Innovation For A Complex World

1991

Oakland University President's Report

One of America's
"Best Buys" in Four-Year Colleges
and Universities
— U.S. News & World Report

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1991 President's Report

Above: Professor of Biomedical Sciences Venkat Reddy directs efforts to understand and cure diseases of the eye at Oakland's world-renowned Eye Research Institute.

SOLVING REAL-WORLD PROBLEMS

September 30, 1991, was an important day in Oakland University's 32-year history. Newsstands across the country carried the new issue of *U.S. News & World Report* featuring America's "Best Buys in Four-Year Colleges." And Oakland University was one of them.

Specifically, Oakland ranked eleventh among the Midwest region's top 15 colleges and universities. Rankings were based on academic reputation, student selectivity, faculty and financial resources, student satisfaction and average or midpoint SAT/ACT scores. Only highly rated institutions were considered.

Were we proud? Yes. Surprised? No. And I believe when you look through the pages of this report, you will quickly see why we feel this way.

Universities are going through extraordinarily difficult financial times. This is particularly true in Michigan, where public funding and tuition income are not keeping pace with increasing costs.

Oakland University's financial health is vital to the thousands of undergraduate and graduate men and women who come to us for top-quality instruction and unique research opportunities — vital to the faculty and staff who give so eagerly of their time and talents — and vital to the thousands of people in southeastern Michigan and the world beyond who look to this institution to help solve pressing problems.

Because of these responsibilities, we took serious steps in 1991 to ensure that we were spending each dollar as efficiently and as effectively as possible — and in areas that will have the greatest impact on educating our students for a complex world.

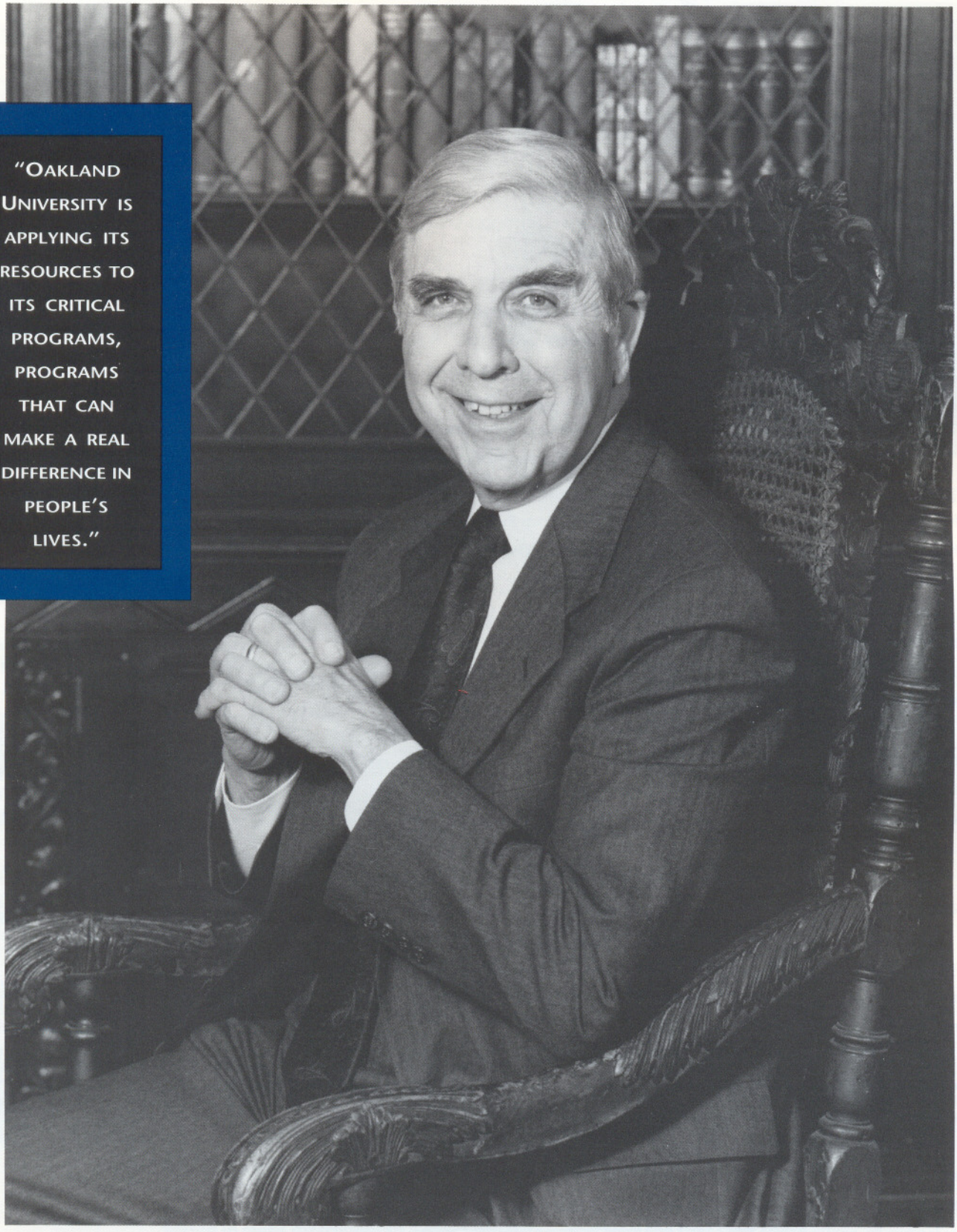
Through this document, we are communicating to significant publics that Oakland University is applying its resources to its critical programs, programs that can make a real difference in people's lives. You will see eight examples on the following pages, from major advances in stroke research to new methods of teaching math to primary students. The "In Brief" section highlights other important activities undertaken in 1991.

Programs such as these no doubt helped Oakland University earn recognition from the North Central Association of Colleges and Schools as a "model university for the 21st century" during that body's 10-year accreditation review in 1989.

Oakland University will not wait for the next century. We judge our own performance every day.

John De Carlo
Interim President

"Oakland University is applying its resources to its critical programs, programs that can make a real difference in people's lives."



Count On It!

A Michigan-New Zealand mathematics teaching project sponsored by Oakland University is impressing Detroit-area educators ... and kids, too.

It's math time in several Detroit-area school districts and the students are raring to go — reciting rhymes and poems with a math flavor, and placing colored pegs in a large pegboard.

