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This special issue of the "Communique" for the 1979 entering class was published by the Health and Medicine Section of the Department of Information Services, A314 E. Fee, 353-0820.
1979 Entering Class of 115 Students Enrolls at MSU-COM June 18

One hundred and fifteen students—42 women and 73 men—will enroll June 18 as the 1979 entering class at Michigan State University College of Osteopathic Medicine.

First-term courses for the class, whose summer starting date is one of the earliest of the nation’s medical schools, include gross anatomy, biochemistry, medical histology, biological and historical foundations of osteopathic medicine, and comprehensive patient evaluation.

The new medical students will spend approximately 30 hours a week in classroom and laboratory, and another 30 to 40 hours weekly in independent study.

Twenty-five of the class members have earned their master’s degrees, and three their doctorates, in their premedical work. More than 80% of the students did their undergraduate work at 23 Michigan colleges and universities, with 40 having attended MSU. Though the majority of the degrees were in the sciences, other majors include education, music therapy, humanities, languages, and biomedical engineering.

Out-of-state institutions represented include the University of California, Rice University, Notre Dame, Otterbein and Vassar.

Twenty-eight percent of the class is of ethnic minority origin.

The class will be honored at the College’s ninth annual convocation in the fall. Presentation of the Walter F. Patenge Medals of Public Service, established in 1971 by the Michigan Osteopathic Medicine Advisory Board to recognize men and women excelling in health care, education and public service, will highlight the program.

Past Patenge award winners have included Theodore Cooper, former assistant secretary for health, Department of Health, Education and Welfare; Casper W. Weinberger, former secretary of HEW; Leonard Woodcock, U.S. envoy to China; and Florida Congressman Paul G. Rogers.

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—more than 3,000 at last census—are licensed in Michigan than in any other state in the union, and constitute more than 18% of Michigan’s physicians.

(continued)
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 professions, 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 56 programs at the Center have included the presentation of scientific papers and clinical programs. More than 2,600 physicians attended continuing medical education programs at Pontiac during 1978-79, receiving a total of more than 22,000 CME credits. Three national medical organizations also held their annual meetings at the Center.

There are 30 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 20 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 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, Anthropology, Biochemistry, Biophysics, Community Health Science, Microbiology and Public Health, Pathology, Pharmacology and Toxicology, Physiology, Psychiatry, Psychology, Radiology, Sociology, Zoology, the Office of Medical Education Research and Development, and the School of Medical Technology.

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 five years, top administrators for three 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, dean of the Texas College of Osteopathic Medicine; and Dr. Gerald Faverman, former acting dean of the Ohio College 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 College of Osteopathic Medicine at the New Jersey College of Medicine and Dentistry.

Colleges established before MSU-COM include the Kirkville College of Osteopathic Medicine (1892), the Philadelphia College of Osteopathic Medicine (1898), the College of Osteopathic Medicine and Surgery at Des Moines (1899), 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), and the Ohio College of Osteopathic Medicine (1976).

The New York College of Osteopathic Medicine, New York Institute of Technology, and the College of Medicine and Dentistry of New Jersey—New Jersey School of Osteopathic Medicine opened their doors to students in 1978. Two other schools—one in New England and one in California—have received preaccreditation status from the American Osteopathic Association.

Off-Campus Clinical Training Focus for Second- and Third-Year Students

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 second-year students in modules at the MSU Clinical Center, in affiliated hospitals, in physician-preceptor offices, and at the Family Medicine Clinic at Ingham Medical Center in Lansing.

Third-year students take four quarters of 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 Junior Partnership Program.

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

COM Preceptors Provide Professional Example for Students

One afternoon a week, first and second-year students from the College of Osteopathic Medicine leave their classrooms to observe practicing osteopathic physicians at work. The students are each assigned to either one of the COM preceptors or to one of the ambulatory care clinics supervised by faculty of the Department of Family Medicine. (continued)
The students receive this clinical training in a variety of settings that vary from inner city clinics to suburban or rural practices in communities as widespread as Grand Rapids, Flint, Detroit, Howell, Brighton, Lansing, St. Joseph, Lapeer, Mt. Clemens, and Pontiac. Prior to the students’ first rotations, they have completed a sequence of preparatory courses. At the beginning of each preceptorship course, the students and preceptors receive objectives which need to be achieved by the student. A follow-up debriefing seminar is scheduled each term on campus for the purpose of assessment, identification of problems or concerns and facilitation of remediation. Gordon Spink, D.O., Ph.D., and Margot Kurtz, Ph.D. are co-directors of the program.

