Haenicke to recommend Powell as vice president and Hodge as dean at Dec. 20 board meeting

President Haenicke announced Dec. 11 that he will recommend two key administrative appointments to the Board of Trustees at its Jan. 20 meeting.

The appointments of Theresa A. Powell as vice president for student affairs and of Charles M. Hodge as professor and dean of the College of Education are subject to board approval.

Powell has been serving as acting vice president for student affairs at WMU since January 1991, when Thomas E. Coyne requested an administrative leave for the 1991 calendar year and early retirement, effective Jan. 1, 1992. Powell's appointment is effective Dec. 31, 1991.

"Powell has done an outstanding job this past year as acting vice president," Haenicke said. "She has very well against a strong national field of finalists for the position. She has my full confidence, and I look forward to continuing to work closely with her as we address the concerns and special programming needs of our students."

Hodge joined the WMU administrative staff in July 1988 as dean of students. Previously, she was a member of the nursing faculty at Grambling State University in Louisiana, and as assistant dean for student affairs at Grambling, she was responsible for academic programs in 1988 and academic program administration for two-campus campuses in 1970-75 and 1980-83, both in the Ohio Board of Regents. She was a graduate administrative associate at Ohio State University from 1981 to 1983.

Powell also served as dean of students at Wilkesherer University in Ohio in 1988-89, and as assistant dean for student life and development there in 1979-80. Other positions she has held include residence complex coordinator at the University of Delaware in Newark from 1976 to 1979 and residence hall director at Texas Christian University in Fort Worth from 1974 to 1976. She earned her bachelor's degree in soci-ology and education in 1973 from the University of Pennsylvania, her master's degree in educational administration in 1976 from Texas Christian University and her doctoral degree in educational administration in 1983 from Ohio State University.

Powell has made several presentations at professional meetings, has accepted several consulting assignments and has written several articles. She is a voting member of the Ohio Board of Regents.

She is active in the National Association of Student Personnel Administrators and is a member of the regional advisory committee. She is also a member of the Central Association consultant-evaluator and is active in the Kalama YWCA.

Hodge has held his present position at Lamar since 1989. His work there has included the initiation of a redesign of the teacher education program, with emphasis on restructuring the student teaching experience. He is a strong advocate of the collaborative partnership approach to school reform, as the pre-service preparation of school personnel.

Previously, Hodge was dean of the College of Education at the University of Arkansas at Conway from 1983 to 1989, where he was a member of the faculty since 1979. He received a grant from the Winthrop Rockefeller Foundation to fund a collaborative effort implementing a pre-service teaching project and the college was selected to become one of 14 colleges...

(Continued on page eight)


Western News

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December 12, 1991

The proposed School of Nursing in the College of Health and Human Services that was endorsed unanimously by the Faculty Senate Dec. 5 would meet a clear need in the community for a bachelor of science degree in nursing, said Mary A. Cain, the chairperson of an ad hoc committee that recommended approval of the proposal.

"A study by the Michigan Department of Public Health in 1990 shows that demand for nurses will exceed supply well into the 21st century," said Cain, emerita in education and professional development.

"The need for nurses with two-year degrees and those with three-year diplomas will decline while demand for nurses with the baccalaureate degree will continue to increase," she said.

"We believe this would be an innovative program," Cain continued. "This program could be a national model, it could have national impact. It certainly gives us the opportunity to strengthen our connections with the community.

"What excites me about the program is the opportunity to start something from scratch," President Haenicke told the senate. "We have no baggage. We can start a curriculum that is not handcapped by traditions . . . we can be fresh, we can be new."

"While a bachelor's degree would remain the first priority, surveys indicated a need for a master's degree in nursing as well," Cain said. "Although such a program probably would be considered WMU in the long term, it is not proposed at this time," she said.

Members of the nursing community have urged WMU to offer a nursing program since the 1970s, Cain said. Early in 1990, along with and in response to requests from Bronson Methodist Hospital, WMU started talks with groups in Kalamazoo and surrounding communities.

"Nazareth College's announcement of closing in June 1992 gave rise to more immediate concern," as Nazareth currently offers the only four-year nursing program in the Kalamazoo area," she said.

The University undertook a series of tasks "to ensure broad-based community and University consideration," Cain said. They included forming an advisory committee representing educational institutions, hospitals and the nursing profession.