And they *like* it.

The key is Beginning School Mathematics (BSM).

Implemented by the New Zealand Ministry of Education more than 30 years ago for children ages 5 to 7, BSM is currently being tested in eight metropolitan Detroit districts — marking the first time BSM materials are being used outside New Zealand. It is one of several programs supported by a $496,200 grant made to Oakland University's School of Education and Human Services by the W.K. Kellogg Foundation. The school's Institute for Action Research coordinates the BSM materials and is monitoring the program's early phase.

Daily exercises involve students talking about the relationships of size, shape, weight, position, number, sequence and physical attributes of a wide variety of objects and the environment. Less emphasis is placed on rote.

Classrooms are organized into labs with several kinds of materials: math apparatus (weighing balances, pegboards, counters), construction items (empty boxes, cardboard tubes, strings), environmental materials (pebbles, leaves, shells), and unique sets of cards that creatively involve children in challenging problems.

Kindergarten and elementary schoolteachers involved in the program are genuinely pleased with the early results.

"I love to sit at my desk and watch the learning taking place around me," says Barbara Bushey, a kindergarten teacher at Bloomfield Hills' Conant Elementary School. "My students are making quantum leaps in their math knowledge."

A report recently presented to an on-site Kellogg Foundation Evaluation Team shows students in BSM classrooms have better attitudes and less anxiety than students in traditional classrooms.

"A major emphasis of our program is getting students to develop mathematical ideas collectively," says Donald Miller, co-director of Oakland's Institute for Action Research. "One look at this in motion and you begin to realize that you are involved in something special."

What sets Beginning School Mathematics apart from other developmental programs is its emphasis on placing mathematics into every aspect of the teaching plan — integrating it with the sciences, reading and social studies.

Students have better attitudes and less anxiety than students in traditional classrooms.

Through Oakland's program, Beginning School Mathematics is currently being tested in eight metropolitan Detroit districts — marking the first time these materials have been used outside New Zealand.

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THE EYES HAVE IT

A 10-YEAR STUDY BY OAKLAND UNIVERSITY AND BEAUMONT HOSPITAL MAY SAVE AMERICA'S AGING EYESIGHT.

It's no secret that the older we get, the more susceptible we become to age-related eye diseases — cataracts, glaucoma and macular degeneration.

But a landmark study by Oakland University's Eye Research Institute (ERI), in conjunction with William Beaumont Hospital in Royal Oak, Michigan, may help save America's aging eyesight.

Some 450 Michigan senior citizens are volunteering for the 10-year study — the first to track the natural history of age-related eye diseases — which is being funded by a $2.5 million grant from the National Eye Institute (NEI).

Under the direction of Dr. Raymond Margherio, chief of ophthalmology at Beaumont and a clinical professor of biomedical sciences at Oakland's ERI, the study will determine if vitamins and nutrients can have a positive effect on — and perhaps even prevent — age-related eye disease.

"Aging is something we can't control, but we *can* control diet and nutrition," says Margherio. "If we can improve treatments by giving people better vision for longer periods of time, we can offer a better quality of life."

Since opening its doors in 1968, Oakland's ERI has performed breakthrough studies on cataracts, glaucoma and other blinding eye diseases. Over the years the world-renowned vision center has received $17.5 million to fund its research, and is the only major eye research facility in the country not associated with a medical school.

"The ERI is only one of a very few research labs worldwide that is successfully growing human lens cells and retinal pigment epithelium cells in tissue culture," says Venkat Reddy, Ph.D., director of the institute and professor of biomedical sciences.

"The cultures are being used to study vision problems caused by diabetes. We expose the tissue to high levels of sugars and follow their progress," says Reddy. "We're also researching the visual side effects of various drugs prescribed to diabetic patients."

In another area of the institute, rabbits are being used as the first animal model for studying nuclear cataracts. "Rabbits are helpful because they have the same size lenses as humans," says Frank Giblin, associate professor of biomedical sciences, who received a $1 million grant in 1991 from the NEI for the study. "We're also using guinea pigs to study the effects of vitamin C on vision."

Since opening its doors in 1968, Oakland's world-renowned vision center, under the direction of Venkat Reddy, Ph.D., has performed breakthrough studies on cataracts, glaucoma and other blinding eye diseases.

A landmark study to determine if vitamins and nutrients can have a positive effect on — and perhaps even prevent — age-related eye disease is being directed by Dr. Raymond Margherio, chief of ophthalmology at William Beaumont Hospital in Royal Oak, and clinical professor of biomedical sciences at Oakland's Eye Research Institute.

By studying the effects of high pressure oxygen on lenses, Frank Giblin, associate professor of biomedical sciences, searches for solutions to cataracts through a $1 million grant from the National Eye Institute.

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Where Quality Counts

When Ford Motor Company boasts that "Quality is Job 1," it looks to a team from Oakland University to help support the claim.

To Harvey Arnold, quality is *the* name of the automotive game.

Are the exterior surfaces smooth? Have the engine parts been properly machined? Is everything square?

Led by Arnold, professor of mathematical sciences, Oakland University faculty and students have forged a growing partnership with America's second-largest automaker — offering undergraduate and graduate courses; consulting services; and research and technical support in quality, process and productivity improvements.

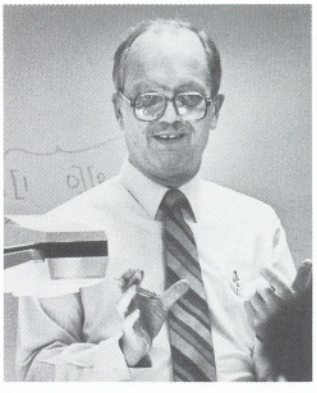
And the Ford/Oakland University team is making a difference. Not only has there been a shift in Ford's approach to automobile quality, but Arnold says Oakland's on-site degree programs have changed the mind-set of Ford engineers.

"They're asking the tough questions ... digging into a problem more because they know how important quality is," says Arnold. "We'll graduate almost 40 Ford engineers through our master's in applied statistics program this year. That's more than any university in the country. It shows the commitment Ford and Oakland University have to achieving greater quality processes."

