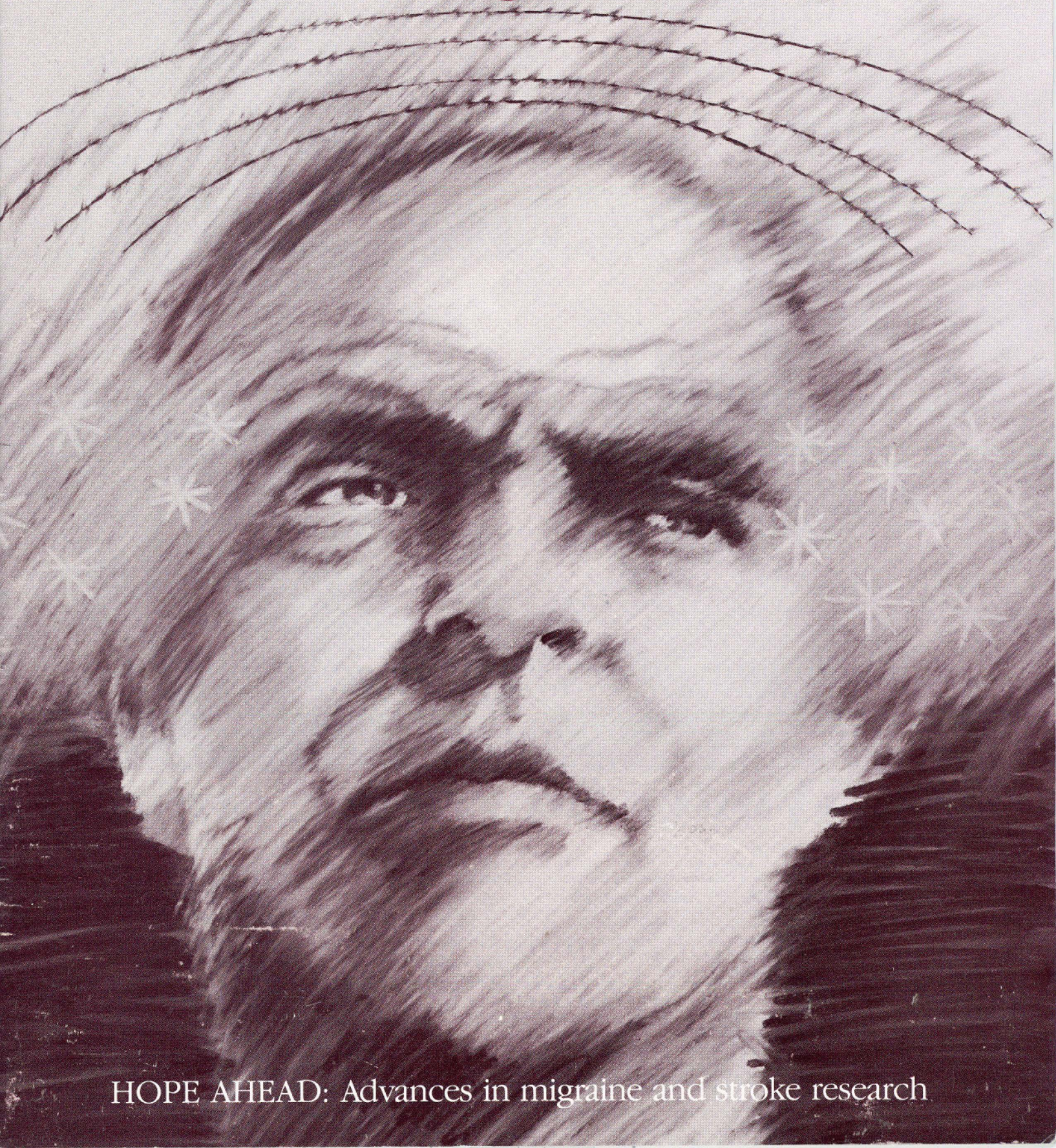
Oakland University Magazine

Fall 1989



HOPE AHEAD: Advances in migraine and stroke research

The Winter Storm is Coming.

Hilton Woods
1988 Seoul Olympic semifinalist—1989 NCAA Division II Swimmer of the Year

Debbie Delie
1989 NCAA Division II Basketball All-American

Brian Gregory
Two-time Men's Basketball All-Conference—second nationally in assists, 1988-89

Nikki Kelsey
1989 NCAA Division II Diver of the Year — One-Meter National Champion

OAKLAND UNIVERSITY ATHLETICS

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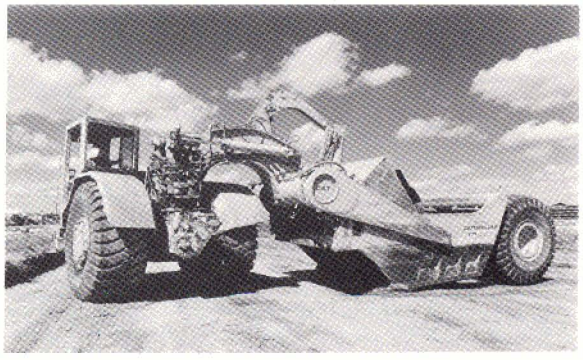

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Oakland University Magazine

Fall 1989

FEATURES

DEPARTMENTS

Questions, but few answers

I believe in catharsis. So when the editors of the *Oakland University Magazine* asked me to write an article about stroke and migraine research under way between Oakland University and Henry Ford Hospital, I didn't think twice about saying yes.

One Thursday a few weeks later, I went to Henry Ford to begin researching the article. As I had anticipated, the clean hospital smell and the green-tiled corridor leading to the Neuromagnetism Laboratory brought it all back. Too clearly back, in fact. As I walked down the corridor, I started to shake and nearly gagged. I somehow did the interviews. But I didn't think I could do the article.

I slept very little that night. I couldn't help thinking about my mother, who spent 33 days at Henry Ford following brain surgery for a pituitary tumor only 18 months before. The doctors, nurses and technicians were wonderful, but brain surgery is very frightening, painful and traumatic. I visited my mother on 32 of those 33 days. The day I missed was the day my father died after suffering a massive stroke.

My mother made a seemingly remarkable recovery — from both the brain surgery and the loss of her husband. She went back to work and began a new life. Five months later, she lay comatose in a local hospital, a victim of cardiac arrest.

The paramedics had gotten her heart to beat, but she needed life-support to stay alive. The doctors said she had suffered brain damage, although they couldn't say how much. Trained as a reporter, I asked the doctors many questions — questions there were no good answers to. Six days later, my mother's heart stopped again. I knew it was time to let her go, but I still wanted answers.

Now there was yet another question: Was I up to doing the article? Only I could answer this one. I thought about my father. Could his death have been prevented? Had his diabetes contributed to the stroke? And I thought about G. Mennen Williams, the former Michigan governor and Oakland professor, who died the day my mother was buried. I had written an article about "Soapy" Williams, whom I truly admired, for the spring 1987 *Oakland University Magazine.* Like my father, he, too, had succumbed to a stroke.

At about 3 o'clock Friday morning, I decided that I *had* to do the article. It was probably the toughest I've ever written. The subject matter — like questions pertaining to the human brain — was often elusive. I was familiar with much of the terminology but, contrarily, afraid of digging in deeper.

Finally, the article was done. Looking back, I'm glad I had the opportunity to do it. Not just because I believe in catharsis, but because the article is about research that deserves good press. Much of this research is geared toward providing answers to the kinds of questions I asked so many months ago. And, the researchers are asking questions of their own — questions that will encourage additional research on brain trauma. Such research must go on, as must life after the loss of a loved one.

Nancy E. Ryan

Nancy Ryan ('82, '89)

Editor's note: Nancy Ryan's article on stroke and migraine research, "Hope Ahead," begins on page 14.

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Oakland University is an equal opportunity and affirmative action institution.

Calling all alums for TeleFund '89

Oakland University's Annual Alumni TeleFund is currently under way and bigger than ever. The 1989-90 drive has expanded from 18 to 41 nights, attempting to reach more than 15,000 alumni and secure 3,000 pledges by December 14.

The 1989-90 OU Alumni Fund goal is $300,000, a 20-percent increase over last year. The TeleFund drive represents more than half of the Annual Fund total. In addition, the Oakland University Foundation has established a special fund designed to support the Kresge Library renovation and expansion project.

This year, each alumni gift of $25 or more, regardless of donor designation, will be matched by the OU Foundation with a gift to the Kresge Library for the acquisition of books and materials. The total Challenge Grant available is $120,000.

TeleFund organizers still need alumni volunteer callers. If you're interested, contact your alumni affiliate through the Alumni Relationis Office, 370-2158, or call the Annual Fund Office, 370-4247.

Excellence awards go to Osthaus, Stanovich

Carl R. Osthaus, associate professor of history, and Keith E. Stanovich, professor of psychology and education, were awarded Oakland University's prestigious Teaching Excellence and Research Excellence awards, respectively, at fall commencement.

Osthaus has previously been honored by the OU Alumni Association for his extraordinary efforts in advising, cited by peers for his scholarship — and now by students and peers for his teaching excellence. He was most recently noted for his love of history, accessibility, enthusiasm and high expectations of students and self.

Stanovich has won national acclaim for promoting the understanding of the psychology of reading, including issues in mental retardation, perception and information processing. He received the Albert J. Harris award from the International Reading Association for his contributions to the field.

Both professors were selected by their peers from nominations submitted by the university community. The awards each carry a stipend of $1,000, provided by the Oakland University Foundation.

Pigskin publishing: *John W. Carter (left), Oakland graduate student, at the Pontiac Silverdome with Detroit Lions General Manager Russ Thomas. Thomas was a source for* Bo McMillin: Man and Legend, *co-authored by Carter and OU History Professor Charles Akers.*

Of Head Coaches and History

It was 1921, and tiny Centre College of Kentucky, with its star quarterback Bo McMillin, defeated powerful Harvard, 6 to 0 — a game in which the *New York Times* described 50 years later as the: "Greatest Upset in the First Half of the 20th Century."

But for Oakland University History Professor Charles Akers and 71-year-old graduate student John W. Carter, there's more to be said about McMillin's talents. Akers and Carter have co-authored a book entitled, *Bo McMillin: Man and Legend,* which captures the life and times of one of football's greats. Carter, currently completing a Master of Arts degree in history, wrote several chapters of the book as part of his thesis.

"It was our intent to rescue the man from the legend," said Akers. "There is an entire generation of football fans who followed McMillin's exploits from college to the pros. It may have been a long time ago, but many of us haven't forgotten him."

McMillin, head coach of the Detroit Lions from 1948-50, was known as a strict disciplinarian — so much so that a player revolt led by Lions quarterback Bobby Layne resulted in McMillin's firing before the end of the 1950 season.

