COM HOODING CEREMONIES TO
BE HELD FRIDAY, JUNE 10

Twenty-four women and 59 men will be eligible to participate in the 1977 College of Osteopathic Medicine hooding ceremonies, to be held at Fairchild Theatre on Friday, June 10.

The program will begin with a 3 p.m. processional marshaled by William Johnston, D.O., professor of biomechanics. Welcoming remarks will be made by Robert R. Fedore, Ph.D., assistant dean for student affairs, and Myron S. Magen, D.O., Dean.

Guest speaker for the ceremonies will be former MSU-COM faculty member Samuel H. Black, Ph.D., now chairman of the Department of Microbiology and Immunology at the College of Medicine at Texas A & M University.

Student awards to be presented will include the Fred L. Mitchell Memorial Award, the Sandoz Award for Excellence in Psychiatry, the Upjohn Achievement Award, the Richard L. Alper Memorial Award for Community Service, and the Judith K. Weiswasser Memorial Award for the Outstanding Woman Graduate.

Remarks and presentations of faculty awards will be made by Frederick A. Schaller, president of the Class of 1977.

Candidates will be introduced by Philip E. Greenman, D.O., associate dean for academic affairs, and hoods presented by Ralph F. Otten, D.O., associate professor of osteopathic medicine, and Maria J. Patterson, Ph.D., assistant professor of microbiology and public health.

The ceremonies will be completed by the recitation of the osteopathic oath and the graduates' and faculty recessional.

A reception will follow in the Big Ten Room of Kellogg Center.

Hooding ceremonies were planned by a committee which included Dr. Fedore, Mary Anderson, administrative assistant, Student Affairs; Helen Head, administrative secretary, Office of the Dean; Sandra Kilbourn, M.A., coordinator for continuing education; Dot Thullen, office assistant, Academic Affairs; and students Raymond Kania and Frederick A. Schaller.
Students eligible to participate in the hooding ceremonies include those graduating from March 1977 through June 1978. These are:

Nicholas A. Abid, Jr.  
B.S., Michigan State University

Glendora Chambers  
Temple University School of Nursing

Robert M. Acosta  
B.A., University of the Pacific

Barbara Chapman  
B.S., Michigan State University

Mary Alonzi  
B.S., University of Detroit

Gregory S. Collins  
M.S., Michigan State University

Walter Ambrose  
M.S.E.E., University of Pittsburgh

B.S., Michigan State University

Joseph N. Cook  
B.S., University of Michigan

Robert H. Amsler  
B.S., Michigan State University

Sandra C. Corp  
B.A., Kalamazoo College

Linda Beth Benaderet  
B.S., University of Michigan

Otis Leon Crawford  
M.S., University of Washington

Edna Bick  
B.S., Alma College

B.A., Carroll College

Brent L. Bingham  
M.S., Michigan Technological University

George N. Darah  
B.S., The Ohio State University

B.S., Webster State College

John S. DeMare  
Ph.D., University of Michigan

B.S., Wayne State University

Edward D. Boudreaux  
B.S., Bates College

B.S., Wayne State University

Arthur I. Bouier, Jr.  
B.S., Michigan State University

Frances DeMattia  
B.S., Wayne State University

Thomas J. Bouwkamp  
B.S., Michigan Technological University

Lorane M. Dick  
B.A., Northwestern University

Thomas H. Brand  
B.A., Michigan State University

Robert W. Dorr  
B.A., Albion College

David Breazeale  
B.S., Michigan State University

Reuben Eliuk  
B.S., Loma Linda University

Albert Brosky Jr.  
B.A., Wayne State University

Mitchell Elkiss  
A.B., University of Michigan

Bruce K. Call  
B.S., Michigan State University

Marion Gamble  
B.S.N., Wayne State University

Michael Carson  
B.S., Duke University

Irwin J. Gastman  
Ph.D., University of Michigan

B.S., University of Texas at El Paso

M.S., City College of New York

B.S., City College of New York
James Haley  
M.S., University of Michigan  
M.S., Stanford University  
B.S.E., University of Michigan

James Hamilton  
M.S., Michigan State University  
B.S., Mississippi Vocational College

Shirley Harding  
B.A., Michigan State University

Steven Hartz  
B.S., Adrian College

Gerald Jay Hausler  
B.S., Rensselaer Polytechnic Institute

Robert A. Henry  
M.S., Eastern Michigan University  
B.A., Eastern Michigan University

Joslyn M. Hubacher  
B.S., University of Detroit

Sonnora Johnson  
B.S., C. W. Post College

Charles M. Jones  
Ph.D., University of Wisconsin  
B.S., Purdue University

Algirdas A. Juocys  
B.A., Wayne State University

Mary-Janet Kachmarisky Knapp  
B.S., Michigan Technological University

Raymond E. Kania  
B.A., Columbia University

Dennis Kiely  
B.S., Michigan State University

Jeffrey Kommitt  
B.S., University of Michigan

Barton Michael Lev  
B.A., Brandeis University

Jorge David Luna  
B.S., Aquinas College

Ronald Marino  
M.P.H., University of Oklahoma  
B.S., State University of New York  
at Brockport

Muriel A. Marshall  
B.A., Taylor University

Ronald McIver  
B.A., University of Wisconsin at Madison

Andrew L. Messenger  
B.S., Michigan State University

Loretta M. Miller  
B.S., University of Wisconsin at Green Bay

Sara Jane Myers  
B.S., Central Michigan University

Seldon R. Nelson  
Ph.D., University of Michigan  
B.S., Ferris State University

Reginald E. O'Neal  
B.S., Michigan State University

James R. Pasterz  
B.S., Aquinas College

Gregory Petersburg  
B.S., Michigan State University

William W. Phillips  
B.A., Amherst College

C. Scott Pursley  
B.A., Oakland University

Donald Ramsay  
B.A., Western Michigan University

G. Scott Renton  
B.S., Central Michigan University

Ruth Robinson  
A.B., University of Michigan

John William Rowda  
B.S., Michigan State University

Joseph G. Sage  
B.S., Aquinas College
MSU PHYSICIANS TO PROVIDE MEDICAL CARE FOR MICHIGAN PRISONERS

A $327,000 contract for Michigan State University physicians to provide medical care to inmates at the State Prison of Southern Michigan in Jackson and to teen-age prisoners at three correctional facilities in Ionia was approved May 27 by MSU's Board of Trustees.

The agreement with Michigan's Department of Corrections covers medical care for some 8,500 inmates, and follows a pilot health care project for teenage prisoners provided by MSU adolescent medicine specialists.

The MSU/Department of Corrections contract calls for hiring three general practice physicians, two psychiatrists, and at least one additional adolescent medicine specialist, all with joint appointments to the MSU medical faculties.

The MSU program also involves education of D.O. and M.D. medical students and residents in the University's College of Osteopathic Medicine and College of Human Medicine. They will receive training in pediatrics, primary care, family practice, internal medicine and adolescent medicine.
WALTER C. MILL, D.O. TO
HEAD OSTEOPATHIC MEDICINE

A former president of the Colorado Osteopathic Association, Walter C. Mill, D.O., was named chairman of the Department of Osteopathic Medicine by the MSU Board of Trustees at its meeting April 22.

Dr. Mill has been a general surgeon in Denver for 26 years. His appointment in the College of Osteopathic Medicine was effective May 1.

A senior member of the American College of Osteopathic Obstetricians and Gynecologists, Dr. Mill is also a member and fellow of the American College of Osteopathic Surgeons and a diplomate of the American Osteopathic Board of Surgery.

His numerous professional activities include gubernatorial appointments to Colorado's Comprehensive Health Planning Council, and Medical Advisory Committee to the Social Service Department.

Dr. Mill received the doctor of osteopathy degree in 1950 from the College of Osteopathic Medicine and Surgery, Des Moines, and the bachelor of science in medicine from the University of Missouri in 1943. He took his internship and a four-year preceptorship in general surgery at Rocky Mountain Osteopathic Hospital, Denver.

