About the Cover: A montage of photographs presents some of the flavor and atmosphere dominating the eighth annual convocation honoring the College of Osteopathic Medicine entering class of 1978.

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COMMUNIQUE Communique, a newsletter publication of the Michigan State University College of Osteopathic Medicine, is issued 18 times a year through the Health and Medicine Section of the MSU Department of Information Services, A-331 E. Fee Hall, East Lansing, MI 48824; telephone 517-353-0820. Members of the Editorial Advisory Committee include Allen W. Jacobs, Ph.D. (Chairman); Francis A. Bernier, Ph.D., Gordon C. Spink, Ph.D., B.O.; Nancy M. Houston, B.A. (Editor), Patricia Grauer, M.A. (Associate Editor). Production and circulation manager is Carol Howland. Date of next issue will be November 17. Copy deadline for next issue: December 4.
BLENDING SENSITIVITY WITH MEDICAL EXPERTISE NEEDED IN "THE SCIENCE THAT CARES"

Physicians need to blend sensitivity towards their patients' emotions with the technical knowledge of medicine to be as most helpful to the public, a nationally prominent physician told the fall entering class of Michigan State University's College of Osteopathic Medicine.

"There is no other branch of human endeavor which requires such sensitive coupling of compassion and knowledge," said David E. Rogers, M.D., president of the Robert Wood Johnson Foundation. "The balance is a classic and increasing dilemma for physicians."

Dr. Rogers believes that the problem is compounded because most medical teaching centers do not emphasize the human caring skills he feels are essential for physicians to become expert at. Rather, these schools emphasize the science and technology of medicine, with the resultant "setting aside" of the doctor's humanness. Rogers made an exception for the MSU College of Osteopathic Medicine, which emphasizes a "whole patient" approach.

"The result of this setting aside of humanities is a blunting of the skills required to interact most sensitively with other people," Rogers pointed out. "With these skills dulled, you, your patients, and the very precarious relationship between you which identifies medicine as a science that cares can be damaged in the process. The application of the technologies you will be learning can actually set you and your patients apart unless you keep your interactive skills well honed."

Another reason for developing good listening, counseling and caring skills is the increasing "medicalization" of social problems, Rogers added.

"Problems like child abuse, sexual deviance, destructive behavior in children and other concerns are now being brought to doctors. We are being asked to play an increasing role in the management of these non-biologic conditions, and we are ill-equipped to handle them."

(Continued)
1978 Convocation Address (Continued)

However, Rogers does not feel that medicalization is a bad trend. He believes that it allows people to look at highly emotional issues more objectively, because medicine is viewed as a morally and politically neutral arena.

"Medicalization can complicate the problems of retaining your humanism and compassion, though," Rogers advised the new medical students. "You will have real difficulties in understanding or identifying with the tragic human failures you see. In an effort to deal with these depressing situations, you will often find it tempting to repress or set aside your emotions and caring tendencies — turning only to the technologic aspects of the case."

Rogers stressed guarding against this "setting aside" tendency, because it is one that is leading some of society to feel that doctors are more detached, more technically oriented and less helpful than they were regarded to be in the past.

Although some might feel that Rogers is advocating what is sometimes called "detached compassion," he was quick to point out that this is not quite his philosophy.

"Detached compassion means that the effective physician does not become completely involved or paralyzed by the emotional content of the problems of those who come to him for care. This physician stands off, showing that he understands and recognizes the anxiety, depression, grief or terror that accompanies illness, and lays a course to deal with both these emotions and the illness.

"But sometimes that compassion should not be so detached. The genuinely secure physician can sometimes put his arms around a patient, or holds his or her hand or even shed a tear with a bereaved wife or son or mother. It is a tricky tightrope to walk, and you will struggle to maintain a proper balance throughout your professional lives. But I am certain you can do it, as have many others in the past."

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THREE RECEIVE 1978 PATENGE AWARDS
FROM MSU COLLEGE OF OSTEOPATHIC MEDICINE

A foundation president, a former university trustee and a former executive of the American Osteopathic Association received the Walter F. Patenge Medal of Public Service from the Michigan State University College of Osteopathic Medicine.

Honored at the medical college's eighth annual convocation were David E. Rogers, M.D., president of the Robert Wood Johnson Foundation; Frank Merriman, a former member of the MSU Board of Trustees, and Lawrence W. Mills, a former executive now retired, with the American Osteopathic Association.

The award, named for the president of the Michigan Osteopathic Medicine Advisory Board and a long-time supporter of the osteopathic profession, is presented each year to individuals who have distinguished themselves in the area of education, medicine, or public service.

Dr. Rogers, the convocation keynote speaker, was named president of the Robert Wood Johnson Foundation in 1972, after serving four years as dean of medicine and vice president for medical affairs at Johns Hopkins University and medical director of the Johns Hopkins Hospital.

Before moving to Johns Hopkins, Dr. Rogers was professor and chairman of medicine at Vanderbilt University. He earned his M.D. at Cornell University Medical College. The foundation is a major private philanthropy interested in improving health in the United States.

Lawrence Mills from 1945 to 1972 was an executive with the American Osteopathic Association. He served as secretary of the AOA's Bureau of Professional Education and the Commission of Colleges. During his work with the AOA, he assisted state osteopathic societies in setting up recruitment programs, visiting more than 600 colleges in 45 states. A graduate of Kenyon College and of Ohio State University, he served eight years as assistant dean and dean of students at Case Institute of Technology, now part of Case-Western Reserve University.