Fee Hall Facilities

Media Services Provide Instructional Materials, Equipment

Students have ready access to a growing library of instructional media in the Carrell 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 Carrell Room, almost immediately. Individual students 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.

Clinical Simulation Laboratory Helps Students Develop Clinical Skills

The Clinical Simulation Laboratory, located in the basement of Fee Hall, is used by medical and nursing students as a learning facility to obtain early clinical experience in problem solving and training in clinical procedures. The 3,000-square-foot laboratory is staffed and administered by the College of Osteopathic Medicine. Earlier support was provided by MSU’s College of Human Medicine, School of Nursing, and Office of Medical Education Research and Development.

The outer laboratory is open from 9 a.m. to 5 p.m. weekdays, and the clinical area is open for scheduled learning experiences.

For students in osteopathic and allopathic medicine, the laboratory has been instrumental in supporting course work in pelvic and breast examinations, male genital history and physical examinations, and examination programs concentrating on the genito-urinary and gastro-intestinal systems. Facilities have also been used by students in two nursing programs.

Many of the medical simulations in the laboratory enable practice for perfecting injection skills, cardiopulmonary resuscitation and physical examination procedures.
Facilities include a simulator which broadcasts normal and abnormal heart sounds; head models, which, with slides inserted behind the eyes, show vision disorders and symptoms of other diseases; a simulated physician’s office with three examination rooms; and other models.

Simulated patients—trained to present any or all physical and emotional aspects of actual illnesses—often are presented in a supervised setting to train, give practice in and test skills of students.

Holly Holdman, M.A., who is a member of the MSU-COM educational resources staff, directs the simulated patient program.

Quiet Study Area Includes
Carrels, Journals, Microfiche

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

The area includes carrels equipped with slide projectors and tape recorders, microfiche readers, and a technicolor projector. Thirty to forty medical journals are available for student and faculty use in E-6, the Clinical Simulation Laboratory Room. It will be open the same hours as E-4.

Summer hours for the student area are:

- Mondays-Thursdays: 9 a.m. to 10 p.m.
- Fridays: 9 a.m. to 5 p.m.
- Saturdays: 12 p.m. to 5 p.m.
- Sundays: 2 p.m. to 8 p.m.

“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 invertebrate snackers, there is an ample supply of fresh fruit, pastries, chips, yogurt, ice cream and milk shakes.

The shop also offers an in-house catering service for luncheons or snacks, though advance notice is needed.

During summer term the Fee snack shop will be open from 7:00 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., assistant to the dean.

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

In developing the program, Guro utilizes 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 '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, centers of joint motion and motion of specific landmarks in the body. The tissue biomechanics laboratory consists of a specifically 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 Neurobiology Program, which spans a number of departments and colleges.

Pilot studies by College researchers are funded by seed monies from the College and NIH. Grants awarded since 1975 have increased ten-fold in new externally funded grants. A continuation NIH grant of about $30,000 will be distributed in the fall.

1978-79: A College Of Osteopathic Medicine Year in Review

June 1978

Twenty women and 71 men—members of the 1978 graduating class—were honored at hooding ceremonies in Fairchild Theatre.

The 1978 entering class of 110 students began classes June 19. The class had amassed a total of 145 degrees, including 32 masters and five doctorates, in their premedical work. More than 80% had attended one of 21 Michigan colleges and universities.

More than 100 persons attended the annual Neuromuscular Disease Symposium, held in conjunction with the Muscular Dystrophy Association at Kellogg Center.

Memorial Hospital of Owosso was affiliated with the MSU College of Osteopathic Medicine for clinical training of medical students.
July 1978

Sigma Sigma Phi osteopathic fraternity sponsored a university-wide blood drive in Fee Hall, resulting in 108 pints donated to the Red Cross.
Dean Myron S. Magen was elected to the Medical Perspective Selection Committee of the National Fund for Medical Education.

