Grant to enable better analysis of ground water

WMU has been awarded $250,000 by the Michigan Department of Commerce to increase the University’s ability to assess both the quality and quantity of the state’s water resources.

The grant was awarded to Michael J. Barcelona, Institute for Water Sciences. The funds will be used to purchase two state-of-the-art equipment systems and a mobile laboratory van in which to do field research.

The new equipment will improve WMU researchers’ ability to assist in economic development and water management decisions by providing data on Michigan’s subsurface geology, water supply and water quality. Such information could be used to site new industrial facilities or make decisions that will affect future municipal water supplies.

The new funding will be used by the IWS Ground Penetrating Radar team and the mobile laboratory van, as well as an Isotope Ratio Mass Spectrometer and IWS specifications for use in West Michigan. Both systems will allow more complete analysis of information about Michigan’s variable subsurface geology.

Less expensive, more accurate information that covers a broader area of the state will be made available with the new equipment.

According to Barcelona, experts previously attempted to assess the ground water quality and quantity in a region by reviewing data from wells dug in an area or boreholes drilled specifically to obtain geologic or geochemical data. Such site-specific information is valuable but can present problems in interpretation, particularly between specific contamination sites and the region’s overall water resources are not clear-cut.

Michigan’s glacial geology, with its wide variations in subsurface materials, also contributes to the expense and difficulty of translating information collected at specific sites into an assessment of a wider area’s water resources.

Drilling numerous boreholes to sample and monitor water movement can be prohibitively expensive, often running between $5,000 and $10,000 per well. When examining contamination sites, even the boreholes also exacerbate the possibility of inadvertently spreading the contaminating materials.

The Ground Penetrating Radar system, Barcelona says, will be particularly valuable in prospecting a site between existing boreholes to reveal subtle differences in the texture, permeability and density of geologic materials.

The radar utilizes a microwave power source and antenna system that can travel behind a mobile van. The microwaves are long, high energy waves similar to those used in cooking. They penetrate the earth and bounce off subsurface material, returning signals back to the antenna. Multiple readings of an area using different antenna strengths will result in a picture of the subsurface formation.

The IWS Ground Penetrating Radar system has been used to depict subsurface formations at depths of up to 300 to 400 feet. On campus, the radar system will be used under the direction of William A. Stuck, Institute for Water Sciences.

Another finding is that achievement differences between men and women who enter the University are eliminated by the time students become seniors, Bunda said. Women score slightly below men when they take the test as freshmen.

"Either the test results validate our grading system or our grading system validates the test results," Bunda said. The COMP test, developed by the American College Testing Program, is administered to freshmen and to seniors at the end of the year as part of efforts to assess the outcomes of general education.

The test was first administered in 1987 on an experimental basis. The 1989-90 results covered at the Senate meeting reflect the first year that all seniors took the test as a graduation requirement. The 1989-90 profile of the average scores on the COMP test is below the national mean for institutions like WMU.

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WMU will be one of the receiving sites of a videoconference on "The Rise in Campus Racism: Causes and Solutions" at 1 p.m. Wednesday, Feb. 20. The videoconference, presented by Black Issues in Higher Education magazine of Fairfax, Va., will be shown in the West Ballroom of the Bernhard Center. A panel of national experts will look at the root causes of the rise in racism at American colleges and universities and offer discussion, analysis and solutions specifically geared for these institutions. The panel will include: Michael William Smith, assistant secretary for civil rights in the U.S. Department of Education; Na’im Akbar, a psychologist and educator from Florida State University; Howard J. Ehrlich, director of research for the National Institute Against Prejudice and Violence; and Mary Ellen Ashley, author of "Combating Racism on Campus" and vice provost at the University of Cincinnati; Seattle. 

Personal and professional choices for women to be theme of 10th annual conference Feb 22

"Choices for Women: Personal and Professional" is the theme for the 10th annual Issues and Opportunities for Women Conference scheduled for Feb. 22. The conference will run from 7:45 a.m. to 1:30 p.m. in the Bernhard Center. Its goal this year is to share ideas on how women can improve their lives, both professionally and personally. However, topics are designed to be broad enough to invite the general public.

Plastics recycling is focus of dinner speech

A nationally known speaker on plastics recycling will address the two, "The Kind of Light That Shines Behind Us," which was the author of several works including a novel and two prize-winning short stories as read at 8 Berliner Knauss Hall. He also will lead a seminar on "A Reassessment of Central Planning Problematics." McKnight also will receive critical acclaim from reviewers across the country.