Mills holds honorary degrees from the Chicago College of Osteopathic Medicine, Kirkville College of Osteopathic Medicine, and the College of Osteopathic Medicine and Surgery/Des Moines.

In addition to his 15 years of service on the MSU Board of Trustees, including two as board chairman, Frank Merriman has served as president of the Michigan Agricultural Conference, president of the Sanilac County Farm Bureau, secretary of the State Board of Animal Breeders, and chairman of the State Agricultural Extension Advisory Committee. He is a dairy farmer and a lifelong resident of Deckerville.

A former local president of the Michigan Milk Producers Association, he served on the advisory committee on vocational-technical education at the State Department of Education, the State Advisory Committee on Civil Rights and on the state youth planning committee.

A recipient of the Future Farmers of America Star Farmer Award, Merriman has been president of the Sanilac County Holstein Association and director and secretary of the Michigan Artificial Breeders Cooperative.

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JAMES M. SCHWINHAMER

James M. Schwinghamer, Ph.D., professor of physiology, died of leukemia on Thursday, Oct. 4. He was 40.

Dr. Schwinghamer taught physiology to undergraduate and to graduate and professional students in all three medical schools, more recently concentrating his efforts in the College of Osteopathic Medicine.

In 1977 he received MSU's highest faculty honor, the Distinguished Faculty Award, and was cited as "a scholar and a teacher of truly exceptional ability."

He was a 1972 winner of the MSU Teacher-Scholar Award, which lauded his dedication and unusual talent in "combining to make his teaching successful with diverse types of students."

Dr. Schwinghamer was recognized for excellence in teaching by the College of Osteopathic Medicine graduating class of 1975, and was selected by the graduates of 1975 and 1976 to participate in commencement hooding ceremonies.

Dr. Schwinghamer came to Michigan State as a research associate in 1966, was appointed assistant professor of physiology in 1968, associate professor in 1972 and a full professor in 1977.

He received his Ph.D. at the University of South Dakota, where he held a National Institutes of Health predoctoral fellowship and was a fellow of the South Dakota Heart Association. His undergraduate work was completed in St. John University, Collegeville, Minnesota.

A member of the American Physiology Society, the American Federation for Clinical Research and Sigma Xi, Dr. Schwinghamer published widely on a range of multidisciplinary investigations, including research on cardiovascular control systems.

He is survived by his wife, Judith, and two sons, Joseph Michael, 10, Matthew David, 8.

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A memorial fund is being established in Dr. Schwinghamer's memory. Administered by the Michigan State University Development Fund, the fund will support an appropriate event, project or scholarship in the College of Osteopathic Medicine as determined by a special committee of the College. Letters regarding making contributions to the fund will be sent to COM faculty and other friends of Dr. Schwinghamer. Interim information about making contributions can be obtained by calling the MSU Development Fund at (517) 355-8257.
MSU BOARD APPROVES NEW DEPARTMENT OF PEDIATRICS FOR COLLEGE OF OSTEOPATHIC MEDICINE

A Department of Pediatrics within the Michigan State University College of Osteopathic Medicine was approved by MSU's Board of Trustees at its October meeting.

Effective Jan. 1, 1979, the unit will be the first new solely administered department in the college since its inception.

Other college departments are family medicine, biomechanics, and osteopathic medicine, plus departments of community health science, pathology, psychiatry and radiology shared with the College of Human Medicine. Other jointly administered departments include the basic and behavioral sciences.

The board action confers departmental status upon the Section of Pediatrics, part of the Department of Osteopathic Medicine, which is the umbrella unit for the teaching of osteopathic specialties. A search and selection committee for the departmental chairperson is being organized.

Faculty in the Department of Pediatrics will include Bernard Kay, D.O., professor; Arthur Kurtze, D.O., associate professor; Myron S. Magen, D.O., professor and dean; Kenneth Mahoney, D.O., associate professor; Max Robins, D.O., associate professor; Thomas Santucci, D.O., professor; Frank Schneiderman, D.O., professor; and Lloyd Schneiderman, D.O., professor.

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CHARLES KING AND GARY SLICK APPOINTED DIRECTORS OF CLINICAL CLERKSHIP TRAINING

Directors of clinical clerkship training (DCCT) have been appointed by the MSU College of Osteopathic Medicine to act as liaisons with third-year students on clinical rotations at affiliated hospitals.

The new directors are Charles King, D.O., at Flint Osteopathic Hospital, and Gary Slick, D.O., at Detroit Osteopathic and Bi-County Community Hospitals. R. G. Curtis, D.O., has already been serving as DCCT at Lansing General Hospital.

Appointed both by the administrative boards of the hospitals and by the College, the directors of clinical clerkship training are responsible for coordinating the educational experiences of MSU-COM clerks on clinical rotations.

Dr. King, who also is director of medical education at the Flint hospital, received the D.O. degree from the Kansas City College of Osteopathic Medicine in 1967. He took his internship at Flint General Hospital, and his residency in general surgery at Flint Osteopathic Hospital, where he has been a staff surgeon since 1972.

Dr. Slick, an attending physician in the Nephrology Division at Detroit Osteopathic Hospital, received the D.O. from the Kansas City College of Osteopathic Medicine in 1969, and took internship and residency training at Oklahoma Osteopathic Hospital. He also served two years as a clinical and research fellow at the University of Iowa College of Medicine. He has been clinical assistant professor of medicine at MSU-COM since 1974.

