FOUR RECEIVE PATENGE AWARDS
FROM MSU COLLEGE OF OSTEOPATHIC MEDICINE

A foundation president, a hospital executive, a former university trustee and a management consultant received the Walter F. Patenge Medals of Public Service from Michigan State University's College of Osteopathic Medicine November 4.

Honored at the College's annual convocation were Russell G. Mawby, Ph.D., president of the W. K. Kellogg Foundation since 1970; Warren M. Huff, a past chairman and 15-year member of the MSU Board of Trustees; Allen Zieger, D.O., executive director of Botsford General Hospital and Zieger Osteopathic Hospital; and M. S. Klein, a management consultant from Flint and chairman of the Michigan Hospital Finance Authority since its inception.

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. Mawby, the keynote speaker for the convocation, has served the Kellogg Foundation in several posts since 1965, following 13 years as a faculty member at MSU. He also received his bachelor's and doctoral degrees from Michigan State.

He has been recognized by the University with the Distinguished Alumni Award in 1971, and the honorary Doctor of Laws degree in 1972.

Seven other institutions, including Purdue University and the University of Newcastle in England, have awarded him honorary doctorate degrees.
Continuation

He is a director of the Kellogg Company, a member of the board of directors of Gateway Technical Institute Foundation, and a member of the board of trustees of Youth for Understanding. He also is a member of the board of directors and executive vice president of Alpha Gamma Rho and past president of its educational foundation.

In addition to his service on the MSU Board of Trustees, Warren M. Huff has been chairman of the education committee, member of the board of directors and vice president of the Michigan Partners of the Alliance, chairman of the Michigan Coordinating Council for Public Higher Education, and a member of the State Board of Education committee on education for health care.

A consultant to the Michigan State Medical Society, he has been a member of the Citizens' Advisory Committee on Higher Education, co-chairman of the Michigan Committee for Medical Manpower and a member of the board of directors of the Michigan State University Foundation.

Now retired as a member of MSU's board, Huff is currently serving as vice president of the Michigan International Council and a member of the external advisory committee of the International Rehabilitation Special Education Network.

Self-employed as an agricultural, real estate and steel broker, Huff holds the M.B.A. in industrial management from the Harvard Graduate School of Business Administration.

Allen Zieger, D.O., began his medical practice in Detroit in 1938, and six years later opened Zieger Osteopathic Hospital, founded as a non-profit institution. When Botsford General Hospital, a unit of the existing corporation, was opened in 1965, Dr. Zieger relinquished his practice to become the president and executive director.

Dr. Zieger was an active participant in the development of the Michigan College of Osteopathic Medicine, of which he is a founding member. A past president of the Wayne County Society of Osteopathic Physicians and Surgeons, he also serves as a member of the board of the Michigan Osteopathic College Foundation and the Michigan Cancer Society.

For eight years, M. S. Klein has been under gubernatorial appointment as the chairman of the Michigan Hospital Finance Authority, responsible for financing construction, remodeling, equipment and refurbishing of medical facilities on a tax-exempt basis.

As chairman of the finance committee of the board of Flint Osteopathic Hospital for 15 years, he is a former member of the Genesee County Board of Supervisors and an officer of the city of Fenton.

Klein has been active in many civic organizations, particularly Kiwanis, where he served as club president, Michigan district chairman, and lieutenant governor.
WIDE RANGE OF VIEWS EXPRESSED
BY PARTICIPANTS AT WORKSHOP
ON MANIPULATIVE THERAPY

The strong need for research on manipulative therapy was the focus of an international workshop held October 23 through 26 at Michigan State University.

Thirty-five eminent scientists, allopathic and osteopathic physicians, and chiropractors from around the world attended the workshop, sponsored by the National Institute of Neurological and Communicative Disorders and Stroke.

Viewing centuries of clinical efficacy of the "hands on" modality for diagnosis and treatment, the participants agreed to a basic assumption that manipulative therapy "works."

How it works, its potency, contraindications, ability to be standardized, and methods for researching manipulative therapy were points of discussion among the participants.

Because of the defined goals of the workshop, explanations of the effectiveness of manipulative therapy were limited to neurobiologic mechanisms, including both those that were impulse- and nonimpulse-based. Future workshops may explore other possible non-nervous mechanisms, such as a fluid pressure.

