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This special issue of the "Communique" for the 1981 entering class was published by Medical and Health Information, A314 E. Fee Hall, 517/353-0820. Cover art by Val Johnson.

Michigan State University is an equal-opportunity/affirmative action institution.
MSU-COM First Public Osteopathic College

The Michigan State University College of Osteopathic Medicine was the first university-affiliated and state-supported school of its kind, established by public act of the Michigan legislature in 1969.

It had originally been chartered privately in Pontiac by the Michigan Association of Osteopathic Physicians and Surgeons, who since 1959 had been seeking to eliminate the critical shortage of health care professionals in the state.

After legislative action, the College was transferred to MSU's East Lansing campus as a state-supported institution and enrolled its first class in 1971.

Michigan Provides Healthy Environment for Osteopathic Profession

The state of Michigan has provided a healthy environment for the growth and development of the osteopathic profession.

More osteopathic physicians — approximately 3,800 at last census — are licensed in Michigan than in any other state in the union, and constitute approximately 20% of Michigan's physicians.

These physicians have been notable not only for their quantity but for the quality of their commitment. Recognizing the state's need for family physicians, especially in rural areas, they began through personal contributions the forerunner of MSU-COM — the Michigan College of Osteopathic Medicine in Pontiac. They have continued to support osteopathic education through their gifts to the Michigan Osteopathic College Foundation, which provides funds for continuing medical education programs, scholarship and loans for osteopathic students, research, the dean's fund and other programs at MSU-COM, and other unrestricted grant programs.

After the move of the College of Osteopathic Medicine from Pontiac to East Lansing, the facilities were retained as the Michigan Center for Continuing Education in Osteopathic Medicine, a unique institution. The Center supports a myriad of programs for osteopathic physicians and other health professionals, provides library and laboratory facilities for self-study, offers meeting rooms to members of the profession, and sponsors exhibits and other media for osteopathic education.

During the last year, the 47 programs at the Center have included the presentation of scientific papers and clinical programs. More than 2,700 physicians attended continuing medical education programs at Pontiac during 1980, receiving a total of more than 26,000 CME credits. Students are welcome to attend any of the programs at no charge.

There are 27 osteopathic hospitals in Michigan, providing nearly 5,000 beds and a wide variety of treatment modalities and outpatient services.

The Michigan Association of Osteopathic Physicians and Surgeons, associated with the American Osteopathic Association, includes 21 component societies across the state.
Michigan State University Is World’s Only Institution Awarding D.O., M.D., and D.V.M. Degrees

Michigan State University College of Osteopathic Medicine is unique in that it jointly administers its biological science, behavioral science and some clinical departments with two other schools of medicine on the campus—the College of Veterinary Medicine, which was established in 1910, and the allopathic College of Human Medicine, established in 1966 and so named in deference to its veterinary predecessor.

Departments jointly administered with the College of Osteopathic Medicine include Anatomy, Biochemistry, Biophysics, Community Health Science, Microbiology and Public Health, Pathology, Pharmacology and Toxicology, Physiology, Psychiatry, Radiology, Zoology, the Office of Medical Education Research and Development, and the School of Medical Technology.

Departments administered solely by the osteopathic college include Biomechanics, Family Medicine, Internal Medicine, Osteopathic Medicine, and Pediatrics.

MSU College of Osteopathic Medicine
a National Catalyst in Osteopathic Education

Michigan State University's College of Osteopathic Medicine—founded in 1969 as the first new osteopathic educational institution in the United States in more than 50 years—has been instrumental in the establishment of younger osteopathic colleges and influential in their programs for medical education.

Within the last seven years, top administrators for four of the nation's new colleges of osteopathic medicine have come from the MSU college: Dr. John Barson, president at the Oklahoma College of Osteopathic Medicine and Surgery; Dr. Ralph Willard, president of the Texas College of Osteopathic Medicine; Dr. Gerald Faverman, former acting dean of the Ohio College of Osteopathic Medicine; and Dr. Kirk Herrick, dean of West Virginia School of Osteopathic Medicine. In addition, Dr. Fred Tinning, assistant dean for planning at MSU-COM, served as acting dean during the start-up of the New Jersey School of Osteopathic Medicine.

Colleges established before MSU-COM include the Kirksville College of Osteopathic Medicine (1892), the Philadelphia College of Osteopathic Medicine (1898), the College of Osteopathic Medicine and Surgery at Des Moines (1898), the Chicago College of Osteopathic Medicine (1900), and the Kansas City College of Osteopathic Medicine (1916).

Osteopathic educational institutions founded after MSU-COM include the Texas College of Osteopathic Medicine (1970), the Oklahoma College of Osteopathic Medicine and Surgery (1972), the West Virginia School of Osteopathic Medicine (1972), the Ohio College of Osteopathic Medicine (1975), the New York College of Osteopathic Medicine (1978), and the New Jersey School of Osteopathic Medicine (1978).

Two other schools, the College of Osteopathic Medicine of the Pacific in Pomona, California, and the New England College of Osteo-
pathic Medicine in Biddford, Maine, will receive full accreditation when their first classes graduate in June 1982. Another school, the South-eastern College of Osteopathic Medicine in North Miami Beach, Florida, has received provisional accreditation and will enter its first class in September 1981.

Off-Campus Clinical Training

Much of the clinical training of students in the College of Osteopathic Medicine is made possible through clinics, ambulatory care centers, and community hospitals affiliated with the College.

Clinical experiences are offered to students in modules at the MSU Clinical Center, in affiliated hospitals, in physician-preceptor offices, and at community health centers in Lansing and Potterville.

Students also take clinical clerkships, including ambulatory and inpatient care, in community hospitals and health care agencies formally affiliated with the College, and in physicians' offices as part of the Preceptor and the Junior Partnership Programs.

