Federal grant is largest in WMU history

$6 million project to transform secondary mathematics teaching and learning

A federal grant for nearly $6 million to the University ---the largest in WMU history ---will fund a five-year, multi-university effort to completely revamp high school mathematics and the way it is taught in the United States.

The National Science Foundation has already awarded $1,085,728 for the first year of work of the Core-Plus Mathematics Project (CPMP), a joint undertaking of development teams from WMU, the University of Michigan, Ohio State University, the University of Maryland and the University of Iowa. The project's budget for the next four years is $4,872,600.

Christian R. Hirsch, mathematics and statistics, is directing the project with Arthur F. Coxford Jr. of the University of Michigan. The project, which officially began Sept. 1, is housed on and managed from WMU. The CPMP is the second major federally-funded education reform effort to be based at WMU. In October 1990, the U.S. Department of Education awarded $5.2 million over five years to fund CREATE --- the Center for Educational Accountability and Teacher Evaluation.

"A grant of this magnitude and significance recognizes our University's lead role in addressing the nation's education needs," said President Haenicke. "It reflects the growing recognition of the importance of mathematics education faculty and allows them to build on years of experience in finding new ways to reach the changing demands of the workplace and the college classroom."

The aim of the Core-Plus Mathematics Project is to develop, test and nationally disseminate a three-year high school mathematics curriculum designed to embrace the use of technologies and as graphs and networks and algorithm design.

With such a curriculum in place, Hirsch says, all students would have the opportunity to investigate the same mathematical topics in classes organized in a manner similar to high school science laboratories. Gathering data, searching for patterns, making and testing conjectures, and reporting and applying verified principles would be commonplace in such classes.

"Very substantial effort in those years has gone to dealing with constituencies outside the institution by the very necessity of such a campaign," Haenicke said. "It is, therefore, my intent to devote a concentrated period during the next several months to the internal affairs of the University.

"I would like to meet for the next several weeks with as many students, staff members, faculty members, alumni and friends of the University as possible to see whether we can get started again on a planning effort for the institution that shows us the way for the next medium range phase," he continued. "While we all want and should plan for the next decades, and we do that in a way, I am concerned with the next several years that lead us to that end of this decade."

In 1987, Haenicke said he put before the faculty a challenge to review and restructure the undergraduate curriculum. "We had great plans for a rejuvenation of the institution with a rethinking of our undergraduate educational programs," he said. "I now want to put my personal efforts behind that.

The second area of focus will be getting involved in the implementation of a Total Quality Management program on campus. "I want to devote as much time as I can find to meet with constituent groups on campus, to discuss this concept and to see whether we can't all buy into this jointly," he said.

Haenicke also wants to follow through on a plan announced earlier this year to consolidate the University's institutional research dollars and resources for a "mini-sabbatical" to focus his career in the administration. "I have been in the harness at this University for more than 25 years and during that time I have devoted an enormous amount of time to the campaign," he said. "I have to respond promptly to the call to give; there is an ambitious goal," said President Haenicke in an open appointment and will not be restricted in time if others are waiting. In that case, a time limit of 10 minutes will be imposed.

"While we all want to and should plan for the next medium range phase," he continued. "I am confident we will achieve this year's ambitious goal," said President Haenicke in a letter sent to employers and endorsed by employee group leaders.

This year's amount is a 5 percent increase over last year's target of $145,400. The University actually raised $150,335 last year for the local United Way, which began Oct. 7 and runs through Oct. 30.

"This short time frame means that we will have to respond promptly to the call to give; but, given our past record of participation, I am confident we will achieve this year's ambitious goal," said President Haenicke in a letter sent to employers and endorsed by employee group leaders.

"I am asking everyone in the Western family to pledge their support; my personal hope is for outreach 100 percent participation," Haenicke said in the letter. "We have a fine history of giving at our University, and I want to thank all of you who have given so generously in the past. For those of you who have not participated in the past, I ask you to consider making a campaign contribution this year."

He pointed out that because United Way agencies address a broad range of vital community needs, one in three Kalamazoo county residents will benefit from their services.

"Western's active support of this campaign helps to underscore the concern and pride we have for members of the Kalamazoo community," Haenicke said. "I hope that you will join with me in supporting the United Way and in helping to make our campaign a success."
Sharma to receive Distinguished Service Award

A WMU faculty member credited with bringing a greater understanding of Third World cultures to the WMU campus has been selected as one of a handful of communities to receive the university's Distinguished Service Awards.

Philip Sharma, science studies, will be honored at the University's 13th annual Academic Convocation at 3 p.m. Monday, Nov. 2, at the Dalton Center in the Fetter Hall. He was selected from campuswide nominations based on such criteria as: service through innovative and effective program or service in all areas that contribute to the growth and stature of the University; and service that extends the influence of the University into the larger community.