Some speakers told of using manipulative therapy in treatment of such diseases as tonsillitis, irregular cardiac rhythms, peptic ulcers, and in severe chest pain. Others limited the use of the modality to musculoskeletal disorders, such as low back pain.

Some participants viewed the therapy as being as potent as any drug, while others saw it as an accessory method for treating patients' disorders. Citing cases of stroke and paralysis resulting from its administration, some researchers advocated strict limitations on the use of the therapy. Others saw no contraindications to its use if "properly prescribed and dosed" by a skilled practitioner.

Asserting that the mere act of touching a patient can cause physiological changes, a few clinicians said that double-blind studies on manipulative therapy would be impossible because of the idiosyncratic responses of patients and the differences in administration among physicians. These persons saw manipulative therapy as a dynamic treatment which could not be subjected to standardized procedures of data collection common to the biological sciences. Instead, they proposed a multi-variate analysis used in social sciences.

Others proposed strictly controlled research and standardization of therapy.

All participants agreed on the need for future research — supported by a strong data base — on manipulative therapy.

The workshop was coordinated by Irvin M. Korr, Ph.D., professor of biomechanics. Others MSU participants included Myron S. Magen, D.O., dean; Philip E. Greenman, D.O., associate dean for academic affairs; Thomas Adams, Ph.D., professor of physiology; Martin Balaban, Ph.D., professor of zoology; Charles D. Tweedle, Ph.D., associate professor of biomechanics and zoology; and Lynne C. Weaver, D.V.M., Ph.D., associate professor of physiology.
<table>
<thead>
<tr>
<th>Day</th>
<th>Period</th>
<th>Faculty Member</th>
<th>Clinic</th>
</tr>
</thead>
<tbody>
<tr>
<td>MONDAY</td>
<td>All Day</td>
<td>John Bell, D.O.</td>
<td>Family Medicine</td>
</tr>
<tr>
<td></td>
<td>Morning</td>
<td>Thomas Santucci, D.O.</td>
<td>Pediatrics</td>
</tr>
<tr>
<td></td>
<td>Afternoon</td>
<td>Max H. Robins, D.O.</td>
<td>Pediatrics</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Joseph Walczak, D.O.</td>
<td>Ob-Gynecology</td>
</tr>
<tr>
<td></td>
<td></td>
<td>George Ristow, D.O.</td>
<td>Neurology</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Earl Gonyaw, D.O.</td>
<td>Neurosurgery</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Philip Greenman, D.O.</td>
<td>Biomechanics</td>
</tr>
<tr>
<td>TUESDAY</td>
<td>All Day</td>
<td>Lon Hoover, D.O.</td>
<td>Family Medicine</td>
</tr>
<tr>
<td></td>
<td>Morning</td>
<td>Kenneth Mahoney, D.O.</td>
<td>Pediatrics</td>
</tr>
<tr>
<td></td>
<td>Afternoon</td>
<td>Herbert Ross, D.O.</td>
<td>Orthopedic Surgery</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Walter Hoppe, D.O.</td>
<td>Family Medicine</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Thomas Santucci, D.O.</td>
<td>Pediatrics</td>
</tr>
<tr>
<td></td>
<td></td>
<td>John Gobel, D.O.</td>
<td>Internal Medicine</td>
</tr>
<tr>
<td></td>
<td></td>
<td>William Johnston, D.O.</td>
<td>Biomechanics</td>
</tr>
<tr>
<td>WEDNESDAY</td>
<td>Morning</td>
<td>James Davis, D.O.</td>
<td>Family Medicine</td>
</tr>
<tr>
<td></td>
<td>Afternoon</td>
<td>Max Robins, D.O.</td>
<td>Pediatrics</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Lon Hoover, D.O.</td>
<td>Family Medicine</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Kenneth Mahoney, D.O.</td>
<td>Pediatrics</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Joseph Walczak, D.O.</td>
<td>OB-Gynecology</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fred Mitchell, D.O.</td>
<td>Biomechanics</td>
</tr>
<tr>
<td>THURSDAY</td>
<td>All Day</td>
<td>Margaret Ajumwa, D.O.</td>
<td>Family Medicine</td>
</tr>
<tr>
<td></td>
<td>Morning</td>
<td>Herbert Ross, D.O.</td>
<td>Orthopedic Surgery</td>
</tr>
<tr>
<td></td>
<td>Afternoon</td>
<td>Gordon Spink, Ph.D., D.O.</td>
<td>Family Medicine</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Bernard Kay, D.O.</td>
<td>Pediatrics</td>
</tr>
<tr>
<td></td>
<td></td>
<td>John Gobel, D.O.</td>
<td>Internal Medicine</td>
</tr>
<tr>
<td></td>
<td></td>
<td>John Downs, D.O.</td>
<td>Maxillofacial Surgery</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Myron Beal, D.O.</td>
<td>Biomechanics</td>
</tr>
<tr>
<td>FRIDAY</td>
<td>Morning</td>
<td>Gordon Spink, Ph.D., D.O.</td>
<td>Family Medicine</td>
</tr>
<tr>
<td></td>
<td>Afternoon</td>
<td>Thomas Santucci, D.O.</td>
<td>Pediatrics</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Roy Harvey, D.O.</td>
<td>Family Medicine</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Max Robins, D.O.</td>
<td>Pediatrics</td>
</tr>
<tr>
<td></td>
<td></td>
<td>George Ristow, D.O.</td>
<td>Neurology</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Earl Gonyaw, D.O.</td>
<td>Neurosurgery</td>
</tr>
<tr>
<td></td>
<td></td>
<td>John Goodridge, D.O.</td>
<td>Biomechanics</td>
</tr>
</tbody>
</table>
MONDAY, NOVEMBER 7, 1977

