ON THE COVER

Scenes from the mid-May conference of the Michigan Association of Osteopathic Physicians and Surgeons included (counterclockwise): alumnus and pediatrics faculty member Ken Stringer at the MSU-COM exhibit; faculty Gerald Osborn, Walter Mill and Lynn Brumm on a panel presentation on medical ethics; a scene from the MSU-COM alumni luncheon; and Martin Benjamin of MSU's Medical Humanities Program.

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COMMUNIQUE "Communique," a newsletter publication of the Michigan State University College of Osteopathic Medicine, is issued 15 times a year through the Health and Medicine section of the Department of Information Services, A314 E. Fee Hall, East Lansing, Michigan, 48824; telephone 517/353-0820. Members of the Editorial Advisory Committee include David Marler, Ph.D. (chairman); Henry Beckmeyer III, D.O.; Francis A. Bernier, Ph.D.; Gordon Spink, D.O., Ph.D.; Robert C. Ward, D.O.; Nancy Houston, B.A. (editor) and Patricia Grauer, M.A. (managing editor). Circulation manager is Mary Palmer. Production is done by Beth Stephens and Connie Burch; photography by Eileen Blass. Date of publication of the next issue is Monday, June 30, 1980. Deadline for that issue is Thursday, June 19.

Michigan State University is an equal-opportunity/affirmative action institution.
COLLEGE OF NURSING AT MSU
APPROVED BY BOARD OF TRUSTEES

The promotion of the Michigan State University School of Nursing to college status was approved May 23 by the MSU Board of Trustees.

The action creates the 17th college at MSU, and — with the College of Veterinary Medicine, College of Human Medicine, and College of Osteopathic Medicine — the fourth for the training of health professionals.

The change in status, which will be effective July 1, 1980, follows recommendations made by Provost Lee Winder.

"The academic programs of the School of Nursing now include an undergraduate degree program, a master's degree program, continuing nursing education, and the beginning of a research program," Winder said.

He recommended the change to "insure the maximum possible quality of the nursing program and to enhance the quality of the total effort of MSU in the area of health programs."

Dr. Isabelle Payne, director of the nursing school, said that the change in status will enhance recruitment of Ph.D.-trained faculty, graduate students and a qualified administrator, and is key to improvements in quality of programs and administration.

Dr. Payne, who has asked to be relieved of her administrative duties, said that the change will not prompt significant shifts in the present internal organization, and the establishment of new departments with accompanying support staff and budget increases will not be necessary.

Nursing education at MSU began in 1924, when the School of Home Economics initiated a five-year combined program with the E.W. Sparrow Hospital School of Nursing in Lansing. Graduates then received the B.S. degree in home economics with a diploma in nursing.

In 1950, a generic undergraduate program, leading to the B.S. with a major in nursing, was organized as the Department of Nursing in the College of Science and Arts. The department was named a school in 1957, and elected to be aligned with the College of Natural Science during a reorganization in 1962.

Dr. Payne was named the school's third director in 1971.

The new College of Nursing has an enrollment of 765 students, employs 72 regular and adjunct faculty, and holds contractual agreements for clinical training with 19 health care agencies in Lansing area.

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JANVER KREHBIEL NAMED
ACTING CHAIRMAN OF PATHOLOGY

Janver Krehbiel, D.V.M., Ph.D., a faculty member at Michigan State University for 13 years, has been named acting chairman of the Department of Pathology.

Robert W. Leader, D.V.M., who had chaired the unit, has been named associate dean for research and graduate education in the MSU College of Veterinary Medicine. His appointment is effective June 1, 1980.
MSU-COM ADMINISTRATOR RECOGNIZED FOR WORK WITH MSU STUDENT ATHLETES

He's adviser to the Varsity "S" Club, mentor for the Fellowship of Christian Athletes, chaplain of the MSU football team, and now recipient of the 1980 MSU Community Service Award.

Fred C. Tinning, Ph.D., is also assistant dean for planning at the MSU College of Osteopathic Medicine, and professor in the departments of community medicine and counseling, personnel services and psychology.

Tinning was one of three persons recognized by the MSU Senior Class Council as one who "gave unselfishly of his time in the interests of the students and the university environment." He was honored at a May 20 banquet.

Known to campus athletes as "Doc," Tinning was the subject of an extensive feature article in the Detroit Free Press in October.

The article noted his dedication and willingness in counseling student athletes on problems ranging from finding an apartment to dealing with family situations.