In addition, a panel of three nurse consultants was retained temporarily and a nurse consultant was hired on a part-time basis to assist in planning and in applying for outside funding. Eight open meetings were conducted in a nine-county area.

Dean Janet L. Pisaneschi, health and human services, and nurse consultant Margaret Murphy met with several groups in the University and in the community, and meetings were conducted with several WMU departments that would be directly involved in the program.

The proposal calls for a four-year bachelor of science degree in nursing with a major in nursing, beginning as early as September 1992 with the admission of 40 first-year students. Enrollments are expected to reach 300 to 500 students within four or five years.

Planning money already has come from local foundations. Cain said. A multi-million dollar grant from a major foundation is being discussed, which would fund the program for the first three years. Several other grants are currently being sought from major foundations and other sources for a total of about $8 million - almost the amount needed in outside support for the first six years of the program.

Operating costs for the first six years are estimated at $10.2 million, including $3 million in facilities renovation. Tuition and fees would amount to about $1.6 million, leaving a need for $6.6 million in outside funding. State funding, which would begin in the sixth year would be needed at about $1.5 million a year.

"We believe that this will be a program with integrity, breadth, substance and high standards," Cain said in her remarks to the senate. "We have seen a strong national field of finalists for the position. She has my full confidence, and I look forward to continuing to work closely with her as we address the concerns and special programming needs of our students."

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(Continued on page eight)
HONORING 25 YEARS OF SERVCE — From left, Barbara S. Liggett, associate vice president for human resources, showed the framed certificate presented to new faculty member; Cheryl F. Really, director of the University's Career Development Center; and John A. Tanis, chairperson of physics, who received a $102,790 grant from the U.S. Department of Education to fund the second year of operation of the Center for Research on Educational Accountability and Teacher Evaluation (CREATE), which was established last November with a five-year, $5 million federal commitment of funds. CREATE, housed in the University's Evaluation Center, is a national research center that is the 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.

Among other significant awards received during the month was a $855,615 equipment grant from the nCUBE Corp. of Beaverton, Oregon. The nCUBE equipment will be used by Elise de Doncker and her associates at the computer center, both component support, to support their work on three projects involving supercomputer algorithms and new hardware equipment which will be used by the University's new supercomputer, purchased last spring, for very large projects that include: porting and extending integration codes for nCUBE machines; computational chemistry work on amino acid chains in conjunction with researchers at the Upjohn Co. of Kalamazoo; and a graphic system for generating supercomputer diagrams to provide a visualization system at an advanced work level.

Also received was a $93,000 grant from the U.S. Environmental Protection Agency. A grant to Duane R. Beal, geology, was to fund the investigation of alternative methods and materials for constructing and extending wells that measure the success of cleanup operations in soil contaminated by petroleum. The grant will also aid in the design and project aimed at tracing the movement of contaminants in ground water through the use of a tracer that is environmentally safe.

Nominations sought for Visiting Scholars and Artists

Faculty members with suggestions for persons to speak at WMU in 1992-93 under the Visiting Scholars and Artists Program are invited to submit their recommendations to the department chairs or program directors.

A memo that called for proposals for the 1992-93 program was distributed to the University community. Several faculty members have already submitted proposals. The proposal must be a program that contributes to the intellectual life of the University. Only persons who have been awarded Ph.D. or equivalent degrees may be nominated. The University covers all expenses related to the visit.

The deadline for submitting proposals is Monday, Jan. 13. Each department may submit up to three recommendations to the Visiting Scholars and Artists Committee, and the application must be signed by the department chairperson.

More information, personnel may contact:

- William M. Scobey, chairperson of the Computer Science and Information System department, 616-387-4075; or
- Marcia A. Kingsley, University librarian, 616-387-4077; or
- Matt K. Strine, administrative assistant, 616-387-4075; or
- Mark W. Stafford, physical plant-exterior. 616-387-4075; or
- Shirley Striebel, physical plant-building custodial and support services; and
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October was a $1 million grant from the U.S. Department of Education to fund the second year of operation of the Center for Research on Educational Accountability and Teacher Evaluation (CREATE), which was established last November with a five-year, $5 million federal commitment of funds. CREATE, housed in the University's Evaluation Center, is a national research center that is the 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.

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Student researchers contribute fresh viewpoints to scholarly endeavors

As a WMU senior majoring in consumer resources and technology, one student conducted a statewide survey of high school marketing education methods that will lead to better planning in her profession before she ever becomes an active professional in the field.

