new faculty reception
ON THE COVER

Some of the faces at the orientation reception for new faculty of the MSU College of Osteopathic Medicine included (Column I) Howard Dean, Margaret Ajunwa, *Jasper Lillie, *John Costantino; (Column II) *Robert Stephenson, *Daniel Raub, *Matthew Terry, and Robert Britcson and Eldon Clark; (Column III) Estelle McGroarty, *William Falls, Anita Hattner, Gail Riegel; (Column IV) *Kenneth Stringer, Theodore Brody and Charles Sweeley, Bruce Miles. For more on new faculty, please see page 8. (*denotes new faculty)

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COMMUNIQUE

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RUTH S. HANFT SPEAKER AT CONVOCATION: FIVE TO RECEIVE PATENGE AWARD

Ruth S. Hanft will be the keynote speaker and she and four other persons will receive the Walter F. Patenge Medals of Public Service at the ninth annual convocation of the Michigan State University College of Osteopathic Medicine.

The convocation, held to honor the entering class of osteopathic medical students, will begin at 3:30 p.m., Friday, October 26, in Erickson Hall Kiva on the MSU campus.

Recipients of the Patenge medals will include Mrs. Hanft, deputy assistant secretary for health research, statistics and technology in the Department of Health, Education and Welfare; W. C. Andreen, D.O., distinguished family physician; Donald J. Evans, D.O., a noted thoracic and cardiovascular surgeon; Eugene L. Sikorski, D.O., a leader in osteopathic medicine at national, state and local levels; and (posthumously) Michael J. O'Brien, who had 34 years of service in the Michigan legislature.

The Patenge medals are awarded each year to persons who have distinguished themselves in the areas of medicine, education or public service. The award is named for the president of the Michigan Osteopathic Medicine Advisory Board, who is a long-time supporter of the osteopathic profession.

Ruth S. Hanft's distinguished career in health care management, financing and manpower has included the posts of deputy assistant secretary for health policy, research and statistics, and special assistant for health care financing in the Office of the Assistant Secretary for Health, Public Health Service; and senior research associate and study director of two congressionally mandated studies on Medicaid/Medicare reimbursement policies and costs of education in the health professions for the Institute of Medicine, National Academy of Sciences.

She also has served as program analyst for the Office of the Assistant Secretary for Planning and Evaluation, HEW, director of the Technical Task Force on National Health Insurance, and deputy to the staff director for Medicaid and related programs; grants manager for the chief of evaluation, Office of Health Affairs, Office of Economic Opportunity, and as social science analyst, Office of Research and Statistics, Social Security Administration.

A visiting professor at Dartmouth Medical School and a freelance consultant, Mrs. Hanft is a graduate of Cornell University and Hunter College. She is the coauthor of several books and the author of numerous articles, speeches and monographs on health manpower, national health expenditures and insurance, and health care costs.

Mrs. Hanft is also a member of the Institute of Medicine of National Academy of Science and a fellow of the Hastings Institute.
W. C. Andreen, a pioneer of the Michigan State University College of Osteopathic Medicine, is a past president of the American College of General Practitioners and the founder of that group in Michigan.

Recognized as the "G.P. of the Year" in 1962, Dr. Andreen was a member of the original board of the Michigan Osteopathic College Foundation, a three-term president of the Michigan Association of Osteopathic Physicians and Surgeons, and served on the board of directors of the American Osteopathic Association for six years.

He gained national recognition as a member of the White House Committee on Aging, the White House Committee on Youth, and as a participant on the Committee of 200 invited by President Lyndon Johnson for introduction of the Medicare program.

The recipient of the first Presidential Citation issued by MAOP&S, Dr. Andreen, a member of the Greater Detroit United Foundation Board for five years, received the Wyandotte Chamber of Commerce Citizens Award.

Donald J. Evans, a thoracic and cardiovascular surgeon of international prominence, led the effort to establish in Michigan the first new osteopathic college in the nation in half a century.

A member of the Michigan Osteopathic College Board from its inception until the College moved to MSU, Dr. Evans was chairman of the College Development Committee for six years. Studies done by the committee led to the establishment of the Michigan Osteopathic College Foundation and the development of plans, site surveys and a fund-raising campaign among osteopathic physicians for support of the new college.

