We wish you and your families the happiest of holiday seasons, and we hope that your New Year is full of good health, promise and fulfillment.

We join with each of you in hoping for a good New Year for our University as well.

Special insert published
This issue of Western News contains an insert produced by the Office of Public Information. Pursuant to published periodically to provide an in-depth look at research and economic development activities at the University.

Gov.-elect Engler keeps his promise
$833,000 University budget cut less than expected

The University faces a cut in state appropriations of $833,000 to its current base budget but, because of increased enrollment, no cuts will have to be made at this time in current budgeted accounts, President Haenicke told the Faculty Senate Dec. 6.

"The cut is far less than expected because Gov.-elect John M. Engler has upheld a campaign promise to support higher education," Haenicke said. "And that would have meant an equal cut in current budgeted accounts.

Haenicke warned, however, that if the state's economy continues its slump, additional budget cuts are possible during the remainder of the University's fiscal year, which runs from Jan. 1 and June 30.

But the impact is something we can handle," he said. "And we have reason to believe that the governor-elect will continue to stick to his campaign promise that he will freeze or cut state spending in order to avoid cuts in current budgeted accounts," Haenicke added.

Coyne announces plans to resign

Thomas E. Coyne, the longest serving vice president in the history of WMU, announced Dec. 11 his intentions to resign as vice president of student services, effective Jan. 1, 1992.

"I believe the cut in the 1991 calendar year, to be followed by early retirement, effective Jan. 1, 1992. Coyne said as a 'great advocate of the students,' President Haenicke indicated that he will recommend the administrative leave and early retirement for Coyne at the Dec. 21 Board of Trustees meeting.

"I hope the University will provide long and distinguished service to the University Board to meet Dec. 21

The Board of Trustees will meet at 11 a.m. Friday, Dec. 21, in Board Room of the Bernhard Center. These Board committee meetings are also scheduled: for that date in the Bernhard Center: Budget and Finance Committee at 9:30 a.m. in Room 205; and Academic and Student Affairs Committee at 10:15 a.m. in Room 204. Meetings are tentative at Western News press time. All meetings are open to the public.

Faculty and staff invited to holiday reception

President Haenicke and the Board of Trustees invited faculty and staff members to attend a holiday reception from 2:30 to 4:30 p.m. Friday, Dec. 21, in the South Ballroom of the Bernhard Center.

Supervisors are encouraged to arrange work schedules so that staff members who wish to attend the reception some are invited to the reception. The deadline is noon Tuesday, Jan. 8.

Next News is Jan. 10

This is the last issue of Western News for the fall semester. The next News will be published Jan. 10. The deadline is noon Tuesday, Jan. 8.

Haenicke speaks at Senate, issues statement to clarify position on property acquisition

The University has offered to buy the house occupied by Arthur and Roberts Sheets at 1126 Knollwood Ave. and allow them to live in it without rent or taxes as long as they are both living, President Haenicke told the Faculty Senate Dec. 6.

"The offer to buy the Sheets' house is an honest offer to buy the Sheets' house at a price fair and good and heartfelt reasons, joined the public arena, chastising the University for its perceived insensitivity, for its lack of consideration and compassion, and accusing WMU of attempting to force an aging and ill couple out of their home. Individuals, many no doubt for good and heartfelt reasons, joined the public arena, chastising the University for its perceived insensitivity, for its lack of consideration and compassion, and accusing WMU of attempting to force an aging and ill couple out of their home.

"Unfortunately, none of the vocal critics of the University was aware of the precise facts of the matter, and they made a conscientious attempt to inform themselves properly about it. It is therefore time to set the record straight.

The University did indeed make an offer to buy the Sheets' house at a price slightly above the appraised market value. When in subsequent negotiations it be

(Continued on page four)
You're never too old to learn. At least that is the case with Mervin H. Draper of Kalamazoo, who is expected to graduate from WMU Dec. 22 with a bachelor's degree at the age of 85. He joins the late Lina T. Marshall, who graduated from Kalamazoo Valley Community College, where he began taking courses in 1975 at the age of 70.

Draper graduated from Kalamazoo Central High School in 1924 and joined the Army. He later worked for the Salvation Army, primarily in the South, before returning to Kalamazoo to work in the paper industry. He remains active in the Salvation Army today.

"I've just always enjoyed studying things," Draper says. "A few years ago from what is now the James River Corp. in Kalamazoo. "After I retired, I found something to fill in a little time, something different."

That turned out to be college, where he has taken courses in history, religion, the humanities, philosophy and English, usually one or two each semester. He is currently enrolled in a course in American dialects, his last before graduation.