A part-time job and a student encountered a time-consuming classical engineering technique in class and decided there must be a better way. He developed a faster, more accurate method of accomplishing the same task and is receiving considerable attention in engineering circles.

A mathematics and engineering major spent his undergraduate years conducting independent research on the mathematics involved in computer image processing. He has presented the results of his work at 12 professional conferences, including two at Los Alamos National Laboratory.

Student research, particularly among undergraduates, has emerged as a valuable way for students to learn how knowledge is acquired. Students, often working as research apprentices with faculty members, gradually make the transition into capable researchers with skills that prove invaluable in whatever career role the student eventually picks.

At WMU, a number of special programs and awards have been developed in recent years to assist and honor students for their research and creative contributions. Students in virtually every department at the University have been recognized for their work. From biology laboratories to the music library, students are learning the investigative techniques that can add to the body of knowledge in their disciplines.

Each year, approximately 50 students receive Undergraduate Research and Creative Activities Awards to support semester-long research projects. Students receive $1,200 stipends for the research seminar and complete their work in conjunction with a faculty mentor.

For those fledgling scholars who win such awards and for other young researchers on campus, the University initiated an Undergraduate Research and Creative Activities Award two years ago. The day-long event attracts undergraduate research award winners, Lee Honors College students presenting their honors theses and students from other area colleges who have research findings to present.

During the past three years, some of the best work by WMU student researchers has been shared with young researchers from across the country at the National Conference on Undergraduate Research. Six WMU students joined students from 200 other colleges and universities last March to present their work at the most recent event held at the California Institute of Technology in Pasadena.

For graduate students active in research, a new fellowship program was initiated last spring by the Office of the Vice President for Research. Five students were named the first WMU Research Fellows and were awarded $10,000 fellowships to undertake year-long research projects with faculty mentors. The highly competitive awards program is designed to improve the scholarly and research environment of WMU faculty and students and to enhance the quality and character of the academic interaction between faculty and students by focusing on the mentoring relationship.

Graduate students who make outstanding contributions in research or creative endeavors are honored each spring with Department and University Graduate Research and Creative Scholar designations. A faculty committee selects awardees from among those nominated by departments across campus. About 25 to 30 are named Department Graduate Research and Creative Scholars and of those, a handful earn the additional designation of University Graduate and Creative Scholar. The accomplishments of all selected are highlighted in a publication distributed to the campus community and they are honored at a special dinner.

In addition, those designated University Scholars have that honor noted on their permanent transcripts and in commencement programs.

(Continued on following page)

Kust set to continue academic career as research standout

Portage senior Mark P. Kust will graduate with highest honors in December, ending an undergraduate research career that would be the envy of many graduate students.

The Lee Honors College member was one of 10 Michigan finalists selected to take part in the annual Rhodes Scholarship competition this fall. That development was just the latest in a long string of honors for the student who plans to pursue a doctorate at Stanford University.

Kust has pursued a double major in applied mathematics and electrical engineering, earning the University's highest accolades in both fields. His research specialty has been on the mathematics behind image processing.

Kust has spent the last three summers conducting research in that area at Los Alamos National Laboratory, has presented his work at a dozen professional conferences and has been honored by the Michigan Association of Governing Boards with a special resolution of the Michigan Legislature passed "in recognition of a treasured Michigan resource and the promise it represents for our state's future."

Kust was recognized with the highest award bestowed on a WMU senior when he was named a Presidential Scholar in (Continued on following page

26 Undergraduate Research Award winners named for winter

Twenty-six students, representing nearly every corner of the University, have been selected to receive Undergraduate Research and Creative Activities Awards for the winter 1992 semester.

The awards were made to students and faculty mentors representing 20 different academic departments and typify both the quality and wide base of University interest that have become hallmarks of the four-year-old program, says Dr. Faith Gabelnick, dean of the Lee Honors College, which administers the program.

"People across the University see this as quite a prestigious award," she says. "The quality of the proposals we receive has escalated dramatically over the years and the involvement of faculty has greatly increased."

Each award winner was selected by a faculty review committee to receive the award, which includes a $1,200 stipend, to undertake a research or creative project in conjunction with a faculty adviser. The program is designed to (Continued on following page
Senior design projects link engineering programs, industry

Projects that range from redesigning a manufacturing plant layout to developing an infrared scanning system to locate possible defects on thighs of a human body were among presentations made by WMU engineering seniors this fall.