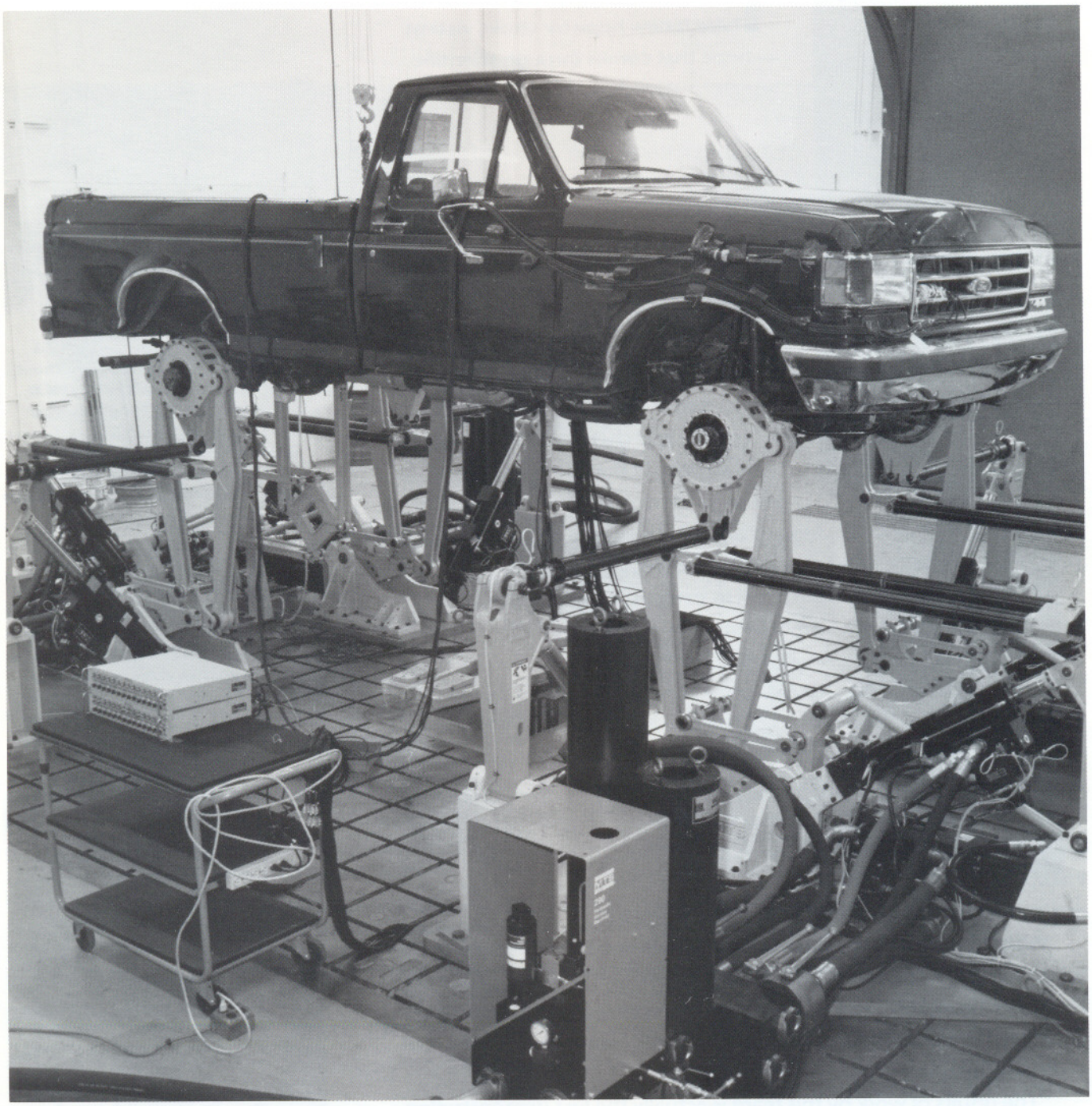
Ford continued support of Oakland University projects in 1991 with:

- A $225,000 grant for Oakland's Statistical Computing Laboratory and for faculty and research assistance.
- An award of $305,000 to continue a consulting and co-op student agreement begun in 1985 with the Ford Engine Division.
- A $100,000 contract for a consulting and co-op agreement with the Ford Light Truck Division, as well as a $78,000 award with the Ford Transmission Division.

"Our students gain valuable work experiences; the stipends allow the university to compete for quality, full-time graduate students so essential to a viable master's program; and Ford gains an addition to its project teams on quality and productivity improvement programs," Arnold says.



Led by Harvey Arnold (above), professor of mathematical sciences, the Oakland University faculty and student team is providing solutions for Ford's engineering staff using computer modeling and statistical quality control (below).



A vehicle from Ford's Light Truck Division is wired, monitored and analyzed to help identify sources of variation and inconsistency. Oakland will graduate almost 40 Ford engineers through its program in 1992 — awarding more master's in applied statistics degrees than any university in the country.

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Hope Ahead

Working with doctors at Henry Ford Hospital, Oakland physicists are leading research efforts to study causes of strokes and migraine headaches.

There is new hope for stroke victims — hope that comes through scientific research within the walls of Henry Ford Hospital.

The Detroit-based stroke center is one of just 11 nationally. It is also one of two major research efforts for Oakland University and Henry Ford involving the human brain — one of the most difficult organs to study.

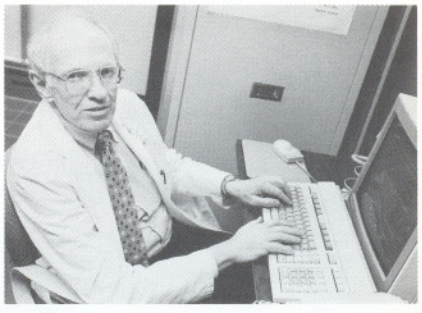
By using a technique called Nuclear Magnetic Resonance (NMR), Oakland researchers at the center are measuring blood flow and chemical reactions in the brain to help fill the missing gaps in understanding strokes — and possibly offer alternative therapies. More than 200 stroke victims have participated in the development of the NMR technique.

"Before the application of NMR to stroke research, we based our understanding of the physiological and biochemical processes involved with stroke on studies performed with animals," says Oakland alumnus Joseph A. Helpern (Ph.D., '88), director of NMR research in Henry Ford's Department of Neurology. "Because NMR doesn't hurt at all, it can be safely applied to the study of various human disorders, such as stroke."