9 a.m. Pathology lectures: "Mechanisms of Arrhythmia in Myocardial Infarction" by Bernard Wagner, M.D., of Summit, New Jersey. These two lectures are components of OM 554. E106 Fee.

4 p.m. Microbiology seminar: "Recombinant DNA" by David Jackson, Department of Microbiology, University of Michigan. 146 Giltner.

4 p.m. Physiology seminar: "Renal Function and Blood Flow of the Newborn" by Jeff Osborn, graduate assistant in physiology. 107 S. Kedzie.

TUESDAY, NOVEMBER 8, 1977

4 p.m. Pharmacology seminar: "Secretion of Inactive Renin in the Pig."
Michael D. Bailie, M.D., Ph.D., associate professor of human development and physiology. B449 Life Sciences.

WEDNESDAY, NOVEMBER 9, 1977

10 a.m. Dean's conference hour: Year I students.

THURSDAY, NOVEMBER 10, 1977

4 p.m. Nephrology Research Group. 448 Life Sciences.

7:30 p.m. Medical humanities seminar: Andrew D. Hunt, M.D., coordinator of medical humanities, MSU. 105 Kellogg Center.

SUNDAY, NOVEMBER 13, 1977

8 a.m. Continuing medical education: "Gastroenterology." 7 3/4 hours CME credit requested. For information, contact the Michigan Center for Continuing Education in Osteopathic Medicine, 313-335-7742. Lansing Hilton Inn, 7501 W. Saginaw Highway.

The next calendar will include Monday, November 21 through Monday, December 5. Deadline for submission of material will be noon Friday, November 11. Contact Health and Medicine Information, A331 E. Fee, 353-0820.
MONDAY, NOVEMBER 14, 1977

9 a.m. Pathology lectures: "Cardiomyopathies" and (at 10 a.m.) "Tumors of the Cardiovascular System." Azarides Morales, M.D., chairman and professor, Department of Pathology, University of Miami. These are component lectures of OM 554, E106 Fee.

11:30 a.m. Biochemistry seminar: "Autogenous Regulation of Glutamine Synthetese Formation in Klebsiella aerogenes." Boris Magasanik, Department of Biology, Massachusetts Institute of Technology. 101 Biochemistry.

4 p.m. Physiology seminar: "Distribution of Ventilation in the Anesthetized Horse." Paul Sorenson, graduate assistant in physiology. 107 S. Kedzie.

TUESDAY, NOVEMBER 15, 1977

11:30 a.m. Faculty Development Program Workshop: "Introduction to Computers." Lunch is provided, but reservations should be made. Call Karen, 353-7285. E2 Fee.

12 p.m. Microbiology seminar: "Human Neutrophil Motility -- Mechanisms of Control" by Richard A. Patrick, assistant professor of microbiology and public health, MSU. 146 Giltner. Discussion and brown bag lunch at 1 p.m. in 294 Giltner.


WEDNESDAY, NOVEMBER 16, 1977

10 a.m. Dean's conference hour: Year II students.