The projects were among 36 shown by WMU engineering seniors this fall. They were among presentations made by WMU engineering seniors this fall.

of the 31 recipients named in their respective disciplines. Graduating seniors also may accommodate some student research efforts.

Student research (Continued from previous page)

Many of the graduate students so honored are accomplished scholars already recognized by their peers in their respective disciplines. Of the 31 recipients named in 1991, 24 already had presented their work at professional conferences or had written articles for publication or viewing in a professional publication or exhibition.

For student scholars deeply involved in research, some additional outreach opportunities exist. Those include special research conferences sponsored by various colleges. Usually designed to showcase faculty research, they also may accommodate some student research efforts.

Graduate student gets $22,000 scholarship

A graduate student in the Department of Speech Pathology and Audiology is the first recipient of a $22,000 award designed to encourage research among students and faculty in WMU's College of Health and Human Services.

Jennifer E. Smith, a first-year graduate student, will use the funds to support her research on the auditory and visual stimulation of newborns. Smith is supervised by Dr. James M. Gabelnick, associate professor of speech pathology and audiology and a nationally recognized expert on speech perception and speech synthesis.

Smith and Hillenbrand both say the success of such projects was in large measure due to the support given the students and their work already being done by faculty mentors.

According to Dr. Charles F. Howard, associate dean for research and graduate education in the College of Health and Human Services, the two-year scholarship is designed to provide the student researcher and the faculty mentor with the security of knowing their research project is funded for a complete two-year period. The scholarship includes funds designated for equipment and supplies and for travel and publication of findings.

"This is an attempt by the college to identify outstanding students who are capable of research and bring them into the fold as early as possible," Howard says. "It is a particularly good opportunity for students who will go on to faculty positions and who may have difficulty identifying and recruiting graduate students.

Smith earned a bachelor's degree in French in 1988 from Alma College. She began work toward a master's degree and certification in both speech pathology and audiology this fall after completing undergraduate prerequisites at WMU earlier this year.

She chose the double major because she considered it an ideal way to combine her linguistics background and her interest in learning how sounds are produced and perceived. She plans a career in medical field, she says, and is considering a doctorate orpost-doctoral position as a result of the scholarship.

Hillenbrand says the security provided by the two years of funding is extremely important to the research.

"Too many student projects fall apart and much funding is lost because the student did not have enough time," Hillenbrand says. "Jennifer is going to have enough time and resources to do a thorough job."

Kust is planning on a research and development career in the field of biomedical engineering. His main interest is in the mathematics that is the basis for tomography, an area he calls the most significant development in medicine in the past 25 years. Tomography is a diagnostic imaging technique most popularly known as a CAT scan.

"You can take something as exciting as looking inside the human body that may involve high temperatures or "hot spots" in the human body and make it more accessible to the non-technical person."

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According to Dr. John W. Gesink, associate professor of electrical engineering and chairperson of the steering committee that oversees the program, the project may involve any academic endeavor at the University.

The most recent student projects funded are an analysis of "Gender Differences in Holocaust Autobiographies" and an examination of the "Use of Synthetic Fibers in Currency Papers." The program is designed to allow the student's role in the project to evolve into independent research.

Projects at the Bernhard Center on the campus were among presentations made by WMU engineering seniors this fall. They were among presentations made by WMU engineering seniors this fall.
New technique used to determine column load

Graduate student’s discovery replaces time-honored engineering method

When a WMU graduate student thought the classical mechanical engineering method he had just learned seemed a bit awkward and difficult to use, he decided to develop another one.

He did just that in less than a week. In the process he may have laid to rest an engineering method that was developed by one of the greatest mechanical engineers — a method that has been taught to young engineers for more than half a century.

Peter Thannhauser, a master’s student at WMU and a laboratory technician in the College of Engineering and Applied Sciences, is a graduate of the University’s mechanical engineering program. He first learned the Timoshenko method for determining the buckling load of inelastic columns (building support structures that are slow to reflect changing conditions) in a graduate class taught by Dr. Meshulam Groper, WMU professor of mechanical and aeronautical engineering.

Four days later, Thannhauser appeared at Groper’s office door with a new method for accomplishing the same task. It’s a method Groper says is easier to use and more accurate.

“I was really getting frustrated doing the homework with the old method,” Thannhauser says. “There’s a certain amount of instability in the old method. It’s a high-low guessing game and even though you’re making calculated guesses, a bad first guess could ruin the whole problem. I knew there had to be a better way. The solution turned out to be simple and solved the rest of my homework problems easily using my little trick.”

