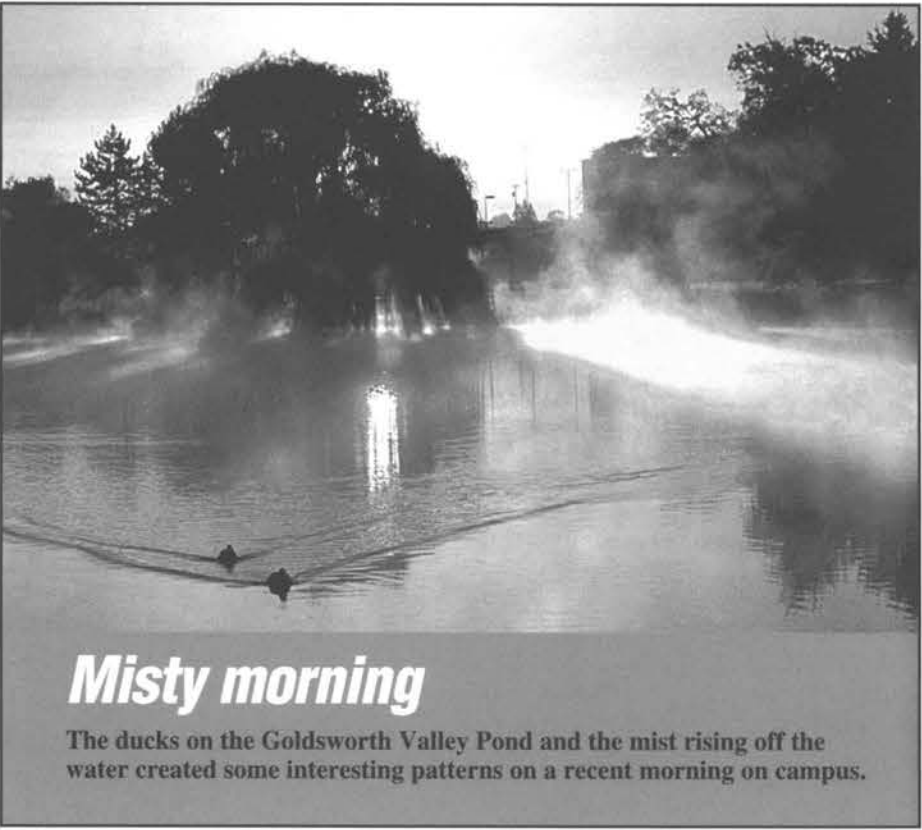
Diversity *(Continued from page one)*

fessor of ethnic studies at the University of California at Berkeley; Michael Dyson, director of the Institute of African American Research at the University of North Carolina at Chapel Hill who has been called the "hip-hop intellectual"; and two university students.

The panel of Kalamazoo students will be moderated by Linwood H. Cousins, social work.

The summit is made possible by Project Change, an anti-racism initiative of the Levi Strauss Foundation, Time Warner Inc., the Ford Foundation, the Surdna Foundation and the University of North Carolina Center for Public Television. The event is being sponsored locally by the Institute for the Study of Race and Ethnic Relations with support from these other WMU units: Office of Affirmative Action; Division of Minority Affairs; University Recreation Programs and Facilities; Department of Sociology; Office of Residence Hall Life; Office of the Dean of Students; Black Americana Studies Program; Office of Admissions and Orientation; and Office of Faculty Development Services.

For more information, persons may contact the Institute for the Study of Race and Ethnic Relations at 7-2141.



Misty morning
The ducks on the Goldsworth Valley Pond and the mist rising off the water created some interesting patterns on a recent morning on campus.