"As a senior citizen, I have to wait until the end of the registration period to see what course is available," the Unit. "You can never tell what course you'll get, but I've enjoyed them all. Every course is different. That's what intrigues me."

Draper is enrolled in a student-planned curriculum, which offers him the kind of freedom his educational goals require. It's an approach that is attractive to many non-traditional students, according to Draper's adviser, Charles V. Spaniolo, director of the Learning Enrichment Center.

"Non-traditional students are often caught up with getting their degrees and to some particular career goal," Spaniolo says. "In Mervin's case, he's interested in learning for learning's sake."

Spaniolo says he is impressed with the liberal education that Draper has achieved: "I sometimes think that the whole idea of a liberal education means more to Draper, like mine, who had encountered life. He brought a lot to his course, and I know he got a lot out of it."

Draper acknowledges that he's probably the oldest person in his classes, but it never bothers him. "I've had young people around me all my life, my own family, other young people," he says. "I've had a lot of younger friends. It provides a lot of interesting situations."

Draper and his wife, Margaret, have five grown children.
Teacher preparation, research are keys to continuing WMU tradition

When Michigan named its 1990-91 Teacher of the Year recently, few at WMU were surprised to hear that the winner was an alumnus of the University.

Katherine Afendoulis, a third-grade teacher at Forest Hills' Collins Elementary School near Grand Rapids, earned a bachelor's degree from WMU in 1975 and a master's degree in 1977. She is one of a long list of distinguished teachers who began their careers with a degree from WMU.

The University that began in 1903 as a normal school for teachers has grown into a multi-faceted graduate intensive institution. Graduate enrollment now accounts for nearly 25 percent of the student body and external support for research exceeds $10 million per year. But WMU has never lost sight of its original mission and still excels at doing what its founders intended it to do - turn out first-rate teachers for the state's and nation's schools.

University alumni fill teaching, administrative posts

In Michigan alone, more than 8,000 WMU alumni are currently teaching in public and private schools and another 530 hold such administrative titles as superintendent, principal or assistant principal.

Nationally, the University is the seventh largest producer of teachers. The College of Education offers bachelor's degrees leading to careers in all levels of education. That college also supports master's degree programs through six of its departments, doctoral degree programs in four areas and a specialist degree.

Through the College of Arts and Sciences and the College of Fine Arts, students also may pursue graduate degrees in the teaching of such subjects as earth science, mathematics, geography and music.

With mounting concerns about the quality of the nation's work force, WMU's longstanding position in the field of education has made it a prominent player in investigating ways to improve the nation's schools. Funded projects on campus are leading Michigan's drive to alter the way science and mathematics are taught to elementary and middle school students. When private foundations invest money in efforts to improve services to the nation's youth, WMU's Evaluation Center is called in to ascertain the quality of the programs and personnel charged with implementing them.

In addition to providing well-trained educators, the University's research and graduate capabilities mean it can now investigate such questions as, "How can a school district fairly evaluate the quality of its teachers?" and "How can computer technology be applied to improving a district's special education programs?" Those are just two major efforts occupying education specialists on the WMU campus.

Advanced degrees offered through regional centers

Teachers already employed at school districts across the state depend on the University's Division of Continuing Education to provide opportunities for them to take classes to maintain their certification and to earn advanced degrees. Four of WMU's six regional centers offer classes designed to meet Michigan's 18-hour certification requirement. Requirements for certification or endorsement as a Michigan school administrator also can be met through WMU's regional centers.

Complete master's degree programs in three areas of educational leadership are available at three regional centers - those located in Battle Creek, Benton Harbor and Muskegon. One of WMU's six satellite campuses, the Grand Rapids Regional Center, offers seven complete master's degree programs in education as well as a complete doctoral degree program in educational leadership. Master's programs also are offered to teachers in the communities of Coldwater, Holland and Marshall. Such services for the state's teachers comprise about a quarter of the University's off-campus offerings.

In addition, the University offers residents of the Upper Peninsula the opportunity to earn a doctoral degree in educational leadership from WMU without ever leaving their area. Through arrangements with Northern Michigan University in Marquette, WMU takes the doctoral program to students.

With the help of business, the University also is bringing technology into the instructional setting and making sure that tools such as computers can be easily used by new teachers entering the classroom. A recent $225,000 grant from the IBM Corp. has equipped a Sangren Hall computer laboratory that is being used to train new and practicing teachers in the expanded use of technology in the classroom.

University center leads U.S. evaluation efforts

Just one month into its existence, WMU's new national research center on educational accountability and teacher evaluation is off and running with seven projects under way. The Center for Educational Accountability and Teacher Evaluation (CREATE) is funded by a $5.2 million, five-year grant from the U.S. Department of Education. It is largest single grant in the University's history.