Akers and Carter interviewed former players, coaches and friends while researching the book, including current Lions General Manager Russ Thomas. Thomas played for the Lions while McMillin was head coach.

Bo McMillin: Man and Legend ($17.50), published by Sulgrave Press, Louisville, Kentucky, is available at the Oakland University Bookcenter.

Urice named Dean of Arts and Sciences

The Oakland University Board of Trustees has selected John K. Urice as dean of the College of Arts and Sciences, the university's core academic unit. He will also serve as a tenured professor of theatre.

Urice came to Oakland from Ball State University in Muncie, Indiana, where, since 1984, he had been dean of the College of Fine Arts and professor in the Department of Theatre. Prior to his Ball State appointment, Urice was director of the Master of Business Administration in the Arts program and the Center for the Arts at the State University of New York at Binghamton.

"This is an outstanding institution blessed with excellent faculty," Urice said. "Oakland University and the College of Arts and Sciences face many challenges that will impact all of society. We are prepared to meet these challenges."

Patricia Hartmann

Hartmann re-elected as board chairperson

Patricia Hartmann of Birmingham, Michigan, has been re-elected as chairperson of the Oakland University Board of Trustees. It will be her second, one-year term as chairperson.

Hartmann, a member of the board and assistant treasurer of Ziebart International, was the first woman selected to serve as Oakland's board chairperson when she was elected in 1988.

The board has also elected Detroit architect Howard Sims to his second term as vice chairperson. Sims is the chairperson of Sims-Varner and Associates, Inc., an architectural planning firm.

Schwartz helps state test make the grade

Michigan students in the fourth, seventh and tenth grades will see a longer and hopefully much improved standardized reading test this year, thanks in part to the work of Robert Schwartz, associate professor of education at Oakland.

Schwartz is part of a Michigan Department of Education team training grade-school teachers to administer the annual tests, which evaluate student reading prowess on state and national levels.

Beginning this year, the reading tests require students to read longer sections of text — up to 1,500 words — and be tested on the material.

Eye Institute sets sights on Reddy's research

The National Eye Institute has awarded Oakland University's Venkat N. Reddy a Merit Award of $1.37 million — the only eye researcher in Michigan to receive the award since the program's inception.

The award provides long-term support to investigators whose research competence and productivity are superior. Reddy, director of Oakland's Eye Research Institute, heads one of only two labs in the United States to successfully grow human lens epitherial cells in a tissue culture while still retaining their lens-like characteristics.

Reddy's research has investigated developments in human senile cataract, studied lens proteins and how they cluster together within a cell leading to cataract formation, and the genetic abnormalities that form cataracts.

After five years, he will have the opportunity to obtain a five-year renewal based on evaluation of his research findings — without the standard peer review procedure.

Brock's advice: "Get prepared"

William Brock, former U.S. senator and secretary of the Department of Labor, sports an Oakland University sweatshirt following his October address at the Fourth Annual Business Forum, sponsored by Oakland's School of Business Administration Student Board in cooperation with Ameritech Publishing. Brock spoke on the challenges facing the United States as the European Economic Community moves toward unification in 1992. More than 500 business and industry leaders attended.

Tomoko Mack

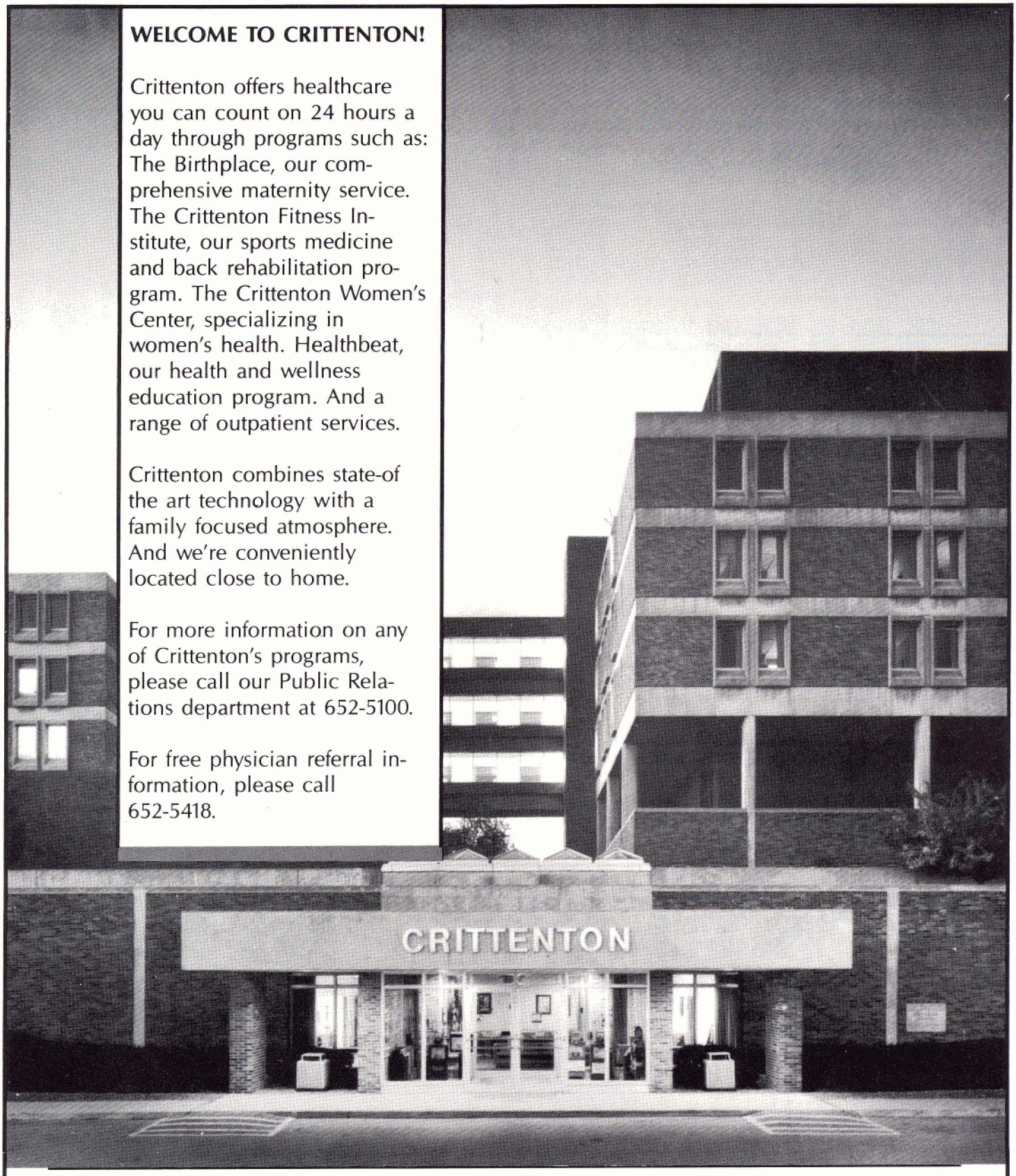
Mack plays on as a Baldwin Fellow

The list of accomplishments continues to grow for Tomoko Mack ('87).

Mack, who received a B.M. in piano performance at Oakland, recently earned a Baldwin Fellowship in a nationwide competition. The fellowship is designed to promote professional development for pianists who are outstanding college graduates in teaching and performance. Mack, one of five fellowship winners, scored high on her performance, teaching ability and philosophy of teaching fundamentals.

The two-year fellowship is sponsored by the Baldwin Piano Company and included a three-day trip to Cincinnati, Ohio, for intensive master classes in professional preparation. As part of the prize, Mack received a new Baldwin piano to establish a teaching studio in her Plymouth, Michigan, home.

Mack recently completed her master's degree in piano performance from the University of Michigan and continues to perform both locally and nationally. Locally, she will conduct a piano recital December 10 at the West Bloomfield Township Library, and perform Beethovan's Fantasie with the Livonia Symphony on February 18, 1990.



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MUSIC TO THEIR FEARS

by Mimi Mayer

Therapists Doug Bushong and Gary Cummis use music to treat patients at Jackson Prison and Detroit Psychiatric Institute.

HE WAS A MANIC depressive trapped in the manic swing of his illness. He was tearing up the cell blocks, endangering himself and maybe other prisoners. Authorities decided he belonged in Jackson Prison's psychiatric hospital.

That's when Doug Bushong led him to the conga drums. "Try playing," Bushong coaxed.

Before long, the convict was smiling and laughing. He quickly became relaxed and controlled.

"That's a good example of having a place to put your anger," Bushong continues. "Prisons are angry

places. There's little opportunity to express that anger.

"The conga drums are very good for people who are agitated and violent. They're too big to throw easily and are played with hands. Music therapy meets people needs."

Welcome to what occupational handbooks call "the expressive therapies." Here, psychotherapists like Doug Bushong ('80, B.S. in music with honors in musicology and music education) and Gary Cummis ('73, B.S. in music) use creative pastimes as tools to evaluate and treat mentally or emotionally disabled people.

Bushong admits the convict's quick trip from destructive fury to calm is exceptional. Nevertheless, he's convinced that music therapy provides a window on his patients' minds and an outlet for their emotions while still focusing their behavior. It can also catalyze change.

Bushong's job is more akin to crisis intervention group counseling than the long-term practice that characterizes mainstream music therapy. But this is due to *where* he works: the state prison in Jackson, Michigan.

His patients at Jackson are convicted felons serving sentences in the world's largest walled prison. They reach the psychiatric ward only if they've threatened other prisoners, destroyed property or become suicidal.

Bushong counsels such men until they are manageable enough to return to their cells. Treatment is short term and acute; he rarely sees the same group of men twice.

Yet his job caps more than a decade of effort. Even as an undergrad in Oakland's School of Music, Bushong racked up many psychology and sociology credits. His first bachelor's in hand, Bushong promptly enrolled in Michigan State University's undergrad music therapy program and became certified. Four years' practice in an Upper Peninsula public mental health clinic left him satisfied but unchallenged. He jumped when the job at Jackson Prison opened and began graduate work in music therapy at MSU.

Now his daily work at the prison provides him fodder for his graduate work in Lansing. The prison is a laboratory where he applies treatment techniques. These therapeutic "musical activites" are specifically applicable in prison counseling and provide, "a treatment medium that is objective, observable and measurable."

Bushong's catalog of techniques incorporates music that's far livelier than the elevator tunes with which Big Nurse stultified her patients in the movie, *One Flew Over the Cuckoo's Nest*. His album library ranges from bluesman Z.Z. Hill to rockers ZZ Top, with enough jazz, gospel, country and Top Forty to suit wide tastes. While they center Bushong's listening and discussion groups, the recordings themselves are incidental. What really matters is the relationship between a person and the music he wants to hear.