He will be presented with a plaque and a $1,500 honorarium. In addition, $1,000 will be added to his base salary.

A native of Kenya, Sharma came to WMU in 1967 as a visiting professor of social science and sociology. The next year, he permanently joined the social science and sociology faculty at WMU and also began coordinating the non-Western world course in the former College of General Studies.

In 1981, the University was one of the first institutions of higher education in the country to require the study of non-Western cultures as part of its general education program.

Sharma continued coordinating that area through 1994, developing a six-course program of non-Western world studies. At one point, the "Introduction to the Non-Western World" course, an enrollment of more than 2,500 students per year, and, over the years, was served by some 70 instructors. Among the instructors was Israel蜈 stiff, then in the social science department. Later, in the "Macro politics and world culture," said one colleague in nominating him for the award. "... Both through his teaching and his research, he has significantly contributed to greater justice and peace in the world."

Faculty Senate to meet tonight

A report and recommendations regarding the curriculum review process on the agenda for the Thursday, Oct. 8, meeting of the Faculty Senate.

The meeting will begin at 7 p.m. in the Fetter Center.

Child development expert will discuss views on children and violence, multicultural education

An international authority on child development who has conducted research on the impact of the Gulf War upon children in Kuwait and Iraq will visit campus on Tuesday.

Wednesday through Friday outside near the Bernhard Center, Kruglak Sundial, Michigan Auditorium plaza and Haworth College of Business building.

A 30th anniversary celebration of the founding of the Epsilon Xi chapter of Alpha Phi Alpha fraternity from Friday through Sunday at the Radisson Plaza Hotel. A 6:30 p.m. Saturday dinner at the Bernhard Center will feature a speech by former Michigan Supreme Court Justice Dennis W. Archer, a WMU alumnus and founder of the fraternity.

The annual Homecoming parade, starting at 10 a.m. Saturday and traveling from the steps of Kalamazoo City Hall down Leland Street, up West Michigan Avenue and to the Sangren Hall parking lot.

The annual Alumni Association Brunch Buffet from 9:30 a.m. to noon in the East Ballroom of the Bernhard Center.

The Homecoming football game against Eastern Michigan University at 1 p.m. Saturday in Waldo Stadium.

The Distinguished Alumni Awards Dinner at 6 p.m. Saturday in the Fetter Center.

See the calendar on page four of Western News this week and next week for times, dates and locations. For more information, persons also may contact the McKee Alumni Center at 78777 or the Office of Student Life at 7-2722.

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Parfet to be recognized with honorary degree for volunteer leadership in WMU fund raising

William U. Parfet, president of the University of Kalamazoo, will be awarded an honorary degree during the fall convocation ceremony.

President Haeftner of the WMU Foundation and its "Campaign for Excellence," the University concluded its third consecutive year with the WMU's Alliance for Lesbian/Gay Support.

For the third consecutive year, WMU is among the top 20 national universities cited in the 1993 College Guide compiled by U.S. News and World Report.

Million — exceeding its $55 million goal by 12.9 percent.

For more information, persons should contact Carl W. Doubldeley, music, who chairs the committee at 7-4681.

Speeches planned by AL/GS

Two leaders in the lesbian and gay community will be speaking next week at University Saturday and Sunday, Oct. 10-11.

Lorraine Hutchins, a Washington, D.C., bisexual advocacy proposals for partial funding activities that will enhance the cultural environment on campus. Programs for events scheduled for Global Night, Oct. 8, and the annual celebration, Oct. 9, are now being accepted.

Students, faculty or staff members may submit grant proposals for full funding. Information is being formed by the head of the appropriate unit.

For information, persons should contact Carl W. Doubledeley, music, who chairs the committee at 7-4681.

New Enabling Technology Center schedules two events for Investing in Abilities Week

WMU's new Enabling Technology Center (ETC) will coordinate two events during Investing in Abilities Week, the Oct. 11-17 statewide celebration focusing on the adaptive contributions of persons with disabilities.

The new center will serve as a host site at the WMU site for the public teleconference on "Enabling Technology: Michigan Resources," which will broadcast from 1-3 p.m. Thursday, Oct. 14, in the Merze Tate Conference Room, 3210 Sangren Hall. The teleconference is being produced by media services, will take place at 7 p.m. at the Bois Grove, Green Stem, Akron and Toledo.

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 eligible employees should submit a job opportunity transfer application or sign the appropriate bid sheet during the posting period. For more information, persons should call University computing services at 7-3430.