He served four years on active duty and seven years in active reserve for the Army Medical Service Corps.

HERBERT E. ROSS, D.O.
APPOINTED TO OSTEOPATHIC MEDICINE

HERBERT E. ROSS, D.O., has been appointed as professor of osteopathic medicine.

A certified orthopedic surgeon, Dr. Ross has been teaching in College programs since 1973.

He received the D.O. degree from Kirksville College of Osteopathic Medicine in 1964, and took his internship and residency training at Grandville Hospital, Dayton, Ohio.

Dr. Ross holds positions as attending orthopedic surgeon in Lansing General Hospital, Ingham Medical Center, Traverse City Osteopathic Hospital, Olin Health Center, and Sparrow Hospital.

He is a member of the American Osteopathic Association, the American College of Osteopathic Surgeons, and the American Osteopathic Academy of Orthopods.
LON A. HOOVER, D.O., NAMED TO FACULTY OF FAMILY MEDICINE

Lon A. Hoover, D.O., who has been in private practice at Tacoma, Washington, since 1957, has been appointed an associate professor family medicine.

Dr. Hoover received the D.O. degree from the Chicago College of Osteopathic Medicine 1956, and took an internship at Clare General Hospital in 1957.

He has held many offices in osteopathic organizations, including the presidencies of the Washington Osteopathic Medical Association and the American Academy of Osteopathy. Dr. Hoover has also been active as a guest lecturer and in continuing medical education.

NEUROMUSCULAR DISEASE SYMPOSIUM HELD AT MSU JUNE 3

The diagnosis, treatment and research on nerve and muscle disorders were featured in presentations by nationally recognized speakers at the fifth annual Neuromuscular Disease Symposium held at Michigan State University Friday, June 3.

A half-day workshop on muscle biopsies for physicians and histotechnologists followed on June 4.

Both events were held at MSU's Kellogg Center for Continuing Education.

Topics ranged from electrophysiological, biochemical and biopsy techniques for diagnosis to recent advances in research in the area.

Faculty for the seminar included Peter Berman, M.D., Children's Hospital of Philadelphia; Rexford Carrow, Ph.D., MSU; Denise Craft, MSU; Peter Dyck, M.D., Mayo Clinic; Zvi Hart, M.D., Children's Hospital of Michigan; Max K. Newman, M.D., Muscular Dystrophy Association; Michael A. Nigro, D.O., Muscular Dystrophy Association; Frederick J. Samaha, M.D., University of Cincinnati; Irwin M. Siegel, M.D., University of Illinois; Jerry Simmons, M.D., MSU; Denise Stanke, MSU; Austin Summer, M.D., University of Pennsylvania School of Medicine; and Barbara Wheaton, MSU.

The symposium is sponsored annually by the Greater Detroit-Southeastern Michigan Chapter of the Muscular Dystrophy Association in cooperation with MSU's College of Osteopathic Medicine and Continuing Education Service.

JULY BLOOD DRIVE SCHEDULED FOR FEE HALL

A blood drive in Fee Hall is being planned for July 13 by members of Sigma Sigma Phi osteopathic fraternity and the American Red Cross Great Lakes Regional Blood Center.

The drive, tentatively scheduled for 11 a.m. to 5 p.m., will include an educational program on the processing and uses of blood.

A minimum of 75 pledges to donate blood are necessary to insure Red Cross participation, according to Wanda Kalencki, first year student and drive coordinator. To pledge, please contact her personally or drop a note in her mailbox (#469).
MICHIGAN MEDICAL SCHOOLS
PLAN NETWORK TO SHARE
EDUCATIONAL RESOURCES

Michigan's four medical schools have received $57,898 to plan and develop a network for sharing their educational resources.

The two-year grant from the National Fund for Medical Education was made to the Michigan Medical Schools Council of Deans, representing Michigan State University's College of Osteopathic Medicine and College of Human Medicine, University of Michigan Medical School, and Wayne State University's School of Medicine.

Their consortium network to share educational resources will be designed to improve course development and evaluation, to eliminate duplication, and to help reduce costs of medical education, according to the project's director, J. Thomas Parmeter, Ph.D., head of Michigan State University's office of curriculum implementation and associate professor of medical education, research and development.

The project calls for emphasis on planning and demonstration, building upon an already existing computer network between the four medical schools.

Objectives include defining the common elements of a computer-assigned system and implementing a pilot educational resource sharing system.

"In the near future," Dr. Parmeter said, "it is possible to envision a medical educator at one of Michigan's four medical schools sitting at a computer terminal and putting together a course of study which utilizes the learning objectives, readings, and test items from the other three medical schools."

Eventually, students from any of the state's medical schools may have entirely individualized programs of study, including testing, which are managed by a centrally administered educational resource computer system.

"The program in the long run should prove immensely valuable to all concerned, and may produce some unexpected benefits," said Ruth Lezotte, Ph.D., director of curriculum planning at the College of Osteopathic Medicine.

Dr. Lezotte said she was "pleased that the program reinforces many of our efforts in curriculum planning and discipline analysis, particularly in the further development and refinement of the systems courses. We have been working to develop a test-item pool, and this program will be especially effective for this project."

Associate director of the project is Sui-Wah Chan, Ph.D., Michigan State University associate professor of medical education, research and development.

Others associated with the medical education resources network are Allen Jacobs, Ph.D., assistant dean for educational resources, MSU College of Osteopathic Medicine; Dr. Charles Votaw, associate dean for curriculum, and Dr. James V. Griesen, director of educational resources and research, University of Michigan Medical School; and Dr. Charles Jeffries, assistant dean for curriculum, and Dr. Richard E. Gallagher, director of educational services and research, Wayne State University School of Medicine.

The Michigan Medical Schools Council of Deans, launched in 1970 to develop cooperative programs between the four medical schools (located in Ann Arbor, East Lansing and Detroit), counts among its achievements a five-year federally funded state-wide preceptorship program.
FINAL PLANNING UNDERWAY FOR MSU'S INTERNATIONAL WORKSHOP
ON MANIPULATIVE THERAPY IN OCTOBER

Confirmation of speakers and program is nearly complete for the International Workshop on Neurobiologic Mechanisms in Manipulative Therapy to be held at MSU October 23-26.

The first of three proposed workshops, the session has been funded by a $39,000 grant from the National Institute of Neurological and Communicative Disorders and Stroke.

The proceedings of the invitational workshop, including presented papers and edited discussions, will be published in book form by Pernum Press early next year.

Speakers include eminent scientists from the United States, Canada, England, Australia, Czechoslovakia, Sweden and Switzerland, who will discuss the application of present knowledge to manipulative therapy, present research needs, and plan for future research.

Research and clinical data will be presented by 37 osteopathic and allopathic physicians, chiropractors and scientists to present both the objective and subjective factors surrounding manipulative therapy.

According to project director Irvin M. Korr, Ph.D., professor of biomechanics, the first workshop will explore the role of the nervous system in health and disease, especially as a communicating structure between the musculoskeletal and other body systems.

Proposed for 1979, the second workshop will deal with the effects of body fluid flow changes, and the third, in 1981, will explore the effects of musculoskeletal system on other body systems.

The planning committee includes Dr. Korr; Thomas Adams, Ph.D., professor of physiology; Martin Balaban, Ph.D., professor of zoology; James Cunningham, D.V.M., Ph.D., associate professor of physiology, small animal surgery and medicine and the African Studies Center; Philip E. Greenman, D.O., associate dean for academic development; Horace W. Maquinn, Ph.D., professor emeritus, Department of Psychiatry, School of Medicine, University of California at Los Angeles; and Sidney Ochs, Ph.D., professor, Department of Physiology, Indiana University School of Medicine.