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GEORGETOWN PROFESSOR TO DISCUSS
"VALUE IMPLICATIONS IN DISEASE"
AT MEDICAL HUMANITIES SEMINAR

The Rosemary Kennedy Professor of Philosophy of Medicine at Georgetown University, H. Tristram Engelhardt Jr. will present a Medical Humanities seminar at Michigan State University on November 30 at 8:15 p.m. at C106 Holmes Hall. His topic will be "Value Implications in Disease."

Dr. Engelhardt, who holds an M.D. and a Ph.D. in philosophy, has appointments in Georgetown's medical school, a philosophy department, The School of Foreign Service, and the Kennedy Institute for Bioethics. He has done extensive work on the mind-body problem both in philosophy and medicine and is the author of Mind-Body: A Categorical Relation.

In addition he is an associate editor of the forthcoming Encyclopedia of Bioethics and co-author of its article on "Philosophy of Medicine". He serves on the editorial staffs of both the Journal of Medicine and Philosophy and Ethics in Science and Medicine. Next summer Dr. Engelhardt will be conducting a six-week seminar for medical school faculty under the sponsorship of the National Endowment for the Humanities.

The November 9 Medical Humanities Seminar was presented by Leonard Isaacs, Ph.D., of MSU's Lyman Briggs College. He spoke on "Stitching Monsters, Splitting Atoms, and Splicing Genes."

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RHEUMATIC DISEASES TOPIC OF PONTIAC PROGRAM

"Diagnosis and Management of Rheumatic Diseases" will be the topic of a day-long program Saturday, December 9, at the Michigan Center for Continuing Education in Osteopathic Medicine in Pontiac. Presentations will range from septic arthritis to synovial analysis. John J. Zuzga, D.O., of Detroit is program chairman. For information, call (313) 335-7742.

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PEDIATRICS CONFERENCE ON MARCH 17-18

The second annual pediatrics conference, "Genetics and Hereditary Disorders in Children" will be held March 17 and 18 at the Kellogg Center for Continuing Education under the sponsorship of the MSU College of Osteopathic Medicine. Application will be made for 11 Category 1A continuing medical education credits. For information, contact Joan Martin Alam, 23 Kellogg Center, 353-7822.

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DR. HOTTENTOT, CLASS OF 1976, RECEIVES ACOS AWARD FOR PAPER

Robert C. G. Hottentot, D.O., a 1976 alumnus, was awarded third prize for a paper presented at the October 16 meeting of the American College of Osteopathic Surgeons.

His paper, "Congenital Absence of Distal Two-Thirds of the Tibia: Use of Calcaneus Graft to Obtain Fibula-Tibia Fusion" was selected for the Geigy Pharmaceuticals/ACOS Award for Scientific Literary Achievement.

Dr. Hottentot is presently a resident in orthopedic surgery at Flint Osteopathic Hospital.

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DR. COLEMAN RECEIVES APPOINTMENT AS ASSISTANT DEAN AT MSU GRADUATE SCHOOL

Don E. Coleman, Ph.D., director of the Minority Comprehensive Support Program of the Michigan State University College of Osteopathic Medicine, has been named an assistant dean of The Graduate School.

His new assignment, retroactive to October 16, was approved October 27 by the MSU Board of Trustees at its regular monthly meeting. The Graduate School is concerned with all aspects of graduate education at Michigan State University.

Dr. Coleman, who is also an assistant professor in the Department of Biomechanics, will continue to direct the minority program.

An MSU alumnus, he received the B.A., M.A., and Ph.D. degrees in 1952, 1956 and 1971 respectively. While an undergraduate student, Dr. Coleman was a football tackle and a unanimous All American selection in 1951. He was inducted into the National Football Foundation Hall of Fame in 1975.

Since 1954, Dr. Coleman has built a distinguished career in education. From 1954-68, he held positions as a junior and senior high school teacher, counselor and elementary principal.

In 1968 he joined the MSU faculty as an assistant professor in intercollegiate athletics. The following year he was named assistant director of student affairs, and he has held his posts in osteopathic medicine since 1974.

Dr. Coleman's professional memberships include the American Public Health Association, Association of American Medical Colleges, American Association of Colleges of Osteopathic Medicine, and the National Association of Minority Medical Educators.

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Gaston E. Blom, M.D., professor of psychiatry and special education, has been named as liaison to the International Year of the Child, 1979, by the American Academy of Child Psychiatry. His paper, "Common School Related Problems," was published in Psychosocial Aspects of Pediatric Care (Gellert, E., editor, New York, Greene & Stratton, 1978). He has served as the translator for and written the forward to Teaching of Reading Without Really Any Method: Reading Instruction in Denmark, Copenhagen (Jansen, M., et al., eds., Muuksgaard, 1978).

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Harry Perlstadt, Ph.D., associate professor of community health science and of sociology presented a paper at the annual meeting of the Medical Sociology Group of the British Sociological Association held at the University of York, September 22-24.

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Veronica Maher, Ph.D., and J. Justin McCormick, Ph.D., codirectors of the Carcinogenesis Laboratory, attended the 11th International Cancer Congress October 5-11 in Buenos Aires, and presented papers at the University of San Paulo Medical School.
ASPECTS OF LABORATORY ANIMAL RESEARCH EXAMINED AT NOVEMBER 8 CME PROGRAM

Research techniques involving animals, aspects of non-human primate research, and legislation compliance and inspection procedures for laboratory animals all were highlighted at a continuing education program November 8 at Michigan State University.