1 p.m. Curriculum Committee. A316 E. Fee.

THURSDAY, NOVEMBER 17, 1977

4 p.m. Nephrology research group. 448 Life Sciences.

The next calendar will include Monday, November 21 through Monday, December 5. Deadline for submission of material is noon, Friday, Nov. 11. Contact Health and Medicine Information, A331 E. Fee, 353-0820.
Edgar L. Harden, former president of Northern Michigan University and current president of Story, Inc., has been named acting president of Michigan State University.

Harden is serving an interim appointment following the resignation of MSU President Clifton R. Wharton Jr. to assume the head of the State University of New York.

Wharton is expected to leave MSU during January.

Harden is currently an educational consultant to the Michigan Osteopathic College Foundation.

***

Six students from the College of Osteopathic Medicine taught cardiopulmonary resuscitation to members of the Holt Jaycees on Saturday, October 15.

The course, which entitled individual Jaycees to Basic Life Support certification from the Michigan Heart Association, included basic adult CPR, treatment of a choking victim, and infant resuscitation.

Instructors included students Bob Snyder, Paul Ponstein, Roxana Chapman, and Paul Phrmann. Receiving instructorships for training were Bruce Badagliacqua and Jeff Kyff.

***

A University employee has suffered serious eye injury caused by the absorption of organic vapors into soft contact lenses.

According to the MSU Chemical and Biohazards Committee, employees working with organic solvents, liquids, or liquid mixtures that are injurious to the eyes should not wear soft contact lenses. Some organic vapors are absorbed by these lenses and will remain in the lens for an extended period of time. Use of a contaminated lens can cause serious and permanent injury to the eye.

In addition, while hard contact lenses do not absorb these vapors, there are verified reports of injuries in which lenses have become bonded to the eye or in which solutions have become trapped between the lens and eyeball.

Employees should not wear soft or hard contact lenses in work areas or laboratories where there are liquids or solutions which are injurious to the eye. Contact lenses are never substitutes for safety glasses or goggles.
UPCOMING PROGRAMS ON FEE TV

Fee TV programs for the remainder of fall term include the following list. For further information, contact Gary Roettger, C13 Fee, 355-4546.

November 7 - 11
12:10 p.m.
E4 Fee

The Cyanotic Infant: Finding the Cause
Cyanotic Heart Disease in Infants
Corticosteroid Therapy: Chronic Hepatitis and Inflammatory Bowel Disease

November 11 - 17
12:15 p.m.
E110 Fee

Physical Examination: Male Genitalia, Anus and Rectum

November 14 - 18
12:10 p.m.
E4 Fee

Hyperlipidemia and Heart Disease: The Drug Approach
Screening Mammography: A Second Look
Myasthenia Gravis: Not a Rare Disease

November 18 - 23
12:15 p.m.
E 110 Fee

Annual Female Examination (with Pap and breast exam)
Physical Examination: Breasts and Axillae

November 21 - 29
12:10 p.m.
E106 Fee

Blood Pressure Telemetry (K. Bachmann, Medical Hospital and Outpatients Clinic, University of Erlangen)

November 21 - 23
12:10 p.m.
E4 Fee

Beta Blockers in Cardiac Disease
The Clinical Significance of Abnormal Fingernails
Intellectual Decline: Senile Dementia or a Treatable Disorder? Part I

November 28 - December 2
12:10 p.m.
E4 Fee

Hypertensive Emergency Workshop
Systemic Mycoses: How to Select and Interpret the Tests

November 28 - December 1
12:15 p.m.
E110 Fee

Introduction to Physical Exam (Women): Basic Technique
Physical Examination: Female Genitalia, Anus and Rectum

December 5 - 9
12:10 p.m
E4 Fee

Hyperlipidemia and Heart Disease: The Diet Approach
COPD: Progression of Ambulatory Care
Anaphylactic Reactions to Future Insect Stings
Milvet (Red) Strickler, director of anatomical resources, has received Civitan International's highest award -- the District Honor Key -- at their convention Sept. 23 on Mackinac Island.

Strickler was recognized for his service in directing the annual week-long Youth Seminar at Adrian for five years. The seminar includes major and minor discussion groups, social and recreational activities for more than 200 youth from Michigan, Indiana, Illinois, Iowa and Minnesota.