Affiliated hospitals include Bi-County Community Hospital, Warren; Botsford General Hospital, Farmington Hills; Carson City Hospital (Osteopathic); Detroit Osteopathic Hospital; Flint Osteopathic Hospital; Garden City Hospital; Grand Rapids Osteopathic Hospital; Jackson Osteopathic Hospital; Lakeview General Hospital, Battle Creek; Lansing General Hospital; Martin Place Hospital, Madison Heights; Michigan Osteopathic Medical Center, Detroit; Mount Clemens General Hospital; Pontiac Osteopathic Hospital; Owosso Memorial Hospital; Riverside Osteopathic Hospital, Trenton; Saginaw Osteopathic Hospital; Traverse City Osteopathic Hospital.

Preceptorship Training
at MSU-COM

One afternoon a week, first- and second-year students from the College of Osteopathic Medicine leave their classrooms to observe osteopathic family physicians at work. The students are each assigned to either an MSU-COM preceptor or to one of the ambulatory care clinics supervised by clinical faculty from the Department of Family Medicine.

Students receive this clinical training in primary care settings that vary from inner city clinics to suburban or rural practices. These four-term, one-credit preceptorships are designed to provide students with practical experience in all aspects of the delivery of health care, with particular emphasis on osteopathic patient management.

After each preceptorship course the students are prepared to enter the next clinical experience in the series. Each succeeding experience increases in complexity, and the students are expected to assume greater responsibility with each term. Upon completion of all preceptorship experiences, the students are ready to enter the Junior Partnership Program with family physicians for concentrated, in-depth clinical training in family medicine.

Nicholas Fiel, D.O., and Margot Kurtz, Ph.D., are co-directors of the programs.
Fee Hall Facilities

Media Services Provide
Instructional Materials, Equipment

Students have ready access to a growing library of instructional media in the carrel room. Included are audiotapes, videotapes, slides and slide/tapes, films and some print materials. A large number of simulation devices are also available for individual and group use. Lectures are recorded on audiotape and are available in the carrel room, almost immediately. Individual students can secure their own copies of these lectures through the duplication service.

A small color television production unit is used in producing programs for use in teaching. Portable equipment is used to videotape certain student learning activities. Video materials are distributed to the classrooms electronically or with portable videotape playback units. A range of classroom audiovisual equipment as well as special devices are distributed and maintained through Media Services.

Quiet Study Area Includes
Carrels, Journals, Microfiche

A quiet study area (E-4) is located for health professions students next to Fee snack shop.

The area includes carrels equipped with slide projectors, videotape decks and recorders, books, journals, free monographs, microfiche, microscopes, and assigned readings. Thirty to forty medical journals are available for student and faculty use in E-6.

Tentative summer hours for the student area are:

<table>
<thead>
<tr>
<th>Days</th>
<th>Hours</th>
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<tr>
<td>Mondays-Thursdays</td>
<td>9 a.m. to 10 p.m.</td>
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<tr>
<td>Fridays</td>
<td>9 a.m. to 5 p.m.</td>
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<tr>
<td>Saturdays</td>
<td>12 p.m. to 5 p.m.</td>
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<tr>
<td>Sundays</td>
<td>2 p.m. to 8 p.m.</td>
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"Alimentary, My Dear Watson..."

Faculty, students and staff who succumb to cravings from the interior during their tenure at Fee Hall often seek respite in the basement snack shop.

The menu ranges from breakfast dishes such as eggs, bacon, doughnuts, orange juice and coffee to lunch specialties such as giant subs, burgers, soups, fish and chips, salads and daily specials. For inveterate snackers, there is an ample supply of fresh fruit, pastries, chips, yogurt, ice cream and milk shakes.

During summer term theFee snack shop will be open from 7 a.m. to 3:30 p.m. For information, call 353-1995.
Faculty Development Programs
Assist Physician-Teachers

Assisting faculty to make the transition from medical practitioners to teachers, as well as helping all faculty to gain or enhance teaching skills, are the goals of the Faculty Development Program under the direction of Celia B. Guro, Ph.D., coordinator of faculty development.

Included in the program are teaching strategies, development of evaluation tools, administration skills, time management, and interpersonal skills.

In developing the program, Guro utilized the expertise of individuals from within the College and throughout the University.

Strong Research Emphasis at
MSU College of Osteopathic Medicine

Because it is part of a major university, MSU's College of Osteopathic Medicine has had an opportunity unique among the nation's osteopathic schools to make a strong commitment to research. The College's research effort, which is not limited to uniquely osteopathic topics, extends to all of the biological and clinical departments and to several interdepartmental programs.

Research in the biological science departments (such as anatomy, biochemistry, microbiology, physiology, etc.) is supported by millions of dollars in funding from private and public agencies. These departments, which are jointly administered by other colleges as well, are well established and account for much of the College's research effort.

The Department of Biomechanics research is concentrated in the properties of tissues, their interaction as a support system, the dynamics of motion, and clinical applications related to diagnostics and therapy of this system. A systems anthropology laboratory provides the capability to measure, three dimensionally, the centers of joint motion and the motion of specific landmarks in the body. The tissue biomechanics laboratory consists of a specially built hydraulic testing machine with computer control capable of imposing various load or deformation patterns upon tissue and monitoring the response.

The Carcinogenesis Laboratory of the College is exploring the cancer-causing effects of chemical and environmental agents on DNA and mutation rates. This interdisciplinary research is funded by major grants from the National Cancer Institute, American Cancer Society and Department of Energy.

Another example of interdisciplinary research occurs in the Neurosciences Program, which spans a number of departments and is administered by the College.

Pilot studies by College researchers are funded by seed monies from the College and NIH. As a result in part, grants awarded since 1975 have increased tenfold in new externally funded grants. A continuation seed-money NIH grant of more than $70,000 will be distributed in the fall.
Graduate Program
Focuses on Ph.D./D.O. Study

The Michigan State University College of Osteopathic Medicine is the first and only osteopathic medical school to award Ph.D. and master's degrees in addition to the D.O. degree.