WMU joins international water council

WMU has joined the Universities Council on Water Resources as the first national organization of more than 100 universities united to encourage education and research in water resources.

"Our participation in this council seems to be an extension of the University's Institute for Water Sciences and and reflects our institutional commitment to encourage education and research in water resources," said A. Bruce Clark, provost and vice president for academic affairs. "Dr. Michael Schneider, director of our institute and professor of chemistry, will serve as WMU's representative to the national organization."

The council's purposes are: to facilitate water education at all levels; to promote meaningful research and technological transfer on contemporary water issues; to inform the water professionals on ways to discuss various publics on water issues with the objective of communicating pertinent decisions at all levels of society.

The council publishes an annual statement of activities and an annual report. The council also will hold a seminar on "A Reassessment of Central Planning Problematics." McKnight will use his fellowship to work on a new historical novel that he says will require a great deal of research.

EMPLOYMENT POSSIBILITIES -- Among the 3,000 people who attended the 13th annual Career Fair Feb. 7 in the Bernhard Center were, from right, Kevin Simonds, a junior from Adrian. They talk here with Kristin Prehay, assistant director for career planning and placement services. They're among 1,200 artists and authors who will share $47 million in NEA grants this year.

Two faculty members in the Department of English have been awarded $20,000 Creative Writing Fellowships through the National Endowment for the Arts.

Jaimy Gordon and Reginald McKnight are among 1,200 artists and authors who share $20,000 in grants this year.

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Week designed to recognize student employees

The University will recognize an important part of its work force Feb. 18-22. That’s the annual Student Employment Week, a time when the University community takes note of the contributions student employees make to the overall success of figures to students employed and by the University. 

"I urge the University community to join with me in the appreciation of student employees and the students who have participated in the employment program. They are a significant part of the work force of the future of the University and of society in a resolution proclaiming the week."

Earlier this year, the student employees of the campus opened the name of students who contributed greatly to the success of the departments in which they work. The names of student employees will be made available by calling Lynn C. Bryan at 7-2269.

Many departments also will thank their students by planning out the ordinary activities, such as special bulletin boards or parties. Paul S. Kato, intercollegiate athletics director, has opened special Law-son Ice Arena for his student employees. Consultants and graduate students will include a workshop on "How To Find an Internship" from 3 to 4:30 p.m. Tuesday, Feb. 19, in the career planning and placement services conference room on the first floor of Evershall Hall. There also will be a "Career Days" open employment Day from 10 a.m. to 4 p.m. Thursday, Feb. 21, in the Bernhard Center ballrooms.

According to a listing from the student employment referral service, nearly 4,000 students worked on campus during the last pay period alone, earning more than $400,000. The annual student employment budget is about $7 million.

Students are involved in everything from washing dishes to driving the Zam- bonne for hockey games. Each day, students are responsible for answering phones, putting together packets to find transportation and making纳米s. The job is challenging and dif- ferent, and the staff is wonderful and caring -- this fits my needs," Bryan said. "Students can increase their marketability, become ex- posed to new environments, develop job skills and build networks and re- turn for future employment. It’s commonly known that past work experience is a major factor in the job of our gradu- nates."

Top minority students to vie for scholarships

Some 100 top minority high school students and their parents from across the state will gather at the University Friday, Feb. 15, to participate in the first WMU-Michigan Minority Education Incentive Scholarship Com- petition.

The event, sponsored by the Office of Admissions and Orientation, will run from 9 a.m. to 3 p.m. in the Bernhard Center.

To be invited to participate, students must have been admitted to WMU and had to have at least a 3.5 high school grade point average and had to be an ethnic minority.

Each student who comes to the com- petition and decides to attend WMU will receive at least a $4,000 scholarship. Ten students will receive the Higher Educa- tion Incentive Scholarship worth $16,000 each. The awards are part of WMU’s merit scholarship programs which is valued at more than $1 million.

Following a welcome and student questions, the visiting students will hear a presentation on the Lee Honors College. At 10:15 a.m., students will participate in a composition exercise and listen to a panel discussion by current Higher Education Incentive Scholarship recipients. During that time, parents will attend presentations on financial aid and other general information about WMU.

A luncheon for parents and students will feature a speaker by Danny E. Sledge, minority affairs. After lunch, the students will participate in group interviews, while the parents take a campus tour. The event will conclude with a reception at 2:30 p.m. at the President’s Presence.