Officially in existence since Nov. 1, CREATE offices have been the scene of intense activity, planning sessions and meetings with project directors from cooperating universities. Work has begun on seven of the 16 major projects that will be undertaken.

The new center is intended to provide a focal point for U.S. efforts to improve measurement criteria and procedures for evaluating the performance of teachers and administrators in public and private schools across the country as well as the effectiveness of the schools themselves.

CREATE operates under the auspices of WMU's Evaluation Center and is housed in that nationally known center. Dr. Daniel L. Stufflebeam, Evaluation Center director, serves as director of CREATE and Dr. Arnold M. Gallegos, professor of education and professional development and former dean of the College of Education, serves as CREATE's associate director and manages operations of the new center.

According to Gallegos, CREATE staff members are in the process of selecting the first 10 states that will be the focus of development activities during the coming year. CREATE plans call for interaction with all 50 states during the project's five years as well as intense focus on 10 different states during each year.

CREATE's 16 planned projects fall into four areas of concern - improvement of teacher performance evaluations; improvement of evaluations of administrators, supplementary personnel and schools; products and services/dissemination; and theory development and special projects. The seven projects that are now under way and the project directors are:

- Development of national Databases of Practices in the Evaluation of Educators and Schools, directed by Dr. Zoe A. Bailey, chief of staff of WMU's Evaluation Center; (Continued on following page)
Math education expert helps NSF make funding decisions

While his WMU colleagues focus on ways to revamp teaching to meet Michigan's new mathematics goals, Dr. Christian R. Hirsch is already seeing the fruits of his labor in the field on the national level.

The WMU professor of mathematics and statistics is proving the unique opportunity of seeing the impact of four years of work he has devoted to the development of a set of national curriculum and evaluation standards for school mathematics.

Hirsch, currently on leave from the University, is in Washington, D.C., working as a program director in the National Science Foundation's Division of Materials Development, Research and Informal Science Education. He reviews and offers guidance on funding proposals that come from around the country. Many of those proposals are aimed at implementing national standards that he has worked to develop.

Hirsch was one of 13 members of a commission charged by the National Council of Teachers of Mathematics (NCTM) in 1986 with developing a set of standards to improve the quality of school mathematics nationwide. The Curriculum and Evaluation Standards, released in March 1989, reflect a need for sweeping changes in the way mathematics is taught to students in grades K-12. The standards have been endorsed by the Bush administration and all of the major mathematical sciences organizations and have been distributed to 100,000 teachers, administrators, authors and textbook publishers across the nation.

The standards, which are already being reflected in new mathematics textbooks and computer software, offer a framework for teaching mathematics in a way that emphasizes student investigation, application and the use of calculators and computers. They also call for developing the major strands of mathematics -- algebra, geometry and calculus -- as a unified whole rather than as isolated subjects.

Hirsch chaired the national standards writing committee for the grades 9-12 curriculum and is presently heading a project which is developing a series of books for high school teachers that will assist them in implementing the standards.

He believes his record in curriculum development together with his work with the NCTM resulted in the invitation he received last winter from a NSF division director to spend a year helping to shape the future direction of the NSF's support for mathematics education.

For Hirsch, the experience has been rewarding. Not only is he reviewing many strong proposals and learning the operating procedures of Washington's funding agencies, he is finding that the most successful proposals going through his NSF division these days are those aimed at putting the new NCTM standards into practice.

Hirsch, who is scheduled to remain at the NSF through August 1991, says he is gaining knowledge that will be invaluable in determining his own future research directions and some that will be helpful to his colleagues as well.

"In the short time I've been here," he says, "I've gained considerable insight into the inner workings of this funding agency and a sensitivity to that review process that weighs heavily in making award recommendations."

The new materials developed for the project will be presented to teachers in a way that will demonstrate teaching behaviors designed to develop conceptual understanding and higher level thinking skills and will provide sample classroom activities that are appropriate for the K-6 students. The new directions emphasized are intended to correct deficiencies in U.S. students' mathematical skills.

While U.S. students do a good job at computation, say Laing and Meyer, they appear seriously lacking in their ability to apply those skills to solve real-world problems. They also have serious deficiencies in their ability to do estimation and mental math -- the "right" kind of estimations.

They need to be taught to think about mathematics, the pair say, not just the procedures used to solve problems.

Students need to know how to estimate the answer to a problem without writing it down and going through the procedure.