Sponsored by MSU's Laboratory Animal Care Service and the Michigan branch of the American Association for Laboratory Animal Service, the program was held at MSU's Clinical Center and at the Kellogg Center for Continuing Education.

Participants viewed demonstrations of research techniques involving both small and large animals and auto-tutorial programs on video cassette and slide-tape.

A seminar on legislation, compliance and inspection procedures featured Dr. Ron Scott of the U.S. Department of Agriculture, Dr. Robert Myers of the Michigan Department of Public Health, Michael Erspamer of the Food and Drug Administration, and a representative of the American Association for the Accreditation of Laboratory Animal Care.

Banquet speaker was Dr. Richard DuKelow of the MSU Endocrine Research Unit who discussed aspects of non-human primate research.

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AOA ACCREDITATION VISIT

A three-day site visit by the Accreditation Team of the American Osteopathic Association will take place at the MSU College of Osteopathic Medicine December 5, 6, and 7, 1978.

The team includes Joseph Namey, D.O. (team chairman), chairman of the AOA Committee on Colleges; Gail D. Burchette, D.O., of Kirksville, Mo.; Ray Koppelman, Ph.D., West Virginia School of Osteopathic Medicine; Patricia Cottrill, D.O., College of Osteopathic Medicine and Surgery, Des Moines; Martin E. Levitt, D.O., of Dayton, Ohio; F. L. Reed, D.O., member, AOA Committee on Colleges; Beverly Stockton, Ph.D., College of Osteopathic Medicine and Surgery, Des Moines; Georgia Walter, librarian, Kirksville College of Osteopathic Medicine; Douglas Ward, Ph.D., (team secretary), director of AOA Office of Osteopathic Education; and a representative from the American Osteopathic Hospital Association.

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CAMPBELL A. WARD, D.O.

Campbell A. Ward, D.O., who was instrumental in the establishment of the MSU College of Osteopathic Medicine, died September 26 in Mount Clemens General Hospital.

Dr. Ward, a past president of the American Osteopathic Association and of the Michigan Association of Osteopathic Physicians and Surgeons, had maintained a practice in Mt. Clemens since 1928.

Active in church, civic and community affairs, Dr. Ward was a founder of the old Mt. Clemens General Hospital and chairman of the building committee for the present hospital which bears that name.

He was the father of Robert C. Ward, D.O., professor in the Office of Medical Education Research and Development and director of special projects at the Michigan State University College of Osteopathic Medicine, and of Douglas Ward, Ph.D., director of the American Osteopathic Association Office of Osteopathic Education.
Please use this form for submission of material for the biweekly College of Osteopathic Medicine Communique.

Items might include achievements and activities of College personnel such as honors and awards, publications, papers, professional offices, and participation in programs and committees.

The form may also be used for items for the Calendar of Events, suggestions for feature stories, updating of programs, and provision of any other information that might be pertinent for publication in the newsletter.

The editors and editorial advisory committee retain the right to edit or exclude any material.

Please print or type, and do not include any information that is more than one month old.

Date of submission__________________

Name_____________________________ Highest degree____________________

Position____________________________

Address____________________________ Phone__________________________

CALENDAR ITEMS

Date___________________________ Time_____________________

Event____________________________

Sponsor___________________________

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NEWS ITEMS OR FEATURE SUGGESTIONS

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PLEASE RETURN TO the Health and Medicine Section, Information Services, A331 East Fee, Michigan State University, East Lansing, MI 48824. For assistance call 517/353-0820.
SOCIAL WELFARE vs. INDIVIDUAL RIGHTS PROGRAM  
WINDS UP "ETHICAL ISSUES IN MEDICINE" SERIES

Winding up the fall term "Ethical Issues in Medicine" series will be a November 16 presentation "Ethical Theory in the Medical Context: Social Welfare vs. Individual Rights." The 12:30 program will be held in E105 Fee Hall.

On November 9 the medical ethics series offered a program on "Ethical Problems in Controlled Clinical Trials". Participants were Martin Benjamin, Ph.D., of the Medical Humanities Program and the Department of Philosophy; Arnold Werner, M.D., Department of Psychiatry; Scott Swisher, M.D., dean for research, College of Human Medicine; and Daniel Bronstein, Resource Development and Department of Psychiatry.

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BIOCHEMISTRY DEPARTMENT ROUNDS OUT  
FALL CALENDAR WITH THREE SEMINARS

Three presentations will round out the Department of Biochemistry's fall 1978 schedule of seminars. Finn Wold of the University of Minnesota's Department of Biochemistry was featured on November 6, when he lectured on "Lectin-Sugar Interactions in Biological Communications." This talk, as will the remaining three, will last for one hour, starting at 11:30 a.m. in Room 101 of the Biochemistry Building.

The other presentations are:

November 13  Paul B. Sigler, Department of Biophysics and Theoretical Biology, University of Chicago, Chicago, Ill.

"Three-Dimensional Structure of a Eukaryotic Initiator - tRNA by X-ray Diffraction."

November 20  Peter H. von Hippel, Institute of Molecular Biology, University of Oregon, Eugene, Or.

"Specific and Non-Specific DNA Binding of Regulatory Proteins in Control of Genome Function."

December 6  Geoffrey Banks, Department of Biochemistry, Stanford University, Palo Alto, Ca.