Other MSU workshop participants will include Dean Myron S. Magen, D.O., and Charles D. Tweedle, Ph.D., associate professor of biomechanics and zoology.

COLLEGE-WIDE DINNER/DANCE
SCHEDULED FOR AUGUST 6

A college-wide dinner and dance to appropriately send off the second-year class to their clinical rotations will be held for students, faculty and staff on Saturday, August 6.

Festivities will be held at the Pretzel Bell in East Lansing. The affair is sponsored by the College's student spouses organization.

For further information, contact Christie Bair, 351-8578.
SEED GRANTS AID PILOT RESEARCH IN COLLEGE

Seed monies provided by the National Institutes of Health for biochemical research in the College of Osteopathic Medicine have multiplied ten-fold in new outside research funding to the College.

According to Philipp Gerhardt, Ph.D., associate dean for research, a $17,000 grant from NIH awarded in 1975 produced $197,778 in grants for biomedical research in 1976.

NIH has just been awarded new seed funds of $26,951, which will be divided in the fall among approximately ten researchers doing pilot studies.

Pilot projects funded during 1976-77 by NIH include work by:
James Bennett, Ph.D., assistant professor of pharmacology.
Pamela J. Fraker, Ph.D., assistant professor of biochemistry.
Margaret Z. Jones, M.D., associate professor of pathology.
Estelle McGroarty, Ph.D., assistant professor of biophysics.
Ronald J. Patterson, Ph.D., assistant professor of microbiology and public health.
Douglas E. Rickert, Ph.D., assistant professor of pharmacology.
George Schneider, Ph.D., assistant professor of anatomy.
Charles D. Tweedle, Ph.D., associate professor of biomechanics.
John Upledger, D.O., associate professor of biomechanics.
Joseph Vorro, Ph.D., assistant professor of anatomy.
Lynne C. Weaver, D.V.M., Ph.D., associate professor of physiology.
Ronald B. Young, Ph.D., assistant professor of biomechanics.

In addition to the NIH grant, pilot studies were also supported by a $21,000 appropriation from the College's general funds. Persons receiving these grants included:

Uri Dinnar, Ph.D., associate visiting professor of biomechanics.
Brigitte Jordan, Ph.D., assistant professor of community medicine.
Jon Kabara, Ph.D., professor of biomechanics.
Richard W. Redfearn, Ph.D., assistant professor of biomechanics.
Ernest Retzlaff, Ph.D., professor of biomechanics.
Richard M. Roppel, Ph.D., associate professor of biomechanics.
William L. Smith, Ph.D., assistant professor of biochemistry.
WIDE RANGE OF CME PROGRAMS OFFERED AT PONTIAC CENTER

Continuing medical education programs ranging from a national conference on radiology to a seminar and tour in England will be featured in the next few months by the Michigan Center for Continuing Education in Osteopathic Medicine in Pontiac. Scheduled programs include:

Saturday, June 4, and Sunday, June 5, 1977
"Radiologic and Radionuclide Imaging Techniques in the Cancer Patient"
National conference. (George Gustavson, D.O.)

Sunday, June 12, 1977
"Urology Update" (Ronald W. Wadle, D.O.)

Saturday, June 18, 1977
"General Practice Review I" (Jerry Margolis, D.O.)

Sunday, June 26, 1977
"General Practice Review II" (Jerry Margolis, D.O.)

Sunday, September 11, 1977
"Inflammatory Diseases of the Intestines"

Friday, September 16, through Saturday, September 24, 1977

Saturday, September 17, and Sunday, September 18, 1977
"Allergy, Immunology and Autoimmune Diseases" (Leroy Neumann, D.O.)

Sunday, September 25, 1977
"Pulmonary Workshop" (Bertram Rabinowitz, D.O.)

Sunday, October 2, 1977
"Nutrition Symposium: Parenteral and Enteral"

Sunday, October 9, 1977
"Applications of Photography in Medical Practice" (Augustine Perrotta, D.O.)

Saturday, October 15, 1977
"Edema-Forming States" (Gary Glick, D.O.)

Sunday, October 16, 1977
"Pediatrics Update" (James Carl, D.O.). To be held in Grand Rapids.

Sunday, October 23, 1977
"Selected Problems in the Neuromusculoskeletal System" (John Upledger, D.O.)

Sunday, December 4, 1977
"Annual Heart Day" (William Ross, D.O.)

Saturday, January 28, through Saturday, February 4, 1978
Carribean seminar and cruise.

(more)
These programs are sponsored by the MSU College of Osteopathic Medicine, the Michigan Association of Osteopathic Physicians and Surgeons, the Michigan Osteopathic College Foundation, and the Michigan Osteopathic Hospital Association. For information, contact the Center (313-335-7742), 900 Auburn Rd., Pontiac, 48057.

MSU PRENATAL DIAGNOSTIC SERVICES AVAILABLE

The following letter on prenatal diagnostic services at MSU was written by Gerald B. Holzman, M.D., associate professor of obstetrics and gynecology and the Office of Medical Education Research and Development. It was published in the April 1977 issue of Michigan Medicine.

The Michigan State University Department of Obstetrics, Gynecology and Reproductive Biology, and the Department of Human Development announce the availability of Prenatal Diagnostic Services at Michigan State University. The service includes screening for specific genetically-transmitted disorders. Women 35 years or older also should be considered for referral. It frequently is useful to refer patients before a decision has been made, since the preliminary counseling session usually assists patients in reaching an informed, intelligent, unemotional decision.

Appointments can be made through James Higgins, M.D., or Ms. Sharon Koehler at (517) 353-2030. Patients customarily can be seen promptly. This MSU service is available at East Lansing, Grand Rapids and Flint.

An initial interview will be scheduled to outline a diagnostic program, assess the couple's emotional needs and to answer questions. The clinic is offering primarily a diagnostic service, not chromosomal or biochemical analyses on submitted specimens. Preferably, patients should be seen prior to the onset of pregnancy, but they can be seen as late as the 18th or 20th week after the last menstrual period. It should be emphasized, however, that it is easiest on the patient if she is referred early. It should also be emphasized that we are only offering a diagnostic service and would expect the patient to continue with her referring physician for care unless the referring physician feels this is inappropriate. The referring physician might prefer MSU to continue care if a fetal abnormality is verified.

The clinic fee, reimbursable by several third party carriers, is a fee for service and should not exceed $450 including laboratory and physician charges. The charge for initial interview during which time the problem is assessed and the diagnostic procedures outlined is included in the above fee if the couple elects to go ahead with amniocentesis. Otherwise, there is a $50 counseling fee. In those cases where the couple cannot afford payment, every attempt possible will be made to obtain financial support from alternate resources.

There are many inheritable diseases where a specific in-utero diagnosis cannot be made. These patients often benefit by pre-pregnancy counseling since risk factors are discussed. These couples will be charged routine laboratory fees usually reimbursable by third party carriers.

Gerald B. Holzman, M.D.
East Lansing
TEAMWORK FOR HEALTH CARE
EMPHASIZED IN MSU PROGRAM

As health care becomes more complex, the increasing importance of teamwork among health care providers is being recognized and nurtured in a program at Michigan State University.

Under a three-year grant from the HEW Bureau of Health Manpower, educational programs and models for interdisciplinary health care teams are being developed in the College of Osteopathic Medicine's Department of Family Medicine and the College of Human Medicine's Department of Family Practice, in collaboration with the School of Nursing, the School of Social Work and the Department of Food Science and Human Nutrition.

These teams include professionals such as physicians, nurses, dieticians, social workers, medical technologists and others who work in concert with patients and their families to design a total health care program tailored to meet patient and family needs.

Goals for the program include increasing the use of preventive medicine, training patients to assume responsibility for their own health, promoting cooperation of health professionals, improving health care to whole families, and educating persons about the impact of disease on the patients and family's lives.