Say a man selects a song by Bob Marley and the Wailers. After the group hears a tune, Bushong will ask, "Where did you learn about reggae?" "Well, my wife and I used to listen to it. We're divorced." And so the therapy session begins.

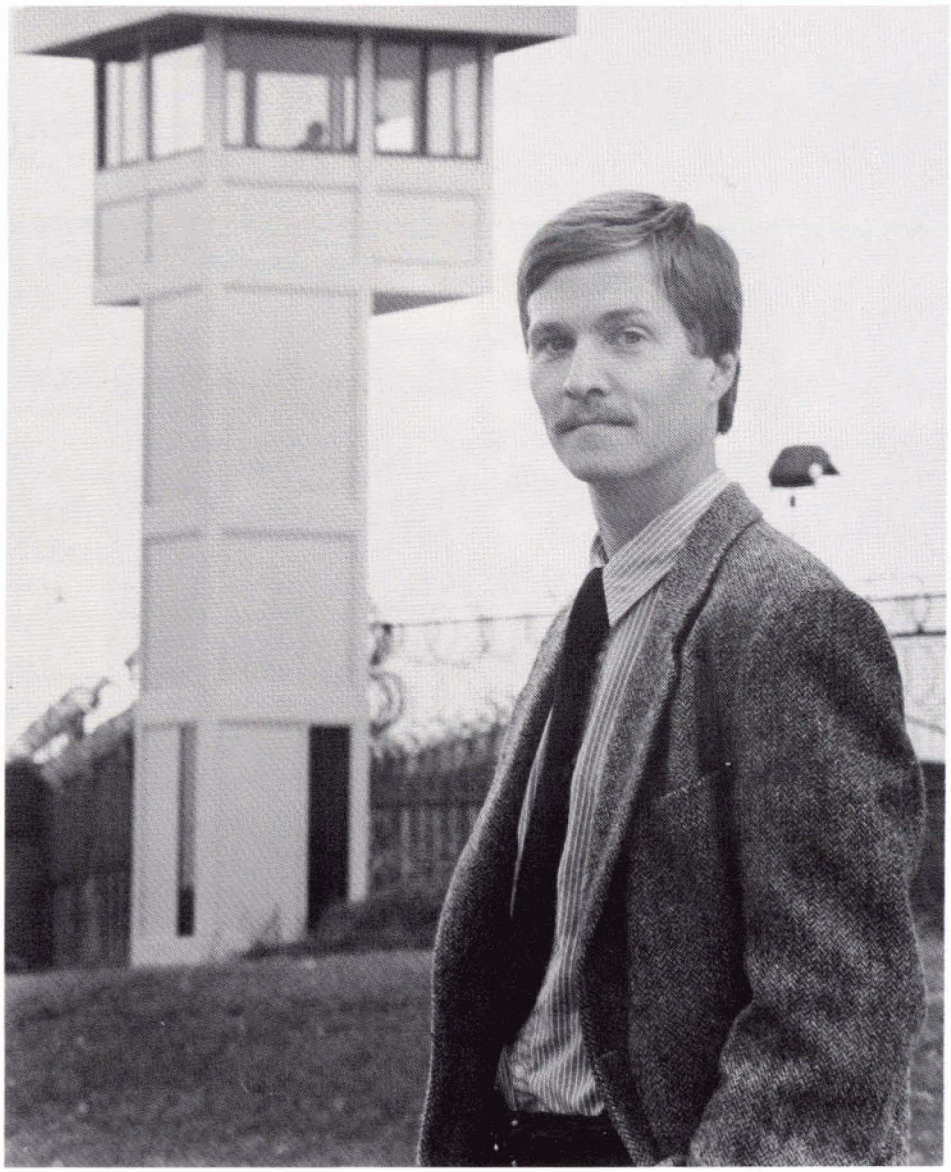
Other therapeutic approaches yield more subtle results. For instance, Bushong may ask a psychotic to choose a song, aware that the request is about as much 'real world' intrusion as the patient can handle. Yet that simple act of selection may nudge him toward functionality.

Bushong also keeps on hand guitars, an electric piano, a drum kit, congas and other rhythm instruments. During "instrumental interaction" sessions, he invites group members to improvise and nonverbally express their feelings. Playing music also serves another function, as Bushong's experience with one chronic schizophrenic shows.

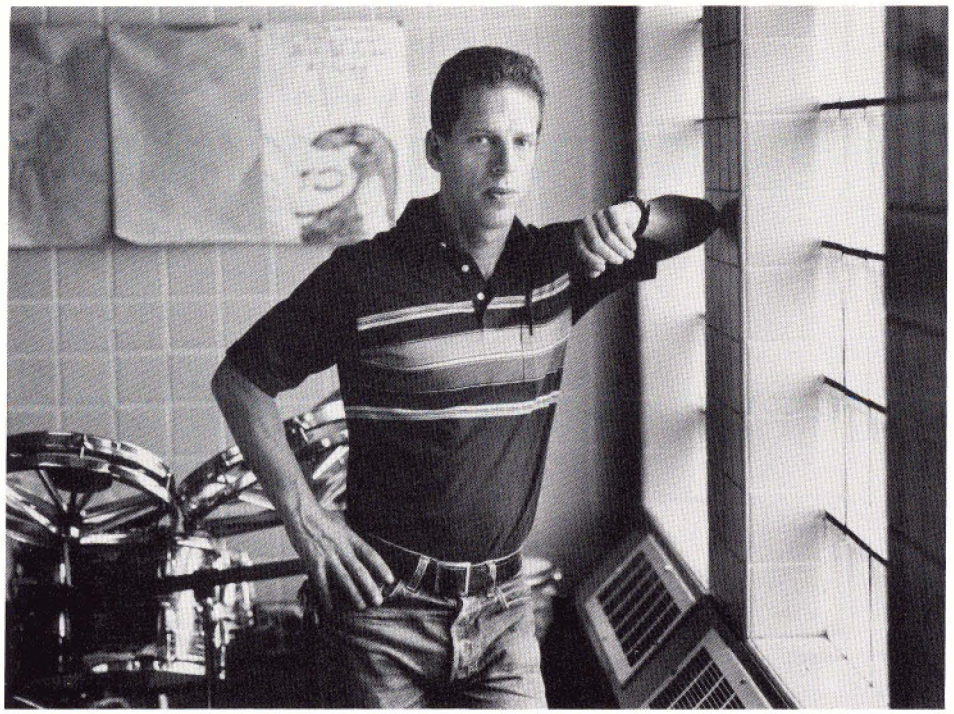
"He was ricocheting through the universe," Bushong says. "He wasn't psychotic. He wasn't dangerous. But he was very ill."

Bushong learned he'd played guitar and handed him an instrument.

"His music was tangential or fragmented. It would change rapidly from one thought to another," Bushong explains. "As he became better, it was reflected in his music—it became much more organized as he became more intact and more integrated. So now I had another means to evaluate his level of organization."



For Jackson Prison psychotherapist Doug Bushong ('80), musical activities provide "a treatment medium that is objective, observable and measurable."



Gary Cummis ('73), Detroit Psychiatric Institute therapist, puts his undergraduate degree in music to work: "I never attend concerts. I listen to talk radio. The music I do here is the music in my life."

Instrumental interaction also provides Bushong with another means of evaluation. Compared to central cell blocks, the two-year-old prison hospital is luxurious. Occasionally, a prisoner will feign mental illness to escape the blocks for a while.

"I think we manage to catch them," Bushong says. "It's hard for them to know how a psychotic person plays drums."

Since his patients are convicted felons, Bushong must constantly remain "custody minded." To protect himself, he plays it straight with his patients—yet adds a qualifier.

"I feel that naturally relating to the patients is what makes it safe. That's what makes me feel comfortable about the prisoners. They become people, and so do I," he says. "This is still a prison and there's some things you just don't do. You don't do a lot of self disclosure," he adds.

So every object in his office is fixed; there's nothing a patient could use to overpower Bushong. Nor are there any hints of his life beyond the prison walls. One won't see photos of his three children or his wife, Kathy, also a 1980 graduate of OU's music program.

Yet despite the pressures, Bushong delights in his work; so much so, that he speaks of earning a doctorate in clinical psychology.

"Once you adjust to the level of stress, it's exciting. I've sort of found myself here," Bushong says.

Gary Cummis listens to music only while working at the Detroit Psychiatric Institute (DPI), a city run mental hospital housed in Detroit's Herman Keifer health complex. He doesn't define himself as a "music therapist." Rather, he prefers the term "activities therapist" when describing his work in the 18-bed psychiatric ward.

In fact, music means little to Cummis.

"I never attend concerts. I listen to talk radio. The music I do here is the music in my life," he says.

It's a dramatic turnaround from his undergraduate work in music at Oakland, followed by a master's degree in music composition at Florida's University of Miami. Cummis cites pragmatic reasons for the shift, then adds: "I'm not really sure how I got where I am. Somehow, I wound up doing this—probably because I like people. It's probably a more natural thing to do."

For a decade, Cummis has reported to work at DPI. There, he's part of a team of psychiatric, social work and medical professionals who treat the patients filtering in and out of the hospital. Each day the team meets to bat around daily events on the ward and plan patient treatment programs. With this approach, it's sometimes difficult to assess who makes the most significant contribution to any one patient, Cummis explains. Sometimes the work is frustrating or aggravating. It all depends on who's in the ward.

DPI serves a population from Detroit's near east side. Most are referred by court order via the Detroit Receiving Hospital's crisis center. Often, they arrive because they're talking suicide or have threatened someone. Usually, a family member, neighbor or, in the case of street people, the police, send them to the clinic for evaluation. Then there are chronic patients. DPI has become their haven and their home.

"It's a rough world outside. It's real safe and warm inside the hospital," Cummis says. "Patients are crazy, but they aren't stupid. Eventually, some people give up and say it's a lot easier to be crazy and be taken care of."

Cummis handles such situations by accepting patients as they are. He speaks of a woman who hallucinated, often seeing animals. One time she envisioned a gorilla in her room.

"So you tell her she's safe. You can't say she didn't see the gorilla, because it really was *there* to her. You do the normal therapeutic things," he explains.

Cummis consoled the woman and promised to clear the gorilla from her room while she waited elsewhere. When she returned, it was gone.

Like Bushong, much of Cummis' therapy work is done in groups. He'll lead several people in a discussion of artwork to draw out their experiences.

One to one, he'll strive to act consistently with a person who's behavior is erratic. Here Cummis becomes a model to patients. "You expect me to be the way I said I'd be. I expect the same from you," he tells them.