Opportunities for combined Ph.D./D.O. study are offered in the College's unique Medical Scientist Training Plan, developed to meet the national need for well-trained osteopathic medical scientists and educators. Traineeships are available competitively.

The plan includes three programs for both degrees:

I. Students holding a bachelor's or master's degree and pursuing D.O. and Ph.D. degrees simultaneously.
II. Students holding the Ph.D. degree and pursuing the D.O. degree.
III. Students holding the D.O. degree and pursuing the Ph.D. degree.

SHORT-TERM RESEARCH PROJECTS

The College of Osteopathic Medicine encourages short-term research training for osteopathic medical students who want to explore or continue research but not pursue a graduate degree. Traineeships are available competitively for an off-term each year, usually in summer.

One such opportunity is offered through the College's participation in MSU's Biomedical Student Research Program, which has been funded through a five-year grant from the National Institutes of Health and through other agencies. The program provides fellowships each summer to 30 selected trainees from MSU's Colleges of Osteopathic Medicine, Human Medicine and Veterinary Medicine.

College of Osteopathic Medicine
Year in Review: 1980-81

June 1980

One hundred eleven persons — including 33 women and 78 men — who were candidates for graduation from MSU-COM were honored at hooding ceremonies in the University Auditorium.

Following orientation, 125 students began studies at MSU-COM as members of the 1980 entering class. The class held a total of 151 premedical degrees, including 123 baccalaureate, 25 masters, and three doctorates.

The position of vice president for health services and facilities was created at MSU, and William R. Schonbein was selected as acting vice president.
July 1980

Katherine E. White, Ph.D., was appointed acting assistant dean for student affairs, and Elissa L. Gatlin, Ph.D., was named assistant director of admissions. Changes in major administrative assignments included the naming of Philip E. Greenman, D.O., as associate dean; Donald E. McBride, D.O., as associate dean for academic affairs; and Gail Riegel, Ph.D., as assistant dean for curriculum.

More than 150 persons attended the annual picnic sponsored by the Student Associate Auxiliary in Patriarche Park.

August 1980

Health clinics for migrant farm workers in St. Johns and Mason were staffed by students and faculty from the MSU medical schools.

September 1980

A major international conference on concepts and mechanisms of neuromuscular functions attracted to MSU- COM 52 participants from the United States, Austria, Norway, Sweden and West Germany. The symposium was part of a series of events over the past five years in which the College has been actively promoting interchange on concepts and practices of manual medicine on several continents.

The second annual alumni association scientific seminar and football weekend attracted a number of physicians and spouses for CME, camaraderie and the MSU/Western Michigan football game.

October 1980

Keith Goldhamer, Ph.D., former dean the the MSU College of Education, was the keynote speaker at the tenth annual MSU-COM convocation. Receiving the Walter F. Patenge Medals of Public Service at the ceremonies were Goldhamer; Robert D. McCullough, D.O., a distinguished surgeon from Tulsa; Edward A. Loniewski, D.O., Michigan osteopathic physician; and W. Kenneth Riland, D.O., former physician for the President of the United States and for the governor of New York.

More than 1,000 persons attended an open house in Fee Hall in honor of the tenth anniversary of the MSU College of Osteopathic Medicine. The event included numerous exhibits, displays, demonstrations and screening clinics for the public, guided tours, and participation by local and state health organizations, and osteopathic medical groups and hospitals.

November 1980

College administrators intensified their efforts to meet the challenge imposed by strenuous financial cuts caused by a decline in state appropriations to universities, inflation and the worsening of the Michigan economy.

A health care alliance among the MSU College of Osteopathic Medicine, MSU College of Human Medicine, and Lansing's St. Lawrence Hospital, Ingham Medical Center, and Lansing General Hospital was formed in recognition of "the need to work cooperatively in an effort to expand and grow to meet present and future needs."
December 1980

Thirty-three persons — including 12 M.D.s, nine D.O.s and 11 physical therapists — came from all over North America for a course on basic principles in manual medicine at MSU-COM.

January 1981

The Department of Internal Medicine, a new solely-administered unit of the College, was established by the MSU Board of Trustees effective January 1. Donald Briner, D.O., was named acting chairman, and ten D.O.s were transferred to the department.

Hospital Visitation Day was held at the College, offering students seeking internships and representatives from osteopathic hospitals around the nation an opportunity to share information.

A special clinic for adolescents was opened by the Department of Pediatrics at Community Health Services in Lansing. The clinic was developed to meet the special physical, social and emotional needs of these patients.

Continuing education programs for 1981 announced by the College included topics such as rheumatology, stress, breast cancer, and an extensive manual medicine series. New CME emphases in the College included individually tailored programs for volunteer faculty, traveling CME programs for outstate areas, and faculty education.

February 1981

MSU continued its efforts to meet the constraints imposed by the state’s financial crisis and campus-wide cuts totalling nearly $30 million. The mandated reductions across the university averaged 14%.

"Osteo-pathetic Awareness Day" attracted more than 200 students, faculty and staff for motion pictures, music and dancing to combat rampant midwinteritis.

March 1981

The MSU College of Osteopathic Medicine Alumni Association became a free-standing organization, with 100% of membership dues available to the group for their activities.

April 1981

MSU-COM '77 alumnus Robert M. Acosta was commander of the rescue and recovery team of paramedics for the return to earth of the historic flight of the space shuttle Columbia.

Pamela J. Fraker, Ph.D., associate professor of biochemistry, won the Bio-Serv Award in Experimental Animal Nutrition.