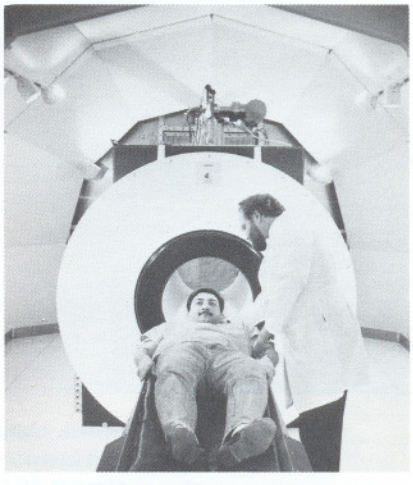
Down the hall from Henry Ford's NMR Lab, Norman Tepley, Ph.D., chairperson of Oakland's Department of Physics, works in the Neuromagnetism Lab, studying migraine headaches on an ultramodern instrument: a $1 million Neuromagnetometer.

With this machine — one of only 16 in the world — Tepley can follow the brain's innermost electrical currents. The Oakland University/Henry Ford research group is interested in tracking the magnetic fields generated by intracellular currents, which they believe may be the root cause of migraines.

"The results of work by this team is actually the first demonstration of the intracellular currents hypothesis," explains Gregory Barkley, M.D., senior staff neurologist at Henry Ford. "It represents a transformation of the research phenomenon into a clinical reality."



Using one of the world's 16 Neuromagnetometers, Oakland physicist Norman Tepley, Ph.D., heads a Henry Ford Hospital research group tracking magnetic fields generated by intracellular currents in the scalp, skull and brain — linked to what may be the root cause of migraines.



In a Nuclear Magnetic Resonance study, the patient is placed inside a cylinder-shaped magnet. Radio-frequency coils transmit signals to and from the molecules in the patient's brain. By analyzing these signals, researchers are learning more about the relationships of metabolism to strokes.

Oakland alumnus Joseph A. Helpern (Ph.D., '88) is director of Nuclear Magnetic Resonance research in Henry Ford's Department of Neurology, one of just 11 stroke centers nationally. His studies have revealed that high glucose levels and high body temperature may hinder the recovery of stroke patients.

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Developing Human Talent

Pontiac, Michigan, now has the area's first Professional Development School and a free adult career counseling center — thanks to Oakland University.

Commitment to education at Pontiac's Longfellow Elementary School may improve education for all schoolchildren.

Faculty from Oakland University's School of Education and Human Services have formed a partnership with educators at Longfellow to create metro Detroit's first Professional Development School.

"A Professional Development School is a place where risks are taken, where the participants are willing to try new things and are open to change and continuous learning to achieve the ultimate goal of improving education for *all* children," says Gerald Pine, dean of Oakland's School of Education and Human Services.

Over the next five years, university faculty and Longfellow educators will be working together in research teams to design and implement effective, innovative teacher preparation programs. And they'll be trying out new ways to help schoolchildren become motivated lifelong learners.

"Educational institutions cannot afford to operate in isolation from each other," says Pine. "We are bound together in a common enterprise — the development of human talent."

Human talent is also being shared in another Pontiac partnership involving the School of Education and Human Services.

Last spring, Oakland expanded its free, on-campus Adult Career Counseling Center to a second location in a joint effort between the university and Oakland Community College. Located in OCC's Pontiac Center in downtown Pontiac, the new center is staffed jointly by the two schools, and offers one-on-one career counseling and use of special on-line computer programs for job searches, skills and interests.

During the initial three-month pilot period, 92 people were served by the center, with the majority between the ages of 26 and 49. They included women re-entering the work force and laid-off workers seeking information about new jobs and careers.

"The center is also providing on-the-job training for our graduate counseling students, and research opportunities in career development," says Howard Splete, professor of education at Oakland and co-director of the Pontiac center. "So it's good for the community and good for the university."

Faculty from Oakland University's School of Education and Human Services have formed a partnership with educators at Pontiac's Longfellow Elementary School to design and implement innovative teacher preparation plans.

Staffed by graduate students, Oakland's newest Adult Career Counseling Center in downtown Pontiac individually counseled 92 people during its initial three months.

Over the next five years, Professional Development School educators will be trying out new ways to help schoolchildren become motivated lifelong learners.

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Healing Hands

Oakland's School of Nursing has combined forces with several major hospitals to improve the quality of care in Michigan.

The statistics are staggering.

By the year 2010, more than 35,000 Certified Registered Nurse Anesthetists (CRNAs) will be needed nationally — a 40 percent increase over the number available now. Today, in Michigan hospitals alone, more than 100 CRNA positions remain unfilled.

To help battle the local and national shortages of CRNAs, Oakland University's School of Nursing, teamed with Royal Oak's William Beaumont Hospital, has created a graduate degree program in nurse anesthesia. Graduates will earn a master of science degree in nursing after completing a clinical internship at Beaumont and 50 credit hours of on-site nursing instruction. They will then be eligible to take the national certification exam to become Certified Registered Nurse Anesthetists (CRNAs).

"Oakland University has taken a leadership role in the preparation of CRNAs in Michigan," says Penny Cass, former interim dean of Oakland's School of Nursing. "Programs like these not only provide hospitals with highly trained nurses, but they show the flexibility and responsiveness of our school in meeting the needs of the community."

Other Oakland nursing outreach programs include:

- A Registered Nurse/Bachelor of Science in Nursing degree completion sequence — with more than 600 registered nurses in metropolitan Detroit currently enrolled in the program. Oakland University faculty teach courses in the hospital.
- Initiation of several research collaboratives with local hospitals to improve health care quality by addressing the maximum use of scarce economic and human resources. Oakland is the only nursing school in Michigan engaged in hospital collaborative research projects.

"The collaboratives offer first-level research that tests nursing procedures," says Cass. "We used to do things in the nursing profession based on tradition. Now we're looking more closely at ways nurses can be more productive and effective at the bedside."