Instead of the time-consuming iteration procedure (a repetitive series of computations) used in Timoshenko’s method, Thannhauser’s method involves calculating the intersecting point of two lines on a graph. The point at which the two lines meet predicts the exact load under which the material used to construct the column will bend or give way.

Groper admits he was skeptical when Thannhauser first brought the new method to him for critical opinion. Groper has been teaching the old method to students for his entire academic career and the method was developed by one of the most highly regarded names in the profession. Timoshenko was a professor at both Stanford University and the University of Michigan and wrote a number of classic engineering texts.

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Groper is not alone in praising Thannhauser’s new method. Thannhauser’s professor, Dr. Meshulam Groper, WMU professor of mechanical and aeronautical engineering, says. “I used to spend about two hours teaching Timoshenko’s method,” Groper says. “Now I can teach Peter’s method in about 10 minutes and give my students a tool that is easier and more accurate.”

Thannhauser characterized his discovery’s uses as somewhat limited in these days of building codes and computer modeling, but he says there are still a few applications of the techniques for calculating such things as safety factors. The limited use of the tool, however, didn’t detract from his excitement at realizing he’d discovered something that had been overlooked for so many years.

“I'm surprised someone didn’t discover it sooner,” he says. “It's really kind of neat,” he says. “I'm surprised someone didn’t discover it sooner.”

Thannhauser has presented other engineering research at professional conferences and his contributions to his field earned him a designation as a 1990 University Research and Creative Scholar, one of only 11 graduate students to earn the honor.

When he did sit down with Thannhauser to analyze the new approach, however, Groper almost immediately realized that his student had developed something that would be of real value to the engineering profession. A quick check with the department chairperson confirmed his evaluation and the faculty pair convinced the student that a paper should be developed and submitted for publication.

Thannhauser wrote his paper, polished it with Groper’s help and within weeks it was accepted for publication by Experimental Techniques, an engineering journal.

“It’s not unusual for it to take up to two years between the time a paper is submitted for consideration and its publication,” Groper says. “For Peter’s work, it was just a few weeks before editors agreed to publish the paper. Just three months later it appeared in the journal.”

Will Thannhauser’s method replace Timoshenko’s in future textbooks? Groper thinks it may, although it may take several years to convince the engineering establishment that a young graduate student developed a better method. Groper, however, needs no convincing. When his engineering classes get to the section that addresses the problem of inelastic columns, he now teaches the Thannhauser method.

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Thannhauser’s method involves calculating the intersecting point of two lines on a graph. The point at which the two lines meet predicts the exact load under which the material used to construct the column will bend or give way.

Thannhauser is pursuing that degree part time while working full time as a laboratory supervisor specializing in instrumentation. One of his job functions is helping other students use available lab equipment to solve problems.

WMU will play host to 1994 national conference

The campus will attract the nation’s leading undergraduate scholars when WMU and the Lee Honors College play host to the eighth annual National Conference on Undergraduate Research (NCUR) in 1994.

For three days, April 14-16, 1994, more than 1,000 students and about 300 faculty advisers will converge on the campus from more than 200 colleges and universities across the country.

Dr. Falith Gabelnick, dean of the Lee Honors College, says the University’s bid to have the conference was accepted this fall and planning is already under way.

“This is a wonderful opportunity for the University and for our undergraduate research programs here on campus,” she says. “It may also attract others to our University to do research.”

The purpose of the annual event is to promote undergraduate research, scholarship and creative activity done in partnership with faculty or other mentors as a vital part of the academic experience. It is also designed to provide a forum for students to present their work to a national audience and to engage in scholarly discussions with colleagues in their own fields as well as with undergraduates in other disciplines.

Six WMU students presented research at last year’s conference held at the California Institute of Technology in Pasadena. Another group will attend the 1992 conference at the University of Minnesota in March.

Gabelnick, who recently was elected to a second term on the NCUR Board of Governors, says the annual event features oral presentations, artistic performances and poster presentations in a wide range of disciplines that includes humanities, sciences, performing arts, nursing and physical education.

Students gathered at the event also have the opportunity to hear prominent speakers as well as to discuss educational policy, programs and funding for undergraduate scholarly work.

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.
Junior set for Argonne research on computer programming

Jeanine C. Gild, a junior computer science major from Sterling Heights, has been selected to participate in a winter semester research project at Argonne National Laboratory in Argonne, Ill.