Dr. Evans has been the recipient of three fellowships, including one at the University of Montpellier, France, and one at the University of Munich under the auspices of the National Heart Institute.

Former president of the Michigan Association of Osteopathic Physicians and Surgeons, Dr. Evans is a senior member and fellow of the American College of Osteopathic Surgeons, and a founding member of the American Trauma Society. A clinical professor of general surgery at MSU-COM, he is chairman of thoracic and cardiovascular surgery at Detroit and Pontiac Osteopathic Hospitals.

Eugene L. Sikorski serves as a member of the Board of Trustees of the Michigan Osteopathic College Foundation and a member of the Michigan Osteopathic Advisory Board.

A past president of the Michigan Association of Osteopathic Physicians and Surgeons, Dr. Sikorski also served as chairman of the Department of Internal Affairs, chairman of the membership committee, third vice president, and a member of the Board of Trustees of the American Osteopathic Association. He also has been executive director and past president of the Oakland County Osteopathic Association.

A member of the Michigan Board of Osteopathic Medicine and Surgery since 1972, and a member of the Michigan Department of Licensing and Regulation, Dr. Sikorski has served as president of the National Board of Osteopathic Medical Examiners since 1976.
Named a fellow of the American College of Osteopathic General Practitioners, Dr. Sikorski has held several offices in the Michigan Association of General Practice, is a member of the corporate board of Michigan Blue Shield and serves on several committees of the Comprehensive Health Planning Council of Southeastern Michigan.

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Michael J. O'Brien, distinguished Michigan legislator and the son and father of state legislators, was instrumental in the establishment of the MSU College of Osteopathic Medicine.

Known as the "dean of the Michigan legislature," O'Brien, a life-long resident of Detroit, served as a state representative from 1940 until his election to the senate in 1964, and as senator until his death in 1974.

O'Brien has received numerous awards including the Distinguished Service Award from the County Road Association of Michigan, the Michigan Agricultural Conference Distinguished Service Award, and the Statesmanship Award from the Michigan Hospital Association.

He was also the recipient of the Michigan Society of Professional Engineers Good Government Award, the Legislative Service Award from the Michigan Retail Hardware Association, and was inducted into the Michigan Highway Hall of Honor in 1975.

MSU NAMES NEW CHAIRMAN OF BIOCHEMISTRY DEPARTMENT

Charles C. Sweeley, Ph.D., professor of biochemistry at Michigan State University since 1968, has been named chairman of the university's Department of Biochemistry. His appointment was approved September 28 by the MSU Board of Trustees. He succeeds Robert Barker, who joined the Cornell University faculty last summer.

Dr. Sweeley, a 1970 winner of a Guggenheim Fellowship, is co-director of the university's Mass Spectrometry Facility, considered one of the nation's most versatile centers for analyzing complex chemicals.

He is cited as one of the 300 scientists most quoted from 1961-71 in the world literature. From 1973-77 he was assistant dean for research in MSU's College of Human Medicine.

His major research interests are metabolic profiling by mass spectrometry, studies of cell surface glycolipids in normal cells in tissue culture, and the role of cell surface glycolipids in neoplasms. His departmental responsibilities have included direction of research by graduate students and postdoctoral fellows.

Before coming to East Lansing, Dr. Sweeley was professor of biochemistry at the University of Pittsburgh and had previously been with the National Institutes of Health. A graduate of the University of Pennsylvania, he received his Ph.D. in 1955 from the University of Illinois.
Speakers at the reunion included alumni Matthew Terry, Glen Hatcher, Lester Burkow, Lawrence Holen, John Thornburg.

FIRST MSU-COM ALUMNI REUNION AND SCIENTIFIC SEMINAR: SUCCESS!

More than 60 persons participated in the many activities planned for the first MSU-COM alumni reunion and scientific seminar, held at MSU September 15-16.

Events included a tour of the MSU Clinical Center, a banquet, continuing medical education programs conducted by alumni, the MSU-Oregon football game, and a post-football party.

The reunion was featured in a two-page spread in the football program, and recognized six times on the new stadium message board.

Eric VanderHaagen of Traverse City received the Spartan flag for travelling the farthest to the event.

Planning and organization of the reunion was done by Gordon Spink, D.O., Ph.D., chairman of the MSU-COM Alumni Association and by Sandy Kilbourn, M.A., association executive secretary.
Chatting with Association president Gordon Spink (center) are program speakers Ruth Anker and Charles B. Dehlin, both alumni.