Media

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Brown bag luncheons begin

"Columbus' Discovery: The Quincentennial Centennial" will be the first topic in a series of brown bag luncheons being sponsored by the Division of Minority Affairs.

Donald L. Fixico, history, and Irene S. Vasquez, religion, will present the talk at noon on Thursday, Oct. 12, in the Kanley Chapel multi-purpose room.

Other luncheons scheduled for this year include:

- "Visions for the Future: Where Do We Go From Here?" with Rev. J. Louis Felton, pastor of the Galilee Baptist Church of Kalamazoo, Monday, Nov. 9, and "Power: How To Use It and Not Lose It" with Donald C. Thompson, WMU's vice president for research, on Monday, Feb. 8.

For more information, persons may contact Lenny E. Bell in the Division of Minority Affairs at 7-3320.

Cultural events grant offers

The University Cultural Events Committee invites proposals for partial funding activities that will enhance the cultural environment on campus. Programs for events scheduled for Global Night, Oct. 8, and the annual celebration, Oct. 9, are now being accepted.

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**Calendar**

**Thursday, October 8**

(thru 16) Hispanic Heritage Month exhibit of books by Latino authors, third floor, Waldo Library.

(thru 16) Film Series, "Exhibition, watercolors and mixed media, realistic and abstract," Sylvia Wong, Three Rivers artist, Department of Human Resources, 1240 Selbert Administration Building, weekdays, 8 a.m.-noon and 1-5 p.m.

Exhibition, paintings by Richard Keaveny, art, Dalston Center Multi-Media Room, 10 a.m.-6 p.m.

(thru 22) Exhibition, "Faculty Collects," works from the personal collections of WMU art faculty, Gallery II, Sangren Hall, weekdays, 10 a.m.-5 p.m.

University film series, "The Accident" (England, 1967), directed by Joseph Losey, 2750 Knauss Hall, 6 and 8:30 p.m.

Meeting, Red Room: Seminar Center, 7 p.m.

Concert, University Concert Band, Dalston Center Recital Hall, 8 p.m.

* (thru 17) University Theatre production, "Let's Get a Divorce," Shaw Theatre, 8 p.m., 2 p.m. or 7:30 p.m., Oct. 19.

**Friday, October 9**

Workshop, "A Generation at Risk: Teaching College Students in the Age of AIDS," Red Rooms B and C, Bernhard Center, 8:30 a.m.-12:15 p.m.; to register, call faculty and staff relations, 7-5730.

*Conference, "Engle's The Multiple Voices of Michigan," Bernhard Center, 9 a.m.-3:30 p.m.

Meeting, Executive Board, Council of Representatives and committees chairpersons of the Administrative Professional Association, Red Room A, Bernhard Center, 11 a.m.

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


**NSF grant (Continued from page one)**

prevented many students from continuing their work in mathematics.

Hirsch says the traditional focus on proficiency with paper-and-pencil skills has resulted in a system that places less skillful mathematics students in remedial mathematics courses devoted to computational skills. These students are placed in college preparatory classes devoted almost exclusively to algebraic skills needed for calculus.

The preoccupation with manipulative skill proficiency has served as a filter, he maintains, for the broad base of students, including a disproportionate number of African Americans and Hispanics, from continuing their educational and vocational opportunities.

"One of the greatest satisfactions of this project is that we are helping these students develop help U.S. schools unmask mathemat- icians," he says. "A close look at the curriculum changes made in mathematics education, we've found that the teaching of mathematics today reveals serious deficiencies in each. Neither does justice to contemporary applications nor to the needs of students in contemporary society."

Those deficiencies, Hirsch says, have led to a major trend toward the development of four students currently leave high school without sufficient understanding of mathematics to continue their education or enter the changing expectations of colleges.

The curriculum must change, he says, to give students the understanding and enthusiasm for topics in statistics, probability and discrete mathematics — topics that are essential for an increasing number of college majors and for enlightened citizenship in a technologically informed age. Students presently in general mathematics programs devoted to "shopkeeper arithmetics" of a pre-calculator era must have access to a curriculum that reflects the full spectrum of the mathematical sciences.

"Without significant curricular and instructional changes, the gaps between goals of current perspectives for employment and employment-demand students and the expectations of industry and the projected work force needs of the 21st century will only widen," Hirsch says.

Paving the way for the CPMP was the National Council of Teachers of Mathematics' 1989 publication of a set of Curriculum and Evaluation Standards for School Mathematics. Hirsch was one of 13 members of the national committee that developed the standards and he chaired the commission's writing committee for the grades 9-12 curriculum. One of the assumptions of the NCTM standards, Hirsch says, was that such devices as graphic calculators would be readily available to all students. School districts are beginning to accept such technology as integral to mathematics education and some have begun providing it to students through loan and discounted purchase programs. Hirsch predicts that by the time this project is completed, the evolving technology will be widely available, despite the financial constraints faced by many districts today.