The Lee Honors College member will spend Jan. 6 through May 15 participating in the 1992 Science and Engineering Research Semester. She has been assigned to a computer programming research project under the supervision of a staff scientist in the Mathematics and Computer Science Division at the Argonne facility, which is located near Chicago.

In addition to her work on the research project, Gild will have an opportunity to take part in a special student seminar series as well as a number of other activities such as a technical writing workshop, a symposium on "Contemporary Issues in Science" and a trip to the Fermi National Accelerator Laboratory.

Gild is a recent transfer from Lansing Community College, where she earned an associate's degree in computer science.

Search in the area of transition-metal metallocene chemistry, an area in which Kelly specializes. Kelly says the two students are working on separate projects in that field and says they are involved with the research.

Kelly was a 1990 recipient of a $10,000 Cottrell College Science Grant from the Research Corp., a Tucson foundation that focuses on the advancement of chemical and biological technology. Such grants are typically made to researchers at predominantly undergraduate colleges and universities and student involvement in the research is encouraged.

Micklatcher originally began working with Kelly on that grant project and continued through the 1990-91 academic year. His most recent work with Kelly has been supported by the $1,200 Undergraduate Research Award he received for the fall 1991 semester. He plans to continue his research in graduate school and hopes to make such research or teaching his career.

Parthun began working with Kelly in the fall 1990 semester instead of the spring. Both students now refer to WMU from Kalamazoo Valley Community College. He began his current research in January as an independent study effort and is currently expanding it to be the research project he will do as a graduate student at WMU and hopes for a career in research and development.

Both students agree that the undergraduate research experience has provided them with skills they would not have gained in undergraduate chemistry laboratory classes.

"I've learned a lot about synthetic procedures and instrumentation that you normally don't get into until grad school," Parthun says.

Student's survey means changes in high school marketing curricula

Aimed with a $1,200 research stipend and a working knowledge of research surveys, a WMU senior conducted a statewide survey of Michigan's 330 high school and vocational skill center marketing education instructors that is resulting in changes in the field in which she hopes one day to work.

Lynn M. Bergeon graduated magna cum laude in December 1989 with a bachelor's degree in secondary education in marketing. The spring following the time she graduated, she was a veteran researcher who had reported her work at two national conferences. She also had established professional contacts through her research efforts that led to several job offers.

"This project opened up so many doors, I couldn't believe it," Bergeon says.

After turning down job offers from California and Florida, she began pursuing a master's degree at WMU and started working as a graduate teaching assistant in the Department of Consumer Resources and Technology. She hopes eventually to teach at a vocational-technical college or community college.

Although she had worked for a Wisconsin research firm for more than four years before enrolling at WMU, the prospect of becoming an active student researcher was far from her educational plans when she came to Kalamazoo.

"Research was not at all on my mind when I came here," she says. "It didn't bring me here but it has been the highlight of my time here."

Bergeon was a fall 1989 winner of an Undergraduate Research and Creative Activities Award. In a project undertaken with her mentor, Dr. Carl Woloszyk, associate professor of consumer resources and technology, Bergeon set out to assess, through teacher survey, the effectiveness of marketing education instructional materials. She also worked to determine the level of compliance with Michigan Board of Education guidelines by high school and vocational skill center marketing education programs.

What she got in return was a remarkable 78 percent response rate from those surveyed and answers to her questions that could mean a difference in the way instructional materials are packaged for high schools and vocational skill centers and in the way the state enforces some neglected guidelines.

The results of her survey also are now being used at Ohio State University by the MarkEd Resource Center, a facility that is part of a national consortium for marketing education.

While the information is specific to Michigan, she says, researchers from other states can benefit from seeing the structure of the survey and the results. The materials will be used to help MarkEd officials plan and develop topics for future conferences and seminars.

Woloszyk says it is unusual for a student's research to make such an impact on a profession before he or she has even had a chance to work in that profession.

"It reinforced the way we're doing training and is helpful to us in deciding what topics to address at future conferences," he says.
University Closing Policy

Policy and procedures guiding the suspension of University operations due to weather conditions, physical damage or other emergency conditions that prevent normal operations:

The decision to close all or part of the University for reasons of weather, building conditions or disruptive actions, will be made only by the president or his designee. The president or his designee shall forward his decision for handling details and questions dealing with this policy.