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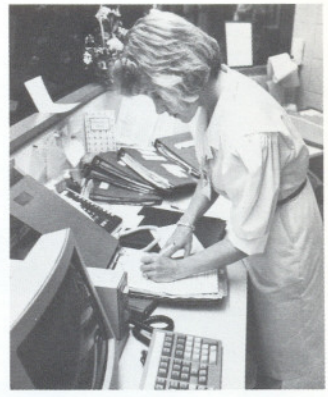

Oakland is the only nursing school in Michigan engaged in hospital collaborative research projects — from studying the cost effectiveness of a blood pressure cuff, to determining correct procedures for treating patients.

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More than 600 registered nurses in metropolitan Detroit are currently enrolled in Oakland's Bachelor of Science in Nursing degree completion program.

Oakland's graduate degree program in nurse anesthesia, established in partnership with Royal Oak's William Beaumont Hospital, is helping combat a national shortage in Certified Registered Nurse Anesthetists (CRNAs). Currently, more than 100 CRNA positions remain unfilled in Michigan hospitals alone.

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Structurally Sound

An Oakland mechanical engineer is helping to make the world a safer place to live.

The next time your plane lands safely on the runway, you can thank an Oakland University professor for the smooth ride.

Blowouts on airplane tires have been virtually eliminated in the last several years, thanks to an invention by Michael Hung, professor of engineering and associate director of the Center for Robotics and Advanced Automation.

Using a video camera, a laser and a computer, Hung's invention — which he calls shearography — can detect flaws and imperfections in everything from spaceships to computer chips. Such imperfections can mean unsafe products and can cost lives.

The idea for Hung's invention grew out of his training in applied mechanics and stress analysis. Unlike other methods of measuring stress and strain on objects, shearography uses a laser optical method to provide a "full field" look inside objects (instead of point by point), quickly, and without requiring contact with the object. That makes it perfect for testing the safety and strength of large objects, such as bridges. "There are a lot of bridges in this country that are starting to age and their safety is coming into question," says Hung. "Up until now, there has been no good way to test them."

Since patenting his invention some 10 years ago, shearography is now being used by NASA and by the aircraft and automotive industries to detect flaws in composite materials, which are being used more and more, Hung says, because they are lightweight, strong and generally cheaper to manufacture.

Hung is currently testing the quality of adhesive bonding for the Ford Motor Company, under a two-year, $100,000 grant.

But the newest application of shearography, he says, is in computers and computer chips.

"Computers are being used to control missiles, for robotic factory production, in medical equipment and procedures — in about everything in our lives. The reliability of computers is becoming very important. And that's where shearography can help."

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Changing Habits, Changing Lives

Oakland's Meadow Brook Health Enhancement Institute has changed the lifestyles of hundreds of southeastern Michigan residents — with impressive results.

Dennis Lennox says he owes his life to the efforts of Oakland University's Meadow Brook Health Enhancement Institute.

Through his company's health maintenance program, Lennox, manager of design engineering at ITT Automotive in Auburn Hills, received a yearly institute health risk appraisal. His evaluation, which included a treadmill stress test, indicated a heart irregularity caused by an artery blockage.

"I had no symptoms at all — no chest pain, no shortage of breath — I felt I was in good physical condition," Lennox said. "If I had not taken the test, I'd have had no idea."

After successful surgery to repair the blockage, Lennox is back to 100 percent physically.

"It's very real that the institute *saved* my life," says Lennox. "They found something I had no idea was wrong. My doctors indicated that possibly the first symptom I would have had may have been a heart attack."

Lennox is a shining example of hundreds of success stories. The institute has become a pioneer in individual and corporate wellness programs in southeast Michigan — addressing the important elements of health enhancement, including nutrition, weight control, stress management and physical fitness.

The institute offers programs ranging from *60 Plus* for seniors and *Smoking Cessation* to *Just for Women* and *Health Enhancement for Diabetics*. Staffed by a team of doctors and medical personnel, the institute includes an indoor track, exercise room, saunas and whirlpools.

And working within the university's School of Health Sciences, the institute offers research opportunities for its faculty in fields such as exercise physiology, medical technology and cardiac rehabilitation.

"To us, feeling good means being capable of doing at age 70 what you were physically able to do at 40," says Alfred W. Stransky, associate dean for community health and director of the institute. "We believe you can avoid a disabling disease through prevention. The most effective way to do that is by altering your lifestyle."

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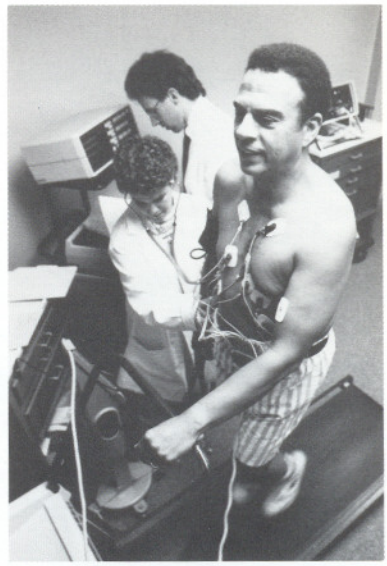

Former Mayor of Atlanta, Georgia, Andrew Young, is one of hundreds of people who have taken advantage of Oakland's Meadow Brook Health Enhancement Institute, which offers some of the most comprehensive clinical and laboratory tests and evaluations in the country.