Personnel in the project are quite careful to differentiate between "interdisciplinary" and "multidisciplinary" approaches to health care, according to Charles H. Beady Jr., Ph.D., project coordinator.

They view "multidisciplinary" as the use of persons from other disciplines as consultants, called in at the request of a primary health care provider, he said. But in the "interdisciplinary" team approach, all members of the team work as equal, interdependent professionals, relying on the expertise of each other for comprehensive care.

"The traditional design has centered around the physician, but this may not be the most appropriate form of health care delivery," said Roy Harvey, D.O., project codirector and acting chairman of the Department of Family Medicine. "Physicians are finding it physically, emotionally and economically impossible to do it all."

"Physicians have long experienced the frustrations of trying to single-handedly provide a package of health care for the whole family," said Roy Gerard, M.D., chairman of the Department of Family Practice and codirector of the project. "I feel that the team approach is the only viable solution to deliver comprehensive preventive family care for American consumers."

The project encompasses the development of educational programs for interdisciplinary health care teams, development of a model for family health care service (including interactions between the primary health care teams and specialists) and forming an educational program for students in the health professions to interest them in the interdisciplinary team approach.

Several teams are operating in MSU's new Clinical Center, an ambulatory care facility.

A two-term course sequence for students in allopathic medicine, osteopathic medicine, nursing, social work, medical technology, food science and human nutrition was begun as a pilot course last spring with nine students.

This term 18 students, selected from many who expressed interest in the courses, are enrolled.
Course content, which is designed to develop a sense of team unity and cooperation among these future health professionals, includes such varied activities as studying coping abilities of their own families, personality assessments, interviewing practicing professionals in other than their own disciplines, paper cases, use of the problem-oriented medical record, role negotiation, and patients' rights.

During the second term, it is planned the students will work in the MSU Clinical Center, actually providing limited health care as a team under the direction of the model teams.

Course designer Gloria Bouterse, Ph.D., assistant professor of family practice and family medicine, said that they attempted to "educate all disciplines in relation to what other disciplines can do. Students don't need to know everything, but they do need to know where the proper resources are. We hope that this course will broaden their resources to allow comprehensive diagnoses and more comprehensive treatment for patients."

The original MSU team was trained in 1974 as one of five university teams selected to participate in the Institute of Health Team Development Project funded by a grant from the Robert Wood Johnson Foundation.

Members of the current team include Dr. Gerard; Robert Ward, D.O., professor of MSU's Office of Medical Education Research and Development; Jacqueline Wright, assistant professor of nursing and family practice; and Ruth L. Clausen, instructor in the Office of Health Services Education and Research.

SOMA CHAPTER GETS STRONG BEGINNING AT MSU-COM

A new chapter of the Student Osteopathic Medical Association was organized at the MSU College of Osteopathic Medicine in mid-April.

Presently 58 persons at MSU have joined SOMA, a national service organization of osteopathic medical students.

Officers, all of whom are members of the 1976 entering class, include Benjamin Field, president; Patricia Renfield, representative to the national board of directors; Mark Sloane, vice president; Mary Ann Skiba, secretary; and Leslie Lafer, treasurer.

E. James Potchen, M.D., chairman of the Department of Radiology, is the SOMA adviser.

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 include hypertension screening in MSU dormitories, participation in orientation programs for the entering class, and proposed health appraisal examinations and health education lectures in schools.

Students interested in joining SOMA should contact Ben Field through the Office of Student Affairs.
SIGMA SIGMA PHI OPENS
IOTA CHAPTER AT MSU

Fourteen first-year students were initiated into Sigma Sigma Phi osteopathic
honorary as charter members of the new Iota chapter at the MSU College of Osteopathic
Medicine.

Charter members include Robert L. Snyder, president; Isidro A. Amigo, S. Bruce
Badaglialacqua, Dennis Deacon, Paul R. Ehrmann, Gary H. Hills, Wanda B. Kalencky,
John Meulendyk, John G. Mills, Judy S. Moore, Sylvia Mustonen, Robyn Phillips, Paul
Ponstein and Alice K. Raynesford.

Grand chapter president Roy J. Harvey, D.O., acting chairman of the Department
of Family Medicine, presided at the initiation.

Others present included Myron S. Magen, D.O., dean of the College and honorary
member; Philip E. Greenman, D.O., associate dean for academic affairs; Allen W. Jacobs,
Ph.D., assistant dean for educational resources; Max T. McKinney, D.O., grand chapter
board member; and Lawrence M. Jarrett, D.O., honorary member and MSU team physician.

A primary goal of the new Iota chapter is service to community health programs.

FAMILY MEDICINE BEGINS
DEPARTMENTAL NEWSLETTER

A particular concern for meeting the information needs of a state-wide clinical
faculty is the focus of a new departmental newsletter begun by the Department of
Family Medicine.

The four-page publication, which began in May, will be issued twice during
fall, winter and spring terms and once during the summer.

Edna Harney, office assistant, is newsletter editor.

The editorial advisory committee includes Roy J. Harvey, D.O., acting chairman
of family medicine; Mrs. Harney; Shirley Johnson, Ph.D., associate professor;
Gordon C. Spink, D.O., Ph.D., assistant professor; and Patricia Grauer, M.A.,
associate editor, health and medicine information services.

DEPARTMENT OF RADIOLOGY INITIATES
PLAIN-FILM CHEST PROJECT

In order to determine the parameters of normalcy and to develop an extensive
teaching file of chest radiographs, the Department of Radiology is gathering examples
of normal, paranormal and abnormal cases from its affiliated hospitals.

Every three months participants will collect their last ten normal, last
ten abnormal, and most interesting paranormal chest radiographs. After duplication
by the department, a library of teaching cases will be made available to all
contributors.

To date nine communities -- Lansing, Flint, Grand Rapids, Kalamazoo, Bay City,
Clare, Jackson and Garden City -- are participating in the project.

For more information, contact Mary Leeman, 355-0120.
FEE HALL TO ENTER
OFF-OFF-BROADWAY

During the last week of June and first week of July, Fee Hall and the Clinical Center will be the invasion site for a dozen members of a camera-toting crew.

The film-makers of Weitschat and Associates, Inc., of Chicago have been hired by the American Osteopathic Association to produce a film for public education on the osteopathic profession.

A major portion of the film emphasizes osteopathic education and will be shot in the classrooms, laboratories, clinics and offices of the MSU College of Osteopathic Medicine.

The schedule is being coordinated through the Health and Medicine Section of Information Services. Holly Holdman, M.A., director of the Clinical Simulation Center, is assisting the director with local casting.

The film, which will be distributed nationally, is being financed through a $45,000 grant to the AOA from Merck, Sharpe and Dohme.

FRIENDS OF COLLEGE ELIGIBLE TO BE ASSOCIATE MEMBERS OF ALUMNI ASSOCIATION

Michigan osteopathic physicians and friends of the MSU College of Osteopathic Medicine are eligible for associate memberships in the College's alumni association.

Similar to the regular memberships offered alumni, the associate members are entitled to a subscription to the MSU Alumni Magazine, participation in tour programs, special membership prices on Alumni Association merchandise, automatic membership in local MSU alumni clubs and special consideration on football tickets.

A portion of the $12 annual dues are used for continuing medical education programs, student scholarships, equipment for the Simulation Learning Center, and other worthwhile programs.

The College of Osteopathic Medicine Alumni Association is a constituent organization of the MSU Alumni Association. For information contact Sandy Kilbourn, executive secretary, A319 East Fee Hall, 353-8822.

MSU INTERACTION LABORATORY PRESENTS SYMPOSIUM AT TEMPLE UNIVERSITY CONFERENCE

A symposium on "Behavioral Displays and the Transmission of Ideology" was presented by the MSU Interaction Laboratory at a Conference on Culture and Communication held at Temple University. Brigitte Jordan, Ph.D., assistant professor of community medicine was symposium coordinator.