"We need to teach kids that there are three kinds of mathematics calculations -- the kind you do in your head, the kind you do with paper and pencil and the kind you do with a calculator," says Laing, citing the inability of many U.S. students in recent testings to arrive at a reasonable estimate of mathematics problems without resorting to use of pencil and paper.

Trio works to improve new teacher training

With Michigan's current teachers the focus of a statewide project, another federal grant to WMU researchers will provide curriculum models to improve the mathematics preparation for many of the nation's future teachers.

The National Science Foundation awarded a $287,875 grant in September to a trio of WMU mathematics education specialists to design and develop instructional materials for two undergraduate courses. The first course will be designed for college students preparing to teach elementary school mathematics and will emphasize the concepts, processes and applications of probability and statistics. Students preparing for careers as mathematics teachers in secondary schools will be the focus of the second course being designed. That course will emphasize the uses of computing technology.

Dr. Ruth Ann Meyer, Dr. Dwayne E. Channell and Dr. James R. Flanders, all faculty members in WMU's Department of Mathematics and Statistics, are directors for the two-year project that will focus on developing models to assist mathematics teacher educators across the country in designing and offering the two courses at their own universities.

Both courses will be designed to reflect the new mathematics standards recommended by the National Council of Teachers of Mathematics.

CREATE (continued from previous page)

* Identifying and Assessing Models of Teacher Evaluation Systems, directed by Dr. Michael Scriven, director of the Evaluation Institute of the Pacific Graduate School of Psychogy in Palo Alto, Calif.

* Development of Valid Contextual Data for Developmental Stages of Science Teacher Performance in Relation to Student Learning, directed by Dr. Judith Burry of the Evaluation and Assessment Laboratory at the University of Alabama in Tuscaloosa:

* Development and refinement of Models for School Evaluation, directed by Dr. Edgar A. Kelley, WMU professor of educational leadership;

* National Workshops for Education and Training in Evaluation to disseminate the information gathered and models developed, directed by Gallaugher;

* Adapting Deming's Statistical Process Control Model used in business and industry to the educational setting, directed by Dr. David Bayless, vice president for educational programs at Westat Inc. of Rockville, Md.; and

* Development of models for Evaluating the Ability to Work With At-Risk Students and Their Families, directed by Dr. Carolyn Dickens, trainer for the Institute for Service, Children, Infants and Youth and Their Families at the University of South Florida in Tampa.
New teacher draws on engineering experience

Corporate problems bring physics to life

Making a career switch from the corporate product development office to the high school science classroom doesn't mean leaving the problems of industry behind, says a WMU graduate who recently made such a move.

In fact, Larry R. Milks, a first-year physics teacher at Comstock High School, has taken some of the "problems" with him to the physics classroom -- as a way of showing students that physics concepts can supply real-world solutions to problems faced by those who develop consumer products.

Milks, who recently earned a master's degree in science education and is interested in the applications of his former employer's technology, decided to make a switch to the high school classroom. "As a young engineer, I was given significant assignments that were challenging and exciting to work on," he says. "I wanted to share that excitement with others. I realized that the concepts they learn in school are applied in the real world of industry and how exciting that can be." In the packet, Milks details the medical problems for which the Stryker Corp. products that use simple physics concepts to overcome common surgical problems. Included in the packet are sketches of five of Stryker's most popular products in the teaching of the new science objectives. The program is funded by the Michigan Department of Education.

THE IMPACT OF CENTRIPETAL FORCE ON EXTRACTION OF WISDOM TEETH -- A lesson in the basic physics concept of centripetal force during a recent Comstock High School physics class led teacher Larry Milks to show students how the concept was used to reduce the amount of blood and saline that enters an electric powered drill used to cut bone and marrow during the removal of wisdom teeth. The drill he is showing here is one of two Stryker Corp. products that use simple physics concepts to overcome common surgical problems.

Center for Science Education oversees WMU efforts to improve science teaching

If the topic is science education for anyone at the kindergarten through the doctoral degree level, chances are good that WMU's Center for Science Education has been deeply involved. A series of new science education initiatives and new funding underscore that involvement.

A replacement for an earlier WMU entity, which focused on science and mathematics education, the Center for Science Education was established in 1988. The center, part of the Graduate College, has responsibility for overseeing all of the University's elementary and secondary education science education programs, directing graduate science education programs and conducting inservice training for Michigan science teachers.

Directed by Dr. Robert H. Poel, the center was formed to focus attention on some of the nation's most critical issues, including the need for improved upper elementary and middle school science education. A new set of essential goals and objectives in the field's current being developed in Michigan and these objectives highlight the increased demands on those who teach science. Poel is a member of the state steering committee overseeing the new objectives for science education and much of the center's current work revolves around preparing teachers for the task of implementing those goals and objectives.