Cummis says he's perfected such techniques not while pursuing his second bachelor's degree in music therapy at Wayne State University, but while working at DPI. He's become so familiar with the world of the mentally disabled at DPI he finds their actions to be predictable.

"Training really doesn't tell you what patients are and how patients think. That's a lot of textbook stuff. On the ward, there's another world, so basically I know what people are going to do. I can trust somebody within this framework. If they act up, you kind of know what they're going to do. You wind up being comfortable," he says.

But doesn't he sometimes worry about the patients? "Sure," Cummis responds. He is careful. And while he doesn't speak effusively about his job, his comments convey a quiet satisfaction.

"You have to make a commitment and give of yourself and let the patients use you for a period," he says. "They use you to gain strength for a certain difficult period of their lives." ■

Mimi Mayer ('77), former staff writer for OAKLAND UNIVERSITY MAGAZINE, *is currently completing her M.F.A. degree at the University of Michigan.*

Changing Skyline

by Jay Jackson and Karel Bond

By 1990, dozens of new businesses and nearly 20,000 employees will call Oakland University neighbor and the Oakland Technology Park home. And this is just the beginning.

LET'S PUT MAPS of two suburban Michigan cities, a major university and a few billion dollars in front of us.

Now, let's see what we can do . . .

. . . We'll build eight hotels and motels, maybe more, for times when Donald Trump drops by to compare real-estate deals.

. . . We'll throw in office buildings, some corner shopping centers, a major mall and new movie theatres to amuse ourselves.

. . . We'll bring some corporate headquarters to the area along with thousands of jobs.

Farfetched, can't happen?

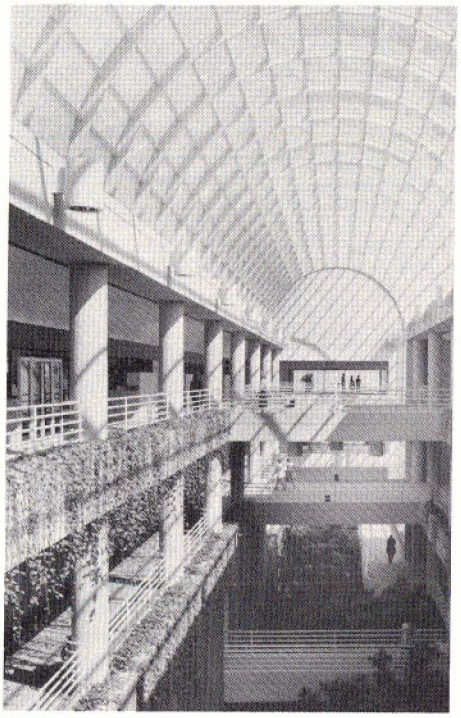
It already has. Take a look out your window driving north past Pontiac on Interstate 75. Even at 55 mph, you can't miss the signs of dramatic change.

In the past five years, enough construction to satisfy most small towns for a century has occurred in Rochester Hills and adjacent Auburn Hills, the two cities wrapped snugly around Oakland University's campus. Once complete, total value will be counted in billions of dollars, not millions.

Why Rochester Hills and Auburn Hills? Oakland Technology Park. And why the Oakland Technology Park? Oakland University.

Land developers have rushed to the area since the tech park broke ground in 1983. The 1,100-acre park at the northeast corner of the I-75 and M-59 arteries has pulled in the mammoth Chrysler Technology Center, Comerica Inc., GMF Robotics, EDS, World Computer, ITT Automotive, GKN Industries, Secure Data, Inc. and numerous others. The Chrysler project, with its imposing building rising above the trees, is the largest piece and visible for miles.

The tech park and surrounding businesses have brought thousands of new residents who have helped swell the population of Rochester Hills and Auburn Hills. The two suburban cities were, until the mid-1980s, Avon and Pontiac townships.



Just down the road: *(Above) The atrium at Comerica Incorporated. (Opposite) The Chrysler Technology Center rises above the trees in this early morning telephoto view from Oakland University's O'Dowd Hall. Adjacent to the southwest corner of university property, the tech center is about a mile and a half from the center of campus.*

This is largely private development, but economic helping hands are firmly attached to the arms of local, state and federal governments. Oakland University President Joseph E. Champagne is considered the mover who shook the state and developers into action. When Champagne first came to Oakland in 1981, he brought with him an interest in economic development through technological advancement. At a business luncheon that spring, he met with officials of the Michigan Department of Commerce. Their topic of conversation — high tech — led to a tour of the land surrounding Oakland University.

Soon after, then-Governor William Milliken created the Michigan High Technology Task Force. The task force had three objectives: locate a site for a major manufacturing/research center (which became Ann Arbor and University of Michigan); a site for a biotechnology research and development center (East Lansing and Michigan State University); and one or more sites for a concentration of high-tech development like that at Stanford University and similar parks (see related story).

In 1982, the task force unanimously endorsed the Oakland Technology Park as an ideal location in the state for a high-tech facility. It was the only site endorsed by the task force, which also stipulated that the impetus for its development should be through private resources working in concert with public units.

As planners, tech park developer Schostak Brothers & Co., Inc., and banking giant Comerica, Inc., pushed all the right buttons. Their venture, coming at the urging of Oakland's Champagne, targeted the decade past the turn of the century for park completion. It should be wrapped up by the mid-1990s instead.

Comerica's involvement started when it bought the original tech-park parcel. Now the corporation sells pieces to other businesses. Phase I, near I-75 and M-59, opened in 1985 with 503 acres set aside for Chrysler's facility, plus 210 acres for Comerica's operations center, GMF Robotics and other tenants. Phase II to the north, accessible from University Drive near I-75, consists of 52 lots spread over 375 acres. Thirty or so companies may buy one or more parcels. Estimates are that 45,000 to 50,000 jobs will be associated with the tech park and auxiliary enterprises which will be spawned in neighboring areas and along I-75.

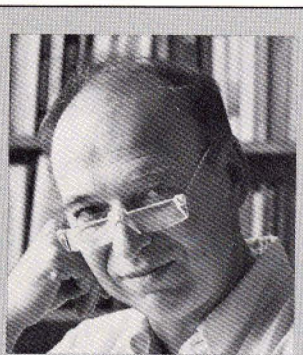
If for no other reason than its size — the building alone covers 138 acres — the Chrysler Technology Center is the flag admirers salute. With 2.9 million square-feet inside for up to 7,200 employees, the center will house design, engineering and manufacturing process staffs, plus classrooms for employee training. A test track on the premises and an advanced wind tunnel will allow product evaluations. A new exit is being cut into I-75 to accommodate the complex.

Yet, despite their impressive wealth, the tech park companies still need an important ingredient — one that is in abundance right next door, Oakland's Champagne notes.

"You have to remember that the product of our university is knowledge in the form of graduating students, knowledge in the

Champagne: *At the core of change.*

Miller: *Two-way street.*



Mascitelli: *A great deal of apprehension.*

Shepherd: *Cautious enthusiasm.*

form of research, knowledge in the form of application and service. The raw material the tech park uses is knowledge. This is not a manufacturing park. This is an idea-generating park," he says.

As the tech park matures, Champagne's personal role is lessening by design. In turn, the responsibility of Oakland's professional schools and the College of Arts and Sciences to seize the cooperative opportunities before them is increasing. Champagne is aware that while the surrounding community has boomed, Oakland has remained somewhat stable.

"There's a lag. Any social change has a lag," he explains. "I think many people thought the minute the tech park started building buildings, we would see enormous changes resulting.

"But things are beginning to happen and it's up to our faculty and administrators now. The door's open. We've got to pass through it," Champagne says.

"It's time for us to roll up our sleeves, get into the trenches and work with the tech park people," agrees Daniel Braunstein, professor of management and psychology in Oakland's School of Business Administration.

"I'm working on some planned activities with middle and upper management over there," Braunstein says. " I've just started to develop short courses in a variety of areas. With Oakland's Division of Continuing Education, the School of Business is organizing management development courses in such areas as international development, health care, human resources and the changing financial environment. These would be intensive courses, for groups of 20 or so and lasting two to three days, using both OU faculty and guest faculty."

Equally hopeful, but nonetheless realistic, Howard Witt, dean of Oakland's School of Engineering and Computer Science, explains candidly why corporate neighbors don't rush to the university with signed contracts in hand:

"This isn't the local branch of the National Science Foundation. You've got to be doing something that's beneficial to them, and it's got to be something that's appropriate work for our faculty to do."

Still, Witt agrees a concentrated effort must be made to forge links. And Chrysler is parked atop his wish list.

"I can name some things that I think are going to happen, and one is continuing education. Chrysler will have a lot of capacity for teaching at its tech center and they are very interested in what we have to offer."

Chrysler apparently agrees. Though Jack Gleason, program manager of the Chrysler Technology Center, doesn't consider the automaker's massive development as integral to the tech park proper, he does foresee an association with the adjacent Oakland University.

"Next week we have a meeting set for some 25 Chrysler executives and Oakland University deans to begin to develop a long-term relationship," he says.

The park's first tenant, Comerica, has a leg up on relations-building. "You're talking about my second-favorite subject," says Eugene Miller, Comerica CEO and

Parked by universities

The concept of the university-related research park isn't a new one.

At the end of 1988 there were 108 research parks (including non-university-related parks) in the country. The first spurt in such development came in 1983, when 12 opened. The most research-oriented universities, naturally, make for the best park environments. But there are only 500 such schools in the U.S., and only a small percentage of those are deemed top-notch. The parks now in operation are scattered across 43 states. They include big-name campuses — MIT, John Hopkins, Princeton, Penn State. But they're also linked to the likes of lesser-known Idaho State and University of New Orleans. According to Thomas Hines, of Carley Hines, Inc., Raleigh, North Carolina, developer of research parks, it's the weak links that can lead to overpopulation.

"A lot of universities attempt to get into the real-estate business without knowing what they're doing. I worry about smaller unversities without strong research reputations. It's intense competition for the private sector backing — which makes for a pretty big gamble."

In contrast to the gamblers, there are the seasoned success stories: Stanford Research Park and the Research Triangle Park in North Carolina.