Individual presentations included: "Matching Behavior" by Ronald C. Simons, M.D., associate professor of psychiatry and of anthropology; "On the Endogenous Production of Social Structures of Two-and-a-half-year Olds" by Brigitte Jordan; "Interaction Competence and Hyperkinesis: Ideology in Pediatric Diagnosis" by Albert B. Robillard, Ph.D., associate professor of human development; "Buttonpusher or Partner?" (two contrasting models of film production in a university setting) by Gunter Pfaff, M.S., Biomedical Communications Center, and "Using the Partnership Model" by Robert Wilks, B.A., Biomedical Communications Center.
CLINICAL SIMULATION LABORATORY HELPS STUDENTS DEVELOP CLINICAL SKILLS

Depending on curriculum requirements and instructions from faculty, Fee Hall's Clinical Simulation Laboratory is drawing between 30 and 100 students a day. Medical and nursing students use the study-learning facility to reinforce early clinical experience in problem solving and training in clinical procedures.

The 3,000 square foot Clinical Simulation Lab 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.

Laboratory director is Holly Holdman, who is a member of the COM academic resources staff and also directs the simulated patient program.

Faculty questions about coordinating Clinical Simulation Lab facilities with their curriculum plans can be directed to Ms. Holdman at 353-4734.

The lab is open 9 a.m. to 5 p.m. and 7 to 11 p.m. weekdays, 10 a.m. to 5 p.m. Saturdays, and 2 to 10 p.m. Sundays.

Originally designed for use by D.O., M.D., and nursing students, the Laboratory now also offers a specially designed computer program, linked to Ohio State University, for veterinary students.

For students in osteopathic and allopathic medicine, the Laboratory has been instrumental in supporting course work on pelvic and breast examinations. Several treatment rooms are available for osteopathic manipulative therapy. Facilities have been used by students in two psychological-social nursing programs.

The lab has been utilized for a continuing medical education conference on "Common Sexual Problems Encountered in Clinical Practice," sessions on the doctor-patient relationship, and for extended study preceding tests and examinations.

Many of the medical simulations on the Laboratory enable practice for perfecting injection skills, cardiopulmonary resuscitation and physical examination procedures.

The flick of a switch 'broadcasts' various heart sounds, normal and otherwise.

Head models, used with slides inserted behind the eyes, simulate vision disorders and symptomatic conditions of other diseases.

A simulated doctor's office -- with three patient interviewing areas and three complete examining rooms -- utilizes a portable video system to record history taking and physical examinations for later review and self-evaluation by students.

Simulated patients -- trained to simulate any or all aspects of actual illnesses -- often are present in supervised setting to test skills of students with advanced clinical training.

Advantages of simulations in medical and nursing education include:

--low risk to student physicians and nurses and their patients,
--enhanced learning with longer and more complete retention,
--more efficient utilization of medical faculty, and
--improved quality and realism in preparatory instruction.

The Laboratory also enables assessment of clinical competence and development of instructional films and videotapes.
PERSONA GRATA

JOSEPH C. ANDREWS, D.O., clinical assistant professor of radiology, has been elected vice president of the board of directors of the American College of Osteopathic Radiologists. He also is serving as the chairman of the Committee on Evaluation Standards for Postdoctoral Training, which is responsible for setting and maintaining standards for residency programs.

TERESA BERNARDEZ-BONESATTI, M.D., associate professor of psychiatry, at the International Conference of Feminists Therapists held at the University of Colorado in January, presented a workshop on women's groups. She was workshop leader on "Women's Groups for Personal and Social Change" at the annual meeting of the American Group Psychotherapy Association held in San Francisco.


S. J. BREINER, M.D., assistant professor of psychiatry, presented a discussion on "Psychiatric Aspects of Intestinal Obstruction" at the meeting of the American Association of Abdominal Surgeons. He spoke on "Psychological Problems in Intensive Care Units" at a meeting of the Western Michigan Psychiatric Society in Grand Rapids.

ROBERT C. BRICKSON, Ph.D., professor in the Office of Medical Education Research and Development, was a speaker at the 30th annual Conference on World Affairs held at the University of Colorado. He participated in six panels on the CIA in Cuba, causes of criminal youth, FBI and CIA, media as power brokers, food and health, and sexuality and the gay life. He was also a panel chairman at a meeting of the North Central Sociological Association in Pittsburgh, and with Margaret Malmberg and Ronald Richards, conducted a workshop on "Teaching the Social Context of Medicine in a Rural Area" at the meeting of the Association of Behavioral Science and Medical Education in Snowbird, Utah.

THEODORE M. BRODY, Ph.D., professor and chairman of pharmacology, and TAI AKERA, M.D., Ph.D., professor of pharmacology, coauthored two papers presented at the 49th Scientific Session of the American Heart Association in Miami Beach. Dr. Brody presented "Cardiac action of sulphydryl-blocking agents and myocardial sodium pump activity" and Dr. Akera presented "A possible mechanism for the reversal of ouabain-induced arrhythmias by potassium." At the American Medical School Pharmacologists meeting in Key Biscayne, Dr. Brody presented a paper entitled "Departmental Management." Recent publications of Dr. Brody and Dr. Akera include the following:


"Effects of ryanodine on the contractile force of potassium-depolarized hearts" (M. Frank is principal author) Research Communications in Chemical Pathology and Pharmacology 15: 511-523, 1976.

ARTHUR S. ELSTEIN, Ph.D., professor and director of the Office of Medical Education Research and Development, is a member of the Program Planning Committee of the Conference on Research in Medical Education, and editor of a special issue on research in health professions education of Studies in Educational Evaluation. He also has received a supplemental grant from the National Fund for Medical Education to complete research on assessment of empathy skills and problem solving skills as a screen for admission to medical school.

Dr. Elstein is the author of "Clinical judgement: psychological research and medical practice" published in Science 194:696-700, 1976. He has submitted a final report on "An Analysis of Medical Inquiry Processes" to the Bureau of Health Manpower. Coauthors of this report include LEE SHULMAN, Ph.D., professor of counseling and personnel services and OMERAD; SARAH SPRAFKA, Ph.D., assistant professor, OMERAD, and psychiatry. Non-MSU coauthors were Hilliard Jason, Linda Allal, Michael Loupe, Michael Gordon and Ronald Jordan.

LARRY EDMUR, Ph.D., a second-year student in the College of Osteopathic Medicine, Carol Lyle, and JON J. KABARA, Ph.D., professor of biomechanics, authored "Quantitation of Lipid Classes Following Thin-Layer Chromatography" published in Analytical Letters 10:1, p. 21-27, 1977.

PHILIPP GERHARDT, Ph.D., professor of microbiology and public health and associate dean for research, College of Osteopathic Medicine, was a consultant on infectious disease controls for a meeting of the Scientific Advisory Board of the National Center for Toxicological Research in Jefferson, Arkansas. He also authored or coauthored the following publications:

Gerhardt; J.M. Quarles (Texas A & M); T.C. BEAMAN, Ph.D., instructor, microbiology and public health; R.C. BELDING, D.V.M., Ph.D., associate professor, microbiology and public health: "Ex vivo hemodialysis culture of microbial and mammalian cells" in Journal of Infectious Diseases 135: 42-50, 1977.

K. MOHAN, M.D., Ph.D., instructor, human development; R.C. Gordon (Texas A & M); Beamon; Belding; D. Luecke (Maryland); C. Edmiston; Gerhardt: "Synergism of penicillin and gentamicin against Listeria monoytogenes in ex vivo hemodialysis culture" in Journal of Infectious Diseases 135: 51-54, 1977.


PATRICIA GRAUER, M.A., associate editor of health and medicine information, has been elected to a three-year term on the board of the MSU Faculty Women's Association.