"Our goal is to present these families a better conception of the faculty, staff and student support that their students could benefit from if they should choose to attend," WMU President R. Mosher, human resources, at 7-3620.

American civil religion scholar to speak on 'sacred' battlefields, memories of war

Edward T. Lin-enthal, professor of religion at the Uni- versity of Wiscon- sin at Oshkosh, will speak at WMU at 7:30 p.m. Thursday, Feb. 20, in the Bernhard Center. Lin-enthal will speak on "Sacred Ground: Americans and Their Battlefields" at 7:30 p.m. Wednesday in 3760 Knauss Hall. The lecture will be drawn from his forthcoming book, "Reservers of Spiritual Power: The Functions of American Battle- fields," which discusses the landscape of battlefields on American soil and the memories by which they are converted into "sacred" sites.

At 3:45 p.m. Thursday, Linenthal will discuss "Rediscovering the Memory of War in America" in 3770 Knauss Hall. He will be joined by James M. Ferreira and Judith F. Stone, both history, and Jerome Long of Wesleyan University in Con- necticut. They will focus on how selective memory has affected U.S. perceptions of war.

An expert on American civil religion and American perceptions of war and warfare, Linenthal also is the executive director of the Wisconsin Institute for the Study of War, Peace and Global Cooper- ation. He is a 1969 WMU graduate.

Linenthal has published several books, including "Symbolic Defense: The Cul- tural Significance of the Strategic Defence Initiative," "The Culture of War: Fifty Years of Americans at War," and "Images of the Warrior Hero in America." Linenthal also has written numerous articles and reviews. His work is summarized in a monograph by the American Historical Association.

Obituary

Duane L. Sult, retired from adminis- trative data processing, died Feb. 8 in Kalamazoo. He was 55.

Sult retired as an administrative data pro- cessor after 24 years of service to the University. He had worked at Western Michigan Uni- versity and was a member of the Portage-Schoolcraft Eagles Lodge, the Michigan Motor Home Club and the Victory Baptist Church of Portage.

His wife, Patricia L. Sult, who survives, is a staff member in the WMU registra- tion office.

Persons may make memorial contribu- tions to Hospice of Greater Kalamazoo.

Media

Arthur W. Helweg, anthropologist, dis- cusses the impact of global migration on "Focus," a five-minute interview pro- duced by news services. "Focus," scheduled to air Saturday, Feb. 16, at 6:10 a.m. on WKZO-AM (590) and at 5:45 a.m. on WKZO-AM (590) and "Images in Black and White," a pro- gram produced by media services, will air on Kalamazoo Community Access Tele- vision Feb. 17. The program looks at black stereotypes in the mass media. It will air at 6:50 p.m. Sunday, Feb. 17, on Channel 33; 8:30 p.m. Tuesday, Feb. 19, on Channel 33; 7:30 p.m. Friday, Feb. 22, on Channel 22; 2:30 p.m. Saturday, Feb. 23, on Channel 22.
Sunday/Feb 17
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Thursday/14
(thru 28) Black History Month display of pictures of historical black women achievers, outside the Space Gallery, Knauss Hall.

(thru March 1) Exhibition, "Watercolors and Mixed Media," Judith L. Peters, Schoolcraft artist, 1240 Seiberling Administration Building, weekdays, 8 a.m.-noon and 1-5 p.m.

Campuswide blood pressure screening: outside 2037 Kohorn Hall, 9:30 a.m.-3:30 p.m.; and Burnham halls lobbies, 4:30-6:30 p.m.

(thru 28) Exhibition, one-man show of paintings, Richard Keaveny, art, Gallery I, Sangren Hall, weekdays, 10 a.m.-5 p.m.

(thru March 1) Exhibition, "Prints, Drawings and Handmade Books," by Charles Heasley, associate professor of art, State University of New York at Cortland, Space Gallery, 2700 Knauss Hall, weekdays, 10 a.m.-4 p.m.

Mathematics and statistics colloquium, "Central Planning with Bribery and Markets," Huizhong Zhou, economics, Commons Room, sixth floor, Everett Tower, 4:10 p.m.; refreshments, 3:45 p.m.

University film series, "Shirley Valentine" (England, 1989), directed by Lewis Gilbert, 2750 Knauss Hall, 5:30 and 7:30 p.m.