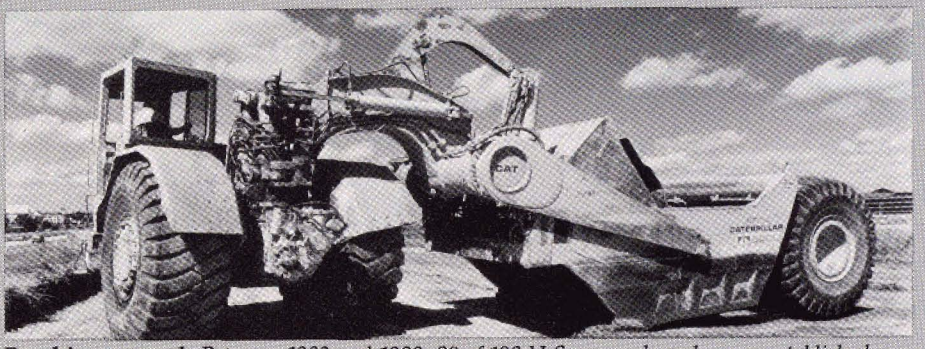
Stanford's Research Park in Menlo Park, California, was the first university research park, established in 1948. Today, more than 50 organizations employing 16,000 people occupy the park's 660 acres — and play a crucial role in what has come to be known as Silicon Valley.

"We know — because it's our job to know — that there are definite benefits between the university and the research park," says Kirt Puryn, lands manager in the Lands Management Department, Stanford University.

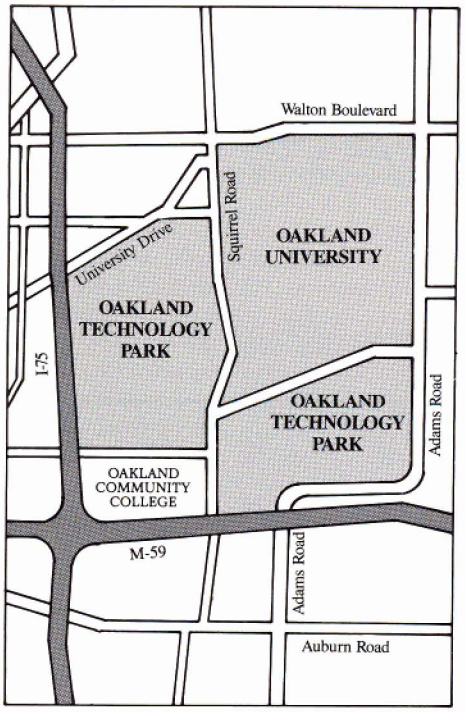
"In the sciences, it's an employment place for our graduates. The faculty and grad students are able to do joint projects with the private sector — that goes on. There's an industrial affiliates program where private companies pay a certain amount each year and are able to attend seminars with faculty and discuss goals — and sometimes influence research. Some of the faculty now have more creative outlet — and have a commercial outlet for their projects," he says.

Due east across the country is the other major research park success story: Research Triangle Park, positioned between Duke University, the University of North Carolina and North Carolina State. Established in 1959, 53 government, corporate and nonprofit research organizations are located in the park's 6,700 acres of rolling, pine-covered hills.

In 1985, the Association of University-Related Research Parks was created with its national headquarters in Tempe, Arizona. The association currently has more than 300 full and associate members from around the world. Oakland University President Joseph E. Champagne currently serves as vice president and president-elect of the association.



Breaking ground: *Between 1983 and 1988, 80 of 108 U.S. research parks were established.*



Educational access: *Tech park employees have easy access to Oakland University and Oakland Community College, partners in the park's development consortium.*

president, when asked about Oakland University.

"Our involvement is a two-way street. You help us attract good people. And having a tech park nearby must help attract good faculty to Oakland, as well," adds Miller, chair of the Oakland University Foundation and member of the School of Business Administration Board of Visitors.

"I don't see our association restricted to the schools of business and engineering either. Your Enigma of Genius program (a continuing education program in the humanities) for instance, is just as appealing to me as hearing about corporate development. But to get people involved, you really have to ask. And I've found that the university isn't afraid to ask."

Despite the optimism from many quarters, skeptics remain. Among some of the university's faculty in particular, the park is seen as a potential threat to Oakland's traditional emphasis on a liberal arts education.

"Among the people that I hang out with — people in the humanities faculty — there's a great deal of apprehension about what all of this is going to mean," says Oakland University Associate Professor of English David Mascitelli.

But thinking skills, Champagne emphasizes, are not displaced by a modern world requiring technology.

"I see the two concepts as complementary. We are human beings in need of humanities living in a very technically and technologically oriented world. Therefore, we need to be able to cope with the demands of that world as well.

"The tech park puts us right at the core of change, which is where an educational institution ought to be," Champagne says. "That's the benefit to the university in being located in a dynamic growth area."

Yet growth can be a double-edged sword. In his job as operations manager for the city of Rochester Hills, Oakland alumnus Jeff Cohee (public administration, B.A., '83, M.A., '88) sees demand for roads, water lines and other services far exceeding the supply of money he has to pay for them.

Says Cohee, "The tech park developed much faster than any of us thought it would. It's been extremely successful, and you can't take away from the fact that it's helping to diversify the economy in the area and provide jobs. The problem is that the revenue flow from the development — the tax dollars — won't come until after the facilities are pretty much completed and occupied. By that time, part of the problem is already there, so your demand is way ahead of the ability to provide the service."

Property taxes from the tech park will benefit Auburn Hills, where most of the land is situated, plus the county, Pontiac schools and Oakland Community College. Rochester Hills bears a large indirect cost without direct benefit from specific tech park tax revenue.

Rochester Hills has shouldered the load in its residential neighborhoods. Cohee estimates another 4,000 to 5,000 homes, apartments and condominiums may be built in the next 10 to 20 years.

Yet there is cautious enthusiasm for the tech park among area homeowners, according to Oakland alumna Lauren Shepherd (B.S. in physical therapy, '85), president of Rochester Hills Inter-Association Council, a coalition of organized subdivisions.

RHIAC's main park-related concern is the strain on local roads. Congestion is already evident. But, with support from Oakland's President Champagne, Shepherd says, her group convinced officials to preserve natural areas when mapping out traffic patterns in Rochester Hills.

Regardless of the growing pains, university officials say, the tech park has opened doors for the university to make significant and long-lasting community contributions. Their message: Be patient.

"I don't see us growing an awful lot in size, but I see our curriculum growing in enormous depth and quality, in selected areas of excellence, and becoming more graduate intensive," says Champagne. "It will be because we seized the rich educational opportunities of the developing area we're in and grew in terms of our intellectual stimulation. It will take time for this to happen; it's not going to happen by 1995 or 2000, but as we look back many years from now, we will see this kind of development." ■

Jay Jackson is a staff writer in Oakland University's News Service.

Foreign flair: *The Oakland Technology Park's British resident, GKN.*

Tech Park goes international

The Oakland Technology Park already includes four internationally based companies — one each from Great Britain, Germany, Japan and Italy. And, as OAKLAND UNIVERSITY MAGAZINE was going to press in October, the university was poised to send a representative to Kyoto, Japan, to help develop an international consortium of technology parks to facilitate scientific and technological exchange.

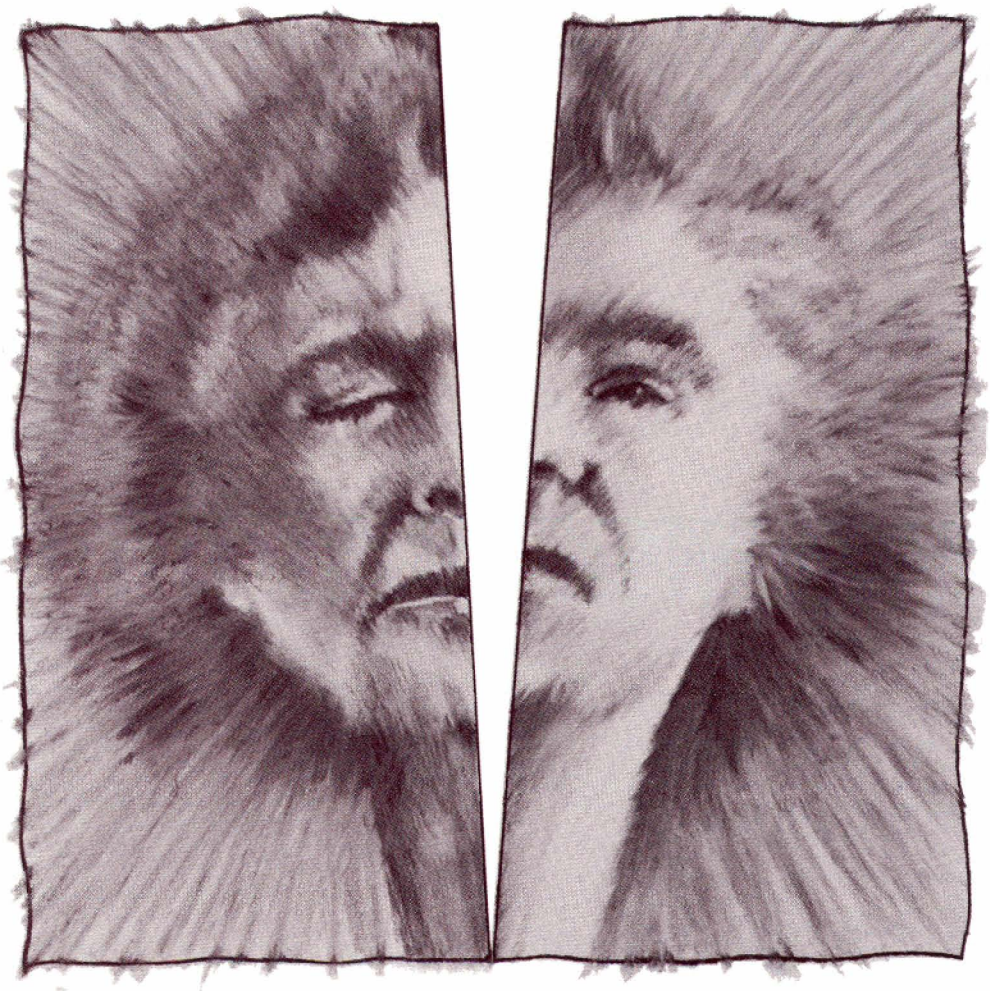
"We were one of only eight from the U.S. to participate," said Frank P. Cardimen, Jr., OU vice president for university extension and public service. "One of the reasons had to be that the Oakland Technology Park is the fastest growing park on the North American continent and is now the seventh largest."

Sponsors of the week-long event, titled the "Next Generation of Research Parks in the Great Triad Market," were the Kyoto Research Park Corporation and Science Center International. Twenty parks from America, Europe and Asia made presentations.

Conference attendees included about 100 Japanese companies that may be interested in locating businesses throughout the world.

HOPE AHEAD

by Nancy E. Ryan



Kurt Krebs

HER KNEES BUCKLE and she drops to the floor. She can't move. Hours later, the diagnosis: stroke. Lying in intensive care, her eyes dart uncontrollably and the left side of her body is numb. But she can think, she can

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

speak—and is considered lucky.