May 1981

MSU-COM personnel were highly prominent at the annual conference of the Michigan Association of Osteopathic Physicians and Surgeons, giving numerous educational presentations. The College and the MSU-COM Alumni Association also sponsored exhibits, an alumni luncheon, and a hospitality room.
Medical Schools—Fee Hall

Note: The Fee Hall Complex (East, West) is divided into 5 wings. Each wing is identified with a letter: A - B - C - D - E. The letter preceding the room number indicates the wing in which an office is located. See diagram above.
Administrative Officers

MYRON S. MAGEN, D.O., dean: overall administrative responsibility for the college.

PHILIP E. GREENMAN, D.O., associate dean: participates in and performs administrative activities for the College, particularly with the internal constituencies; serves as acting dean during absence of the dean; general oversight responsibility and liaison with clinical educational facilities for program development; director of Institute of Human Fitness.

PHILIPP GERHARDT, Ph.D., associate dean for research and graduate study: delegated administrative responsibility for research affairs including the general research support program, extramural grants and contracts, and the carcinogenesis laboratories; and for graduate-study affairs including M.S. and Ph.D. degree programs, the medical scientist (Ph.D. plus D.O. degree) training plan, and the neuroscience program.

DONALD E. McBRIDE, D.O., associate dean for academic affairs: administrative management of the total academic program, including administration of the curriculum as defined by the Curriculum Committee and as implemented by the academic units to which instruction is assigned; administrative responsibility for all College (COT) interdisciplinary courses; liaison for decentralized clinical faculty and the campus-based College programs.

JAMES P. HOWARD, M.P.H., assistant dean for community affairs: maintenance of liaison with community organizations and agencies that relate or impinge upon medical education; represents the College as a professional resource to community agencies and groups involved in health care delivery or community health development.

GAIL RIEGLE, Ph.D., assistant dean for curriculum: supervises academic support for faculty, students and the Curriculum Committee, including scheduling, student evaluation and program evaluation.

FRED C. TINNING, Ph.D., assistant dean for planning: planning for the College's program operation, policy analysis, and faculty activity analysis, including program budget, fiscal planning and projection, legislative liaison, program and resource development and utilization; program analysis, including costs assessment, computer utilization, and basic management assessment.

KAY E. WHITE, Ph.D., assistant dean for student affairs: administration of all student support services tangential to the academic program for the College, including admissions, enrollment and registration,
student records, promotion and retention; certification for graduation, licensure and staff privileges; academic advisement, counseling, and exceptional academic support services.

DON E. COLEMAN, Ph.D., director of minority support program: recruitment, counseling and retention of minority students in the College of Osteopathic Medicine.

ELISSA GATLIN, Ph.D., assistant director of admissions: provision of information about the College to premedical advisers in colleges and universities, to prospective students, and to practicing physicians; administration of the admission of students into the program.

CELIA B. GURO, Ph.D., coordinator of Faculty and Professional Development Program: responsible for the total development, implementation and evaluation of the College's faculty and professional development program. Consultant to committees in the areas of curricular needs, curricular development, and implementation. Initiate position papers on issues of importance to the total college.

ANNETTE KABARA, fiscal officer: planning and supervision of fiscal management and budget projections and monitoring, review of staff and equipment requirements, and preparation of financial statements. Line responsibility for the unit of professional services.

SANDRA A. KILBOURN, M.A., coordinator for continuing medical education: coordinates all postgraduate courses, on-campus and off-campus, assists clinical faculty in understanding state and professional rules and regulations regarding CME. Serves as contact for outside organizations needing information on osteopathic continuing education.

BRUCE L. MILES, Ph.D., coordinator for educational resources: provides consultative services to faculty in the design, development and implementation of instructional systems and materials. Supervises numerous student-faculty media support and production facilities.

JANE A. WALDRON, Unit III coordinator: coordination of clinical clerkships, liaison with directors of medical education in affiliated hospitals, and liaison of Unit III students.

ROBERT C. WARD, D.O., F.A.A.O., director of special projects: program planning and design, including the ambulatory care program for the Clinical Center; writing grants and designing college-wide programs for clinical training that emphasizes integration of osteopathic principles in patient care.
Student Organizations

Student Osteopathic Medical Association

The chapter of the Student Osteopathic Medical Association, a national service organization of osteopathic medical students, was organized at the MSU College of Osteopathic Medicine in 1977.

On the national level, SOMA represents more than 70% of the osteopathic medical students, and has been involved in activities ranging from testimony before Congress on matters of concern to medical students to changing references to osteopathic medicine in the recent MCAT questionnaire.

Local chapter activities have included a major continuing medical education seminar for osteopathic physicians on human sexuality, hypertension screening, participation in orientation programs, health appraisal examinations and health education lectures in schools. This year SOMA is also involved in the publication of a nationwide internship evaluation guide of all teaching hospitals in the U.S., including the military. Editor of the guide is Tim Kowalski.

Officers for the 1981-82 year are Chris Dalm, president; Ron Bradley, vice-president; Margaret McKeough, secretary; Lynn Gibson, treasurer; Gary Doublestein, the officer-at-large; and Robert Tillotson, social chairman. Brad Clegg of MSU-COM serves as national SOMA vice president.

Sigma Sigma Phi

Sigma Sigma Phi, a national osteopathic fraternity, began its Iota chapter at the MSU College of Osteopathic Medicine in 1977.

A primary goal of the chapter is service through community health programs. Activities sponsored by the fraternity have included a continuing medical education symposium focusing on the major nutritional problems encountered by general practitioners, a Red Cross blood drive, a blood pressure screening clinic in the community, and athletic physicals in local high schools. Recently, they have developed a system whereby students can purchase their medical books at a reduced price. The organization has also sponsored a series of national board review lectures which help second year students prepare for Part I of the national boards.

Officers for the 1981-82 year are Carl Harlan, president; Reuben Tenorio, vice-president; Charlene Greene, secretary; Richard Below, treasurer; and Kathy Kroll, editor.

Kenneth Stringer, D.O., professor of pediatrics, is adviser of the group.