As leader of the Fellowship of Christian Athletes, he holds meetings in his home and arranges pre-game chapel for the football team on Saturdays. Football coach Darryl Rogers designated him the MSU team chaplain.

Tinning joined the College of Osteopathic Medicine in 1972, received his Ph.D. in counseling and educational psychology in 1973, and was named assistant dean for planning in December 1975.

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NEW AUDIOVISUAL PRESENTATION AVAILABLE FROM NATIONAL OSTEOPATHIC FOUNDATION

The National Osteopathic Foundation, the philanthropic affiliate of the American Osteopathic Association, has a new audiovisual presentation available for public use.

The presentation examines the need for increased financial and vocal support of the osteopathic profession, and explains the purpose of the NOF, the Osteopathic Progress Fund and the Osteopathic Seal Program.

The seven-minute presentation may be obtained from Lee Stein, NOF, 212 E. Ohio, Chicago, Illinois, 60611.
June 6, 7
1980 MSU-COM HOODING CEREMONIES,
GRADUATION DINNER/DANCE, COMMENCEMENT

One hundred College of Osteopathic Medicine students will be eligible to participate in the 1980 hooing ceremonies, to be held at 3 p.m. Friday, June 6, in the University Auditorium. A reception for the participants and their guests will follow immediately in the Union Ballroom.

At 7 p.m., a graduation dinner/dance for the entire College community will be held at Long's Convention Center. The evening will include a five-course prime rib dinner, and entertainment by the Bob Hull Orchestra, a 20-piece popular group know nationwide who specializes in the "big band" sound.

Persons wishing to attend the dinner/dance should send the number attending and a check for $15 a person, made payable to Graduation Committee 1980, to Karen Turner, Graduation Committee, Office of Student Affairs, MSU-COM, East Fee Hall, East Lansing, MI 48824.

On Saturday, June 7, commencement ceremonies for persons receiving advanced degrees will be held at 10 a.m. in Spartan Stadium. Raymond D. Vlasic, dean of lifelong education at MSU, will give the address.

At 4 p.m. Saturday, Edgar L. Harden, former president of MSU and a long-time supporter of the osteopathic profession, will give the commencement address for baccalaureate graduates in Spartan Stadium. Dr. Harden will also be awarded the honorary doctor of laws degree at the ceremonies.

Both events will be held in Jenison Fieldhouse in case of inclement weather.

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YEARBOOKS AVAILABLE MAY 31:
SUPPLY IS LIMITED

A limited number of copies of the 1980 College of Osteopathic Medicine yearbook will arrive on campus May 31.

The book, which is $20, is 9 x 12 inches, 180 pages, and one-third color.

Persons interested in purchasing a copy should immediately notify Karen Turner, editor, Office of Student Affairs, East Fee Hall, or call 517/339-1568.

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MSU-COM CLINIC COAT PATCHES

Patches for clinic coats or blazers are now on sale from the MSU-COM Alumni Association.

The loom-stitched circular patches, three inches in diameter, are green and white and bear the MSU-COM new logo.

Persons interested in purchasing patches should contact Sandy Kilbourn, executive secretary of the Alumni Association, A333 E. Fee Hall, 517/353-8822. The cost is $2.50 each.
1980 MSU-COM ANNUAL ALUMNI LUNCHEON

Alumni, faculty, staff and friends of the College attending the MAOP&S conference in Dearborn crowded into the MSU-COM alumni luncheon.

Participants renewed old acquaintances, enjoyed a 'deli' meal, and heard presentations by associate dean Philip Greenman, Curriculum Committee chairman John Thornburg, Alumni Association president Gordon Spink, and executive secretary Sandy Kilbourn.

Favors included Spartan regalia and loom-stitched clinic coat patches sporting the MSU-COM logo.
SUNDAY, JUNE 8, 1980

8 a.m. Seminar sponsored by American Osteopathic Academy of Scioreotherapy Inc. and Michigan Center for Continuing Education in Osteopathic Medicine. Program chairman is James D. ZeBranek, D.O. For information contact Duane M. Tester, 313/335-7742. 900 Auburn Rd., Pontiac.

SATURDAY, JUNE 14, 1980


MONDAY, JUNE 16, 1980

Registration of students. Through June 17.

Orientation for entering class. Through June 17.

"Basic Principles of Manual Medicine," a national conference and five-day intensive course on fundamentals, including practice sessions on the spine, pelvis and extremities. Participation limited to 40. Contact Joan Martin Alam, 517/353-7782. Kellogg Center for Continuing Education.

WEDNESDAY, JUNE 18, 1980

Summer term classes begin.