Strickler is also Civitan's lieutenant governor for Michigan.

***

A continuing medical education seminar on gastroenterology will be held on Sunday, November 13 at the Lansing Hilton Inn, 7501 W. Saginaw Highway.

Sponsored by the Osteopathic General Practitioners of Michigan and the Michigan Center for Continuing Education in Osteopathic Medicine, the seminar will begin at 8 a.m. and adjourn at 5 p.m.

The program will include discussions of endoscopy, cimetidine, colonoscopy and post-surgical follow-up, office and hospital management of colitis, and evaluation and treatment of pediatric intestine problems.

The seminar faculty includes

---James M. Bour, D.O., chairman of surgery, Carson City Hospital.
---Stephen M. Hoffman, D.O., attending and consulting physician in gastroenterology, Martin Place Hospitals, and clinical associate professor of osteopathic medicine, MSU-COM.
---Kenneth J. Mahoney, D.O., associate professor of osteopathic medicine, MSU-COM.
---John Papp, M.D.
---William M. Steigerwald, D.O., senior member of the Department of Medicine, Carson City Hospital, and clinical associate professor of family medicine, MSU-COM.
---Reginald Wortman, D.O., internal medicine, Carson City Hospital.

Approval for 7 3/4 hours of CME credit has been requested from the American Osteopathic Association and is pending from the Michigan Board of Osteopathic Medicine and Surgery and the Florida State Board of Osteopathic Registration.
Margaret Z. Jones, M.D., associate professor of pathology, delivered a paper on "Becker's Muscular Dystrophy" at the University of North Dakota on October 27, and another on "The Pathology of Benign X-linked Neuromuscular Disease" at the Michigan Neurological Association on October 29.

Dr. Jones recently returned from sabbatical leave at the University of Newcastle, Newcastle upon Tyne, England, where she was a visiting professor in the Department of Neurology. In collaboration with W. G. Bradley and J. M. Mussini she completed a clinical and pathological study of patients with Becker's muscular dystrophy, and with Dr. Hans Goebel in Gottingen, West Germany, she studied the pathology of Becker's original cases.

Estelle McGroarty, Ph.D., assistant professor of biophysics, presented "Biochemical and Biophysical Studies of the Outer Membrane of Escherichia coli" to the Membrane Research Group at Purdue University on October 12.

Andrew Janoff, graduate assistant in biophysics, presented a paper, "Electron Spin Resonance Studies of E. Coli Cell Membranes," at the fall meeting of the Michigan branch of the American Society for Microbiology. Coauthors were A. Haug, Ph.D., and Estelle McGroarty.

Philip E. Greenman, D.O., associate dean for academic affairs, spoke on "The Basic Principles and Application of Muscle Energy Technique" at the Northwestern Michigan Osteopathic Association annual general practice seminar at Traverse City, October 16.

Eleanor S. Morrison, M.A., instructor in community medicine, presented a paper on "An Experimental Learning Approach to Changing Attitudes about Homosexuality" at the Midwest Regional Conference of the American Association of Sex Educators, Counsellors, and Therapists at Chicago on October 9. She is also a member of the board of directors and program planning committee for the Association.

Morrison also wrote the study and discussion guide for "Shoppers," a film about changing life styles and the family, which premiered at the National Council on Family Relations national conference in San Diego October 14-16.

John W. Phardel, D.O., clinical professor of osteopathic medicine, received the "Distinguished Osteopathic Surgeon" award conferred by the American College of Osteopathic Surgeons at their meeting October 3 in Los Angeles. Dr. Phardel was recognized for outstanding service to the profession, for dedication in surgical teaching and education, and for contributions in the field of surgery for trauma.

Kathryn Kolasa, Ph.D., assistant professor of community medicine, participated in a "thinkshop" of agricultural economists, social scientists and nutritionists to discuss "Nutrition Beyond Economics." The conference, held at Pennsylvania State University October 2-4 was sponsored by the Agricultural Development Council.

Teresa Bernardes-Bonesatti, M.D., associate professor of psychiatry, has been awarded the position of senior associate at the Taulistock Clinic, London, England, for her sabbatical year.
Stuart Winston, a third-year student in the College of Osteopathic Medicine and a Ph.D. candidate in physiology, is the author of "Skeletal Muscle Vascular De-compensation in Irreversible Hemorrhagic Shock, presented September 14 at the Michigan Cardiovascular Research Forum of the Michigan Heart Association and October 12 at the fall meeting of the American Physiological Society in Hollywood, Florida. Coauthors are J. M. Schwingamer, Ph.D., professor of physiology, and R. F. Bond, Ph.D., professor and chairman of physiology at the Kirksville College of Osteopathic Medicine.