August 1978

Volunteer physicians and medical students from the College of Osteopathic Medicine provided medical care for migrant farm workers at a church-basement clinic in St. Johns.
H. T. Tien, Ph.D., professor of biophysics, was named chairman of the Department of Biophysics.
The MSU-COM Carcinogenesis Laboratory received a contract from the Department of Energy to investigate the cancer-causing effects of low-level pollution from coal-burning.
An international five-day course on manual medicine was held on campus for M.D.s, D.O.s, and licensed physical therapists.

September 1978

The second annual Symposium on Research on Mental Health in Michigan was held at Kellogg Center for Continuing Education.

October 1978

David E. Rogers, M.D., president of the Robert Wood Johnson Foundation, presented the keynote address at the eighth annual convocation of the College of Osteopathic Medicine. The Walter F. Patenge Medals of Public Service were presented to Rogers, Frank Merriman, a former member of the MSU Board of Trustees, and Lawrence W. Mills, a former executive of the American Osteopathic Association.
MSU established a Center for Environmental Toxicology.
Harvey V. Sparks, M.D., a member of the University of Michigan faculty since 1966, was named chairman of MSU's Department of Physiology effective December 1.
A Department of Pediatrics, the first new solely administered department in the College of Osteopathic Medicine since its inception, was approved by the MSU Board of Trustees.

December 1978

The Accreditation Team of the American Osteopathic Association made a three-day site visit to MSU-COM.

January 1979

The Food and Drug Administration approved cisplatin, an anticancer drug developed by Barnett Rosenberg, professor of biophysics, for use by physicians. The drug was proved effective for testicular and other forms of cancer.
Dean Magen was named to head a panel of the Graduate Medical Education National Advisory Committee of the Department of Health, Education and Welfare.
Five MSU-COM faculty were named to national office of their osteopathic specialty organizations.
February 1979

A $1 million mass spectrometry facility was opened in the Biochemistry Building for regional and national assay of complex chemicals.

March 1979

The second annual Pediatrics Conference and the first of annual seminars on pain were sponsored by MSU-COM at Kellogg Center for Continuing Education.

The Council of Medical Students, a representative government for students from all three medical schools, was established.

Numerous MSU-COM faculty participated in the ACA's annual research conference.

April 1979

A major continuing medical education program on nutrition was sponsored by Sigma Sigma Phi at the Michigan Center for Continuing Education in Osteopathic Medicine.

Five faculty from the MSU College of Osteopathic Medicine were among nine persons from the United States presenting papers at the international congress on manual medicine, held in Baden-Baden, West Germany.

Millie Lane, reporter for the Lansing State Journal, is the 1979 national winner of the American Osteopathic Association Journalism Award. She was honored for a series of articles, distributed nationally, on the MSU College of Osteopathic Medicine and on manipulative medicine.

Representatives from 23 hospitals in the midwest met with third-year students to discuss opportunities for internships at the Internship Information Day.

May 1979

Alumni and friends of the MSU College of Osteopathic Medicine gathered for a luncheon at the annual convention of the Michigan Association of Osteopathic Physicians and Surgeons.

The first annual James M. Schwinghamer Memorial Lecture was given by Harvey V. Sparks, M.D., chairman of the Department of Physiology. Schwinghamer was a faculty member in the department for many years.

The College's annual cathartic entertainment, the Fee Follies, was held in the Union Ballroom.
Medical Schools—Fee Hall