FIRST MSU-COM ALUMNI REUNION

President Gordon Spink and alumni board member Rosemary Havey check registration.

A banquet buffet at the University Inn highlighted Friday night's activities.
FIFTEEN NEW FACULTY NAMED AT
MSU COLLEGE OF OSTEOPATHIC MEDICINE

Fifteen new faculty members have joined the MSU College of Osteopathic Medicine, and were honored with an orientation and faculty reception during September.

The faculty are working in nine of the College's departments. They include:

Department of Anatomy
  William Falls, Ph.D., assistant professor; formerly from Ohio State University.
  Irena Grofova, Ph.D., visiting associate professor from Oslo, Norway.
  J. A. Gonzalez-Vegas, Ph.D., visiting professor from Caracas, Venezuela.

Department of Biomechanics
  Yoram Lanir, Ph.D., visiting associate professor from Technion — Israel Institute of Technology, Haifa, Israel.

Department of Family Medicine
  JoAnn Grzeszak-Shaltz, D.O., assistant professor; formerly a staff physician at MSU's Olin Health Center.
  Daniel Raub, D.O., assistant professor; a former flight surgeon with the United States Air Force.
  Matthew Terry, D.O., assistant professor; recently completed a residency at the Osteopathic Hospital of Maine in Portland.

Department of Microbiology and Public Health
  Jerry B. Dodge, Ph.D., assistant professor; formerly from the California Technological Institute.
  Michelle M. Fluck, Ph.D., associate professor; formerly from Harvard University

Department of Osteopathic Medicine
  John Michael Costantino, D.O., assistant professor; recently completed a fellowship in nephrology at the University of Michigan.

Department of Pediatrics
  Kenneth Stringer, D.O., assistant professor; formerly from Children's Hospital, Detroit.

Department of Physiology
  Robert Stephenson, Ph.D., assistant professor; formerly from University of Washington.

Department of Radiology
  Jack Harris, M.D., associate professor; formerly of Carlisle Hospital, Carlisle, Pennsylvania.

Department of Zoology
  Donald Straney, Ph.D., associate professor; formerly at the University of California, Berkeley.

Of the new faculty, Drs. Terry, Grzeszak-Shaltz, Lillie and Stringer are alumni of MSU College of Osteopathic Medicine.
UNIT III NEWS AND INFORMATION

October 15:
Selectives
Applications

October 15 is the due date for applications for selectives occurring during winter term — December 10, 1979, through March 9, 1980. All applications must be received in the Unit III office by that date in order to complete early enrollment.

Selective
Elective
Opportunities

Kenneth P. Glinter, D.O., director of medical education at Riverside Osteopathic Hospital, has announced openings for externs from now through June 1980. Selectives are available in the following services: anesthesiology, cardiology, emergency room, ENT, internal medicine, obstetrics and gynecology, orthopedics, pediatrics, radiology and surgery. To arrange a selective rotation, contact Glinter at 313-676-4200.

USPHS
Indian Health
Clerkship

The U. S. Public Health Service has notified the College that clinical clerkships are available at its Indian Health Center in Winslow, Arizona. Because the clerkship would require one or two months, it may be of interest primarily to students who are extending their Unit III programs. College approval as indicated in the Selective Protocol for "special" or "non-approved" selectives would be necessary.

The clerkship is described as a primary care experience, involving three outpatient clinics, emergency room, specialty clinics, and didactic lectures in medicine, pediatrics, surgery and obstetrics and gynecology. The clinic staff includes both M.D.s and D.O.s. Additional information can be requested from Dennis Conyers, M.D., medical student coordinator, Winslow Indian Health Center, P.O. Drawer 40, Winslow, AZ, 86047.

GADOWSKI NAMED VICE PRESIDENT AND DME FOR OSTEOPATHIC HOSPITALS OF DETROIT, INC.

Raymond A. Gadowski, D.O., has been named vice president and director of medical education at Osteopathic Hospitals of Detroit, Inc.

He had served as medical director of Detroit Osteopathic Hospital and director of medical education at DOH and Bi-County Community Hospitals prior to this appointment. He was in private practice from 1947 to 1974.