"Graphics calculators are tools that allow kids to build on what they can do, that allow them to go as far as they can go with ideas. Although they are still somewhat expensive, the cost (about $70 for a mid-range graphics calculator) pales in comparison to the cost of most athletic shoes," he says. "They are more than an investment for a single mathematics class. I think of them as an investment for life."

Hirsch also directs a statewide professional development project that shares the philosophy and many of the principles on which the CPMP is based. That project, "Making Mathematics Accessible to All," is beginning its second year of operation. It is expected to provide the CPMP with a base of Michigan school districts interested in serving as test sites for the curriculum materials that have been developed. Pilot studies in 20 Michigan schools will begin in fall 1993. The first year of the three-year demonstration project "Curriculum should be published and available nationally in 1996."

**Landscapers urge caution around power equipment**

The landscaping services division of the physical plant will continue to mow, trim and weed the campus grounds through the fall months in addition to knobling and clearing leaves as part of its maintenance program.

"We use a variety of power equipment to accomplish our landscaping tasks," says James J. M. Holysz, landscape services. "Even though we are trained operators and exercise safety precautions, we need your help. In the interest of personal safety, we are asking students, staff and faculty to be aware of ground-supported operating equipment and to stay a safe distance away."

**Sunday, October 11**

Homecoming week begins: Sunday events — "Run to Victory," Kanley Track, 2-4 p.m.; gospel concert, Dalston Center Recital Hall, 3:30 p.m.; international festival, South Ballroom, Bernhard Center, 4:45 p.m.; and Gold Company performance, Bronco Mall, Bernhard Center, 6:30 p.m.

Soccer alumni game, Waldo Stadium, 3:30 p.m.

Concert, WMU Symphony Orchestra, Kruglak sundial, Kalamazoo. Tickets available. "East of personal safety, we are asking students,"

**Monday, October 12**

Minority affairs brown bag luncheon, "Columbus: Discovery: The Quintessential Crime!"

Donald F. Licci, history, and Irene S. Vasquez, religion, Kanley Chapel multi-purpose room, noon.

(19) University computing services workshop, "Focus on Aldus Persuasion for the Macintosh," Bruce M. Haight, history, 2033 University Computing Center, noon-2 p.m.; call 7-5430 to register.

Visiting Scholars and Artists Program event, "Children in Danger: Coping with Community Violence," James Garbarino, president, Erikson Institute for Advanced Study in Child Development, Chicago, 2304 Sangren Hall, 7:30 p.m.

**Tuesday, October 13**

Telescope conference, "Enabling Technology: Michigan Resources," Tate Center, 3210 Sangren Hall, noon-1:45 p.m.

Physics colloquium, "Potential Scattering and Analyticity in Potential Strength," Sumio Tani, professor of physics, Maquette University, 1110 Rood Hall, 4 p.m.; refreshments, 3:30 p.m.

Gospel concert, Dalton Center Recital Hall, 3:30 p.m.

**Wednesday, October 14**

Visiting Scholars and Artists Program seminar, "Multicultural Education and Liberation Pedagogy," James Garbarino, president, Erikson Institute for Advanced Study in Child Development, Chicago, 2304 Red Rooms, Bernhard Center, 11:45 a.m.

Kalamazoo Film Society showing, "Proof," directed by Jacelyn Moorhouse, 2750 Four October 8, 1992 Western News

**Thursday, October 15**

Homecoming exhibit of African American art and culture, Red Rooms B and C, Bernhard Center, 9 a.m.-5 p.m.

President Haines's open house hours, 3000 Selbert Administration Building, 10 a.m.-noon.

Soccer, WMU vs. Spring Arbor College, Waldo Stadium, 3:30 p.m.

University film series, "The Bicycle Thief" (Italy, 1949), directed by Vittorio De Sica, 2750 Knauss Hall, 7 p.m.

**Homecoming reception, "Columbus: The Myth, the Legend, the Reality," Dalston Center Recital Hall, 7 p.m.**

**MEDALLION RECEPTION — Winners of Medallion Scholarships were honored at a special event at the Reardon Center sponsored by the WMU Foundation. The colloquium gave the scholars a chance to meet with the people who donated funds for the awards, such as Carlson-Carnichael, left, emerita in English. Others in the photo are Fred W. Pittz, a sophomore from Schoolcraft and Radewas' guest, and Susan L. Porter, WMU Foundation. The $25,000 awards are among the largest merit-based scholarships in American public higher education.**