Fee Hall EAST Main Lobby Phones: Campus Phone 3-6742  Pay Phone 351-9793

College of Osteopathic Medicine
   Office of the Dean          A308  5-9611
College of Human Medicine
   Office of the Dean          A118  3-5070
College of Veterinary Medicine
   Office of the Dean          A133  5-6509
Academic Affairs COM         A309  5-9611
Admissions COM               C110  3-7740
Alumni Information COM       A333  3-8822
Anatomy Department           A519  3-6380
Anatomy Photo Lab            C 19  3-4544
Anatomy Learning Center      E102  5-4717
Biomechanics                 A419  3-9110
Business Office COM          A302  3-5470
Carcinogenesis Lab COM       B617  3-7786/7
Carrell Room COM             E  4  3-0752
Child Psychiatry             B115  5-4456
Community Affairs COM        A306  3-6730
Community Health Sciences   B415  3-3200
Computer Service COM         A327  3-6669
Copy Center                   E111  3-6667
Counseling & Growth Center   B111  3-5260
Educational Resources COM    A331  3-4734
Electron Microscopy Lab COM  C 18  5-1698
Faculty Development COM      A336  3-7285
Family Life Referral Clinic  B101  5-5763
(Psychiatry)
Family Medicine Dept.        B201  3-4730
Fee TV COM                    C 12  5-4546
Info. Serv./Hlth. & Med. Sec. A314 3-0820
University Center for Int'l  D201 5-1824
   Rehabilitation
Lab Animal Care Service      C 10  3-9651
Mail Room                    E113  3-2242
Medical Humanities           C215  5-7550
Microbiology Lab             E216  3-4605
Microbiology Office          B517  3-5268
Minority Affairs COM         A322  5-9609
OMERAD                        A217  3-7791
Osteopathic Medicine Dept.   B301  3-8470
Pathology Chmn                A522  5-6504
Pathology                    A622  3-9160
Planning COM                  A310  5-9611
Psychiatry Chmn               A222  3-4361
Psychiatry                    A227  3-9242
Radiation Safety             D  9  5-0153
Research COM                  A322E 3-1781
Simulation Learning Ctr COM  E  4  3-0752
Simulation Learning Lab COM   E  6  5-0361
Student Affairs COM           A339  3-7741
Unit III Office               A317  3-8823
Willed Body Program (Anatomy) C203  3-5398
West Fee Apt. Mgr.            D131  3-1990
Snack Shop                    E  5  3-1995

NOTE: The Fee Hall Complex (East AND 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.

CELIA B. GURO, Ph.D., assistant to the dean: handling of administrative matters, heading faculty development programs, and responsibility for college-wide functions such as self-study and retreats.

PHILIPP GERHARDT, Ph.D., associate dean for research and graduate study: development and administration of those areas in the College and for the profession, attainment of external grant support, and establishment of laboratory research capabilities.

PHILIP E. GREENMAN, 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; responsibility for all-College (OST) interdisciplinary courses; liaison for decentralized clinical faculty and the campus-based College programs, including supervision of affiliation agreements with community hospitals.

ROBERT R. FEDORE, Ph.D., assistant dean for student affairs: administration of all student support services tangential to the academic program of 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.

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. He also represents the College as a professional resource to community agencies and groups involved in health care delivery or community health development.

BRUCE L. MILES, Ph.D., acting assistant dean for educational resources: supervises academic support for faculty, students and the Curriculum Committee, including audiovisual service, instructional development, scheduling, student evaluation and program evaluation.
DONALD E. McBRIEDE, D.O., assistant dean for graduate and continuing medical education: planning and implementation of graduate and continuing medical education programs of the College. Also, coordinator, undergraduate clinical medical education.

FRED C. TINNING, Ph.D., assistant dean for planning: planning for the College's program operation, including program budget, fiscal planning and projection, program and resource development and utilization, program analysis, including costs assessment, computer utilization, and basic systems assessment.

FRANCIS A. BERNIER, Ph.D., 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.

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

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.

ROBERT C. WARD, D.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.

GORDON SPINK, D.O., Ph.D., unit three coordinator: coordination of clinical clerkships, liaison with directors of medical education in affiliated hospitals, and liaison of Unit III students.
Student Organizations

Student Osteopathic Medical Association

A new 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.

Sigma Sigma Phi

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

A primary goal of the chapter is service through community health programs. Activities sponsored by the fraternity have included a continuing medical education nutrition symposium focusing on the major nutritional problems encountered by a general practitioner, a Red Cross blood drive and numerous seminars. 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 1979-80 school year are Jim Hess, president; Cindy Manninen, vice-president; John Peters, secretary; Clarita Ketels, treasurer; and Carl Harlan, editor.

Grand chapter president Roy J. Harvey, D.O., professor of family medicine, 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 evening workshops on balancing gravitational stress, patient-doctor communication, polarity therapy, muscle energy, nutrition and iridology. On-going study groups were held in OMT, cranial manipulation and muscle energy.