To prepare for the teaching of the new science objectives and to improve the quality of science education in general, the center has become home to a number of science education initiatives, including: operation physics, part of a national science foundation initiative to upgrade science teachers' knowledge of physics concepts and to provide those teachers with ideas for effectively teaching those concepts to students (See story on following page). The program is funded by the Michigan Department of Education.

* SEMSplus, a statewide focus on Science Education in Michigan Schools. The role of the WMU center in that project, also funded by the Department of Education, has been to provide inservice workshops for science teachers and school district administrators to prepare them to implement Michigan's new K-12 science objectives. And last summer's workshops included sessions on meteorology, earth science and electricity and magnetism, as well as curriculum development sessions for teacher/administrator teams to prepare for the new science objectives. The Center for Science Education recently received a $35,535 grant from the Department of Education for the coming year's SEMSplus activities.

* ICE -- the Institute of Chemical Education based at the University of Wisconsin at Madison, which was founded in 1983 to revitalize the teaching of chemistry and science at all levels in the nation's public schools. In the spring of 1990, WMU was chosen as part of ICE's network of affiliated universities and sent a team for training at the 1990 Affiliates' Workshop at Madison. Working through the center, WMU's ICE team offers a series of "Chemical Activities" programs of varying lengths to give inservice teachers at the K-8 levels hands-on experiments to use in the classroom.

(Continued on following page)
WMU OPERATION PHYSICS project gets funding to train 10 new teams

WMU's Center for Science Education has received a grant of $88,411 from the Michigan Department of Education to help the state's public schools improve science education.

The center, which is directed by Dr. Robert H. Poel, has been awarded the grant to fund continued efforts to extend the physics knowledge of middle school teachers through a national program called OPERATION PHYSICS.

The grant will fund summer training activities for 10 teams of Michigan teachers in the initiative that is sponsored by the National Science Foundation. The 10 new teams will join 11 teams already trained at WMU and working around the state as resource teams for other science teachers who are located in their respective geographic areas.

The objectives of the nationwide initiative are to enhance upper elementary and middle school teachers' understanding of physics concepts and to provide those teachers with ideas for effectively teaching physics concepts to students.

OPERATION PHYSICS teams, which usually consist of three teachers working in close proximity, undergo intensive training in basic physics concepts. Their training includes information on how to build or assemble inexpensive materials for experiments that will demonstrate those concepts to students.

During the summer of 1988, Poel and two Kalamazoo area science teachers, Donald G. Campbell of Portage and M. Dale Freeland of Paw Paw, were selected by OPERATION PHYSICS as one of two Michigan teams to be trained during a three-week intensive session at San Diego State University. Since their return, the trio has conducted more than 500 hours of physics workshops for Michigan science teachers.

During the past two summers in week-long sessions on the WMU campus, the trio trained 11 OPERATION PHYSICS teams now based at science and math resource centers around the state. Those teams, comprised of 33 teachers, are already at work preparing the OPERATION PHYSICS training on to individual teachers in their respective areas.

"We estimate that those 11 teams have already spent about 250 hours training other teachers since the first phase of team training was completed last July," Poel says.

This summer, 10 new teams will come to the campus to undergo 12 days of intensive training to complete the 13 basic OPERATION PHYSICS units that make up a full OP training program. When they return to their home areas, the Center for Science Education will act as a clearinghouse, matching requests for physics training in different areas with all of the trained teams.

The fully trained teams currently at work throughout the state are based in the following cities or areas: Ann Arbor, Bloomfield Hills, Branch County, Delton, Genesee County, Marquette High School, Traverse City and Waterford. In addition, teams currently in training are located in Holland and the Cheboygan area.

In addition to the 11 teams already in place, the two in progress and the 10 teams to be trained this summer, Poel has been working with a number of school districts around the state that have committed funding to have OPERATION PHYSICS training take place within district borders. Such funding is providing a range of activities that include complete training for a district OP team and a series of workshops on physics concepts for district science teachers.

The WMU OPERATION PHYSICS project is being carried out in cooperation with the Oakland Intermediate School District on the east side of the state, home of Michigan's other San Diego-trained team, and with the Kalamazoo Area Math and Science Center.

Center for Science Ed.
(Continued from previous page)

Monitoring and cleanup of pollution along the Kalamazoo River. This effort will be coupled with an attempt to give minority high school students experience in environmental field work. The Center for Science Education is working on this project in cooperation with the Kalamazoo Area Math and Science Center and the Kalamazoo River Protection Association. The WMU center was involved in developing successful funding proposals that resulted in Department of Natural Resources grants to both of those organizations. Additional funding currently is being pursued. The project is scheduled to begin in the spring.