Undergraduate American Academy of Osteopathy

The Undergraduate American Academy of Osteopathy (UAAO) is an educational service organization which focuses on the manipulative and holistic aspects of osteopathic medicine, providing both didactic and "hands-on" experience.

Recent activities included lectures on European osteopathy, hypnosis, herbal medicine in Michigan, acupuncture, and food allergies. A week-long workshop was held which featured Viola Frymann, speaking on "Cranial Therapy." The organization has also provided the
opportunity for student to gain work experience with manipulation in hospitals.

The present coordinators of the UAAO are Jane Harris and Will Page-Echols; treasurer is Dwight Stallman. Adviser is Robert C. Ward, D.O., director of special projects, and professor in the Office of Medical Education Research and Development.

Student Chapter: OGPM/ACGP

The MSU-COM student chapter of the Osteopathic General Practitioners of Michigan/American College of General Practice promotes an awareness and appreciation of general practice. Previously titled the Michigan Association of Osteopathic General Practitioners/American College of General Practitioners in Osteopathic Medicine and Surgery, the chapter has, this past year, arranged an orientation to general practice with physicians in the OGPM.

Student-planned events for the past year have included seminars on how to deal with cases of child abuse and sexual assault, as well as sessions on cardiopulmonary resuscitation, frostbite, and emergency medicine.

Officers of 1980-81 are Ross VanAntwerp, president; Sue Sevensma, vice-president; Dan Eardley, secretary; and Boogs Burandt, treasurer.

Student Associate Auxiliary

The MSU-COM Student Associate Auxiliary was organized to provide a means for those new to East Lansing, to MSU, and to "medical matrimony" to share experiences and meet common needs.

The organization, made up primarily of spouses of students, participates in various service projects, holds educational and information monthly programs, and organizes various social functions.

Activities have included an annual orientation program for spouses of new students, an all-school picnic, educational programs on the osteopathic profession, and sessions on food allergies, stress, and assertiveness.

Officers for 1981-82 include Mary Zook, president; Debbie Trugabour, vice president; Teresa Perez, secretary; and Susan Klapuchar, treasurer.

Clinical Departments Provide Basis for Medical School Education and Service

The five following departments are administered solely by the Michigan State University College of Osteopathic Medicine.

Department of Biomechanics

The Department of Biomechanics was established as a research entity to perform both basic and applied clinical studies into the interrelationship of the body's structure and function. Faculty also participate in the teaching of palpatory diagnosis and manipulative technique.

The departmental office is located in A419 Fee Hall, phone 353-9110. Chairman is Robert Little, Ph.D.
Resident faculty include:
Myron C. Beal, D.O.
Jean B. Burnett, Ph.D.
John P. Goodridge, D.O.
Philip E. Greenman, D.O.
Richard Hallgren, Ph.D.
Robert P. Hubbard, Ph.D.
William L. Johnston, D.O.
Jon J. Kabara, Ph.D.
Eloise Kurtz, Ph.D.

Yoram Lanir, Ph.D.
Robert W. Little, Ph.D.
David G. McConnell, Ph.D.
Fred L. Mitchell Jr., D.O.
James J. Rechtien, D.O., Ph.D.
Ernest Retzlaff, Ph.D.
Herbert M. Reynolds, Ph.D.
Richard Roppel, Ph.D.
John Upledger, D.O.

Department of Family Medicine
The Department of Family Medicine is involved in the teaching and practice of family medicine — the comprehensive and continuing responsibility for patients and members of their families, regardless of age.

The departmental office is located in B201 Fee; phone 353-4730. Chairman is Lynn F. Brumm, D.O.

Resident faculty include:
Margaret Ajunwa Aguwa, D.O.
Lynn F. Brumm, D.O.
James J. Davis, D.O.
Nicholas Fiel, D.O.
Richard E. Griffin, D.O.
Linda Hernandez, D.O.
Lon A. Hoover, D.O.
Shirley M. Johnson, Ph.D.
Margot Kurtz, Ph.D.

Jasper Lillie, D.O.
John McNeil, D.O.
L. A. Marohn, D.O.
Daniel Raub, D.O.
JoAnne Shaltz, D.O.
Gordon Spink, D.O., Ph.D.
Matthew Terry, D.C.
John Thornburg, D.O., Ph.D.
Donald E. Waite, D.O.

Department of Internal Medicine
The mission of the Department of Internal Medicine is undergraduate education in the specialty and subspecialties of internal medicine. Its members offer tertiary care to the community and are actively engaged in clinically oriented research. The departmental office is B311 West Fee Hall; phone 353-3211. Chairman is Donald H. Briner, D.O.

Resident faculty include:
Donald H. Briner, D.O.
William Carnegie, D.O.
John M. Costantino, D.O.
Howard A. Dean, D.O.
John Gobel, D.O.
Edward T. Helble, D.O.

Michael James, D.G.
George Kleiber, D.O.
John W. Morlock, D.O.
Ralph Otten, D.O.
George E. Ristow, D.O.
James R. Yarnal, D.O.

Department of Osteopathic Medicine
The Department of Osteopathic Medicine is organized to represent all of the major clinical disciplines involved in the practice of osteopathic medicine. Its faculty are involved in the development of classroom, hospital, clinic and specialty programs.

The departmental office is located in B305 West Fee; phone 353-8470. Chairman is Walter C. Mill, D.O.
Resident faculty include:
John R. Downs, D.O., D.D.S.
Earl Gonyaw, D.O.
Donald NeBrice, D.O.

Walter Mill, D.O.
Joseph Walczak, D.O.

Department of Pediatrics

From sports physicals to esoteric specialty care, the Department of Pediatrics is active in primary and specialty care and functions in varied settings including the Clinical Center, local schools' Sports Physicals Programs, and Learning Disabilities Clinic. They also offer residency and continuing education programs for osteopathic physicians. The departmental office is located in B301 West Fee Hall; phone 353-3100. Chairman is Bernard M. Kay, D.O.