Co-presidents of the UAAO for 1979-80 are Valerie Overholt and Sister Anne Brooks; treasurer is Clarita Ketels. Advisor is Robert C. Ward, D.O., director of special projects and professor in the Office of Medical Education Research and Development.
Michigan Association of Osteopathic General Practitioners

The MSU-COM student chapter of the Michigan Association of Osteopathic General Practitioners (MAOGP) was organized to promote a greater awareness and appreciation of general practice, and is open to all osteopathic students. Student-planned events for the past year have included seminars on how to deal with various emergency room situations, as well as sessions on evaluating emergencies in the field. These activities are in addition to the programs offered by the state MAOGP to which all students are invited.

Officers for 1979-80 are Judy Annen and Tom Turcotte, co-presidents; and Pattie Roy, 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 club, made up primarily of spouses of students, participates in various service projects, holds educational and informational monthly programs and organizes various social functions.

Activities have included an annual orientation program for spouses of new students, a discussion on dealing with stress, cooperation with the Ingham County Auxiliary on their Christmas service project, educational programs on the osteopathic profession, The Vial of Life and social events.

Officers for 1979-80 include Pam Sherrill, president; Sue Norton, vice president; Andrea Friedman, treasurer; Barbara Galameau, recording secretary; and Diana Morgan, corresponding secretary.

Clinical Departments Provide Basis for Medical School Education and Service

Four 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.  Robert W. Little, Ph.D.
Jean B. Burnett, Ph.D. Andrew S. Mackenzie, D.O.
John P. Goodridge, D.O. David G. McConnell, Ph.D.
Philip E. Greenman, D.O. Fred L. Mitchell Jr., D.O.
Richard Halgren, Ph.D. Ernest Retzlaff, Ph.D.
Robert P. Hubbard, Ph.D. Herbert M. Reynolds, Ph.D.
William L. Johnston, D.O. Richard Roppel, Ph.D.
Jon J. Kabara, Ph.D.  John Upledger, D.O.
Eloise Kuntz, Ph.D.  Ronald Young, Ph.D.
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.

Margaret Ajunwa, D.O.          Lon A. Hoover, D.O.
John Bell, D.O.                 Shirley M. Johnson, Ph.D.
Lynn F. Brumm, D.O.             Margot Kurtz, Ph.D.
Gary Campbell, D.O.             John McNeil, D.O.
James J. Davis, D.O.            L. A. Marohn, D.O.
Nicholas Fiel, D.O.              Gordon Spink, D.O., Ph.D.
Richard E. Griffin, D.O.        John Thornburg, D.O., Ph.D.
Roy J. Harvey, D.O.             Donald E. Waite, 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:

William Carnegie, D.O.          Ralph Otten, D.O.
John Constantino, D.O.          Richard Redfearn, Ph.D.
Howard Dean, D.O.               George Ristow, D.O.
John Gobet, D.O.                Herbert Ross, D.O.
Earl Gonyaw, D.O.               Joseph Walczak, D.O.
Walter Mill, D.O.

Department of Pediatrics

The Department of Pediatrics departmental office is located in B301 West Fee Hall; phone 353-3100. Department acting chairman is Bernard M. Kay, D.O. Resident faculty include:

Kenneth Mahoney, D.O.
Frank Schneiderman, D.O.
Lloyd Schneiderman, D.O.
Kenneth Stringer, 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 353-3200. Chairman is Sidney Katz, M.D. Resident faculty include:

- Cyril A. Akpom, M.P.H., M.D.
- Francis A. Bernier, Ph.D.
- Mary L. Brady, M.S.S.
- Michael H. Branson, Ph.D.
- Elaine Breck, M.P.H.
- Dorothy Carnegie, D.O.
- Anne C. Cunningham, Ph.D.
- James M. Davis, M.P.H., M.D.
- Bonnie Eftaxiadi, M.S.W.
- Wanda Dean, Ph.D.
- Jean Elder, Ph.D.
- 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.
- Sidney Katz, M.D.
- William J. Klein, M.D.
- Kathryn M. Kolasa, Ph.D.
- Mary H. Kroger, R.S.M., Ph.D.
- James Lyon, M.P.H.
- Donna Manczak, 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.
- Elianne K. Riska, Ph.D.
- George F. Sargent, Ph.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.