***

Roy J. Harvey, D.O., associate professor of family medicine, made five presentations at the annual convention of the North Carolina Osteopathic Society in Winston-Salem October 13-15. His seminars included cytology for office practice, two sessions on updating the family medicine curriculum, and two sessions on the usage of behavioral science in family medicine.

***

W. Doyne Collings, Ph.D., professor and acting chairman of physiology, was elected chairman of the University Committee on Academic Policy, and by virtue of this office will be a member of the Long-Range Planning Council.

***

H. Ti Tien, Ph.D., professor of biophysics, presented a paper on "Electronic Processes in Experimental Bilayer Lipid Membranes" at the eleventh annual meeting of the European Federation of Biological Societies in Copenhagen.

***

William W. Wells, Ph.D., professor of biochemistry, was the coauthor of two recent publications in the Archives of Biochemistry and Biophysics. L. E. Burton was the principal author of "Studies on the Effect of 5-thio-D-Glucose and 2-Deoxy-D-Glucose on Myo-Inositol Metabolism" (181:384-392), and I. T. Mak was principal author of "The Association of Lysosomal Enzymes with Nuclei During Enzyme Induction in Rat Liver" (183:38-47).

***

Richard W. Redfearn, Ph.D., assistant professor of osteopathic medicine, presented a paper on "The Role of the Associate Professional in Health Care of Athletes" at the Michigan College Health Association in Albion College on October 14.

***

Jaspar I. Lillie, D.O., 1973 graduate, has started practice as a primary care physician in Manistee after finishing two years in the U.S. Air Force Medical Corps. He is working as an employee of Regional Health Care, Inc., a nonprofit group seeking to meet the needs of persons in this rural, medically underserved area. His new address is 310 River St., Manistee, 49660.

***

Andrew Lovy, D.O., assistant professor of psychiatry, made a continuing medical education presentation on 'Death and Dying: Terminal Care' for the Bay County Medical Association on October 6.

***

Larry Van Egeren, associate professor of psychiatry, has received a two-year research grant from the National Heart, Lung and Blood Institute for studies of the effects of competitive social interactions on the cardiovascular system.

***
GIFTS AND GRANTS

The following medically-related gifts and grants were among those accepted by the MSU Board of Trustees at their October 28 meeting.

Dean—Osteopathic Medicine

National Cancer Institute
--Interaction of carcinogens with DNA: repair of lesions
  V. M. Maher

National Institutes of Health
--Transformation of human cells by chemical carcinogens
  J. J. McCormick

Anatomy

National Institutes of Health
--Muscular dystrophy: alterations mediated by exercise
  R. E. Carrow

National Cancer Institute
--Studies and investigation of the prevention of the formation and progression of preneoplastic lesions of the mammary gland
  C. W. Welsch

Anthropology

Wenner-Gren Foundation
--Sociocultural and biomedical research on the illness favism, in rural Greece
  D. J. Trakas, J. Spielberg

Biochemistry

National Science Foundation
--Lipid peroxidation
  S. D. Aust

National Institutes of Health
--Phosphonoscientific acid: antiviral and cytotoxic action
  J. A. Boezi
--Fourth International Symposium on Glycoconjugates
  C. C. Sweeley

Biochemistry (continued)

Various donors
--Support of joint U.S.-Japan seminar on structural and functional significance of membrane glycolipids
  C. C. Sweeley

Biophysics

International Nickel Company
--Anticancer activities of the platinum metal group complexes
  B. Rosenberg

National Institute of General Medical Sciences
--Bimolecular lipid membranes
  H. Ti Tien

United Nations Organizational, Scientific and Cultural Organization
--Supplies and local travel for M. Emara in study of bimolecular interactions using fluorescence, stopped-flow techniques
  D. L. McGroarty
--Equipment, supplies and services and work-study student help
  J. I. Johnson

Human Development

Michigan Department of Public Health
--Salary of genetics doctoral student who will interview patients and families to gather pertinent information; for secretarial help and supplies
  S. Kapur