When a stroke occurs, the blood supply to a part of the brain is cut off. Its after-effects can be devastating—or deadly. Yet there is new hope for stroke victims; hope that comes through scientific research within the walls of Henry Ford Hospital's stroke center.

The Detroit-based center, funded by a $9 million grant from the National Institutes of Health (NIH) in Bethesda, Maryland, is one of just 11 nationally. It is also one of two major joint research efforts for Oakland University and Henry Ford involving the human brain, one of the most difficult organs to study.

Window to the Brain

Most stroke patients undergo a battery of exams, including a clinical exam by a staff neurologist, a computerized axial tomography (CAT) scan and a blood flow measurement test. Using these combined methods, doctors try to assess the severity of a stroke and the portion of the brain affected.

Yet often, these tests are not enough.

By using a *noninvasive* technique called Nuclear Magnetic Resonance (NMR) researchers at the stroke center hope to develop methods to measure blood flow and chemical reactions in the brain to help fill in the missing gaps—and possibly offer alternative therapies. As of last January, about 125 stroke victims had participated in the development of the NMR technique.

"We offer patients who have had large, fairly recent strokes the opportunity to participate in the research," says Steven R. Levine, M.D., director of Henry Ford's clinical stroke unit.

"It's totally noninvasive; it doesn't hurt at all. Subjects just have to lie still; it's like having a picture taken. The only reason we may have to stop a study is if the patient is too restless or agitated because of the stroke, or becomes claustrophobic.

"We're beginning to get some preliminary data on prognosis; we're beginning to understand more about the neurochemistry that goes on in the brain pertaining to human stroke—it gives us a sort of window to the brain," says Levine.

NMR is termed *noninvasive* because it doesn't require chemical additives, needles or ionizing radiation. Rather, the NMR technique uses radio-frequency signals—the same signals used in a standard FM radio—to examine the molecules within the brain. Researchers use these radio frequency signals for NMR imaging and spectroscopy—the images produce pictures of the brain; the spectroscopy measures the brain's chemistry.

An NMR study begins with a patient lying on a stretcher. The stretcher is inserted into a cylinder-shaped magnet large enough to hold an adult. Once inside the magnet, radio-frequency coils (antenna) transmit and receive radio-frequency signals to and from the molecules in the patient's brain. By analyzing these radio-frequency signals, researchers can better study the patient's metabolism.

One promising area of NMR research involves the relationship between stroke severity and blood glucose levels, body temperature and pH regulation. NMR studies performed at the stroke center suggest that high glucose levels and high body temperature may hinder the recovery of stroke patients, making the control of diabetes and fever extremely important. And, those predisposed toward strokes have a chance to change their behavior—possibly even lengthen their lives—in light of the research findings.

Additionally, NMR research on "pH

OAKLAND'S SCIENTIFIC OUTREACH

OU professors, alumni and grad students are working alongside M.D.s in a number of area hospitals.

In addition to the joint research at Henry Ford Hospital, Oakland is collaborating with doctors at William Beaumont Hospital in Royal Oak and Sinai Hospital in Detroit. Current projects under way focus on cancer, cardiovascular and opthalmological problems.

A recent addition to Oakland's Henry Ford collaborative research team is Roger Ordidge, Ph.D., a world authority on high-speed NMR imaging technology. Ordidge, who comes to OU from the Department of Physics at the University of Nottingham in Nottingham, England, is renowned as both an educator and researcher. Appointed professor of physics, he'll work in the medical physics program at Oakland.

Other Oakland University/Henry Ford Hospital faculty/alumni connections include:

Scientist	Oakland Connection	At Henry Ford
Craig A. Branch, Ph.D.	Alumnus ('79, '82 and '88), received B.S., M.S. and Ph.D. at Oakland in mathematics, applied mathematics and medical physics.	Associate Staff Investigator, Department of Neurology.
Michael Chopp, Ph.D.	Associate Director, medical physics program; Professor of physics.	Co-Principal Investigator, NIH Center for Stroke Research.
Fred W. Hetzel, Ph.D.	Professor of physics	Principal Investigator, NIH program involving photodynamic therapy.
Joseph Helpern, Ph.D.	Alumnus ('88), received Ph.D. at Oakland; Adjunct Assistant Professor of medical physics.	Director of NMR, Department of Neurology; Principal Investigator, NIH Center for Stroke Research.
Norman Tepley, Ph.D.	Chairperson, Department of Physics; Director, medical physics program; Professor of physics	Scientific Director, Neuromagnetism Lab

flip-flop"—the change of the brain pH from acidosis to alkolosis in stroke patients — may provide new perceptions about their chances for recovery.

"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 is noninvasive, it can be safely applied to the study of various human disorders, such as stroke."

And If You Have Headaches . . .

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 machine called a Neuromagnetometer.™ With this machine—one of only 16 in the world—Tepley can track the brain's innermost electrical currents with a measurement technique called magnetoencephalography (MEG).

Like NMR, MEG provides a noninvasive way to study brain activity. Magnetic fields arise from electrical currents, whether those currents travel through telegraph wires or neurons in the brain. Two different levels of electrical currents—intracellular and extracellular—move inside the brain. An intracellular current can arise spontaneously or as the result of an external stimulus, like a flash of light, a sound or a brain abnormality. This intracellular current sparks extracellular activity. Extracellular currents can then be measured by neurologists using electroencephalograms, or EEGs.

But variations in scalp, skull and brain tissue can distort the EEG transmission. This is where Tepley's research on the Neuromagnetometer comes in. Tepley's research group is interested in tracking the magnetic fields generated by *intracellular* currents. And intracellular currents are linked to what may be the root of migraines: a phenomenon called spreading cortical depression (SCD), undetectable by an EEG.

Researchers at Henry Ford believe that SCD starts in one part of the brain and slowly spreads over its surface. The phenomenon can be likened to the movement of a ripple after a pebble is thrown into a pond: A sudden burst of energy in the brain is followed by a period of silence, slowly expanding at a rate of two to three millimeters per minute.

"This project began four or five years ago, and it began like most scientific projects should begin—with an idea," explains K.M.A. Welch, M.D., chairperson of Henry Ford's Department of Neurology and program director of the stroke center. "While pursuing it, some of us at Henry Ford began talking with our physicist colleagues at Oakland University about how we could investigate SCD in migraine."

In 1958, neuroscientist P.M. Milner first hypothesized a link between SCD and migraine. The OU-Henry Ford group used Milner's original idea as a starting point and in August 1988, when the first Neuromagnetometer study was performed on a migraine patient at Henry Ford, evidence of SCD was indeed observed in a human being.

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

Though MEG doesn't offer a cure for migraine sufferers, it holds clinical promise for the disorder, as well for epilepsy, head injury and stroke. And while current research is aimed at understanding the fundamentals of SCD, future efforts will be channeled toward exploring innovative therapies.

"This is a very interdisciplinary field," says Tepley, scientific director of the Neuromagnetism Lab. "First we need to understand the various relaltionships between anatomy, biology, chemistry, physiology and so forth. We're not practicing simple, old-fashioned medicine anymore. And we're not practicing simple, old-fashioned physics, either." ■

Nancy E. Ryan ('82, '89) is a freelance writer based in Lake Orion, Michigan. She is a former assistant editor of the OAKLAND UNIVERSITY MAGAZINE.

HISTORY-MAKING MIGRAINE

For Lori Schneider, M.D., there's glory in playing guinea pig. Schneider will go down in history as the first human being whose mounting migraine headache was recorded by a machine. More specifically, her spreading cortical depression (SCD) was captured for posterity by Henry Ford Hospital's Neuromagnetometer. And the Neuromagnetometer captured it through magnetoencephalography (MEG)—a process that records brain activity. Before Schneider, there were only animal impressions recorded via MEG.

Schneider, 29, is not your typical migraine patient. She's a neurologist at Henry Ford, so it only follows that she'd have a unique perspective on those blinding, grinding headaches she's battled since high school. Like clockwork, Schneider can tell when a migraine is about to hit: she loses her left visual field.

On the day of her MEG, a little self-diagnosis—loss of vision in her left field—prompted the doctor to get on the phone to Norman Tepley, Ph.D., chairperson of Oakland's Department of Physics and head of MEG research at Henry Ford. She relayed her dilemma to him and offered to be hooked up to the Neuromagnetometer. As it goes, her migraine broke ground.

"There is nothing to it—a MEG doesn't hurt at all. You lie on a table and don't move. You can't fall asleep, which is sort of tough. Someone watches you like a hawk, because any movement that you make alters what's being recorded and must be documented as such," says Schneider.

Though Schneider isn't involved in Tepley's migraine research, she knew the MEG would be painless and last no more than an hour. She knew that a sensor filled with liquid helium, which cools the machine's superconducting detector, would be placed over her head. And she knew that amplifiers attached to the sensor would feed the electrical signals to a computer, producing a readout. What she didn't know: making history isn't necessarily comfortable.

"I was feeling pretty awful the whole time I was on the table. I had to vomit. The MEG was easy; the migraine was not. As typically happens when I have a migraine, I was out of commission the rest of the day. It's impossible to understand unless you have had a migraine. When you have your garden variety of tension headaches, you can walk around and talk about it. When you have a severe migraine, you can be out for days."

Scores tallied for the annual alumni golf outing

The 14th Annual OU Alumni Association Golf Outing was held in late July at Oakland's championship Katke-Cousins Golf Course. Avis Ford was the co-sponsor of the event for the third consecutive year. The Southfield, Michigan, based company was also the sponsor for the as yet unattainable Hole-in-One contest.

Teams consisted of 58 alumni and their guests, and more than $1,000 in cash prizes were awarded to the winners.

First place ($450) went to Gary Quitiquit ('71, '72) of Ann Arbor, Michigan; Girard Tarr of Lake Orion, Michigan, and Dave Dewulf of Pontiac, Michigan. Second place ($300) went to John Hillman ('73) of Wixom, Michigan; Jack Nelson of Dearborn Heights, Michigan; and Jim Hillman of Grosse Ile, Michigan. Third place ($225) went to Greg Demanski ('63) of Sterling Heights, Michigan; Bill Ervasti of Grosse Ile, Michigan; and Dave Rayford of Detroit, Michigan.

The Closest-to-the-Pin contest, sponsored by Michigan Tile & Supply, Ltd., went to Cindy Campbell of Auburn Hills, Michigan. The Longest Drive contest went to Dave Dewulf ('72); and Chris Sandlin of Birmingham, Michigan. The Straightest Drive contest went to Dave Rayford and Joyce Esterberg of OU's Placement and Career Services Office. The Booby Prize, a half-hour group lesson with James O'Bear, assistant pro golfer at Oakland's Katke-Cousins Golf Course, went to Mark Kochis ('81) of Warren, Michigan, Joe Ridella of Madison Heights, Michigan, and Bob Thomas, director of OU's Placement and Career Services Office.