"DNA - polymerase of Drosophila melanogaster."

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SOMA SPONSORS BASIC LIFE SUPPORT TRAINING SESSION

Members of the Student Osteopathic Medical Association conducted a training session in basic cardiac life support at the Kinawa Middle School, Okemos, October 10 and 12. Twenty-five persons attended the course and were certified. Instructors included second-year students Justin Cherubim, George Charney, Dave Armstrong, Hal Friedman, Jeff Jensen, and Christ Stoyanovich.

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NOVEMBER SEMINARS CONCLUDE
PHARMACOLOGY FALL TERM SCHEDULE

The fall agenda of departmental seminars in Pharmacology and Toxicology will conclude this month with four presentations scheduled on Tuesdays in Room B449, Life Sciences Bldg.

Dr. Marlene Cohen of Eli Lilly & Co. was the guest lecturer on November 7. Her topic was "Beta-Adrenergic Receptor Mechanisms in Blood Vessels." The remaining seminars will feature:

November 14  Dr. Frank Welsch
              MSU Department of Pharmacology
              In Vitro Systems in Teratology --
              The Usefulness of Cultured
              Mouse Limb Buds

November 21  Dr. K. T. Demerest
              MSU Department of Pharmacology
              The Localization of the Type A
              Form of Monomine Oxidase
              to the Dopaminergic Neuron

November 28  Ms. Suzanne M. Wuerthele
              MSU Department of Pharmacology
              Effects of Intrangrial Injections
              of Dopamine Agonists and
              Antagonists on Nigrostriatal
              Neuronal Activity

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REPUBLIC OF CHINA TOUR CONDUCTED
IN SEPTEMBER BY MILTON K. MILLER

Milton K. Miller, D.O., clinical professor of surgery, was tour leader of a group that visited the Republic of China from Sept. 4-24. COM student Eli Shapiro was a member of the diverse group which included six osteopathic physicians, four allopathic physicians, two CPA's, a retired minister, school teachers, housewives, businessmen and a psychologist.

Along with visits to communes, schools, factories, the agenda included museums, cultural events and outstanding historical sites. The group studied operations of hospitals, commune health stations, neighborhood clinics and a sanitarium.

The Ji Shuai Tang Hospital in Peking, which specializes in traumatology, was visited for ward rounds and briefings. Patients were examined who had undergone successful reconstruction of hand digits with toes through microsurgical procedures.

At the provincial hospital in Canton, the visitors observed cardiac valvular procedures, with patients under general anesthesia, and a thyroidectomy patient under acupuncture anesthesia.

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MSU'S FIRST-TIME FRESHMAN
ENROLLMENT LARGEST IN HISTORY

"Michigan State University has enrolled the largest number of first-time freshmen in its history," reported Ira Polley, Ph.D., assistant provost for admissions and records. Out of a total freshman class of 9,725, he said 7,087 are new students. Total fall enrollment on the East Lansing campus is 43,744, which is 467 fewer than in the fall of 1977.
'HEART DAY' SCHEDULED FOR DECEMBER 10

The annual 'Heart Day' continuing medical education program will begin at 7:30 a.m., Sunday, December 10 at the Michigan Center for Continuing Education in Osteopathic Medicine, 900 Auburn Rd., Pontiac. Sponsorship is shared with the Western Wayne County Heart Unit. Program chairman is William M. Ross, D.O. Additional information is available at (313) 335-7742.

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DECEMBER 15 DEADLINE FOR CARDIAC PACING COMPETITION

COM students interested in submitting papers for a student essay contest on cardiac pacing must do so by December 15. Sponsored by Intermedics, Inc., the competition is open to all students enrolled in osteopathic medical schools. Winning authors will be notified by Feb. 1, 1979.

Subject matter for an essay must relate to cardiac pacing, either temporary or permanent. The manuscript must be typed, double spaced, and not less than seven or more than 15 pages in length. An abstract and a summary of the material must be included. The bibliography should be submitted in the standard format for journal publication. Three copies of all of the manuscript material must be submitted, along with a curriculum vitae of the author.

Manuscripts should be submitted to: C. J. Del Marco, D.O., Senior Medical Consultant, Intermedics, Inc., P.O. Box 617, Freeport, Texas 77541. Manuscripts become the sole property of Intermedics, Inc., and may not be submitted for publication elsewhere without approval of Intermedics.

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WORKSHOP ON SMALL COMPUTERS SCHEDULED FOR NOVEMBER 14

Martin Kamp, M.D., chief of the Scientific Computing Services Division at the University of Southern California at San Francisco, will be the guest speaker at the November 14 workshop sponsored by the Faculty Development Program. Dr. Kamp will present a workshop on "Small Computers and Health Science Education."

The workshop will involve close observation of the usefulness of small computers in medical education. This medical application of contemporary teaching technology is no longer of secondary interest to teachers in the health sciences, report program directors. Lunch will be provided at the meeting. Location and other details can be obtained by calling 353-7285.

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INSTRUCTIONAL TESTING WORKSHOP PRESENTED NOVEMBER 28 BY DR. BELL

A workshop on "Instructional Testing" will be presented November 28 by Norman Bell, Ph.D., director of the Faculty Development Program. The program will be held from 11:30 a.m. to 1 p.m. in E-2 Fee Hall. RSVP at 353-7285. Lunch will be provided.