Resident faculty include:
Gerard M. Breitzer, D.O.
Wanda Chenoweth, Ph.D.
Bernard M. Kay, D.O.
Myron S. Magen, D.O.
Kenneth Mahoney, D.O.
Merrilese Osborn, D.O.

Rachel Schemmel, Ph.D.
Howard Teitelbaum, Ph.D.
Frank Schneiderman, D.O.
Lloyd Schneiderman, D.O.
Carla Smith, D.O.
Kenneth Stringer, D.O.
Ruth Worthington, D.O.

Four other clinical departments are administered jointly by the College of Osteopathic Medicine and the MSU College of Human Medicine. These include:

Department of Community Health Science

The Department of Community Health Science departmental office is located in B415 Fee Hall; phone 353-3990. Chairman is Sidney Katz, M.D.

Resident faculty include:
Cyril A. Akporor, M.P.H., M.D.
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Dorothy Carnegie, D.O.
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Anne C. Cunningham, Ph.D.
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Angela Falcone, M.P.H.
Robert R. Fedore, Ph.D.
Donald Galvin, Ph.D.
Charles W. Given, Ph.D.
George A. Gross, D.O.
Celia B. Guro, Ph.D.
James P. Howard, M.P.H.
John M. Hunter, Ph.D.
John Kaneene, D.V.M.
Sidney Katz, M.D.

Carole Keefe, Ph.D.
Kathryn M. Kolas, Ph.D.
Mary H. Kroger, R.S.M., Ph.D.
James Lyon, M.P.H.
Kalyn Misra, M.D., M-P.H.
Charles Maynard, M.A.
Joseph A. Papsidero, M.P.H., Ph.D.
Joseph Patterson, Dr.P.H.
Elba M. Pung, M.D.
Robert K. Richards, Ph.D.
George F. Sargent, Ph.D.
Ira L. Snider, D.O., J.D.
Robert J. Sprafka, Ph.D.
Robert D. Stevens, Ph.D.
Howard D. Stoudt, Ph.D.
Donald C. Tavano, Ph.D.
Fred C. Tinning, Ph.D.
Paul Weikert, Ph.D.
W. Donald Weston, M.D.
Department of Pathology

The Department of Pathology departmental office is located in A622 E. Fee Hall; phone 353-9160. Acting chairman is Janver Krehbiel, D.V.M., Ph.D.

Resident faculty include:

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James Collins, D.V.M.
Helen L. Davidson, M.S., M.T.
Wanderly C. de Mendonea, M.D.
Robert Dunstan, D.V.M.
Sue C. Estry, M.S., M.T.
Jerome Gass, D.V.M.
Ronald S. Gregory, D.V.M.
Houriya Hassouna, M.D.
Clay Hodgkin, D.V.M., Ph.D.
Thomas W. Jenkins, Ph.D.
Richard Jensen, D.V.M.
Margaret Z. Jones, M.D.
Henry A. Kallet, M.D.
Kenneth Keahey, D.V.M., Ph.D.
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Robert W. Leeder, D.V.M.
Stuart Levin, D.V.M., Ph.D.
Kathryn Lovell, Ph.D.

Patricia N. Lowrie, E.M., M.S.
Joan C. Mattson, M.D.
George A. Padgett, D.V.M.
Maria Patterson, Ph.D.
John Penner, M.D.
Edward Powsner, M.D., S.M.
Charles H. Sanders, M.D.
Vance L. Sanger, D.V.M.
Shirley Siew, M.D.
Stuart D. Sleight, D.V.M., Ph.D.
Earnest Stephens, D.V.M., M.S.
Flint Taylor, D.V.M., M.S.
Martha T. Thomas, M.T., M.S.
Allan L. Trapp, D.V.M., Ph.D.
Harold W. Tvedten, D.V.M., Ph.D.
Betty C. Vincent, M.D., M.T.
Patricia Wakenell
Glenn L. Waxler, D.V.M., Ph.D.
Douglas J. Weiss, D.V.M., M.S.
Roger Wells, D.V.M.
Charles K. Whitehair, D.V.M., Ph.D.
Christine Williams, E.V.Sci.

Department of Psychiatry

The Department of Psychiatry departmental office is located at A222 E. Fee Hall; phone 353-9242. Acting chairman is Floyd Westendorp, M.D.

Resident faculty include:

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Arnold Berkman, Ph.D.
Claire Fleet Berkman, Ed.D.
Teresa Bernardes, M.D.
Robert Bielski, M.D.
Gaston Blom, M.D.
Michael Bowden, M.S.W.
Daniel Bronstein, S.J.D.
Alfred Ching, M.D.
Ronald Dirkse, M.D.
Harold Drane, M.S.S.A.
Norbert Enzer, M.D.
Griffith Freed, Ph.D.
Gordon Critter, M.D.
Thomas Gunnings, Ph.D.
Mark Hinshaw, M.D.
Norman Kagan, Ph.D.
Rodger Kobes, M.D.
Henry Krystal, M.D.
Peter Manning, Ph.D.

Louis Nemser, M.D.
Gerald Osborn, D.O.
Louis Post, Ph.D.
Jorge Rinsky, M.D.
Lionel Rosen, M.D.
John Schneider, Ph.D.
Ronald Simons, M.D.
Dianne Singleton, Ph.D.
Thomas Stachnik, Ph.D.
Terry Stein, M.D.
Bertram Stoffelmayr, Ph.D.
Lawrence Van Egeren, Ph.D.
Sumer Verma, M.D.
Arnold Werner, M.D.
Floyd Westendorp, M.D.
W. Donald Weston, M.D.
Cyril Worby, M.D.
Marsha Worby, M.S.W.
Martine Zucker, Ph.D.
Department of Radiology

The Department of Radiology departmental office is located in B220 Clinical Center; phone 355-0120. Chairman is E. James Potchen, M.D.