Gadowski is currently executive secretary and a past president of the Wayne County Osteopathic Association. He is also active in the American Osteopathic Association, the Michigan Association of Osteopathic Physicians and Surgeons, and the Michigan Hospital Association.

He was appointed by the governor to the Michigan Arbitration Advisory Committee, and serves on the Michigan PSRO Council and the Comprehensive Planning Council of Southeastern Michigan.

Osteopathic Hospitals of Detroit, Inc., comprises the former Art Centre Hospital and the former Zieger Osteopathic Hospital.
GIFTS AND GRANTS

The following medically related gifts and grants were among those accepted by the Michigan State University Board of Trustees at their meeting September 28.

Anatomy

American Cancer Society, Inc.
—Hormonal control of human breast tumorigenesis/ C. W. Welsch

Children’s Leukemia Foundation of Michigan
—To study the assessment and adhesiveness in human neutrophils in vitro/ C. W. Smith

Anthropology

National Institute of Mental Health
—Medical anthropology traineeship/ A. J. Rubel

Biochemistry

Muscular Dystrophy Association
—Institutional allowance/ C. H. Suelter

National Science Foundation
—Application for a biological safety facility/ F. M. Rottman
—Leaf peroxisomes and photorespiration/ N. E. Tolbert

National Institute of Arthritis, Metabolism and Digestive Diseases
—To study the effects of messenger RNA structure on the translation process/ A. J. Morris

National Institutes of Health
—To study the chemistry and metabolism of sphingolipids/ C. C. Sweeley
—To study the relationship between hexokinase and energy metabolism in the brain/ J. E. Wilson

Biomechanics

Cranial Academy
—Histochemical studies of the cranial sutures/ E. W. Retzlaff

Genesee Intermediate School District
—To support basic research in the craniosacral dysfunction/ R. W. Little

National Institute on Aging
—To determine the functional relationships between the motility mechanical behavior, structure, composition, and age of soft connective tissue/ R. W. Little

Biophysics

National Cancer Institute
—Research metal coordination complexes in cancer chemotherapy/ B. Rosenberg

National Institute of General Medical Science
—Research on bilayer lipid membranes in aqueous media/ H. T. Tien

Community Health Science

 Allegan and Van Buren Counties
—Health departments and university partnership for public health and preventive medicine education/ S. Katz

Office of the Dean

National Cancer Institute
—Interaction of carcinogens with DNA repair of lesions/ V. Maher
—Transformation of human cells by chemical carcinogens/ J. J. McCormick
—Study the role of mutagenesis in chemical carcinogens/ V. M. Maher

National Institutes of Health
—Support biomedical research/ P. Gerhardt
MONDAY, NOVEMBER 5, 1979

11:30 a.m. "NMR and Deuterium Exchange Studies of Mutagen Nucleic Acid Complexes in Solution" by Neville R. Kallenbach, Department of Biology, University of Pennsylvania. 101 Biochemistry.

TUESDAY, NOVEMBER 6, 1979

4 p.m. Pharmacology and Toxicology seminar: "Mechanisms of Lipid Peroxidation" by Steven Aust, Ph.D., professor of biochemistry, MSU. B448 Life Sciences.

4 p.m. Microbiology and Public Health seminar: "Yeast Histone Genes: Simple Genes in a Simple Organism" by Lynna Herford, Rosentiel Basic Medical Science Research Center, Brandeis University. (jointly sponsored with Genetics Program). 146 Giltner.

THURSDAY, NOVEMBER 8, 1979

4 p.m. Microbiology and Public Health seminar: "Ribosomal Protein Genes" by Michael Rosbash, Rosenstiel Basic Medical Science Research Center, Brandeis University. (jointly sponsored with Genetics Program). 103 Anthony.

MONDAY, NOVEMBER 12, 1979

11:30 a.m. Biochemistry seminar: "Studies on Crystalline Aspartate Aminotransferase" by David E. Metzler, Departments of Biochemistry and Biophysics, Iowa State University. 101 Biochemistry.

12 p.m. "Overview of the Biomedical Program Established during the Lunar Mission and Implications for Clinical Problem Solving, by Charles Ross, D.O., of Shell Oil Corporation. Ross was formerly the flight recovery surgeon for all lunar missions and designed the biomedical program for the space station for the National Aeronautics and Space Administration.