Dr. Bell says that the workshop is designed to enable participants to list and explain three reasons for using instructor-made tests and identify four common deficiencies in instructor-made tests; explain and apply a process of multiple choice item development, and explain and apply two processes for multiple choice item evaluation.
FALL TERM MICROBIOLOGY SEMINARS INCLUDE "BROWN BAG" LUNCH DISCUSSION SESSIONS

Lunch and lecture are a worthwhile combination, as earlier "brown bag seminars" sponsored by the Department of Microbiology and Public Health have proved. Five 12:30 p.m. presentations remain on the fall seminar schedule.

Dr. Richard Gershon of Yale University's Department of Biology discussed "Feedback Induction of Lymphoid Suppressor Cells" on November 7. The remaining five seminars are:

November 14  Genetic control of DNA synthesis during meiosis in yeast  
               Dr. Robert Roth  
               Department of Biology  
               Illinois Inst. of Technology  
               Chicago, Illinois

November 21  Studies on the selective inactivation and turnover of enzymes in sporulating Bacillus subtilis  
               Dr. Robert Switzer  
               University of Illinois at Urbana-Champaign  
               Department of Biochemistry  
               School of Chemical Sciences  
               Urbana, Illinois

November 28  Biochemical studies of the nutritionally versatile bacterium Pseudomonas cepacia and its unusual CP1 phage  
               Dr. Tom Lessie  
               Department of Microbiology  
               University of Massachusetts  
               Amherst, Massachusetts

December 5   Aspects of the mechanism of antibiotic action  
               Dr. Michael H. Cynamon  
               Department of Internal Medicine  
               Washington University  
               School of Medicine  
               St. Louis, Missouri

December 12  Cyclic AMP and adenyl cyclase  
               Dr. Allan Peterkofsky  
               Laboratory of Biochemical Genetics  
               National Institutes of Health  
               Bethesda, Maryland

All of the seminars will be held in Room 146 of Giltner Hall. A discussion and brown bag lunch session will be held at 1:30 p.m. in 294 Giltner after each seminar. Anyone who would like additional information should contact the Department of Microbiology and Public Health at 355-6498.

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NOV. 6 GRAND ROUNDS FEATURES HOWARD DEAN

Faculty grand rounds in the College of Osteopathic Medicine featured a presentation November 6 on "Eosinophilic Gastroenteritis" by Howard Dean, D.O., assistant professor of gastroenterology.

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Robert C. Orr, D.O., assistant clinical professor, served as a panel member for the National Conference on Health Research Principles held by the National Institute of Health October 3-4 in Washington, D.C.


Brigitte Jordan, Ph.D., assistant professor of anthropology, has returned from fieldwork conducted in Europe in connection with a research project on cross-cultural childbirth funded by the National Institute of Child Health and Human Development. During her stay, she collected data on obstetric practices in Holland and Sweden, including videotapes of childbirth at home and in the hospital, and gave several talks on her research to medical audiences in Stockholm, Oslo and Amsterdam.

On October 12, she spoke on "Cultural Differences in the Birthing Process" during the Pediatric Grand Rounds at St. Lawrence Hospital in Lansing.

Bruce K. Call, D.O., 1977 alumnus, has begun a general practice at 918 Corunna Ave., Owosso. He recently completed a rotating internship at Flint Osteopathic Hospital, and will serve on the staff of Owosso Memorial Hospital.

Neil Farkas, M.S., a second-year student, has had a research paper, "Cytoarchitecture of Dentate Gyrus" accepted for 1979 publication in the Journal of the American Osteopathic Association. The project was funded by a grant from the United States Department of Public Health.

Kathryn Troll Henderson, B. F. A., a second-year student, recently placed second of 31 medical students and associated health professionals in a national writing competition sponsored by the Biomedical Synergistics Institute. Her paper, "Cardiovascular Fitness: Historical Perspectives and Current Approaches," was written in conjunction with the Department of Community Health Sciences. The honor includes a $500 award and a trip to the Second National Conference on Human Functioning held in September in Wichita.

Henderson recently exhibited her textile work, including handspun yard dyed with plant extracts and several woven pieces, at a show on "Dye Color: An Exhibition of Natural Dyes" held in conjunction with a natural dye workshop at the Mariposa Handweaver Shop in Traverse City.

Arthur S. Elstein, Ph.D., professor and director of the Office of Medical Education Research and Development presented "A psychological model of clinical reasoning" at the annual meeting of the Society for Computers held in Minneapolis. Earlier he served as a special consultant on performance evaluation to the World Health Organization at its international headquarters in Geneva. In late October (24-26) Dr. Elstein attended the annual Conference on Research in Medical Education in New Orleans where he presented a paper (co-authored with John Molidor and Larry King) "Assessment of problem-solving skills as a screen for medical school admissions."
GIFTS AND GRANTS

The following medically-related gifts and grants were among those accepted in July and September by the MSU Board of Trustees. The board did not meet in August.