WMU's Groundwater Education in Michigan (GEM) Regional Center. Funded by a grant from the W.K. Kellogg Foundation of Battle Creek, the GEM center uses the Center for Science Education's resources and Poel's expertise for a number of educational activities. Those include inservice training for science teachers and development of classroom resources kits that can be used to explain groundwater concepts to Michigan's young people.

Pursuit looks at research, economic development

Pursuit is published twice each academic year by the Office of Public Information. The purpose of Pursuit is to provide an in-depth look at research and economic development activities at the University. For more information about the publication, contact Cheryl P. Roland, assistant director of news services in the Office of Public Information, at (616) 387-4100.
Federal grant to give primary care needs of rural communities a shot in the arm

A three-year grant from the U.S. Department of Health and Human Services will fund a Kalamazoo-based project aimed at improving health care for underserved populations.

The $700,000 grant has been awarded to WMU to fund a three-year project to be carried out in cooperation with the Michigan State University/Kalamazoo Center for Rural Studies (MSU/KCMS). The project will unite Kalamazoo's two leading educators of health care professionals for the first time in an effort to train and place interdisciplinary medical teams in rural areas. The purpose of the project is to provide basic health care and to encourage team members to consider permanent locating in such areas.

Federal funding for the first year of the project is $258,312. The project will be carried out by James E. Hammont, Physician Assistant Program. Immediate beneficiaries of the project will be two West Michigan communities that will be selected to serve as placement sites for the first-year primary care teams. Existing health service agencies in Allegan, Barry, Kalamazoo, Van Buren and Berrien counties will be involved in partnering with WMU and the MSU/KCMS to determine team placement sites.

The collaborative effort between WMU and the MSU/KCMS, a non-profit organization, is a partnership between MSU College of Human Medicine, Bronson Methodist Hospital and Borgess Medical Center. It is one of six clinical campuses for MSU's College of Human Medicine. The MSU/KCMS will recruit medical students and family practice residents for the new project from all of the MSU College of Human Medicine campuses. Team members from other disciplines will come from WMU's graduate and undergraduate programs.

"Working as a team is the most effective approach to developing quality health care in rural areas," Fickenscher says. "The project will allow us to serve as a demonstration program in building effective models for training young professionals in the approach to interdisciplinary health care."

Pick-ups and deliveries available at printing

The University's printing services is now offering free pick-up and delivery. A courier will pick up your printing when it's ready and deliver it when it's finished. For more information, persons should call 7-8099.

Sunseeker shirts for sale

Sunseeker T-shirts are available for holiday gifts through the Department of Mechanical Engineering. The shirts are printed with the name of the solar-powered vehicle that was designed by WMU and Jordan College students and faculty to run in the Global Sunrace last summer. The cost is $10 per shirt for students and $15 for others. Persons who wish to call department at 7-3366 or stop by Kohrman Hall.

Media

Three members of the University community will be guests in the coming weeks on "Focus," a five-minute interview produced by news service "Focus." The program is scheduled to air on these Saturdays at 6 p.m. on WKZO-AM (1420) and at 5:45 p.m. on WKZO-AM (590) with the following speakers and topics: Miguel A. Ramirez, minority student services, on "El Grito," the Mexican Independence Day celebration, Dec. 15; Paul M. Lahti, his-story on the origins of Christmas, Dec. 22; and Lewis H. Carlson, history of the popularity of television bowl games, Dec. 29.

"Tales From the Cee," a program produced by media services, will air on Kalamazoo Community Access Television Dec. 16-21. The program features award-winning writer Howard Norman talking about his new book, "The Legend," and "I Love Lucy," a special Christmas episode. The program will be shown on the University's closed-circuit television system on the University's closed-circuit television system during the week of Dec. 24-31 at 5 p.m. Sunday, Dec. 16; 6 p.m. Tuesday, Dec. 18; and 6 p.m. Friday, Dec. 21.

Street intersection to be permanently closed

The intersection of Wilbur Street and Glikson Avenue will be closed permanently after about Dec. 24 as part of efforts to eliminate vehicle traffic in the center of the campus, according to Lanny H. Wilde, public safety.

"This change will eliminate the conflict between vehicles and pedestrians at the Wilbur and Glikson intersection and relieve some of the traffic congestion at the Rankin Avenue and Business Court intersection," Wilde said.

Access to the Wesley Foundation will be by Business, Commercial and Wilbur, Wilde said. Access to parking lot No. 40 south of the Sincade Health Center will be by Glikson Avenue.