3:30 p.m. Dean's seminar: "Need in College Curriculum Preventive Medicine as it Relates to Occupational Issues" by Charles Ross, D.O., Shell Oil Corporation, formerly of NASA. Until 5 p.m.

TUESDAY, NOVEMBER 13, 1979

4 p.m. Microbiology and Public Health seminar: Topic to be announced. Magdelene So, Department of Biochemistry, University of California, San Francisco. 146 Giltner.

4 p.m. Pharmacology and Toxicology seminar: Topic to be announced. Lawrence J. Marnett, Department of Chemistry, Wayne State University. B448 Life Sciences.

WEDNESDAY, NOVEMBER 14, 1979

8:15 a.m. Faculty Development Program: "Clinical Teaching Skills — Part I" by John Casbergue, Ph.D., associate professor, Office of Medical Education Research and Development. Until noon. For information, contact Sharon Rochon, 517/355-9611. E2 Fee Hall.
MONDAY, OCTOBER 15, 1979

Due date for winter term selective applications for Unit III osteopathic medical students. Contact Unit III office for further information.

11:30 a.m. Biochemistry seminar: "New Perspectives in the Regulation of Ketogenesis" by J. Denis McGarry, Departments of Internal Medicine and Biochemistry, Southwestern Medical School, University of Texas at Dallas. 101 Biochemistry.

TUESDAY, OCTOBER 16, 1979

4 p.m. Pharmacology and Toxicology seminar: "Prazosin and Phentolamine (Alpha Adrenoreceptor Antagonist): Studies in Experimental Hypertension" by Harvey Kaplan, Cardiovascular Section, Department of Pharmacology. Warner-Lambert/Parke-Davis. B448 Life Sciences.

WEDNESDAY, OCTOBER 17, 1979

10 a.m. Faculty Development Program: "Myers-Briggs Indicator Test: Application of Individual Differences" by Charles Laughlin, assistant dean of the College of Agriculture and National Resources, and Harold Prince, professor and assistant chairman of the Department of Fisheries and Wildlife. Until 1 p.m. For information, call Sharon Rochon, 517/355-9611. E2 Fee Hall.

7 p.m. College of Osteopathic Medicine open house. Sponsored by Office of Admissions. Included tours of building. Until 9 p.m.

7 p.m. "Pathogenesis of Cardiovascular Disease through the Autonomic Nervous System" by Gary Campbell, D.O., associate professor of family medicine. Until 9 p.m. Sponsored by Undergraduate American Academy of Osteopathy. E106 Fee Hall.

THURSDAY, OCTOBER 18, 1979

12 p.m. Medical Humanities Program: "Killing vs. Letting Die: A Distinction with a Difference?" by Martin Benjamin, Department of Philosophy. Until 1 p.m. E110 E. Fee.

1 p.m. OB/GYN Basic Science Course: Gynecologic Pathology. Until 5 p.m. Sponsored by the College of Human Medicine. A221 Clinical Center.

1:30 p.m. Community Health Science seminar: "A Decade of Social Medicine" by Victor W. Sidell, M.D., chairman of the Department of Social Medicine at Montefiore Hospital, Bronx, and chairman of the Department of Community Health, Albert Einstein College of Medicine. B417 W. Fee.

3:30 p.m. Dean's seminar: "Health Care in China, 1971-1979: Implications for the United States" by Victor Sidell of Montefiore Hospital and Albert Einstein College of Medicine.
SATURDAY, OCTOBER 20, 1979

"Advances in Drug Therapy" sponsored by the Osteopathic General Practitioners of Michigan. Hilton Inn, Lansing. Through October 21. Register through Michigan Center for Continuing Education in Osteopathic Medicine, 900 Auburn Road, Pontiac, MI 48057.

MONDAY, OCTOBER 22, 1979

11:30 a.m. Biochemistry seminar: "The Metabolism of Fatty Acids of Different Chain Lengths in Normal and Clofibrate Rats" by Jon Bremer, Institute of Medical Biochemistry, University of Oslo, Olso, Norway. 101 Biochemistry.

TUESDAY, OCTOBER 23, 1979

4 p.m. Pharmacology and Toxicology seminar: "Serotonergic Facilitation of Facial Motor Neuron Excitation" by Robert McCall, Cardiovascular Disease Research, The Upjohn Company. B448 Life Sciences.