College of Osteopathic Medicine
National Cancer Institute
--Role of mutagenesis in chemical carcinogenesis/V. Maher

Department of Energy
--Cytotoxic, mutagenic and carcinogenic effects of energy-related agents in diploid human cells which differ in their repair capacity/J. J. McCormick

Various donors
--Cancer research/P. Gerhardt

Anatomy
American Cancer Society, Inc.
--Induction of adenosis by trans-placental exposure of mice to DES/B. Walker

--Possible role of pituitary prolactin in human containing breast tumorigenesis/C. Welsh

Michigan Heart Association
--Human neutrophil-endothelial cell interactions in vitro/C. W. Smith

National Institutes of Health
--Oral contraceptives and hypertension/G. W. Lew

Anthropology
Department of HEW-National Research Service Award
--Medical anthropology traineeship grant/A. J. Rubel

Biochemistry
National Institute of General Medical Sciences
--Comparative enzymology of normal and abnormal tissue/C. H. Suelter

National Science Foundation
--High resolution structure determination of a trimeric aldolase from Pseudomonas/W. Wood, A. Tulinsky

National Science Foundation (continued)
--Study of leaf peroxisomes and photosynthesis/N. E. Tolbert

--Structural and functional aspects of enzymes/C. H. Suelter

National Institute of Child Health and Human Development
--Regulation of uterine prostaglandin biosynthesis/W. L. Smith

National Institutes of Health
--Effects of messenger RNA structure on translation/A. J. Morris

--Chemistry and metabolism of sphingolipids/C. C. Sweeley

--Prostaglandin synthesis in kidney collecting tubules/W. L. Smith

--Mitochondrial hexokinase and brain metabolism/J. E. Wilson

Muscular Dystrophy
--Comparative enzymology of normal and dystrophic tissue/C. H. Suelter

MSU Foundation
--Study plasmids in rhizobium and utilize them as a possible tool for genetic engineering/K. R. Schubert

Health Energy Services, Inc.
--Development of specialized biochemical research instrumentation/H. Holland

Biomechanics
The Cranial Academy
--Histochemical studies of the cranial suture/F. L. Mitchell Jr., E. Retzlaff

Genesee Intermediate School District
--Basic research in craniosacral dysfunction/R. W. Little

(continued)
GIFTS AND GRANTS (Continued)

National Institutes of Health
--Determine the influence of dietary antimicrobial lipids on dental caries/
J. J. Kabara

American Osteopathic Association
--Effect of dietary fat on urinary and tissue levels of catecholamines/
J. J. Kabara

R. L. Augustine
--Muscle disorders/R. W. Little

Michigan Osteopathic College Foundation
--Protein and isozyme electrophoresis/
J. J. Kabara

Biophysics
National Cancer Institute
--Metal coordination complexes in cancer chemotherapy/B. Rosenberg

National Science Foundation
--Regional specializations in cerebral neocortex/J. I. Johnson, Jr.

National Institute of General Medical Science
--Bilayer lipid membranes in aqueous media/H. T. Tien

Community Health Sciences
State of Michigan, Office of Services to the Aging
--Profile of the 13 planning service areas of the Office of Services to the Aging/
R. J. Sprafka, J. Gruenon

Genesee County Health Department
--Development of applied methods for interpretation and presentation of health survey results for health planning purposes as related to the special requirements of Flint and Genesee County/R. J. Sprafka

Michigan Department of Public Health
--Provide for an overview evaluation of the Ambulator Care Data System Project/C. W. Given

Allegan and VanBuren County Health Departments
--Health departments-University partnership for public health and preventive medicine educa-
tion/S. Katz

Family Practice
Division of Medicine/Health, Education and Welfare
--Conduct a joint family practice residency training program between St. Lawrence Hospital
and the Department of Family Practice/R. J. Gerard

Human Development
--DNA repair and mutagenesis in mammalian cells/J. E. Trosko

Medicine
Children's Leukemia Foundation
--Regional leukopheresis program/G. Tishkoff

--Effects of proteases and human protease inhibitor on lymphocyte blastogenesis/
L. D. Aronson

Hoffman-LaRoche, Inc.
--Support of the MSU urology/nephrology program/G. Mayor

University of Pittsburgh
--NSAP colorectal protocol/N. Dimitrov,
L. G. Suhrland

Saginaw Cooperative Hospitals, Inc.
--Breast protocol patients/N. Dimitrov

American Cancer Society, Inc.
--Appointment: Professorship of clinical oncology/
L. G. Suhrland

Michigan Department of Public Health
--Development of appropriate bone mineral standards for blacks/C. Mayor

(continued)
Microbiology and Public Health
National Science Foundation
--Biochemical relationships between symbiotic microorganisms and their hosts/J. A. Breznak
--Regulation of meiosis and ascospore formation/P. T. Magee
--Carbon cycling as controlled by electron acceptor availability in anaerobic ecosystems/M. J. King, J. M. Tiedje

National Cancer Institute
--Immunogenesis from bone marrow cells/H. C. Miller
--Molecular biology of RNA tumor viruses/L. F. Velicer

Obstetrics, Gynecology and Reproductive Biology
Michigan Department of Public Health
--Regionalization of perinatal care in Michigan/T. H. Kirschbaum

Office of Medical Education Research and Development
U. S. Public Health Service
--Design a comprehensive program in faculty development for family medicine/R. G. Bridgham

Osteopathic Medicine
The Upjohn Company
--Departmental development/W. Mill

Pathology
Michigan Heart Association
--Role of contractile proteins in platelet aggregation/J. C. Mattson

Upjohn Company
--Graduate research support/R. F. Langham

Pharmacology
Fogarty International Center
--Senior international fellowship/R. H. Rech

Michigan Heart Association
--Transport of NE by sympathetic neurons of SHR/J. L. Stickney
--Fellowship/J. M. Chubb

Pharmacology and Toxicology (continued)
National Institute of Child Health and Human Development
--Anatomical and functional development of the kidney/M. D. Ballie