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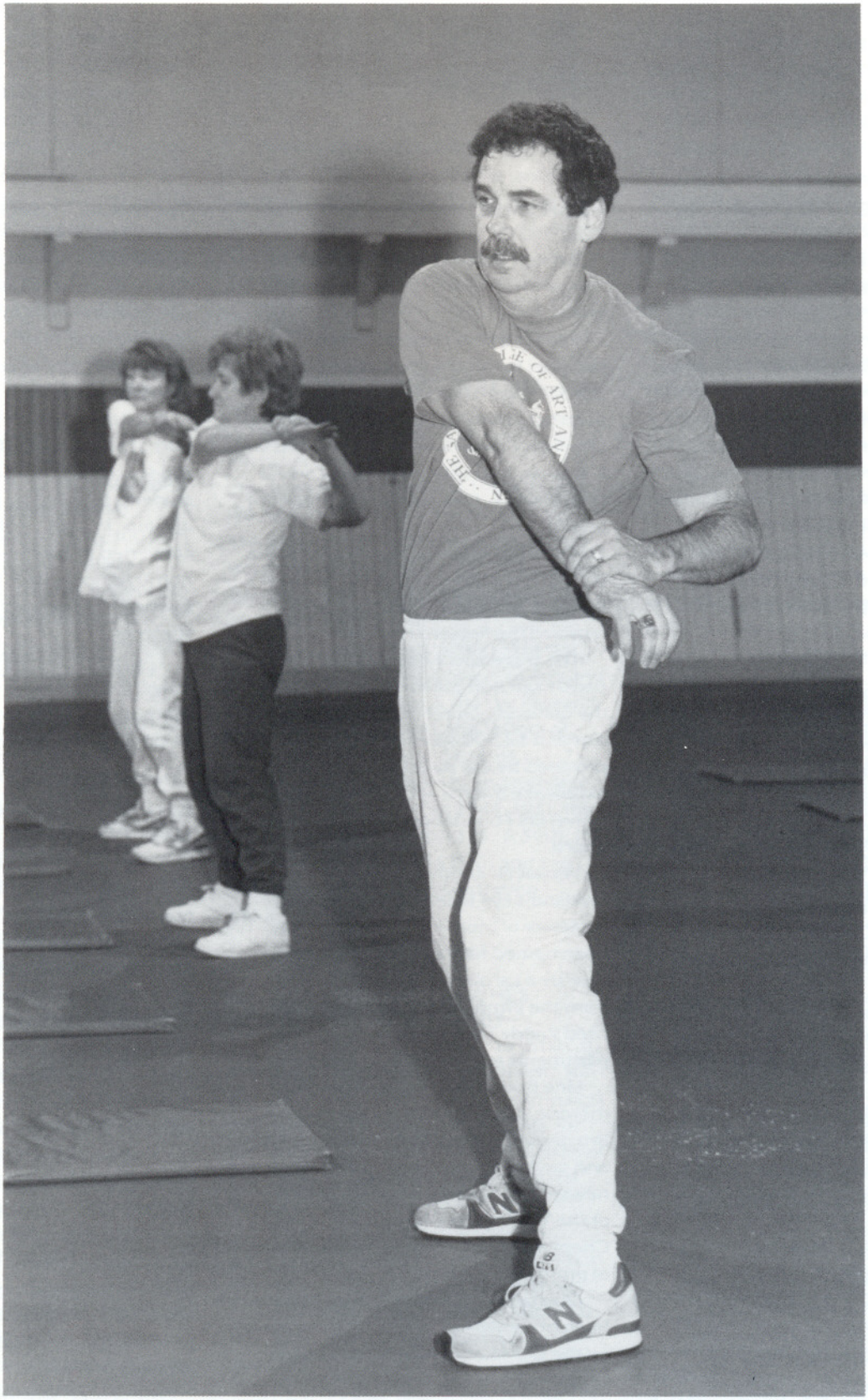
The Meadow Brook Health Enhancement Institute offers programs for individuals and companies ranging from *60 Plus* for seniors and *Smoking Cessation* to *Just for Women* and *Health Enhancement for Diabetics*.



Dennis Lennox, manager of design engineering at ITT Automotive in Auburn Hills, works out in the early morning on the institute's indoor track: "It's very real that the institute *saved* my life."

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1991 In Brief

Oakland Cited "Best Buy" by National Magazine

The national news magazine *U.S. News & World Report* has ranked Oakland University among the top 15 Midwestern regional colleges and universities. Oakland tied for 11th place with Northeast Missouri State University among schools in the Midwest region. Winning criteria was based on academic reputation, student selectivity, faculty and financial resources, student satisfaction and SAT/ACT scores.

Oakland also was included in the *Money Guide* "Best College Buys" directory, which provided data on 1,011 four-year schools.

Champagne Resigns, New President Sought

Joseph E. Champagne, president of Oakland University for 10 years, resigned in August to become president and chief executive officer of the Crittenton Corporation in Rochester, Michigan.

John De Carlo, vice president for governmental affairs, general counsel and secretary to Oakland's Board of Trustees, was named interim president by the board.

A single search committee of 15 members has been formed to assist the board in the selection of a new president.

Champagne, the university's fourth president, came to Oakland in 1981 from Texas, where he was vice president for academic affairs in the University of Houston system.

De Carlo came to Oakland in 1969 and holds a bachelor of arts and a law degree from Wayne State University. Prior to joining Oakland, he held key administrative positions at Central Michigan University and Chrysler Corporation.

Professors Win Recognition for Outstanding Effort

Several Oakland University professors have won special recognition for their work.

Four Oakland professors were honored for teaching excellence and a fifth for research achievements at fall commencement ceremonies. Teaching Excellence Awards were given to Richard F. Barron, associate professor of education; David L. Lau, assistant professor of communication arts; Bruce J. Mann, assistant professor of English; and Anne H. Tripp, professor of history. Michael Y. Y. Hung, professor of engineering, received the Research Excellence Award.

The professors were selected by their peers from nominations submitted by the university community. Each award carries a $2,500 stipend, with funds provided by the state for the teaching excellence awards and by the Oakland University Foundation for the research award.

Venkat N. Reddy, director of Oakland's Eye Research Institute and professor of biomedical sciences, has been named Michigan Scientist of the Year by a Lansing museum. The award from the Impression 5 Science Museum cited Reddy for his "scientific accomplishments and insightful research."

Jane Briggs-Bunting, chair of the rhetoric, communications and journalism department, professor of journalism and adviser to the *Oakland Post* student newspaper, has been named Journalist of the Year by the Metropolitan Detroit Chapter of Sigma Delta Chi, the society of professional journalists.

Outstanding academic awards have been presented to two faculty members by the OU Alumni Association and its College of Arts and Sciences Affiliate. The winners are David L. Lau and Egbert W. Henry, professor of biological sciences.

"Scholar Tower" Created for Top Students

Oakland University's West Vandenberg Residence Hall has converted three floors into a Scholar Tower, offering more than 130 students the opportunity to live among other academic achievers.

The tower, which opened last fall, is part of an ongoing effort to make the residence halls more attractive to students by offering a variety of living options. In 1990, Anibal House was converted into a "wellness hall" and a non-traditional floor in Hamlin Hall was opened for older undergraduate students.

The main criteria for the Scholar Tower is a minimum 2.8 grade point average. Students who receive merit and student life scholarships also are eligible.