Resident faculty include:

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Kendall W. Foster, M.D.
David Gift, M.S.
Gale I. Harris, Ph.D.
Kathryn D. Hart, M.D.
Mary M. Leeman, M.A.

E. James Potchen, M.D.
Don K. Reinhard, Ph.D.
Arlene Sierra, A.R.R.T.
K. H. Vydareny, M.D.
Richard White, D.O.

Other Departments and Units

Department of Anatomy
Steven T. Kitai, Ph.D. A519 E. Fee, 353-6380.

Department of Biochemistry
Charles C. Sweeley, Ph.D. 212 Biochemistry, 355-1600.

Department of Biophysics

Office of Medical Education Research and Development

Medical Humanities Program
Andrew D. Hunt, M.D. A110 E. Fee, 355-7550.

School of Medical Technology
Christiana S. Blume, Ph.D. 103 Giltn, 353-7800.

Department of Microbiology and Public Health
Paul T. Magee, Ph.D. 178 Giltn, 355-6463.

Department of Pharmacology and Toxicology
Theodore N. Brody, Ph.D. B440 Life Sciences, 353-7146.

Department of Physiology
Harvey V. Sparks, Ph.D. 111 Giltn, 355-6475.

Department of Zoology
William E. Cooper, Ph.D. 203 Natural Science, 355-4640.

Activities on MSU Campus Meet Many Varied Interests

There is practically no interest so obscure that a co-afficionado cannot be found on the Michigan State University campus.

From The Commodores to Yehudi Menuhin, from Star Trek to Shakespeare, from square dancing to sky diving—the full range of entertainment and activities can be found among MSU students and families.

Abrams Planetarium

With its panoramic space science theater, Abrams Planetarium is an acknowledged leader in the popularization of astronomy. The building also includes a black light art gallery, an exhibit hall sales counter, and work areas.

In addition to presentations of an educational nature, programs ranging from astrology to time projections and light shows are provided weekly for the public's entertainment. The exhibit hall is open
weekdays from 8:30 a.m. to 4:30 p.m. and shows are presented at 8 and 10 p.m. Fridays and Saturdays, and at 4 p.m. Sundays.

Athletic Activities

Michigan State University men compete in 15 sports at the varsity level, including football, cross country, golf, soccer, basketball, fencing, gymnastics, ice hockey, indoor track, swimming, wrestling, baseball, lacrosse, outdoor track, and tennis. Women's teams in volleyball, swimming, gymnastics, golf, tennis, track, field hockey, basketball, cross country, and softball compete on the intercollegiate level.

In addition MSU provides 26 team and 44 individual intramural sports activities in which every student may participate. There are 41 sports clubs.

For tickets and schedule information, contact the Athletic Ticket Office, 355-1610.

Athletic Facilities

Athletic facilities on the campus include the following.

- **Spartan Stadium**: football games and large outdoor meetings (355-1616).
- **Jenison Gymnasium and Field House**: basketball and indoor track (355-1610).
- **Demonstration Hall**: recreational ice skating and physical education courses.
- **Forest Akers Golf Courses**: 18-hole championship watered course with practice driving range and greens, and a nine-hole course (355-1635).
- **Intramural-Recreational Sports—West**: courts for paddleball, handball, squash, basketball, badminton, tennis, judo, volleyball; golf driving range, indoor and outdoor swimming pools; individual rooms for archery, table tennis, weightlifting; Sports Arena site for wrestling, gymnastics and fencing (355-5250).
- **Intramural-Recreational Sports—Circle**: three gymnasia for basketball, badminton, volleyball, and tennis; two swimming pools; activity rooms for gymnastics and dancing (355-4710).
- **Munn Arena**: intercollegiate hockey, intramural hockey, physical education hockey classes, skating and figure skating (353-7263).
- **John Kobs Field**: baseball diamonds, intramural sports field, golf green. South of Munn Arena, seats 5000 for baseball games.
- **Ralph Young Field**: outdoor track.
- **Soccer Field**: south of stadium.
- **Tennis Courts**: 40 surfaced courts south of stadium.
- **Duffy Daugherty Football Building**: adjacent to football practice fields, it is the central football headquarters.

Beal Botanical Gardens

Beal Botanical Gardens, the oldest (since 1873) continuously operated teaching facility of this type in the nation, is a six-acre garden containing more than 5,000 plant species organized in economic, systematic, landscape and ecological groupings. Located behind the main library, the garden has a self-guiding labeling system to aid visitors.
The Horticulture Gardens, next to the Student Services building, display floral arrangements of annuals, spring bulbs, perennials and roses.

Broadcasting Services

WKAR-AM (870) and WKAR-FM Stereo (90.5) provide educational, fine arts, and public service programming for faculty, students and the general public. WKAR-FM also presents a special broadcast service for the blind and physically handicapped via a subchannel, eight hours each day.

WKAR-TV (Channel 23) provides educational, general information and cultural programming to viewers.

Radio service for the residence halls consists of three members of the Michigan State Network (MSN). ABC news, state, local, and campus news, sports, and programs of interest to hall residents are broadcast by WBR, Brody; WMCD, serving McDonel, Holmes, Akers, and Hubbard halls, and WMSN, serving all other halls. Each station is at 640 on the AM dial.

Bulletin Office

More than 800 brochures on consumer buying, home, family and resources management, agricultural production, development and use of natural resources and public policy decision-making are available free or for a nominal charge from the Bulletin Office, 10 Agriculture Hall, 355-0240.

Canoe Livery

Canoes at the MSU livery are available from 11:30 a.m. to 10 p.m. during the week, and 10 a.m. to 10 p.m. on weekends. Located behind Bessey Hall on Farm Lane, the shelter charges $2.50 an hour for a canoe. For information, call 355-3397.