(eurh 17) University theatre productions, "Gianni Schicchi" and "The Legend of Billy the Kid," COD Auditorium, 7:30 p.m., and 2 p.m.

(thru 16) University theatre production, "Currents," Dalton Center Multi-Media Room, 8 p.m.

Friday/15
Higher Education Incentive Scholarship Competition, Bernhard Center, 9 a.m.-3:30 p.m.

Campuswide blood pressure screening, outside 2037 Kohorn Hall, 9:30 a.m.-3:30 p.m.

Black History Month speech by Juan Williams, author of the book, "Eyes on the Prize: America's Civil Rights Years, 1954-1965," South Ballroom, Bernhard Center, 3 p.m.

Mathematics and statistics colloquium, "Using Lego TCologo in the Elementary Mathematics Classroom," Christine A. Browning, mathematics and statistics, 2275 Rood Hall, 4:10 p.m.; refreshments, 3:45 p.m.

(* Hockey, WMU vs. Ferris State University, Lawson Arena, 7:30 p.m.

Saturday/16
Medallion Scholarship Competition, Bernhard Center, Sangren Hall and Fetzer Center, 9 a.m.-9:30 p.m.

Women's basketball: WMU vs. Ball State University, Read Fieldhouse, 12:30 p.m.

*Men's basketball, WMU vs. Ball State University, Read Fieldhouse, 2:30 p.m.

Saturday/17
Concert, University Concert Band directed by Patrick Dunnigan, Miller Auditorium, 3 p.m.

Curricular debate recital, Betty R. Pursley, organ, Dalton Center Recital Hall, 5 p.m.

Monday/18
(thru 22) Student Employment Week.

Campuswide blood pressure screening: first floor lobby and Bronco Mall, Bernhard Center, 9:30 a.m.-3:30 p.m.; and Draper and Siedschlag halls lobbies, 4:30-6:30 p.m.

Black History Month brown bag lunch, "Bringing the Gap Between African and African-American Students," Nanle P. Bulus, WMU senior from Nigeria, multi-purpose room, Kanley Chapel, noon-1 p.m.

The Foundations of Gender Inequality lecture series, "The Evolution of Patriotry," Barbara B. Smuts, associate professor of psychology and anthropology, University of Michigan, 2302 Sangren Hall, 7 p.m.

Chinese Student Association films, 3750 Knauss Hall: "Banana Paradise," 7-9 p.m.; "Father," 9-11 p.m.

Guest artist recital, Lyric Arts Trio, music for clarinet, voice and piano, Dalton Center Recital Hall, 8 p.m.

German Reunification Club, "M" (Germany, 1931), directed by Fritz Lang, 2302 Sangren Hall, 7 p.m.

(thru 28) Training and development seminar, "Intervention," three-module series for supervisors, Kathy O. Kreager, Employee Assistance Program, 212 Bernhard Center, 3 p.m.-4:30 p.m.

Campuswide blood pressure screening: first floor lobby and Bronco Mall, Bernhard Center, 9:30 a.m.-3:30 p.m.; and Draper and Siedschlag halls lobbies, 4:30-6:30 p.m.

Student Employment Week workshop, "How To Find an Internship," career planning offices, planning services conference room, first floor, Ellsworth Hall, 3:40-3:30 p.m.

*12th Annual Engineers' Week Dinner, featuring a speech, "A Blueprint for Plastics Recycling," by Jerry Yousewin Hunley, director of recycling, Council for Solid Waste Solutions, Washington, D.C., East Ballroom, Bernhard Center, 6:30 p.m.; social hour, 5:30 p.m.

Panel discussion, "The Bill of Rights: Focus on the Fourth Amendment," James Gregart, Kalamazoo County prosecutor, and Paul Denenfeld, legal director for the American Civil Liberties Union of Michigan, and a student panel, 3770 Knauss Hall, 7:30 p.m.

*Concert, New York City Opera National Company in Mozart's "The Marriage of Figaro," Miller Auditorium, 8 p.m.

Wednesday/20
Campuswide blood pressure screening: Dalton Center lobby, 9:30 a.m.-3:30 p.m.; student Employment Week, classroom centers and Hoeke Hall lobby, 4:30-6:30 p.m.

Writing workshop for the preparation of doctoral dissertations, specialist projects and master's theses, Faculty Lounge, Bernhard Center, 10-11 a.m.