Education School Changes Name, Opens Explorer Center

To better reflect the primary mission of the school in preparing students for teaching careers, the name of the School of Human and Educational Services has been changed to the School of Education and Human Services.

Teachers throughout Michigan are coming to Oakland's Teacher Explorer Center to learn how to produce multimedia presentations. In turn, the teachers will show their students, and the students will create their own presentations that can be used to teach and learn.

Using a variety of methods from videotape to computer graphics, students assigned to projects, in virtually any subject, will work together to produce a multimedia presentation that explains the lesson.

The center, which opened in May as an experiment paid for by the state's $25,000 startup grant and more than $100,000 worth of equipment, is the only such facility in Michigan.

ENROLLMENT EDGES UP, GRAD STUDENTS INCREASE

Official enrollment at Oakland University has increased by 130 students from the 1990 level, to 12,530. Undergraduate enrollment is down for first-year and sophomore students, but is up slightly for juniors and seniors. The large headcount increase came at the master's level with 2,370 students enrolled, up from 2,166 a year ago.

Oakland's all-time record enrollment was achieved in 1986 with 12,707 students. The university has deliberately downsized slightly since that time to increase the number of dollars in annual state support available for each student.

ALUMNI GRANTS FUND CAMPUS PROJECTS, SCHOLARSHIPS

The Oakland University Alumni Association recommended $10,300 in awards from the Alumni University Enrichment Fund for projects to benefit the university and further its mission. Undesignated gifts from alumni support the fund. In 1991, 23 proposals were considered and five awards were made:

- $5,000 to establish a user-initiated automated book request system for Kresge Library, allowing users to bypass delays due to manual processing of requests and shipping of materials from other collections in the state;
- $2,000 to replace the grand curtain drape in Varner Recital Hall;
- $1,000 to purchase equipment for a program to prepare minority, post-baccalaureate substitute teachers as certified elementary teachers in the Pontiac School District;
- $1,600 to partially fund a new multi-disciplinary course, "Understanding AIDS in the Community," offered by the School of Nursing;
- And, $700 to purchase books and materials for a newly developed course in the School of Education and Human Services dealing with gender and cultural socialization.

Eleven students are benefitting from scholarships awarded by the Alumni Association affiliate organizations. Funds for the scholarships come from membership dues and contributions to specific scholarships by alumni donors.

BOARD APPROVES $64.5 MILLION BUDGET FOR 1991-92

The Oakland University Board of Trustees approved a $64.5 million general fund budget for the 1991-92 fiscal year, an increase of 4.3 percent over the previous year.

Revenue for the new fiscal year includes $35.5 million in state appropriations, $26.3 million in tuition and fees, $900,000 in indirect cost recovery from administering grants, and $871,000 in miscellaneous income (mostly from investments).

EXTERNAL SUPPORT REACHES $6.4 MILLION

External funding for Oakland's research and other sponsored program activity for fiscal 1990-91 was $6,469,754. By broad program area, the $6.4 million total breaks down into academic support ($4,672,311) student programs ($1,100,607) and university programs ($696, 836).

Research units attracting external funding included the College of Arts and Sciences ($1.9 million), the Eye Research Institute ($1.4 million), the School of Education and Human Services ($640,350), the School of Engineering and Computer Science ($348,395), the School of Health Sciences ($76,500), the School of Nursing ($66,073) and the School of Business Administration ($52,100).

KRESGE LIBRARY LAUNCHES ENDURING LEGACY FUND

A campaign is under way to establish the "Enduring Legacy Endowment" for Kresge Library. The three-year campaign will raise $3.5 million in new funds for enhancing the library's core collection of books and journals, bringing the total endowment to $5 million.

When fully funded, the Enduring Legacy will provide close to $250,000 in earned income each year to the library.

As of December 31, 1991, nearly 50 percent of the $3.5 million had been pledged.

The campaign caps a library improvement program that began with an $11.5 million renovation and expansion project, funded by state and private gifts.

MEADOW BROOKS HAVE SOLID YEAR, ADD FESTIVAL GARDENS

Meadow Brook Theatre celebrated its 25th anniversary during the 1990-91 season with such plays as "Cabaret," "Barefoot in the Park," and "Pump Boys and Dinettes." More than 129,500 patrons took in performances, up almost 12,000 patrons over the previous year. The Wilson Hall auditorium that houses the theatre was named the "Marion and David Handleman Auditorium" in honor of the couple's longtime support of the university and its various performing arts programs.

The Meadow Brook Music Festival entertained 139,615 patrons over 49 concerts during the spring/summer season. Attendance was down some 30,000 over the previous year.

The Meadow Brook Music Festival Gardens were completed as the season opened, featuring a gazebo, more than a dozen different gardens and a small waterfall. The gazebo is designed to accommodate pre-concert entertainment. The festival gardens were made possible in large part by donations from area landscapers and nurseries.

The Meadow Brook Art Gallery mounted several major exhibits during 1991. Artist Henrietta Mantooth's work, in an exhibit titled "In the Spirit of Protest," depicted oppressed people of Central and South America. Realism and Expressionism were explored in "Expressive Visions and Exquisite Images: Two Aspects of the '80s from the Richard Brown Baker Collection."

The Meadow Brook Health Enhancement Institute won the prestigious Beacon Wellness Award for Educational Institutions in February. The award is called the "Oscar of Detroit's health field" and recognizes outstanding achievements and distinguished service in the area of wellness and fitness. The institute also developed a new disease prevention program that targets osteoporosis, a bone disease that afflicts more than 24 million Americans.

Restoration work continued at Meadow Brook Hall, under a two-year $950,000 grant awarded by the Matilda R. Wilson Fund of Detroit. The repairs are necessary to prevent deterioration and to ensure that the 60-year-old hall remains essentially as constructed.

TWO NEW TRUSTEES NAMED

Two attorneys in private practice have been appointed Oakland University trustees by Michigan Governor John Engler.

Andrea L. Fischer and L. Brooks Patterson were named to the governing body to fill vacancies left by Patricia B. Hartmann and Ken Morris. Fischer is a senior attorney with the Detroit law firm Miller, Canfield, Paddock and Stone; and Patterson is an attorney with Patterson and Potter in Auburn Hills.

Trustees reelected Howard F. Sims and Phyllis Law Googasian to leadership posts for the 1991-92 term.