JERRY B. HOOK, Ph.D., professor of pharmacology, has been named to the executive committee of the Scientific Advisory Board of the Kidney Foundation of Michigan, and also is serving on the foundation's research committee. He presented a seminar on "Enzymes of renal origin as monitors of nephrotoxicity" at the National Institute of Environmental Health Sciences Research, Triangle Park, North Carolina. He spoke on "A possible role of prostaglandins in the mechanism of action of diuretics" at
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a Merck, Sharp and Dohme meeting in West Point, Pennsylvania, and delivered an
invited address on "Renal Pharmacology in the Newborn" at the 10th annual Perinatal
and Developmental Medicine Symposium at Marco Island, Florida. His recent publications
include:

Styges, V.G., Reinke, D.A. and Hook, J.B.: "Prostaglandin E2 production by reno-
medullary tissue of DOCA Goldblatt and spontaneously hypertensive rats." Research

Pegg, D.G., McCormack, K.M. and Hook, J.B.: "Effect of substrate pre-treatment on

role in renal organic anion transport." Journal of Pharmacology and Experimental

Pegg, D.G., Hewitt, W.R., McCormack, K.M. and Hook, J.B.: "Effect of 2,3,7,8-tetra-
chlorodibenzo-p-dioxin on renal function in the rat." Journal of Toxicology and

Bond, J.T., Bailie, M.D. and Hook, J.B.: "Maturation of renal organic acid transport
in vivo: Substrate stimulation by penicillin." Journal of Pharmacology and

Bailie, M.D., Crosslan, K. and Hook, J.B.: "Natriuretic effect of furosemide after
inhibition of prostaglandin synthetase." Journal of Pharmacology and Experimental

Hewitt, W.R., Clark, R.L. and Hook, J.B.: "Investigations of metabolic modulation
of p-aminohippurate accumulation by rabbit renal cortical slides." Journal of

JOHN I. JOHNSON, Jr., Ph.D., professor of biophysics, psychology, and zoology,
is awards chairman for the Michigan chapter of the Society for Neuroscience. He
was an invited panelist at the Winter Conference on Brain Research, Keystone,
Colorado, where he discussed "Normal development and deprivation-induced trans-
neuronal degeneration in sensory nuclear regions of brain stem" as a member of
the panel on "Experimental Modulation of Brain Development." He was co-author
(with L. B. Radinsky) of a paper "Thylacoleo, marsupial lion or lamb? -- An
exercise in behavioral paleoneurology" at the Society for Neuroscience meetings
held Nov. 7-11 in Toronto. He also was co-author (with W. L. Weller, J. R. Haight,
L. Neylon) of "Single representation of mystacial vibrissae in SI neocortex of
rufous wallaby Thylogale billardieri," also presented before the Society for
Neuroscience.

BRIGITTE JORDAN, Ph.D., assistant professor of community medicine and anthropology,
recently completed field work in Yucatan, Mexico, where she performed ethnographic
work with Maya Indians and studied previously unrecorded indigenous prenatal care.
She also served as coordinator for a symposium on the "Behavioral Displays and the
Transmission of Ideology" held at Temple University, where she made a presentation
on "The Endogenous Production of Social Structures of Two-and-a-half-year-olds."

Dr. Jordan is the author of "The Cultural Production of Childbirth" in Women
and Children in Contemporary Society, edited by Nancy Hammond and published by the
Michigan Women's Commission.
JON J. KABARA, Ph.D., professor of biomechanics, presented a paper on "Lipids as Bacteriostats for the Food Industry" at the annual meeting of the American Oil Chemists' Society held in New York City.

MICHAEL KEY, Ph.D., instructor of radiology and osteopathic medical student, chaired the session on "Ultrasound and Magnetic Fields" and presented a paper on "The Thermal, Non-thermal and Therapeutic Effects of 2450 MHz Radiation on Mammalian Cells" at the meeting of the Radiation Research Society in San Francisco.

GEORGE S. KLEIBER, D.O., associate professor of osteopathic medicine, has been named a member of the research council of the Michigan Heart Association and a member of the American Federation of Clinical Research. He was a speaker at the annual postgraduate conference and scientific session sponsored by the Michigan Association of Osteopathic Physicians and Surgeons. Dr. Kleiber also is the author of "Current Concepts in Therapy of Coronary Heart Disease" published in the April issue of the Journal of the American Osteopathic Association.

HENRY KRYSTAL, M.D., professor of psychiatry, made presentations at the annual meeting of the American College of Psychiatrists in Atlanta, at the American Medical Association conference on the addicted physician, to the Michigan Association for Psychoanalysis and at Sinai Hospital of Detroit.

ARTHUR KURTZE, JR., D.O., associate professor of osteopathic medicine, recently was honored as the outstanding faculty member during the clerkship period by the graduating class of the MSU College of Human Medicine.

ROBERT W. LEADER, D.V.M., professor and chairman of pathology, served as consultant to the National Institute on Aging at a workshop held at Elkton, Maryland, where he discussed "Animal Models for the Study of Aging."

ANDREW S. MACKENZIE, D.O., radiologist and associate clinical professor of biomechanics, was featured on the cover of the March issue of O.D. for his presentation on "The Osteopathic Approach to the Radiology of Low Back" at the American Osteopathic Association convention in San Francisco.

VERONICA M. MAHER, Ph.D., associate professor, and J. JUSTIN McCORMICK, Ph.D., associate professor, codirectors of the Carcinogenesis Laboratory, are the authors (with P. L. Grover and P. Sims) of "Effect of DNA Repair on the Cytotoxicity and Mutagenicity of Polycyclic Hydrocarbon Derivates in Normal and Xeroderma Pigmentosum Human Fibroblasts." This summary of five years of research is published in Mutation Research, 43:1, April 1977, p. 117-136.

RON MARKERT, Ph.D., assistant professor in the Office of Educational Resources, has been appointed for two years as a member of the Advisory committee to the Clinton, Eaton, and Ingham Counties Programs for the Mentally Retarded. He is the author of "The relationship between grades and clinical competence among first-year osteopathic medical students" to be published in Medical Education.

RICHARD J. MARTOCCHI, D.O., assistant clinical professor of osteopathic medicine, has been named director of the Neurovascular Care Unit at Pontiac Hospital, and was elected a member of the Michigan Neurological Association. Dr. Martocci was also one of three D.O.'s recently elected a fellow in the Stroke Council of the American Heart Association.
FRED L. MITCHELL, JR., D.O., professor of biomechanics, made the following presentations:

--"Structural Evaluation and Muscle Energy Treatment of the Lower Extremity" (with Stephen Blood, D.O.) at the Florida Academy of Osteopathy in Cypress Gardens.

--"OMT for Infection and Cardiovascular Disease" and "Muscle Energy Technique for the Hospitalized Patient" at the Metropolitan Hospital General Practice Seminar in San Key, Florida.

--"Osteopathic Principles and Techniques -- Management of Thoracic Cage Restrictions" (with PHILIP E. GREENMAN, D.O., associate dean for academic affairs; ROBERT C. WARD, D.O., professor, Office of Medical Education Research and Development; and WILLIAM McCONNELL, D.O., clinical faculty member in family medicine) at Grand Rapids Osteopathic Hospital.

--"The Basic Structural Examination and Muscle Energy Treatment of the Spine and Ribs" at the Brentwood Hospital annual seminar on osteopathic manipulation, Warrensville Heights, Ohio.


KENNETH MOORE, Ph.D., professor of pharmacology, has been elected a Fellow of the American College of Neuropsychopharmacology. His recent presentations include a paper "Biochemical Pharmacology of Mesolimbic and Mesocortical Dopaminergic Neurons" at the annual meeting of the American College of Neuropsychopharmacology, a paper on "Dopamine Receptor Supersensitivity" at the Winter Conference on Brain Research, and a seminar "Effects of Drugs on the Sensitivity of Dopamine Receptors in the Brain" at the Medical College of Ohio.