4 p.m. Microbiology and Public Health seminar: "The Shutoff of Bacterial Transcription by Bacteriophage T4" by Robert E. Pearson, graduate research assistant. 146 Giltner.

THURSDAY, OCTOBER 25, 1979

8 a.m. Olin Health Center Educational Programs: "Management of Undisplaced Fractures." Until 9 a.m. Olin Health Center Conference Room

12 p.m. Medical Humanities Program: "Patient's Refusal of Lifesaving Treatment (Case Study)" by Gerald Osborne, Department of Psychiatry; Bruce Miller, Department of Philosophy, and Gus Kopka, University Lutheran Church. A133 Life Sciences.

1 p.m. OB/GYN Basic Science Course: Gynecologic Pathology. Until 5 p.m. Sponsored by College of Human Medicine. A211 Clinical Center.

FRIDAY, OCTOBER 26, 1979

11:30 a.m. Meeting of the MSU-COM Council of Affiliated Hospitals. University Club.

3:30 p.m. College of Osteopathic Medicine convocation. Held to honor the 1979 entering class of osteopathic medical students, the convocation will feature keynote speaker Ruth S. Hanft, deputy assistant secretary for health research, statistics and technology. The Walter F. Patenoe Medals of Public Service will be presented to persons who have made significant contributions in medicine, education or public service. Erickson Kiva.

SUNDAY, OCTOBER 28, 1979

8 a.m. CME seminar: "Financial Planning." Program chairman is Daher B. Rahi, D.O., chairman of the Medical Economic Committee of the Michigan Association of Osteopathic Physicians and Surgeons. Six hours of CME credit requested. For information, contact Duane M. Tester, 313/335-7742. Michigan Center for Continuing Education in Osteopathic Medicine, 900 Auburn Road, Pontiac, MI 48057.
TUESDAY, OCTOBER 30, 1979

11:30 a.m. Faculty Development Program: "Time Management — Part I" by Maxine Ferris, Ph.D., associate professor, Agriculture and Natural Resources Education Institute. Until 1 p.m. For information, contact Sharon Rochon, 517/355-9611. E2 Fee Hall.

4 p.m. Meeting of Unit III (Student) Center Representatives. University Club.

4 p.m. Microbiology and Public Health seminar: "Chemotaxis in Bodeliovibrio bacteriovorus" by Susan C. Straley, postdoctoral research associate. 146 Giltner.

4 p.m. Pharmacology and Toxicology seminar: "The Influence of Positive Inotropic Agents on the Contractile and Cyclic Nucleotide Effects of Methacholine in Isolated Rat Atria" by Barry Brown, Ph.D., research associate, Pharmacology and Toxicology. B448 Life Sciences.

WEDNESDAY, OCTOBER 31, 1979

11:30 a.m. Faculty Development Program: "Time Management — Part II" by Maxine Ferris, Ph.D. Until 1 p.m. For information, contact Sharon Rochon, 517/355-9611. E2 Fee Hall.

THURSDAY, NOVEMBER 1, 1979

12 p.m. Medical Humanities Program: "Informed Consent: Its Nature and Justification" by Margaret Jones, Department of Pathology; Bruce Miller, Department of Philosophy, and Dan English, Department of Surgery. E110 E. Fee.

Statewide conference on research in family practice. Maurice Wood, professor of family practice at the Medical College of Virginia, will be the keynote speaker. University Club.

FRIDAY, NOVEMBER 2, 1979

8 a.m. "Legal and Ethical Aspects of Treatment for the Critically and Terminally Ill Patient" sponsored by the American Society of Law and Medicine, and numerous legal and medical societies. For information contact the Society at 617/262-4990. Detroit Plaza Hotel, Renaissance Center, Detroit.