National Cancer Institute
--Repair synthesis of DNA in precancerous rat liver/J. I. Goodman
--Characterization and isolation of drug binding sites from male S. mansoni/J. L. Bennett

Physiology
Michigan Heart Association
--Cardiac influence of intestinal ischemia after shock/C. Chou
--Cardiopulmonary afferent control of renal function/L. C. Weaver
--Focal brain blood flow transients during hypercapnia/T. Adams

National Institutes of Health
--Autonomic control of renal function/L. C. Weaver

National Institutes on Aging
--Hypothalamo-pituitary-ovarian relationships in aging rat/J. Meites

National Heart, Lung and Blood Institute
--Mechanisms of hemodynamic changes during digestion/C. Chou

National Science Foundation
--Aging effects on hypothalamic gonadotropin control/G. D. Riegle

Psychiatry
Butterworth Hospital, Kent County
Ingham Community Mental Health Center, Pine Rest Christian Hospital
--Psychiatric residency training programs/N. B. Enzer

National Institute of Mental Health
--Osteopathic medical student psychiatry education
--Undergraduate psychiatry
--Undergraduate human behavior/A. Werner
--Psychiatric residency training/L. Rosen
--Child psychiatry training in community settings/G. Blom

(continued)
GIFTS AND GRANTS (Continued)

Psychology
MSU Foundation
--Spatial learning without vision/
M. S. Denney

National Institutes of Health
--Volunteers and the diversion of
juvenile offenders/ W. S. Davison

National Institute of Mental Health
--Ph. D. training social psychology/
E. H. Jacobson
--Ph. D. training in experimental
genral psychology/ L. J. Harris

--Ph. D. training in ecological psychology/
G. W. Fairweather, L. G. Tornatzky
--Ph. D. training in clinical psychology/
D. O. Grummon

Surgery
Upjohn Company
--Extravascular lung water/L. J. Dunegan

Zoology
National Institute of Health
--Carcinogen-induced rat mammary
hyperplasia/ E. M. Rivera

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MAGEN, LITTLE TO ADDRESS SEMINARS ON OSTEOPATHIC HOSPITALS

"The Osteopathic Hospital: To Be or Not to Be -- Unique?" will be discussed by two representatives from the MSU College of Osteopathic Medicine at a November 17-18 program in Bay City.

Myron S. Magen, D.O., dean, will present "The Past, the Present and the Veiled Obvious" at 8:30 p.m. Friday, and Robert Little, Ph. D., chairman of biomechanics, will discuss the "Present Status of Clinical and Basic Research in Osteopathic Medicine at Michigan State University" at 10:30 a.m. Saturday.

The program, to be held at the Bay Valley Inn, is sponsored by the Michigan Osteopathic Hospital Association, the Michigan Association of Osteopathic Physicians and Surgeons, and the MSU College of Osteopathic Medicine.

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NEPAL SLIDES NOVEMBER 17

Two hours of slides and movies on his trip to Nepal will be shown November 17 at noon and 7:30 p.m. by Lon A. Hoover, D.O., associate professor of family medicine, in E106 Fee. The program will include his trek of 169 miles in 19 days between Annapurna, Dhauligiri, and the Kali Gandaki Valley.

***

Andrew S. Mackenzie, D.O., associate professor of radiology, was presented with a life membership certificate from the American Osteopathic College of Radiology at its annual banquet October 17 in Atlanta, Georgia.

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Robert Brichton, Ph.D., professor in the Office of Medical Education Research and Development, presented a paper on "Implications of Health Care Futures for Medical Education" at the World Future Society meeting at the University of Houston, October 20-22.

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UNIT III NEWS AND INFORMATION

Grandview Hospital

Grandview Hospital in Dayton, Ohio, has immediate openings in general surgery for clinical clerks. Minimum time for the rotations is one month. Meals, and possible housing, are provided. For information, call 513/226-3247.

Elective Programs

Students interested in the following elective programs may contact the Unit III office for a copy of elective service protocols for objectives and implementation details.

**Lansing General**: A service protocol for anatomic and clinical pathology has been submitted. Dr. Eugene Sherrod and Dr. Robert Biondi are supervising physicians. Length of service is two weeks.

**Lakeview General Hospital** is offering the following electives:
—Obstetrics and gynecology surgery, under the supervision of William K. Hall, D. O.; Terry Davis, D. O; and John Collins, D.O.
—Emergency room service, under the supervision of James F. Haefenden, D. O., and Patrick Laughlin, D.O.
—Medicine, under the supervision of Dudley D. Darr, D.O. and Richard P. Black, D.O.

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COLLEGE OF OSTEOPATHIC MEDICINE DIRECTORY FOR UNIT III STUDENTS

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<thead>
<tr>
<th>Office</th>
<th>Name</th>
<th>Phone</th>
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<tbody>
<tr>
<td>Dean</td>
<td>Myron S. Magen</td>
<td>355-9616</td>
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<tr>
<td>Unit III Office</td>
<td>Gordon Spink, Jane Waldron</td>
<td>353-8823</td>
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<tr>
<td>Research</td>
<td>Philipp Gerhardt</td>
<td>353-1781</td>
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<td>Academic Affairs</td>
<td>Philip E. Greenman</td>
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<td>Lynn Brumm</td>
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<td>Osteopathic Medicine</td>
<td>Walter Mill</td>
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