His publications include: "Release of Neurotransmitters from the Brain in vivo by Amphetamine, Methylphenidate and Cocaine" in Advances in Behavioral Biology 21:143-160, 1976 (with graduate students C. C. Chiveh and G. Zeldes); "Mesolimbic Dopaminergic Neurons in the Rotational Model of Nigrostriatal Function" in Nature 263:695-696, 1976 (with P. H. Kelly, research associate), and "Differential Action of Dopamine Agonists and Antagonists on the 8-Butyrolactone-Induced Increase in Mouse Brain Dopamine" in Psychopharmacology 50:225-229, 1976 (with G. Gianutsos, postdoctoral fellow), and J. E. Thornburg, student in the College of Osteopathic Medicine.

ELEANOR S. MORRISON, M.A., instructor of community medicine, presented a program on "Teacher's Attitudes and Sexuality Issues" for the Michigan Association for the Education of Young Children. She also is the coauthor with VERA BOROSAGE, professor of family and child sciences, of Psycho-Social Aspects of Human Sexuality, the second edition of which was published in March by Mayfield Publishing Company, Palo Alto, California.

RICHARD E. NICHOLS, D.O., assistant clinical professor of family medicine, is serving as a lecturer at Grand Rapids Osteopathic Hospital and as a clinical preceptor in the Mercy College physician's assistants program. He is the chairman of the Department of Emergency Room Control, chief of staff, executive committee member and joint conference committee member of the GROH staff. With Dr. Belsito, he is coauthor of "Then There Were Six."
HARRY PERLSTADT, Ph.D., assistant professor of community medicine and sociology, is the author of "Emergency Medical Services in Small Communities" published in Journal of Community Health 2:3, Spring 1977, and of "Health Care Delivery Systems: Emergency Medicine as a Prototype" published in Society (Trans-action) 14:2, 1977. Lola Jean Kozak of the University of Chicago was coauthor of both articles.

JOHN PHARDEL, Ph.D., clinical professor of osteopathic medicine, was honored by his former residents and their wives in New Orleans. He was presented with a plaque "in appreciation of 20 years of untiring effort in teaching surgical residents the art of surgery and inspiring us to continue training and desire for excellence."

JERRY POLSINELLI, D.O., clinical assistant professor of osteopathic medicine, has been elected to a three-year term on the board of trustees of the American College of Osteopathic Obstetricians and Gynecologists at their annual meeting in Atlanta.

E. JAMES POTCHEN, M.D., professor and chairman of radiology, presented "A Comprehensive Review of the Energy Research and Development Administration Nuclear Medicine Research Programs" at a meeting in New Orleans of the ERDA, the Institute of Electrical and Electronics Engineers, and the National Aeronautics and Space Administration. He served as course director of "Radioisotopic Diagnosis of Metabolic Abnormalities" held at the annual scientific meeting of the Michigan State Medical Society, and discussed "Measures of Efficacy in New Medical Technologies" before the Society of Nuclear Medicine. He lectured at Harvard Medical School on "Utilization and Economics of Medical Imaging" and discussed "Cost Effectiveness in Medicine," at Flint's McLaren Hospital. Dr. Potchen has been named to the State of Michigan Radiation Advisory Board.

JAMES RICHARDSON, D.O., associate director of medical education at Flint Osteopathic Hospital, was appointed director of clinical training at FOH for the College of Osteopathic Medicine. As such he will act as a liaison between the Unit III students at Flint and the campus.

JAMES N. RILEY, Ph.D., assistant professor of anthropology, presented a paper at the annual meeting of the American Anthropological Association in Washington, D.C. on "Western Michigan's Attempts to be More Scientific."

HOWARD B. SOBEL, D.O., clinical associate professor of family medicine, has been named chairman-elect, chairman of the credential committee, and a member of the executive committees of Botsford General Hospital.

WALTER TURKE, M.D., assistant clinical professor of psychiatry presented a seminar on "Depression" as part of a 'We Care' community relations series at Munson Medical Center in Traverse City.

CHARLES TWEEDLE, Ph.D., associate professor of biomechanics, presented seminars on "Trophic Neuromuscular Interactions" to the Illinois Institute of Mental Health in Chicago, and on "Investigations on Collateral Nerve Sprouting" at the University of Miami Medical School. He and JON J. KABARA, Ph.D., professor of biomechanics, presented "Biochemical Induction of Collateral Nerve Sprouting" at the annual meeting of the Society for Neurochemistry in Denver. Dr. Tweedle also discussed "Role of Sensory Innervation on the Development of Sensory Receptors" at the annual American Osteopathic Association research meeting in March.


MARSHE WORBY (ACSW), coordinator of the Family Life Referral Clinic for the Department of Psychiatry, is author (with Elain M. Steinitz of Baltimore) of "The Telephone Intake: Engaging the Family in Treatment."

CPR COURSES OFFERED TO SPOUSES, AUXILIARY AT COLLEGE

Instruction in cardiopulmonary resuscitation (CPR) was offered during two evening series at the MSU College of Osteopathic Medicine.

Enrolled were 36 persons, including spouses of students and faculty, and members of the auxiliary to the Ingham County Association of Osteopathic Physicians and Surgeons.

The course included detection of breathing and pulse, administration of CPR, handling both witnessed and unwitnessed cardiac arrest, use of single and double rescuers, infant rescue, obstructed airway, and other pertinent topics. Students practiced on resuscitation models.

Instructors for the course was Michael James, D.O., cardiologist and associate professor of osteopathic medicine. Sixteen first- and second-year students from the College assisted in instruction.

According to Sandy Kilbourn, M.A., coordinator for continuing medical education, the course, which is free, will be repeated in the fall.

FIBER OPTICS CAMERA DEMONSTRATED AT OB/GYN SYMPOSIUM

A small TV camera equipped with a "lens" resembling a thin plastic pipe and designed to look inside the human body, was part of a unique TV setup designed by Michigan State University television experts for a recent obstetrics and gynecology symposium.

The "fiber optics" camera, along with two conventional color TV cameras, was used to telewise ongoing surgical procedures in Lansing's Sparrow Hospital for 150 physicians gathered in the hospital's auditorium.

The TV setup, which produced a giant 9 by 12 foot picture, was designed by MSU's Instructional Television Services personnel. Program activities were coordinated by MSU's Continuing Education Service. Chairing the symposium was Thomas Kirschbaum, M.D., chairman of the Department of Obstetrics and Gynecology in MSU's College of Human Medicine.

Dr. Jack R. Robertson, associate clinical professor of obstetrics and gynecology, University of Southern California Medical Center, demonstrated techniques for using the fiber optics camera in gynecological surgical procedures.
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AMERICAN ASSOCIATION OF MEDICAL COLLEGES
ADOPTS NEW MEDICAL COLLEGE ADMISSIONS TEST

That bugbear of medical school applicants and buttress of medical school admissions committees, the Medical College Admissions Test has just emerged, changed, from a five-year process of study and revision. Length, context, scope, and scoring of the 30-year-old test have all been altered to some extent in the new version constructed by the American Institutes for Research under the direction of the Association of American Medical Colleges.

Students applying for admission in the fall of 1978 were the first to take the new MCAT, administered on April 20 and May 1, 1977. According to Dr. John A. Cooper, president of the AAMC, the test was doubled in length to a full day's duration, and broadened in scope to elicit problem-solving skills relevant to ordinary medical office practice.

The three major sections were altered in length as follows: 1--Science (both basic science information and problem-solving skills in science) will go from 86 items to be covered in 60 minutes to 217 items to be covered in 170 minutes; 2--Verbal will go from 75 items to be covered in 20 minutes to 73 items covered in 90 minutes; 3--Quantitative will go from 50 items in 45 minutes to 73 items covered in 90 minutes.

Another new feature is the breakdown of scores in biology, chemistry, and physics. A general information section of the old MCAT, designed to assess knowledge of nonscience data, has been eliminated.