MSU Dairy Store

With tempting delicacies such as the world’s only chocolate cheese, smoked cheddar, and dagano cheese, the Dairy Store is a much-frequented stop. The 12 different types of cheese average about $2.40 a pound and are available in 20-pound blocks. Ice cream is available in chocolate, vanilla and "zebra" at $1.05 for a half gallon, and 50¢ for an eight-ounce cup or cone. Located in South Anthony Hall on Farm Lane, the Dairy Store is open from 11 a.m. to 4 p.m. Mondays through Fridays and until 5:30 p.m. on Thursdays. For information, call 353-1663.

Evening College

About 150 non-credit courses each year are held during the day and early evening hours for adults. Classes are taught by regular MSU faculty and guest lecturers. For information, call 355-4562.

Hidden Lake Gardens

This 670-acre landscaped arboretum located near Tipton includes more than six miles of paved roads and five miles of hiking trails to accommodate some 100,000 visitors annually. The Gardens include a conservatory, tropical dome, arid dome, temperate house and service house in which is displayed one of the finest plant collections in the United States.
Kresge Art Center Gallery

The Gallery houses a permanent collection of works from antiquity to the present and exhibits traveling collections and works of students and faculty. The Center is open to the public from 9:30 a.m. to 4:30 p.m. on Mondays, Wednesdays, Thursdays, and Fridays; Tuesdays 12 to 8 p.m., and Saturday and Sundays 1 to 4 p.m.

Lecture-Concert Series

Each year the series presents more than 65 programs featuring art and foreign films, travel films and some of the world's foremost organizations and figures of the concert hall, stage, and lecture platform. The 1981-82 schedule includes the Buffalo Philharmonic, director Julius Rudel; the Juilliard String Quartet; Itzhak Perlman, violinist; "The Romance of Vienna," of the World Travel Series, and many more.

MSU Libraries

The MSU Library contains more than 2,650,000 volumes, receives more than 22,000 serial titles regularly, and is divided into three main collections: Research, Undergraduate, and Science. The Science Library in the basement of the main library carries a large number of medical texts and reference books, as well as a Medline computer terminal.

In addition, the Conrad Library, located north of West Fee Hall, is open to medical students from 12:30 p.m. until midnight every day. The Conrad Library also offers medical texts and reference books, reserve options, study areas, and other materials.

The medical library at the Clinical Center is open 8 a.m. to 11 p.m. Monday through Thursday, 8 a.m. to 8 p.m. Friday, 11 a.m. to 5 p.m. Saturday and 1 p.m. to 11 p.m. Sunday.

Medline

A computerized bibliographical retrieval system, the Medline surveys more than 2,800 biomedical journals each month. Special cross-referencing allows retrieval of information by parameters such as diseases, age, sex and language. References are listed with the newest first, and can cover the last ten years. Charges are $10 for the initial search and $1 for each additional 20. Abstracts can also be obtained at a cost of $2.00 per 25 abstracts. For information call Janet Parsch, 355-2347 from 9 a.m. to 5 p.m. weekdays, or stop by the Clinical Center Library.

MSU Museum

The MSU Museum has three floors of anthropological, biological, geological and historical displays. The museum also houses research collections in anthropology, history, paleontology, and zoology, mostly obtained on field expeditions. Hours are from 9 a.m. to 5 p.m. Monday through Friday, and from 1 p.m. to 5 p.m. on weekends. Call 355-2370 for more information.

Musical Organizations

Concerts, recitals, opera, and oratorios are presented regularly by students and faculty from the Department of Music with no charge for
admission. **Instrumental organizations** on campus include the University Symphony Orchestra, the Chamber Orchestra, the Wind Ensemble, Symphonic Band, Concert Band, Marching Band, Spartan Brass, Repertoire Bands, and New Muscial Arts Ensemble.

**Vocal groups** include the University Chorale, State Singers, Women's Chorus, and the Singing Statesmen.

The **faculty** perform in the Beaumont Woodwind Quintet and in individual solo presentations.

**MSU Observatory**

The **observatory** houses a 24-inch reflecting telescope, computer, and related equipment for use by students and faculty in astrophysics. **Visual observation** through the telescope is available to the public on scheduled "open house" nights, usually from 10 p.m. to 12 a.m. the first and third Saturdays of the month. For information, call 353-9469.

**State News**

The **State News**, MSU's student daily, is the largest university newspaper in the United States in terms of general budget, number of pages, amount of news carried, and advertising. With a circulation of approximately 40,000 it reaches from 70 to 90% of the University community. Independent of the University administration, it is a corporation operated by a board of directors and a professional full-time newspaper general manager. The **State News**, a seven-time recipient of the Pacemaker Award for outstanding journalism, is a prime source of information on upcoming campus events. It is available in bins in all major campus buildings.

**Union Building**

The **Union Building** contains a barber shop, billiard room, bowling lanes, banquet rooms, grill, cafeteria, lost and found, a general store, art gallery, the ticket office for nonathletic events, and a U.S. post office.

Members of the **Student Union Programming Board** direct programs which include a ride bureau, flea markets, music programs, and art shows. The Board also offers support and resources to student organizations in the planning and development of activities. It is located in the Activities Office in the Union Building. For information, call 355-3460.

**University Theatre**

**Student-sponsored productions** under faculty supervision offer excellent entertainment at a modest cost, including Fairchild Theatre productions, musical productions in cooperation with the Department of Music, experimental productions, Children's Theatre, and the Arena Theatre. The **Performing Arts Company** is a group of professional artists pursuing graduate degrees and who compose the nucleus of MSU resident theatre.

Information on current University events can be obtained from the campus student newspaper **State News**, the calendar section of the **MSU News-Bulletin**, or by calling 353-4343 for a recorded highlight of activities.