**Department of Pathology**

The Department of Pathology departmental office is located in A522 E. Fee Hall; phone 355-6504. Chairman is R. W. Leader, D.V.M. Resident faculty include:

- Thomas G. Bell, D.V.M., Ph.D.
- Rexford E. Carrow, Ph.D.
- Kathryn Colando, M.T., M.S.
- James Collins, D.V.M.
- Wanderly C. de Mendonca, M.D.
- John F. Dunkel, M.D.
- Robert Dunstan, D.V.M.
- Jerome Gass, D.V.M.
- Clay Hodging, 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 K. Keahey, D.V.M., Ph.D.
- Janver D. Krehbiel, D.V.M., Ph.D.
- Robert F. Langham, D.V.M., Ph.D.
- Robert W. Leader, D.V.M.
- W. Wesley Leid, Ph.D.
- Stuart Levin, D.V.M., Ph.D.
- Lynn Maedel, M.T., M.S.
- Joan C. Mattson, M.D.
- George A. Padgett, D.V.M.
- Edward Powser, M.D.
- Charles H. Sander, M.D.
- Vance L. Sanger, D.V.M.
- Shirley Siew, M.D.
- Stuart D. Sleeht, D.V.M., Ph.D.
- Steven Stockham, D.V.M.
- Flint Taylor, D.V.M.
- Martha T. Thomas, M.T., M.S.
- Morrow Thompson, D.V.M.
- Allan L. Trapp, D.V.M., Ph.D.
- Harold W. Tvedten, D.V.M., Ph.D.
- Glenn L. Waxler, D.V.M., Ph.D.
- Roger Wells, D.V.M.
- Charles K. Whitehair, D.V.M., Ph.D.
- Christine William, B.V.Sci.
Department of Psychiatry

The Department of Psychiatry departmental office is located at A222 E. Fee Hall; phone 353-9242. Chairman is Norbert Enzer, M.D.

Resident faculty include:

William Anderson, M.D.
Joseph Anfield, M.D.
Arnold Berkman, Ph.D.
Claire Fleet Berkman, Ed.D.
Teresa Bernardes, M.D.
Robert Bielski, M.D.
Gaston Blom, M.D.
Daniel Bronstein, S.J.D.
Alfred Ching, M.D.
Alan Cooper, M.S.W.
Ronald Dirkse, M.D.
Harold Drane, M.S.S.A.
Bonnie Eftaxiadis, M.S.W.
Eleanor Fox, M.N.
Griffith Freed, Ph.D.
Alan Friedman, Ph.D.
David Gordon, Ph.D.
Thomas Gunnings, Ph.D.
Mark Hershaw, M.D.
Norman Kagan, Ph.D.
Rodger Kobes, M.D.
Henry Krystal, M.D.
Janet Ledger, M.S.W.
Peter Manning, Ph.D.
John F. Nielsen, A.C.S.W.
Gerald Osborn, D.O.
Louis Post, Ph.D.
Melvin Reinhart, M.D.
Lionel Rosen, M.D.
David Roth, Ph.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.
Paul Todd, M.D.
Larry 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.S.
Steven Young, M.D.
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:

James E. Blackwell, M.D.
James W. Gard, Ph.D.
David Gift, M.S.
Thomas S. Harle, M.D.
Gale L. Harris, Ph.D.
John H. Harris, M.D.
Mary M. Leeman, M.A.
Andrew S. Mackenzie, D.O.
E. James Potchen, M.D.
Don K. Reinhard, Ph.D.
William R. Schonbein, M.S.
Arlene Sierra, A.R.R.T.
Other Departments and Units

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

Department of Anthropology
    Bernard Gallin, Ph.D.  354 Baker  353-2950

Department of Biochemistry
    Robert Barker, Ph.D.  212 Biochem  355-1600

Department of Biophysics
    H. Ti Tsien, Ph.D.  128 Chemistry  353-0810

Office of Medical Education Research and Development
    Arthur Elstein, Ph.D.  A217 Fee  353-7791

Medical Humanities Program
    Andrew D. Hunt, M.D.  C215 Fee  355-7550

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

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

Department of Pharmacology and Toxicology
    Theodore M. Brody, Ph.D.  B440 Life Sciences  353-7145

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

Department of Psychology
    John H. Wakeley, Ph.D.  109 Olds  355-9561

Department of Sociology
    Jay W. Artis, Ph.D.  201 Berkey  355-6640

Department of Zoology
    James W. Butcher, Ph.D.  203 Nat. Sci.  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 on the campus.