- Brown bag Bible study group, "Living Beyond Racism," Kanley Chapel Social Room, noon-1 p.m.
- Men's soccer, WMU vs. Oral Roberts University, WMU Soccer Complex, 3 p.m.
- Center for the Study of Ethics in Society lecture, "Parental Autonomy vs. Medical Authority: Baby K and Baby Messenger," Arthur Kohrman, the University of Chicago School of Medicine, and William Weil, Michigan State University College of Human Medicine, 204 Bernhard Center, 3 p.m.
- Educational leadership seminar, "Student Services Is a Stairway to Success," Alfred Hawkins, superintendent, Covert Public Schools, 3310 Sangren Hall, 3 p.m.
- Master class, Jaime Laredo, violin, Dalton Center Recital Hall, 3 p.m.
- Doctoral oral examination, "Millage Election Outcomes in Michigan Public School Districts: A Test of the Rational Choice and Social Psychological Voting Models," Christopher Petras, public administration, 211E Walwood Hall, 3 p.m.
- *(thru 10) Kalamazoo Film Society showing, "Welcome to the Dollhouse," directed by Todd Solondz, 2750 Knauss Hall: Nov. 8-9, 8 p.m.; and Nov. 10, 2:30 p.m.
- ## Saturday, November 9
- Student recital, Barbara Lieurance, piano, Dalton Center Recital Hall, 7 p.m.
- ## Sunday, November 10
- Faculty recital, Susanne Armbruster, soprano, and Christopher Taylor, piano, Dalton Center Recital Hall, 3 p.m.
- Men's soccer, WMU vs. Eastern Michigan University, WMU Soccer Complex, 2 p.m.
- ## Monday, November 11
- (thru 15) Exhibition, graphic design by Matt Skarritt, Joe Juhnke and Jill Rozmarek, BFA candidates, Rotunda and South Galleries, East Hall, weekdays, 10 a.m.-5 p.m.; closing reception, Friday, Nov. 15, 5-8 p.m.
- "Enhancing Teaching with Technology" program, "Web Resources for Teaching and Research in the Humanities and Fine Arts," Judith M. Arnold and David K. Isaacson, both University libraries, Stewart Tower Conference Room, third floor, University Computing Center, noon-1 p.m.; to register call 7-5430.
- *Program, "Landscape Design with Perennials in Mind," Robert Welch, program director, landscape architecture/horticulture, Lansing Community College, Fetzer Center, 12:30-3:30 p.m.; to register call 7-8448.
- Student recital, Carolyn Koebel, percussion, Dalton Center Recital Hall, 7 p.m.
- *Men's basketball exhibition, WMU vs. Hungary, University Arena, 7 p.m.
- ## Tuesday, November 12
- Meditation group, Kiva, Faunce Student Services Building, 8-8:30 a.m.
- Paper and printing science and engineering's 12th annual Gravure Day, Printing Management and Research Center, Welborn Hall, 8 a.m.-5 p.m.; to register call 7-2800.
- Documentary film, "Mandela," 10th floor, Sprau Tower, noon.
- "Rediscovering Latin America" lecture series, "Costa Rica Folklore Project," Henry Cohen, Romance languages and literature, Kalamazoo College, Lee Honors College, 7 p.m.
- *Women's basketball exhibition, WMU vs. Slovakia, University Arena, 7 p.m.
- ## Wednesday, November 13
- Graduate College's annual Graduate Information Day for Diversity Students, South Ballroom, Bernhard Center, noon-2 p.m.; to register call 7-3574.
- School of Music Convocation Series concert, Student Musicale, Dalton Center Recital Hall, 2 p.m.
- La Lucha lecture, "Central America: The Issues Today," Angela Berryman, coordinator of Latin American/Caribbean Programs, American Friends Service Committee, 2302 Sangren Hall, 7:30 p.m.
- Concert, WMU percussion ensembles, Dalton Center Recital Hall, 8 p.m.
- ## Thursday, November 14
- Doctoral oral examination, "A Comparison of Gay and Lesbian Sensitivity Training on Student Counselors' Attitudes Toward Same Gender Sexual Behavior," H. Dean Dorman, counselor education and counseling psychology, 2518 Sangren Hall, 10 a.m.
- Faculty development services workshop, "Enliven Your Classroom: Using Case Studies as a Teaching Method," Laura R. Van Zoest, mathematics and statistics, and Allen Carey-Webb, English, Faculty Lounge, second floor, Bernhard Center, 2-3:30 p.m.; to register call 7-5305.
- Documentary film, "Mandela in America," 10th floor, Sprau Tower, noon.
- Geology lecture, "Dinosaurs on Ice: Jurassic Dinosaurs from Antarctica," William R. Hammer, professor and chairperson of geology, Augustana College, 1118 Rood Hall, 4 p.m.
- Physics lecture, "Revealing the Hidden Cosmos," John R. Dickel, professor of astronomy, the University of Illinois, 1104 Rood Hall, 7:30 p.m.
- Concert, Western String Chamber Orchestra, Dalton Center Recital Hall, 8 p.m.

*Admission charged