(Reprinted from the Harvard Medical Alumni Bulletin)

MICHIGAN PLACENTAL TISSUE
REGISTRY TO CONTINUE

Researchers of the Michigan Placental Tissue Registry, who acquire and study pathologic placental tissue specimens, are encouraging Michigan physicians to continue their support of the program.

Receiving placentas from hospitals throughout Michigan, the researchers disseminate knowledge gained by study of the specimens to those concerned with the care of the pregnant patient and her child.

The registry was founded by the late Joseph R. Cipparone, M.D. Lawrence Nathan, D.O., has served as interim director since Dr. Cipparone's death. Current directors are Charles Sander, M.D., professor and associate chairman of pathology, and Henry Kallet, M.D., associate professor of pathology.

The registry is sponsored by the Michigan Department of Public Health and is a division of the Michigan State Medical Society Committee on Maternal and Perinatal Health.

Specimens should be sent to Dr. Sander, Department of Pathology, A630 E. Fee Hall, MSU.

SCIENCE ARTICLE WINS
HIGH HONOR FOR DR. FABREGA

Horacio Fabrega, Jr., M.D., has been awarded the John Kosa Memorial Prize by the editors of Social Science and Medicine, an international journal published by Pergamon Press, for his article "The Need for an Ethnomedical Science" (Science, Sept. 1975) -- the relation between disease, social behavior and human adaptation.
GIFTS AND GRANTS

The following medically-related gifts and grants are among those accepted by the Michigan State University Board of Trustees at their February, March and April meetings. These grants total $1,515,297.

Biochemistry

National Institutes of Health: membrane formation in cytodifferentiation. R. A. Ronzio.

Hoffman-LaRoche, Inc.: unrestricted use in support of research on utility of field desorption mass spectrometry for the analysis of fluids of biological interest. J. F. Holland.

National Institutes of Health: grant for MSU mass spectrometry facility. C. C. Sweeley.

National Institutes of Health: studies of retinal rod cyclic GMP phosphodiesterase. D. G. McConnell.

National Institutes of Health: membrane oligosaccharides. R. Barker.


National Science Foundation: development and applications of computerized, far UV, rapid scanning ultracentrifuge. W. C. Deal.

National Institutes of Health: training for pre-doctoral study in biochemistry. R. Barker.

National Cancer Institute: control of RNA processing in normal and tumor cells. F. M. Rottman.

National Institute of Child Health and Human Development: peroxisomes in developing liver and kidney. N. E. Tolbert.

Biomechanics

Michigan Osteopathic College Foundation: unrestricted grant. M. C. Beal.

National Science Foundation: determine what factors produced in denervated muscle brings about nerve sprouting. C. D. Tweedle.

Biophysics

Engelhard Industries: investigation of the anti-tumor activity of platinum compounds. B. Rosenberg.

Human Development

Cass County Chapter, March of Dimes: obtain equipment to complete tissue laboratory in Clinical Center. J. V. Higgins.
Lilly Research Laboratories: unrestricted support for infectious disease program. D. C. Anderson.

Mead-Johnson Research Center: self-teaching nutritional program for medical students. W. B. Weil, Jr.

Donald C. Anderson: unrestricted grant. W. B. Weil, Jr.


Michigan Chapter, Arthritis Foundation: potential role of suppressor T cells in the pathogenesis of SLE and the response of these cells to thymic hormone factors. D. B. Kaufman.

**Medicine**

Kidney Foundation of Michigan: characterize antigens specific to the human B lymphocytes which may aid in the matching of individuals for kidney transplants. R. W. Bull.

National Institutes of Health: establish immunohematological reference center for production of reagents that recognize the dog's red cell blood groups and histocompatibility antigens for use in the genetic characterization of the species and increase its usefulness in transplantation research. R. W. Bull.

Ingham Medical Center: unrestricted research. S. McMahon.


Kidney Foundation of Michigan: effect of parathyroid hormone (PTH) on the distribution and renal handling of aluminum. G. H. Mayor.

**Microbiology and Public Health**

National Institute of Allergy and Infectious Diseases: iron-dependent enhancement of virulence in Yersinia. R. R. Brubaker.

National Institute of Allergy and Infectious Diseases: cell differentiation in procaryotic organisms. H. L. Sadoff.


**Obstetrics, Gynecology and Reproductive Biology**

Drug Education Center, Inc.: improvement of educational offerings to students, interns and residents training in obstetrics and gynecology. T. H. Kirschbaum.
Office of Health Services Education and Research

Bryn Mawr Hospital Rehabilitation Center: provide tables which describe the patient population of the Bryn Mawr Hospital Rehabilitation Center. R. J. Sprafka.

Michigan Heart Association: provide tables which describe rheumatic heart disease and fever in children. R. J. Sprafka.

Office of Medical Education Research and Development

National Fund for Medical Education: assessment of empathy skills and problem-solving skills as a screen for admission to medical school. A. Elstein.

Osteopathic Medicine


Pathology


Michigan Department of Public Health: support Placental Tissue Registry for the State of Michigan in cooperation with the Michigan State Medical Society. C. H. Sander.

United States Department of Agriculture: purchase and care of laboratory research animals for a thesis research project. S. Sleight, B. T. Akoso.

Pharmacology

McNeil Laboratories, Inc.: unrestricted grant. K. E. Moore.

National Institutes of Health: repair synthesis of DNA in precancerous rat liver. J. I. Goldman.

The Dow Chemical Company: unrestricted grant. T. M. Brody.

McNeil Laboratories, Inc.: unrestricted grant. J. B. Hook.


National Institute of Child Health and Human Development: distribution and functions of ACh in placenta. F. Welsch.
National Institutes of Health: digitalis' mechanisms of cardiac sympathetic effects. J. Stickney.

Physiology

Morris Animal Foundation: investigation of factors affecting circulation in the forefoot of the horse, with special emphasis on their relationship to the etiology of laminitis. N. E. Robinson.


National Institutes of Health: comparative physiological studies of vertebrate eyes. P. O. Fromm.

J. R. Hoffert: purchase a computer terminal to be used in research and teaching. W. D. Collings.

Psychiatry

Harry Frank Guggenheim Foundation: clarify interaction of ethologically and socio-culturally significant factors in the production of a highly patterned sequence of human social behaviors, the startle-imitative syndrome. R. C. Simmons.

Michigan Department of Mental Health: development of psychiatric program at New Riverside Treatment Center, Dimondale. N. B. Enzer.

Ottawa County Community Mental Health Services Board: psychiatric residency program. D. Singleton.


County of Kent: residency training program. N. B. Enzer.

Psychology

National Institute of Mental Health: experimental innovation diffusion in mental hospitals. G. W. Fairweather.


University Associates: educational research on methods for producing rapid gains in academic skills. C. D. Johnson.

National Institute of Mental Health: volunteers and the diversion of juvenile offenders. W. Davidson.

Oakland County Personnel Department: validation of selection tests for Oakland County detention officers. N. Schmitt.
COMmunique QUESTIONNAIRE

This questionnaire is for your use for publication in the "Persona Grata" section of "COMmunique," the College of Osteopathic Medicine newsletter. This section is used to note achievements and activities of college personnel, including honors and awards, publications, papers, professional offices, and participation in programs and committees both on and off campus.

PLEASE print or type. Do not include information that is more than two months old. Thank you for your cooperation.

Name ___________________________ Dept. ___________________________
(Highest Degree)

Title ___________________________ Office phone number ______________

Office mailing address: _____________________________________________

Program participation: (name of program sponsor, title of paper or presentation, name of coauthors, date of programs, where held.)

_________________________________________________________________
_________________________________________________________________
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_________________________________________________________________

Current offices and committee positions: (name of organization, term of office)

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Publications: (complete title, where published and when, names and affiliation of coauthors, if any)

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Please return to Patricia Grauer, editor, "COMmunique," Health and Medicine Section, Information Services, A331 East Fee Hall, MSU.