This year's committee was co-chaired by Tim Broderick ('82) and Harrison Miller, Jr. ('73). Their committee included Gerry Alt ('76); Fran Amos ('80); Jeff Boss ('82, 85); Floyd Bunt; Marion Bunt ('82); Greg Demanski ('63); Tim Glinke ('82); Beth Konrad ('81); Jay Mihalak ('74, '79); Cheryl Miller ('77); Sharon Miller ('86); Marge Neubacher ('80); Marty Sabo ('78); and Andy Vanchick ('85).

Better luck next year: Outing committee members (L-R), Floyd Bunt; Marion Bunt ('82); Marge Neubacher, ('80); Harrison Miller ('73); Fran Amos ('80); Andy Vanchick ('85); and Tim Broderick ('82), admire Avis Ford's Hole-In-One prize.

The OUAA wishes to thank the following hole sponsors for making this year's outing possible.

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Thanks also to the Home Bakery of Rochester, Michigan, which provided donuts to get the golfers and volunteers off to a good start, and to the many area businesses who contributed more than 40 door prizes. Money raised from the outing will go toward OUAA-sponsored scholarships and research programs at the university. A big thank you to all the businesses, golfers and players who helped make this year's outing one of the best ever!

ALUMNI

1963

Gregory Demanski was promoted to vice president and senior properties officer at Manufacturers Bank, Detroit, Michigan.

1964

Roger Manning has joined Grant Thornton, a national accounting and management consulting firm, as a manager and director of finance and business planning group at the Southfield, Michigan, office. He holds an M.B.A. from Wayne State University.

1965

Thomas B. Hill, Jr. recently earned a master of arts degree in management from the Claremont Graduate School, Claremont University Center, Claremont, California.

Jerry Johns, professor of curriculum and instruction at Northern Illinois University, received the Illinois Reading Council's 1989 Hall of Fame Award. Johns earned his master's and doctoral degrees from Michigan State University.

1966

Louisa Aragona, an associate for Mutual Trust Life Insurance, Traverse City, Michigan, was recently honored for outstanding sales at a national Mutual Life sales conference in St. Thomas, Virgin Islands.

Jonathan Bensky has been promoted to the rank of counselor. He remains senior commercial officer in charge of the commercial section of the American Embassy in Kuala Lumpur, Malaysia.

1967

Jim Wyatt joined Baxter Dade Division of Baxter Healthcare Corporation as director of reagent development in Miami, Florida.

1969

J. Dan McCarthy is comptroller for the Pacific Fleet Naval Surface Force and was recently promoted to the rank of captain.

1970

Constance Rae Calabrese was appointed by Gov. James J. Blanchard to the Michigan Public School Employees' Retirement Board, representing teachers. She received her M.A.T. from Oakland University in 1972.

Thomas H. Williams joined the firm of Jaffe, Snider, Raitt & Heuer in Southfield, Michigan. He is a 1977 graduate of the Detroit College of Law and holds graduate degrees from Michigan State University and Wayne State University.

1971

Catharine Calder is academic administrator of the Meadow Montessori School in Monroe, Michigan.

Janet Jopke has been named superintendent of the Lakeview School System in St. Clair Shores, Michigan. She earned a doctorate in educational administration and a specialist's degree from Wayne State University.

Anna Kretz has been appointed director of business planning and program assurance for Saturn Corporation, Troy, Michigan. She joined Saturn in 1986 as chief engineer for the electrical systems team.

Hannah Moss and husband, Richard, and daughter, Avital, are moving back to the U.S. after 18 years in Israel. She has been working as community social worker on a kibbutz.

1973

Stanley A. Babiuk has been elected vice president, pipeline project development, for ANR Pipeline Co.

1974

William J. Donnelly, Jr. has been promoted to vice president at the Madison National Bank, Madison Heights, Michigan.

1975

Rebecca Failor recently received a Ph.D. in nuclear engineering from the University of California-Berkeley.

Staci Fromwiller was named branch manager of R. L. Polk & Co. Marketing Services Division in Washington, D.C. She previously was assistant research director for Polk at the division's Taylor, Michigan, headquarters.

Gayle Ann Genereux was appointed to human resources officer, corporate human resources, Comerica, Inc.

1976

John M. Grove was appointed associate and deputy director of human resources by Camp Dresser & McKee, Inc., an environmental consulting firm.

1977

Jared Baker is supervisor of the River District Counseling centers in Marine City and Algonac, Michigan.

Val Lea and wife, **Marie** (Sciuto '73), opened their own business, The Training Effect, in Rochester Hills, Michigan. They have two sons.

Tim Schram and wife, Vicki, announce the birth of their second daughter in January. He was promoted to section supervisor, powertrain electronics development department at Ford Motor Company. She is an employee benefits financial staff specialist in the human resources area at Chrysler Motors Corporation.

Laurene Sparbeck has been appointed administrative director in laboratory services at Oakwood Hospital. She also earned her master's degree at Oakland University.

1978

Moureen Coulter is assistant professor of history at Northeast Missouri State University. She earned a doctorate at Indiana University in 1986.

Kim Rossman is sergeant in command at the Orion sub-station of the Oakland County Sheriff's Department. He recently received a master's degree in criminal justice from the University of Detroit.

James Skylis, a real estate broker, has been appointed to the Orion Township Board.

1979

Thomas Boyd is enrolled in the Ph.D. program in marketing at the University of North Carolina at Chapel Hill.

William Hoste is personnel officer with First Federal of Michigan and represented Michigan at the 1989 Conference of the Institute of Financial Education Speech Contest in San Antonio, Texas.

Judy Kenney was promoted to general sales manager from national sales manager of WXMI-TV 17 in Grand Rapids, Michigan.

Diane L. Otto has been elected legal counsel and compliance officer of Trustcorp Bank, Ann Arbor, Michigan. She received her juris doctorate from the University of Detroit Law School.

Barbara Welbaum was awarded a Master of Divinity degree from Duke University.

Arthur Kohn was awarded a Ph.D. in psychology from Duke University.

1980

Lisa Bartlett and husband, **Dave** ('81), announce the birth of their daughter Allison Anne, born in April.

Susan McHenry-Bendel and husband, Dennis, announce the birth of their son Michael, born in September 1988.

Ray Thibodeau is an assistant vice president specializing in institutional fixed income sales for Merrill Lynch Capital Markets in San Francisco, California. He and his wife, Paula, have two children and live in Walnut Creek, California.

1981

Rick Wlodyga is the Ford account manager for Hitachi Semiconductor.

Carrie Bryson and husband, Scott, announce the birth of their son Daniel Scott, born in March.

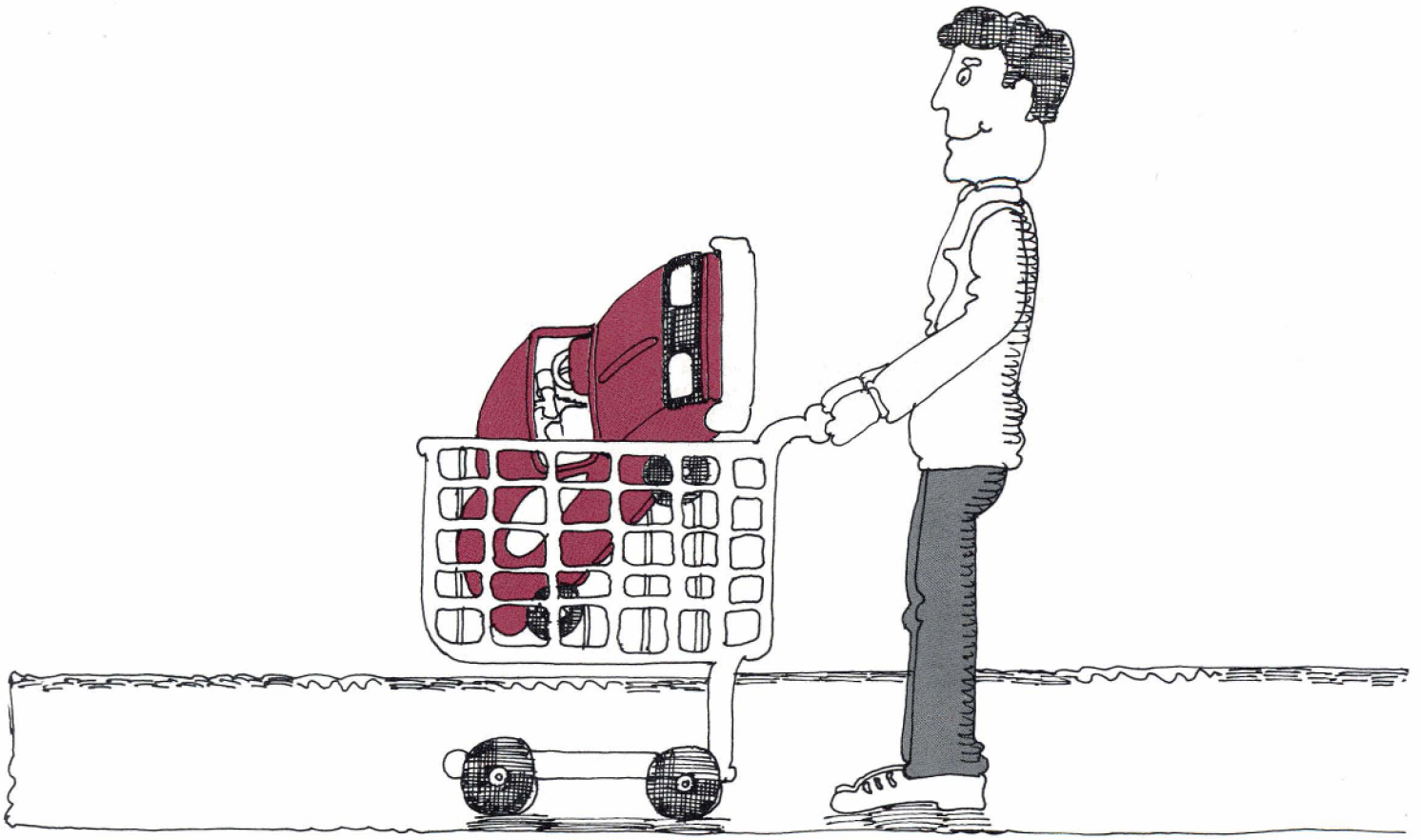
Michael Barker received the Master of Science degree in economic aspects of chemistry from the University of Detroit. He is employed by General Motors Research Laboratories in Warren, Michigan, as a project scientist in the structural adhesives group.

1982

Kurt Kosbar received a Ph.D. in electrical engineering from the University of Southern California. He is professor of electrical engineering at the University of Missouri-Rolla.