Videoconference, "The Rise in Campus Racism: Causes and Solutions," West Ballroom, Bernhard Center, 1 p.m.

*Joseph Berlinski, professor emeritus of English, and a student panel, "A Reassessment of Central European Socialism," 3760 Knauss Hall, 3 p.m.; lecture, "The Transition from Soviet Socialism," 3750 Knauss Hall, 8 p.m.

Chinese Student Association films, 3750 Knauss Hall, Bernhard Center, 6:30-8:30 p.m.

Visiting Scholars and Artists Program lecture, "Sacred Ground: Americans and the American Civil Liberties Union of Michigan, and a student panel, 3770 Knauss Hall, 7:30 p.m.

Thursday/21
Campuswide blood pressure screening, Seiberling Administration Building lobby, 9:30 a.m.-2 p.m.; and physical plant, 2:30-3:30 p.m.

Student Employment Day, building lobby, Bernhard Center, 10 a.m.-4 p.m.

Environmental studies lecture, "Environmental Careers," Willard Rose, executive director, Kalamazoo Nature Center, 10 a.m.; and 2 p.m.

Visiting Scholars and Artists program panel discussion, "Reshaping the Memory of War in America," featuring Edward T. Linenthal, professor of religion, 3770 Knauss Hall, 6:30-8:30 p.m.; lecture, "Asian American Film," 3750 Knauss Hall, 8 p.m.

Chinese Student Association films, 3750 Knauss Hall: "Honor Thy Father," 7-9 p.m.; and "Let's Go," 9-11 p.m.

*Admission charged

Seminar on Taiwan economy.

• "On Taiwan Economy," with Weihong Smuts, economics; and Roger Y.W. Tang, accountancy, Economics lecture-seminar series, Joseph Berliner, professor emeritus of economics, 2302 Sangren Hall, 6:30-8:30 p.m.

• "Education in Taiwan," with Philip Smuts, economics, Brandeis University: seminar, "A Reassessment of Central European Socialism," 3760 Knauss Hall, 3 p.m.; lecture, "The Transition from Soviet Socialism," 3750 Knauss Hall, 8 p.m.

• "Chinese Mind," with Kung-Wei Smuts, economics; and P.F. Hsieh, mathematics and statistics; "Historical, Political and Economic Overview," with Albert Y. Chang, international relations.

Speakers will address these topics:

• "On Taiwan Economy," with Wei-Hong Smuts, economics.

Senate (Continued from page one)

appropriations we might get.

Noting that increased enrollment this year has helped the University absorb the first round of cuts of about 1 percent, Haenicke said he expected next year's freshmen class to be about the same size as this year's despite projected decreases in the pool of graduating high school seniors.

"While it is early to make predictions, we still believe that our enrollment will be flat in terms of incoming freshmen," he said. "We think we can hold our own, which would be a remarkable accomplishment."

In its only action of the meeting, the Faculty Senate tabled a proposed policy on misconduct by faculty and staff members, which was presented by James Gregart, Kalamazoo County prosecutor, and Paul Denenfeld, legal director for the American Civil Liberties Union of Michigan, and a student panel, 3770 Knauss Hall, 7:30 p.m.

*Admission charged

Seminar planned on Taiwan economy.

• "Historical, Political and Economic Overview," with Albert Y. Chang, international relations.

Speakers will address these topics:

• "On Taiwan Economy," with Wei-Hong Smuts, economics.

The historical, political, economic, educational and philosophical aspects of the country of Taiwan will be explored in a seminar from 6:30 to 8:30 p.m. Wednes-

day, Feb. 20, in 210 Bernhard Center.

"Taiwan Today -- Too Big To Ignore," the free event is being organized by WMU's Chinese Student Association.

Speakers will address this topics:

• "Historical, Political and Economic Overview," with Albert Y. Chang, international relations.

The lecture series was organized by the Dean of Anthropology, and is sponsored by the College of Arts and Sciences, Lee Honors College, Visiting Scholars and Artists Program and Women's Center, as well as member institutions of the Kalamazoo Consortium for Higher Education. For more information, persons may contact the Department of Anthropology at 7-3969.

Tickets still available

Tickets are still available for the Cleri-
cal/Technical Organizations "Starlight Express" Saturday, March 30, at 8:30 p.m., in the DeVoe Hall in Griffith Auditorium. For more information, persons should call Ruth E. Mader, Bernhard Center, 4-8461, by Thursday, Feb. 28.