The term "shut down" will be used in media news will be used under normal circumstances for notification purposes. If notice selective operations are involved, or if the closing occurs after the beginning of the work day, each of any affected departments will be individually notified. The lack of specific notification does not preclude the contrary should be interpreted to mean that normal operations are to be maintained.

Specific cases and varying conditions or circumstances may require special action or decision. These cases shall be presented in this statement in an effort to provide as much understanding and communication as possible.

I. In the absence of notification to the contrary, all normal operations will continue as scheduled. If there is any doubt as to whether the University will be in operation, a message will be available on WMUK-FM (102.1) and WIDR-FM (91.1). Closing announcements will be on these same sources as well as the general public media.

II. In the event that emergency conditions are so severe that on-campus classes must be canceled, the University will cease except for essential services.

III. The vice president for regional education and economic development is authorized to extend the closing of a regional campus.

IV. Essential services will be maintained during a period in which the University is closed.

These services are:

A. University computing services
B. Dining services — consolidation may be required
C. Police
D. Recreation facilities — e.g., Gary Center, Bernhard Center, Lawson Ice Arena
E. Gabel Natorium
F. Telecommunications
G. Special Events Center
H. Waldo Library
I. WMUK-FM
J. Others as may be designated

V. When a decision is made to close the University, the following notification steps should be followed:

A. Vice president for business and finance
   1. Notify executive director of public relations and communications
   2. Notify vice president and vice president for regional education and economic development
   3. Notify busines and finance major unit heads
   4. Executive director of public relations and communications

   B. Executive director of public relations and communications

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   a. Notify area media
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On Campus

ENTHUSIASM FOR SPORT ICED HIS CHOICE — Although Richard Peach's bachelor's degree is in biomedical science, his minor in computer science, Rich Peach's love of hockey has sent him to the ice rink rather than to his dream laboratory or medical center.

The student manager of Student Recreation Building for the Division of Intercollegiate Athletics, he manages the pro shop there with a paid hockey team. The pro shop carries not only hockey equipment, but also a full line of figure skating equipment, too.

Peach, 19, does his best to help the hockey team. Peach is in charge of ordering and repairing equipment, and "whatever else needs to be done" — including the players' laundry, Peach, who earned his degree from WMU, has been in his job for four years, "I enjoy hockey, so I like what I'm doing," he says. "I played a little hockey when I was young, but not at the caliber of these guys," Peach travels with the team to away games, and especially enjoys the trip to Ohio State University. He says he works for "the best coach in the league" — Bill Wilkinson.

Jobs

The following list of vacancies is currently being posted through the Job Opportunities Program by employment services in the Department of Human Resources. Interested benefited eligible employees should submit a proforma job application or sign the appropriate bid sheet during non-work hours.

I. WMUK-FM
   1. Special assistant to the president
   2. Director of Human Resources
   3. Assistant professor (Tenure Track: Psychological Counseling, 91/92-155, 12/10-12/69)
   4. Assistant professor (Tenure Track: Psychology), 91/92-155, 12/10-12/69)
   5. Assistant professor (Tenure Track: Mechanical and Analytical Engineering), 91/92-156, 12/10-12/69)
   6. Assistant professor (Tenure Track: Psychological Counseling), 91/92-155, 12/10-12/69)
   7. Electronic Engineer, 91/92-155, 12/10-12/69)
   8. Clerk II, 5-30, Public Safety, 91/92-162, 12/10-12/69)
   9. Admission Officer, P-04, Admission and Orientation, 91/92-162, 12/10-12/69)
   10. Secretary I, S-04, Admissions and Orientation, 91/92-164, 12/10-12/69)

II. Student Recreation Building
   1. Office manager
   2. Office manager
   3. Desk clerk
   4. Desk clerk
   5. Office manager
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III. WMU is an EO/AA employer

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A WINTER'S EVE AT WALDO — Recent snowfalls and a star filter helped Neil G. Stepphard and Tom Stepphard. The 179-page hardcover text recently was published by Garland Publishing Inc. of New York City. It is currently available at the University Book Store, 2529 W. Michigan Ave. for $57.

Appointments
(Continued from page one)

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Rosalie Torres, educational leadership, conference room, Tate Center, 3210 Sangren Hall, 10 a.m.

Tate Center, Board and Campus Activities Board present "Yuletide Memories," holiday extravaganza, Center Stage, 6:30 p.m.

Wednesday/18

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