Kellie Kossek was promoted to franchise marketing supervisor for the Central-North-Western territory of Little Caesar Enterprises, Inc.

Kathleen Walton joined Les C. Braverman in the practice of law in Lincoln Park, Michigan. A trial attorney, specializes in personal injury litigation, employment discrimination and criminal defense.



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1983

James Edward Britt was recently ordained elder and received as a full member of the Detroit Annual Conference of the United Methodist Church. He received a Master of Divinity degree from Asbury Theological Seminary in Wilmore, Kentucky, and has been reassigned to Central United Methodist Church in Owosso, Michigan.

Mark Frankel graduated from Wayne State Law School in 1988 and was admitted to the Michigan Bar Association. He married Nanci Grant in February 1989.

1983

Randy Pilkenton received an M.B.A. from the University of North Carolina at Chapel Hill. He and his wife, *Kathy* (Cook '86), live in Raleight, North Carolina. He works for the Information Consulting Group and she works for Central Carolina Bank.

1984

Vincent Alessi was appointed to funds management officer, funds management by Comerica, Inc. He lives in Waterford, Michigan.

Mirian Boyd has completed her medical studies at Wayne State University and will intern at St. John Hospital, Detroit, Michigan, specializing in obstetrics and gynecology.

Lisa (Olsen) Campbell married Thomas Campbell in February 1989 in a traditional Scottish ceremony. She earned her M.A. degree in 1986 from Oakland University and is studying at Stanford University for her Ph.D. in mass communications.

Dorothy Macha has been appointed account supervisor at J. Walter Thompson advertising agency, Detroit, Michigan.

Sylvia Nassar has been named a coordinator in career planning and placement services at Western Michigan University. She earned a master's degree in guidance and counseling from Eastern Michigan University.

John M. Ulrich recently graduated from the University of Osteopathic Medicine and Health Sciences.

Robert T. Waters is an account executive on the account services staff of Denham & Company in Troy, Michigan.

Donna M. Wolak has established a promotional writing service, THE WRITE APPROACH, out of her New Hudson, Michigan home. Wolak specializes in resumes and sales and marketing literature for small service businesses.

1985

Leon Davis completed his medical studies at Wayne State University and will intern at St. Lukes Hospital in Chicago, Illinois, specializing in dermatology.

Linda Fernelius completed her master's degree at Oakland University in 1988. She is a fourth-grade teacher with Duval County Public Schools in Jacksonville, Florida.

Joseph J. Mannino and wife, Brenda, announce the birth of their first child, Kristen Dawn, born in April. He is a senior product engineer for Sheller-Globe, Detroit, Michigan. He received his master's in administration from Central Michigan University.

Cindy Mooty received first prize in spot news reporting at the *Macomb Daily* newspaper. She is working on her master's degree in journalism at Michigan State University.

1986

Richard Briggs and **Jacky Nelson** ('86), married in June 1988 and are expecting a child in November 1989. He is attending Walsh College C.P.A. program. She is working in the Harper Hospital Surgical ICU unit.

Billie Faust has been appointed commander of 110th Services Flight, located at the Battle Creek, Michigan, Air National Guard Base.

Pier Angelia Gilmore has joined Oakland County as a veterans' counselor with the Veterans' Services Division. She is also pursuing a master of science in administration degree at Central Michigan University.

Richard N. Henry was commissioned an officer in the United States Navy after completing Officer Candidate School at the Navy Education Training Center in Newport, Rhode Island.

Steve Kueffner joined St. Mary's Medical Center of Saginaw, Michigan, as an assistant to the president. He received a master's in health services administration from Ohio University in the spring of 1988.

Karen Pavlesak is a contract administrator with the U.S. Department of Defense, Defense Logistics Agency, and will begin master's studies this fall.

Bethany Scheppelmann is director of community relations at Havenwyck Hospital, Auburn Hills, Michigan.

Margaret Tennant and her husband, Tom, announce the birth of their son, Timothy, in July 1988. She is a marketing assistant for Gale Research, Inc. in Detroit, Michigan.

Sally Ustes, is a project director of robotics and automation literacy training programs with ACTT.

1987

Kristen L. Aston has been promoted to traffic/production assistant at Baker, Abbs, Cunningham & Klepinger, Inc., Birmingham, Michigan.

Frederick Frontiera is an electrical engineer at Pratt & Whitney Aircraft in West Palm Beach, Florida. He and his wife, Michele, announce the birth of their son Joshua Matthew.

John David Irvine is a graduate student/assistant, Department of Telecommunications, Michigan State University Audio & Video Productions.

Allen J. Lenart married **Penni Masi** ('86), in June 1988. He is working as research assistant and toward his M.B.A. at Wayne State University.

Brian A. White has been appointed assistant vice president, small business banking, metropolitan corporate banking, by Comerica Bank-Detroit, Michigan.

1988

Marianne Lapierre has been named communications coordinator of Contract Interiors, a Southfield, Michigan, office environment consulting firm.

Renee Pokoj has joined Ray D. Eisbrenner & Co., a Troy, Michigan, public relations firm, as account coordinator.

George B. Riley was commissioned Navy Ensign upon completion of Aviation Officer Candidate School and was awarded the Distinguished Naval Graduate Award.

Shaun Sullivan joined the physical medicine department at Bay Medical Center in Bay City, Michigan.

In Memoriam:

1971

Marilyn Cowan, November 12, 1988

1976

Lynda Elaine Killian, May 14, 1989

1983

Judith A. Flury, May 23, 1989

1985

Paul D. Siewert, May 17, 1989

FACULTY/STAFF

Judith Brown, professor of anthropology, was the keynote speaker at the management seminar of the Conference of Women '89. It was sponsored by the Coastline Community College of Newport Beach, California, and by *Moxie,* a new magazine for women over 40.

Carlo Coppola, professor of modern languages and literature, published an essay introducing a set of English translations of the Urdu poetry of Faiz Ahmed Faiz in the spring issue of *Poetry East.*

Frances Jackson, assistant professor of nursing, presented *Issues in Black Health* at the University of Notre Dame.

Vincent B. Khapoya, associate professor of political science, has signed a contract with Prentice-Hall for a book on Africa entitled, *The African Experience: An Interdisciplinary Introduction to African Studies.*

Charles Lindemann, associate professor of biological sciences, was invited to act as discussion leader for *Activation and Regulation of Flagellar Motility* at the Gordon Research Conference on *Fertilization and Activation of Development* in Plymouth, New Hampshire.

PRESIDENT'S CLUB

Members who have joined the President's Club of the Oakland University Foundation since the last printing of OAKLAND UNIVERSITY MAGAZINE:

Mr. and Mrs. John D. Bamberger
Bloomfield Hills

Mr. and Mrs. Thomas C. Beckman
Rochester Hills

Mr. and Mrs. E. Blackman III
Rochester Hills

Mr. and Mrs. Danny F. Buchman
Rochester Hills

Mr. and Mrs. Jack D. Burket
Birmingham

Mr. and Mrs. Kenneth Burry
Bloomfield Hills

Mr. James G. Carr
Bloomfield Hills

Mr. Ted J. Collins
Bloomfield Hills

Mr. and Mrs. Alfred Deacon
Mount Clemens

Mr. and Mrs. Myron E. Fisher
Birmingham

Carolyn Reed Fryar
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Ms. Diane L. Grieves
West Bloomfield

Mr. and Mrs. James J. Griffin
Bloomfield Hills

Mr. and Mrs. Charles F. Hatter
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Mr. and Mrs. Theodore N. Loukes
Bloomfield Hills

Mr. Robert Mann
Detroit

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Mr. and Mrs. Richard D. Nemesi
Bloomfield Hills

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Mr. and Mrs. Hubert Serre
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Rochester Hills

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Troy

Mr. and Mrs. Michael Smith
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Mr. and Mrs. Thomas J. Steinbrecher
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Mr. and Mrs. Charles H. Allen
Rochester Hills

Dr. and Mrs. Roger C. Byrd
Washington

Mr. and Mrs. Paul G. Karas
Rochester

Mr. John L. O'Connor
Birmingham

IN MEMORIAM

David Gamble

KEEPING IN TOUCH

OAKLAND UNIVERSITY MAGAZINE keeps you informed about — and in touch with — Oakland University and its many programs, alumni and friends. Please use the space provided—or attach an additional page—to send us news (appointments, promotions, honors, marriages, children and other activities) about yourself or your Oakland friends. Moving? Send us your new address right away. Let's keep "in touch"!

Mail to:
Office of Alumni Relations
John Dodge House
Oakland University
Rochester, Michigan 48309-4401

Name_____ Maiden name (if applicable)_____

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City _____ State _____ Zip _____

Telephone(____)_____ Class_____ Major/degree_____

Calendar

November

8 *The Kresge Library Dedication,* a celebration of the completed library expansion project.

9 School of Engineering and Computer Science: William G. Hammerle Memorial Lecture with Paul MacCready, 3 p.m., 201 Dodge Hall

12 Lafayette String Quartet I, 3 p.m., Varner Recital Hall. Center for the Arts production.

16 Continuing Education: Enigma of Genius series with physics Professor Abraham R. Liboff, 7-9 p.m., Meadow Brook Hall.

21 First home women's basketball game: *Oakland University* vs. *Heidleberg College,* 7 p.m., Lepley Sports Center.

22 First home men's basketball game: *Oakland University* vs. *Christian Heritage College,* 7:30 p.m., Lepley Sports Center.

30 *A Christmas Carol,* through December 31, Meadow Brook Theatre.

"Christmas Memories," the 1989 Meadow Brook Hall Christmas Walk, runs November 29 to December 10.

December

3 Meadow Brook Estate Holiday Extravaganza, weekends only through December 10, 3 p.m. and 8 p.m., Varner Recital Hall. Center for the Arts production.

January

4 *Dial M for Murder,* through January 28, a Detroit area premiere at Meadow Brook Theatre.

9 Continuing Education: Classics of Western Tradition series, through March 20, 7-9 p.m., Meadow Brook Hall.

21 Lafayette String Quartet II, 3 p.m., Varner Recital Hall. Center for the Arts production.

31 Continuing Education: Enigma of Genius Series with the D.S.O.'s Maestro Gunther Herbig, 7-9 p.m., Meadow Brook Hall.

Complete schedules and ticket information are available from:

Athletic Department, 370-3190
Alumni Relations Office, 370-2158
Center for the Arts box office, 370-3013
Continuing Education, 370-3120
Meadow Brook Art Gallery, 370-3005
Meadow Brook Hall, 370-3140
Meadow Brook Music Festival box office, 370-2010
Meadow Brook Theatre box office, 377-3300

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Address correction requested

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