"This change is consistent with the long-established goal of eliminating vehicular traffic from the center of campus and moving toward a pedestrian campus," Wilde said. "People are encouraged to use Western Avenue or Stadium Drive and Howard Street to drive from one side of campus to the other."

Wilde said that guards will be stationed during the week of Dec. 24 in these locations: the south edge of the Glikson and North Dormitory Road intersection; the west edge of the Glikson and Wilbur intersection; and the south edge of parking lot No. 40. Parking lots No. 40 (west of the Ahwacht College of Business building) and No. 82 (west of Rankin) will be re-striped your wage and paid during the winter semester, Wilde said.

Correction needed for W-2s

The University payroll office will be mailing W-2s before the end of January. If you have changed your mailing address, please be sure the correct name and address are on your tax statement. To change your address, use the form on the back of your paycheck envelope or send a memo to information systems, 1240 Seibert Administration Building. Changes must be received by Dec. 31 to ensure that your W-2 will be correctly addressed in January.

Assisting the dean

If you have changed your name, you must typeset your name correctly in a copy of the Dean's mailing list. Your name must be typed in your correct mailing address. Don't wait until it's too late -- do it now!

The Department of Human Resources is offering to assist department heads or their designees in the identification of new students who might be involved with a student aid application or an award letter. The department is interested in being a partner in the process of providing a kind of an advocate on the students' behalf.

Most recently, Morado has been working on the identification of the Student Life, which now will be called the Student Code. Morado says she likes the variety of her job. "I get to do a little bit of everything," she says. "I'm out attending things. Student Life, but I can also retreat to my office to do paperwork."

Volunteer information

Many jobs are available. Some are required to be posted. Interested University employees may contact an employment specialist. Our human resources office has information about employment in securing these positions.

(4) Food Worker, (65 FTE, Academic Year, 2 Positions), P-1, Dining Services, 90/91-390, 12/11-12/17/90.
(5) Library Finance Assistant, P-01, Library Services, 90/91-391, 12/11-12/17/90.
(6) Secretary III, (R) Variable Hours), P-01, Social Work, 90/91-394, 12/11-12/17/90.
(7) Temporary Information Services, 90/91-395, 12/11-12/17/90.
(8) Library Finance Assistant, P-01, Wald Library, 90/91-247, 12/11-12/17/90.
(9) Secretary III, (S) Medical In- stitute, 90/91-245, 12/11-12/17/90.
(10) Supervisor, Collection, and Re- serve, P-01, (S) Variable Hours), P-01, Wald Library, 90/91-246, 12/11-12/17/90.
(11) Library Finance Assistant, P-01, Wald Library, 90/91-247, 12/11-12/17/90.
(12) Custodian (1st or 2nd or 3rd Shift), M-2, Building Custodial and Support Services, 90/91-248, 12/11-12/17/90.
(13) Director, High School Equiva- lency Program (Term Ends 6/29/91, 37 FTE; Variable Hours), P-01, Social Work, 90/91-250, 12/11-12/17/90.
(14) Enrolled Nurse I, X-02, Cam- pus Planning, Extension and Engineering, 90/91-252, 12/11-12/17/90.
(15) New (S) Replacement

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Applicant Information Service 7-3609

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REMEmBERING THOSE IN SERVICE -- Gloria Rohr and her colleagues in the academic records office have "spruced" up their bulletin board with Christmas items to remember current WMU students who have been called to duty in the Persian Gulf. Each tree bears the first name and last initial of the student serving in Operation Desert Shield. Last week, there were 18 trees on the board, including one for a "pen pal" the office has adopted. "Most of these students are faces and not just names to me," says Rohr, who has dealt with the students in her work as the Veterans Administration clerk in the office. Personnel in the academic records office plan to correspond with not only their pen pals but the rest of the students as well. Rohr knows how important letters from home can be to those in the service -- she was a Navy wife for eight years during the Vietnam War.

Snow means early work for landscape crews

Crews in the landscape services division of the University today have begun tackling snowy walks, steps, streets, parking lots and handicap ramps during the early morning hours.

Winter working hours will be: 6 a.m. to 2:30 p.m. for employees responsible for clearing snow from handicap ramps, steps and building entrances; 3 a.m. to 11:30 a.m. for those responsible for walks; and 7 a.m. to 7:30 p.m. and 10:30 p.m. to 7 a.m. for those in charge of streets and parking lots.

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

Various steps around campus that are a convention will be closed for the winter to allow crews to provide better service on the steps that are a necessity. Students, faculty or staff members with handicaps or other disabilities who need assistance due to parking or walking conditions caused by snow or other weather should call Holszy at 7-8557.