SATURDAY, NOVEMBER 3, 1979

8 a.m. "Nephrology Update 1979" Gary L. Slick, D.O., is program chairman. Six and one-half CME credits have been requested. For information contact Duane M. Tester, Michigan Center for Continuing Education in Osteopathic Medicine, 900 Auburn Road, Pontiac; 313/335-7742.
Office of Medical Education
Research and Development

Division of Medicine; Department of Health, Education and Welfare
—Design a comprehensive program in faculty development for family medicine/ R. G. Bridgham

New York College of Osteopathic Medicine
of the New York Institute of Technology;
West Virginia School of Osteopathic Medicine
—Assessment of problems and priorities in osteopathic principles education/ S. A. Sprafka, R. C. Ward

Microbiology and Public Health

National Institute of Allergy and Infectious Diseases
—Experimental parasitology/ J. F. Williams

U.S. Department of Agriculture
—Sabbatical at the National Animal Disease Research Laboratory/ C. A. Reddy

National Cancer Institute
—The role of two polyoma virus early genes in transformation/ M. M. Fluck
—Immunology of Thy-1-bearing lymphocyte subsets/ F. Kierzenbaum

National Science Foundation
—Biochemical relationships between symbiotic microorganisms and their hosts/ J. A. Breznak
—Research the regulation of meiosis and ascospore formation in yeast/ P. T. Magee

Pathology

The Upjohn Company
—To provide an assistantship in the medical technology program/ M. T. Thomas

Veterinary Allergy Research Corp.
—Characterize certain of the immunologically released chemical mediators of immediate hypersensitivity reactions in the horse Y. Po-Tu, R. W. Leig

Pharmacology and Toxicology

American Heart Association
—Hemodynamics of neurogenic hypertension in the rat/ G. D. Fink
—Research hormonal interactions in hypertension/ A. M. Michelakis

Michigan Heart Association
—Research cardiovascular actions of vanadium and related agents/ T. Akera

National Research Service Award, NIH
—Fellowship/ K. T. Demerest, K. E. Moore

National Heart, Lung and Blood Institute
—Neural control of fluid homeostasis in hypertension/ G. D. Fink

McNeil Laboratories
—Support pharmacological teaching and research/ J. B. Hook

Procter and Gamble Company
—Fellowship support/ T. M. Brody

Physiology

National Heart, Lung and Blood Institute
—Effects of histamine on the microvasculature/ J. B. Scott
—Autonomic control of renal function/ L. C. Weaver
—Left heart failure model for testing assist devices/ J. E. Chimoskey

National Institute of Child Health and Human Development
—Stress effects on pregnancy and fetal normalcy/ G. D. Riegel

National Research Service Award
—Institutional allowance/ N. E. Robinson, N. C. Olson
National Science Foundation
- Effects of pollutants on gills of freshwater fishes/ P. O. Fromm

Psychiatry

Michigan Department of Mental Health
- Residency training development/
  F. Westendorp

National Institute for Mental Health
- Medical student psychiatry education/
  A. Werner
- Residency training development/
  F. Westendorp
- Undergraduate psychiatry training/
  A. Werner
- Child psychiatry training in community settings/ G. E. Blom
- Undergraduate human behavior training/ A. Werner

Pine Rest Christian Hospital Assoc.
St. Mary's Hospital
- Psychiatric Residency Training Program/
  N. B. Enzer

Psychology

MSU Foundation
- A history of theories of human laterality/ L. J. Harris

National Institute of Mental Health
- Ph.D. training in ecological psychology/ G. W. Fairweather

Michigan Department of Commerce
- Special energy education evaluation project/ E. D. Crano, C. D. Johnson

Zoology

National Science Foundation
- To study Drosophila meiotic defects/
  L. G. Robbins

EFFECTS OF AGE ON HUMAN TISSUES UNDER STUDY AT MSU

The effects of age on the physical properties of human tissues are being studied at Michigan State University College of Osteopathic Medicine under a two-year grant from the National Institute on Aging (NIA).

Using tendons from the hands and feet, researchers in the Department of Biomechanics are investigating the differences in physical properties that occur with aging and correlating them with biochemical and microscopic studies on the same tissue.

In a unique tissue biomechanics laboratory, the scientists use an electrohydraulic testing machine, tied to a minicomputer which generates a preselected program of mechanical events and records data generated. Microscopes and a camera are also used in conjunction with the testing machine. Physical aspects of tissue such as its elasticity, load and deformation responses can be studied.

Investigators are Robert Little, Ph.D., chairman of the Department of Biomechanics; Robert Hubbard, Ph.D., assistant professor of biomechanics; Ernest Retzlaff, Ph.D., professor of Biomechanics; and Abdurahman Sukere, Ph.D., a post-doctoral student.

NIA funding for the first year of research is $51,023.