Sims, chairman and chief executive officer of the architectural firm Sims-Varner & Associates, Inc., is serving his second one-year term as chair of Oakland's Board of Trustees. He has been an Oakland trustee since 1981.

Googasian, a travel consultant with Kimberly Travel in Rochester, has been on the board since 1984, and is serving her second one-year term as vice chair.

STUDENTS WIN PRESTIGIOUS SCHOLARSHIPS, AWARDS

Four Michigan high school students have been awarded Oakland's prestigious Presidential Scholarship, which is based on exceptional academic achievement, activities, personal interviews and recommendations.

The winners, who maintained perfect 4.0 grade point averages throughout high school, are John J. Headley of Rochester Hills (engineering major), Kristine M. Kortjohn of Sanford (biology major), Loren C. Macklem of Sterling Heights (engineering major) and Kori Ann Vegh of Troy (elementary education major). The scholarship carries a $24,000 stipend. The students will each receive $6,000 a year for four years to attend Oakland.

Two other students have been awarded Oakland University Foundation Scholarships, which carry a $20,000 stipend over four years. They are Amy M. Juett of Shelby Township (an undecided major), and Kristina E. Kaufman of Fairview (physical therapy major).

Two students were honored at the College of Arts and Sciences June commencement ceremony with the university's highest award granted to undergraduates — the Wilson Awards — and a third student received the Human Relations Award.

Sara Pastoor, a psychology major, received the Matilda R. Wilson Award; Michael Poll, a history major, received the Alfred G. Wilson award; and Esther Martinez, a sociology major, was the recipient of the Human Relations Award. Along with academic achievement, all three awards are based on extensive involvement with the university community and carry a $500 stipend and citations.

GRANTS HELP FURTHER WORK

The Detroit-based McGregor Foundation has awarded the university $256,499 for an improved languages program, including a computer-based language technology center and the addition of two faculty members to teach Japanese and Russian. The grant will allow Oakland to expand its Japanese language program to a full four-year sequence of courses, and help train students who may be interested in the Commonwealth of Independent States, formerly the Soviet Union.

Dawn Pickard, assistant professor of education, has received two grants totaling $80,000 from the Michigan Department of Education to support her work to help Michigan school districts develop K-12 science curricula that are more "user friendly" for women and minorities. Pickard's work involves the issue of equality — the development of science materials and teaching methods that recognizes multicultural concerns and strengths and how they affect the learning process.

Oakland student interns and various Oakland County agencies are joining forces in a new program to help find employment opportunities for the economically disadvantaged, thanks to a $70,543 grant in federal funds made available through the Michigan Department of Education. OU student interns will be trained to go into the community as paraprofessional trainers, linking people in need with the agencies designed to help them.

PIONEERS WIN NATIONAL SWIM CHAMPIONSHIP

Oakland University's women's swimming and diving team captured its second straight National Collegiate Athletic Association Division II Championship — outdistancing runnerup Florida Atlantic by a staggering 162.5 points. It was the largest margin of victory in the history of the Division II championships. Oakland also set a record for most points in a national meet, and 18 of the Pioneers' 19 swimmers earned points for 68 All-American honors.

Senior Lisa Guilfoyle had a hand in all four Oakland freestyle victories. She won the 50-yards in a school record of 23.42 seconds, won the 100 (50.93 seconds), and helped set Division II relay records in the 200 and 400 with Kerry Leavoy, Lynn Schermer and Dana Kennedy. The four led the Pioneers with seven All-American honors each.

The men's swim team finished second at the national meet for the fifth consecutive year — behind longtime nemesis California State-Bakersfield, 853.5-652 points.

Doug Allen was named the Division II Swimmer of the Year, earning victories in the 200-yard butterfly, and 200 and 400 individual medleys. Richie Orr contributed to the four records the Pioneers set — a meet record of 50.39 seconds in the 100 backstroke and Division II relay records in the 200 freestyle, and 200 and 400 medleys. Marc Hairston won the school's first men's diving title in the 1-meter board. He earned the Division II Diver of the Year honors.

The women's basketball team finished second in the Great Lakes Intercollegiate Athletic Conference (GLIAC) race with a 12-4 win-loss record, 20-9 overall.

Oakland's men's basketball squad wound up third in the GLIAC — its best finish ever — with a 10-6 record, 16-13 overall.

Paced by John Myatt, the men's cross-country team also finished third in the GLIAC. Myatt finished first in the league championship meet and 12th in the Midwest region race.

Oakland's soccer squad completed its season with a 13-6-2 record (two ties) — losing 3-2 after four overtimes to Sonoma State University in the first round of the NCAA tournament.

Financial Highlights

	1990-91	1989-90	% Increase (Decrease)
Summary of Operating Revenues:			
General Fund:			
Student Fees	$ 24,162,000	$ 22,070,000	9.5%
State Appropriations	32,661,000	33,410,000	-2.2%
Other	1,824, 000	1, 865, 000	- 2.2%
Total General Fund	58,647,000	57,345,000	2.3%
Designated Fund	3,469,000	3,007,000	15.4%
Auxiliary Activities:			
Bookcenter	3,617,000	3,167,000	14.2%
Residence Halls	4,975,000	5,049,000	-1.5%
Meadow Brook Music Festival	2,258,000	2,502,000	-9.8%
Meadow Brook Theatre	2,138,000	1,770,000	20.8%
Meadow Brook Hall	1,486,000	1,575,000	-5.7%
Katke-Cousins Golf Course	990,000	854,000	15.9%
Other	7, 381, 000	7, 303, 000	1.1 %
Elimination of Rebilled Services	(4,520,000)	(4,522,000)	-0.0%
Total Auxiliary Activities	18,325,00	17,698,000	3.5%
Expendable Restricted Fund	9,741,000	8,464,000	15.1%
Total Operating Revenues	$ 90,182,000	$ 86,514,000	4.2%
Employee Compensation (All Funds)	$ 64,353,000	$ 59,109,000	8.9%
Market Value of Endowment Fund	$ 4,418,000	$ 3,677,000	20.2%
Investment in Physical Properties	$ 116,101,000	$ 111,583,000	4.0%
Long-term Indebtedness	$ 4,150,000	$ 4,581,000	-9.4%
Debt Service Payments	$ 639,000	$ 728,000	-12.2%

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