National Foundation—March of Dimes
--Chromosomal polymorphism; an attempt to map genes on the human chromosome.
  J. V. Higgins
GIFTS AND GRANTS Continuation

**Medicine**

National Heart, Lung and Blood Institute
--Hypertension detection and follow-up program
  J. J. Jones

**Microbiology and Public Health**

State Board of Agriculture of Colorado
--Immunoparasitology of cysticercosis
  J. Williams

**Office of Health Services Education and Research**

National Center for Health Services Research
--Develop and test a theory about high utilizers of primary care services in order to develop data that can be used to improve the quality, effectiveness and efficiency of the health care delivered to patients who use high levels of services in response to ill-defined conditions
  R. S. Callin

**Pathology**

University of Michigan
--Supplies and services, travel, books, publications, and equipment for pericardial research
  R. W. Leader, D. Craft

**Pharmacology**

National Institute on Drug Abuse
--Opiate receptor and cell membrane functions
  T. Akera

National Institute of Allergy and Infectious Diseases
--Drug disruption of trematode physiological processes
  J. Bennett

Miles Laboratories, Inc.
--Unrestricted grant
  J. B. Hook

**Physiology**

The Upjohn Company
--Payment for travel expenses to Germany to present a paper
  T. Emerson

U.S. Public Health Service
--Institution allowance for fellowship
  R. A. Bernard, W. J. Dalzell

**Psychology**

National Institute of Mental Health
--Neuropsychophysiological studies
  S. T. Sakai, J. I. Johnson

**Zoology**

National Science Foundation
--Examination of the relationship of genetic organization of chromosome behavior
  L. G. Robbins

National Institutes of Health
--Study of physiology of acanthamoeba and entamoeba
  R. N. Band

***

OSTEOPATHIC STUDENTS TO PRESENT SCIENTIFIC PAPERS NOVEMBER 10

Three students from the College of Osteopathic Medicine will be presenting scientific papers at the Michigan Family Practice Research Day November 10 at the University Club.

Speaking will be Anne Magdalen Pawlak on "Chalone Inhibition Inducing Tumorogenesis," Patricia Behfield on "Indications for Radionuclide Brain Scanning," and Pedro Rivera on "A Study in Health Care Delivery."

The competition is sponsored by the Michigan Academy of Family Physicians and MSU's Department of Family Practice.
Students should make sure that all required signatures are obtained and that their names and addresses are legible before elective forms are sent to the Unit III office. They also should notify the Unit III office before contacting the hospital if they want to change any rotations. If the change is approved, the hospital will be notified.

***

Looking for possible electives? Contact the physicians named below, or the Unit III office for more information.

Athletic Medicine
Herbert E. Ross, D.O., acting director, Division of Athletic Medicine, MSU.
Primary objectives: exposure to athletic injury and treatment, preventive aspects of athletic medicine (two weeks).

Hospital Administration
Ray Gadowski, D.O., director of medical education, Detroit Osteopathic Hospital.
Primary objectives: to acquaint the prospective physician with the administrative responsibilities inherent to the hospitals (one week).

Obstetrics and Gynecology
Joseph F. Marshall, M.D., Saint Joseph Mercy Hospital, 900 Woodward Avenue, Pontiac, Michigan.
Primary objectives: designed to supplement the students' basic knowledge of obstetrics and gynecology, to involve students in the active management of the OB-Gyn patient in clinics, labor and delivery, operating room, post-operative and postpartum floors (suggested length of four, eight or twelve weeks)

Hospital Services (Medicine, Surgery, General Practice, Obstetrics, Radiology and Laboratory, Emergency Room, or Ear, Nose and Throat)
A.T. Tenoglia, D.O., director of medical education, Sandusky Memorial Hospital (Osteopathic), Sandusky, Ohio.
Primary objectives: clinical exposure in one or more of the above services. Housing and meals are provided at the hospital.

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, A331 E. Fee Hall, East Lansing, Michigan, 48824; (517) 353-0820. Members of the Editorial Advisory Committee: Allen W. Jacobs, Ph.D., (chairman); Francis A. Bernier, Ph.D.; Gordon C. Spink, Ph.D., D.O.; Nancy M. Houston, B.A. (editor), and Patricia Grauer, M.A. (associate editor). Production and circulation manager is Carol Howland. Date of next issue: November 21. Copy deadline: November 11.