More than 200 registered student organizations provide outlets for common interest and hobbies 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 noon and 1 p.m. to 4:30 p.m. For information, call 355-4672.
Athletic Activities

Michigan State University men compete in 14 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 24 team and 44 individual intramural sports activities in which every student may participate. There are 32 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 (355-1610).
—Demonstration Hall: recreational skating and physical education courses (353-7263).
—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).
—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.
—Ralph Young Field: outdoor track.
—Soccer Field: south of stadium.
—Tennis Courts: 40 surfaced courts south of stadium.
—Intramural-Recreational Sports—Circle: three gymnasiums for basketball, badminton, volleyball, and tennis; two swimming pools; activity rooms for gymnastics and dancing (355-4710).

Beal Botanical Gardens

The oldest (since 1873) continuously operated teaching facility of this type in the nation, the six-acre garden contains more than 5,000 plant species organized in economic, systematic, landscape and ecological groupings. A self-guiding labeling system aids garden visitors.

Broadcasting Services

WKAR-AM (870) presents news, public affairs, information and discussion and programs of interest to minorities.
WKAR-FM STEREO (90.5) offers programs of the fine arts, opera, concerts, serious music, and special programs for the visually and physically handicapped.
WKAR-TV (Channel 23) provides educational, general information and cultural programming to viewers.
Bulletin Office

More than 500 titles 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 a.m. to 11 p.m. during the week, and 10 a.m. to 11 p.m. on weekends. Located behind Bessey Hall on Farm Lane, the livery charges $1.25 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 $1.85 a pound and are available in 20-pound blocks. Ice cream is available in chocolate and vanilla at $1.50 for a half gallon, and eight-ounce yogurt is 40¢. Located in South Anthony Hall on Farm Lane, the Dairy Store is open from 11 a.m. to 3:30 p.m. Mondays through Fridays and until 5:30 p.m. on Thursdays. For information, call 353-1663.

Evening College

A program of more than 170 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 landscape 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 a.m. to 5 p.m. weekdays, Tuesdays 7 to 9 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 1979-80 schedule includes the Elliot Field Ballet, the Juilliard String Quartet, the Moscow State Symphony Orchestra, the Black Watch, pianist Murray Perahia and many more.
MSU Libraries

The MSU Library contains more than 2,200,000 volumes, receives more than 25,000 current serials, and adds nearly 100,000 volumes to the collection each year. 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 noon to 9 p.m., Sunday through Thursday. The Conrad Library also offers medical texts and reference books, reserve options, study areas, and other materials.

The medical library at the Clinical Center will be open 9 a.m. to 5 p.m. weekdays.

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 first 50 references and $1 for each additional 50. For information call Janet Parsch, 353-3037, from 9 a.m. to 5 p.m. weekdays, or stop by the Clinical Center Library or the Science Section of the Main Library.

MSU Museum

Now open to the public, the MSU Museum has three floors of anthropological, biological, geological and historical displays. An emporium of gifts from many lands is open to the public at the Museum entrance. 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, Jazz Bands, and New Musical Arts Ensemble.

Vocal groups include the Mixed Chorus, State Singers a cappella choir, University Chorale, Men’s Glee Club and Women’s Glee Club.

The faculty perform in the Beaumont String Quartet, the Richards 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. Open houses are usually scheduled 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 percent 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 houses a barber shop, billiard room, bowling lanes, browsing room, grill, cafeteria, meeting and catered food service rooms, the ticket office for nonathletic events, and a U.S. Post Office.

The Union Activities Board plans events such as the Players' Gallery, Campus Wide Video, Showcase Jazz, Concerts, Artists in Residence, Films, Travel, Four Corners Coffeehouse, and other special projects. 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.