DECEMBER

Thursday/13

(thru Jan. 11) Exhibition, "Still Lifes and Creatures," Elizabeth Abeel, Traverse City batik artist, 1240 Seibert Administration Building, weekdays, 8 a.m.-noon and 1-5 p.m.

Exhibition of paintings, Calvin Niemeyer, Grand Rapids artist, Gallery II, Sangren Hall, 10 a.m.-5 p.m.

Exhibition, "Toouchable Art," sculpture, relief and touchable art, Dora Nareth, art, Space Gallery, 2700 Knaws Hall, 10 a.m.-4 p.m.

(thru 15) Exhibition, "DiverseDirections," work of the Department of Art women faculty, Dalton Center Multi-Media Room, 10 a.m.-4 p.m.

Information meeting for the Oxford Seminar, 3324 Brown Hall, 4 p.m.

*Administrative Professional Association holiday reception, Red Rooms, Bernhard Center, 5-7 p.m.

University film series, "Children of Paradise" (France, 1943-45), directed by Marcel Carné, 2302 Sangren Hall, 7 p.m.

Student reception for faculty and staff sponsored by President Haenicke, 7-30 p.m.

Friday/14

Meeting, Executive Board and Council of Representatives of the Administrative Professional Association, Red Room A, Bernhard Center, 10 a.m.

High Noon at Dalton concert, student chamber ensembles, Dalton Center lobby, noon.

Farewell reception for Annette LaVier, media services, Studio A, Dunbar Hall, 2-4 p.m.

Women's gymnastics, Brown and Gold intrasquad meet, Gary Center, 7 p.m.

*Student recital, Etsuko Isaka, piano/harpsicord, Dalton Center Recital Hall, 8 p.m.

Saturday/15

Women's basketball, WMU vs. Chicago State University, Read Fieldhouse, 2 p.m.

1991 JANUARY

Tuesday/1

New Year's Day, offices closed.

Wednesday/2

Meeting, Clerical/Technical/Operation Employee Concerns Committee, Faculty Center, 10 a.m.

*Hockey, WMU vs. Bowling Green State University, Lawson Arena, 4 p.m.

Friday/4

Hockey, WMU vs. Bowling Green State University, Lawson Arena, 7:30 p.m.

Saturday/5

Calculus, office open.

Monday/24

(thru Jan. 1) Holiday closure, most offices closed (begins at noon Monday, Dec. 24).

Monday/25

Christmas, offices closed.

Saturday/29

Students' basketball, WMU vs. Chicago State University, Read Fieldhouse, 2 p.m.

*Student volunteer services. "It also provided students with an opportunity to discuss their volunteer activities with other students, and to share in the volunteer experiences of their peers."

Student volunteer services has planned several upcoming activities for students involved in community service projects. They include a "Volunteer Opportunities Forum," to highlight how to get involved in community service, and a hunger cleanup week in April in conjunction with the National Student Campaign Against Hunger and Homelessness.

The staff of student volunteer services welcomes invitations from faculty and student organizations to speak about the program. For more information, persons may contact Wyrya at 7-3250.

"Depression in Women" seminar to be repeated

By popular demand, the seminar on "Depression in Women: Understanding and Coping" is being repeated from earlier this semester Tuesday, Dec. 18, in the Red Rooms of the Bernhard Center.

Kathy O. Kreager, Employee Assistance Program, will discuss the experiences, symptoms and common causes of depression in women. Her exploration of how women cope with depression will focus on what women can do -- aside from psychotherapy and prescription drugs -- to help themselves heal.

Faculty and staff members are invited to bring their lunches to the discussion, which is being sponsored by the Wo- men's Center, the Sindecuse Health Center and University Wellness Programs.

Croydon Avenue School, Mount Zion Tutorial Project, Center for the Handicapped, Habitat for Humanity, American Red Cross, Big Brothers/Big Sisters, Headstart, Kalamaazoo Regional Psychiatric Hospital, Ridgeway Manor Nursing Home and the Legal Aid Clinic.

"The purpose of the celebration was to recognize the contributions our student volunteers make within our community," said Julie A. Wyrya, student volunteer services. "It also provided students with an opportunity to discuss their volunteer activities with other students, and to share in the volunteer experiences of their peers."

Student volunteer services has planned several upcoming activities for students involved in community service projects. They include a "Volunteer Opportunities Forum," to highlight how to get involved in community service, and a hunger cleanup week in April in conjunction with the National Student Campaign Against Hunger and Homelessness.

The staff of student volunteer services welcomes invitations from faculty and student organizations to speak about the program. For more information, persons may contact Wyrya at 7-3120.