THURSDAY, JUNE 19, 1980

4 p.m. Radiology conference: CT and ultrasound film-reading session by Carl S. Rubin, D.O., assistant professor of radiology, Thomas Jefferson University. At 7 p.m., Rubin will discuss "Current Status of Ultrasound Imaging of the Breast." Fee is $15. Four hours Category I CME credits offered. Michigan Center for Continuing Education in Osteopathic Medicine, 900 Auburn Rd., Pontiac.

THURSDAY, JULY 17, 1980


SATURDAY, JULY 26, 1980

SUNDAY, SEPTEMBER 7, 1980


WEDNESDAY, SEPTEMBER 10, 1980

6 p.m. Urology series: "Pediatric Urology." Contact Duane M. Tester, 313/335-7742. Michigan Center for Continuing Education in Osteopathic Medicine, 900 Auburn Road, Pontiac.

FRIDAY, SEPTEMBER 12, 1980


SATURDAY, SEPTEMBER 13, 1980


FRIDAY, SEPTEMBER 26, 1980

Second Annual Alumni Reunion and Scientific Seminar. Through September 27. Kellogg Center for Continuing Education, MSU.

SATURDAY, SEPTEMBER 27, 1980

COMMUNIQUE

Please use this form for submission of material for the biweekly College of Osteopathic Medicine Communiqué.

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 ______________________________________

Position ____________________________________

Address ____________________________________

Phone ______________________________________

CALENDAR ITEMS

Date ___________________ Time ___________________

Event _______________________________________

Sponsor _____________________________________

Location ____________________________________

Other information _________________________________________

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.
WEDNESDAY, OCTOBER 8, 1980

6 p.m. Urology series: "Evaluation of GU Malignancies — Kidney, Uroepithelial and Bladder." Contact Duane M. Tester, 313/335-7742. Michigan Center for Continuing Education in Osteopathic Medicine, 900 Auburn Road, Pontiac.

SATURDAY, OCTOBER 11, 1980


FRIDAY, OCTOBER 25, 1980


SUNDAY, NOVEMBER 9, 1980


WEDNESDAY, NOVEMBER 12, 1980


SUNDAY, DECEMBER 7, 1980

"Annual Heart Day Seminar." Contact Duane M. Tester, 313/335-7742. Michigan Center for Continuing Education in Osteopathic Medicine, 900 Auburn Road, Pontiac.

SUNDAY, DECEMBER 14, 1980

SUNDAY, JUNE 1, 1980


MONDAY, JUNE 2, 1980

Final examinations week. Through June 6.

TUESDAY, JUNE 3, 1980

Pharmacology and Toxicology seminar: "An In Vitro Mammalian Assay System for the Detection of Toxic Compounds" by David Doolittle, Department of Pharmacology and Toxicology, MSU. B448-9 Life Sciences.

THURSDAY, JUNE 5, 1980

7:30 p.m. Orientation session for volunteers for Hospice of Lansing Inc. and others interested in the hospice. Unitarian Church, East Lansing. For information, contact Ben Watson, 351-4834.

FRIDAY, JUNE 6, 1980

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

3 p.m. 1980 College of Osteopathic Medicine hooding ceremonies will be held for 100 eligible candidates in the University Auditorium. A reception will follow immediately in the Union Ballroom.

7 p.m. Graduate dinner/dance, including a five-course prime rib dinner and entertainment by the Bob Hull ("big band") orchestra. Tickets are $15. Contact Karen Turner, Graduation Committee, Office of Student Affairs, East Fee Hall, MSU, East Lansing, 48824.

SATURDAY, JUNE 7, 1980

10 a.m. Advanced degree commencement ceremonies. Spartan Stadium. In case of inclement weather, ceremonies will be held in Jenison Fieldhouse.

4 p.m. Baccalaureate commencement exercises. Speaker is Dr. Edgar Harden, who will also receive an honorary doctor of laws degree. Spartan Stadium. In case of inclement weather, Jenison Fieldhouse.
'76 alumni Myral Robbins, Eric VanderHaagen, and Gary Marsiglia (above)

Appreciation to volunteer clinical faculty was part of the MSU-COM exhibit

'74 alumna Rosemary Havey (below)
FEDERATION PAPERS PRESENTED BY MSU FACULTY

The following papers were presented by faculty from the Department of Pharmacology and Toxicology at the 64th annual meeting of the Federation of American Societies for Experimental Biology in Anaheim, California. Faculty from other departments are so noted.


K. Takeda, T. Akera and T.M. Brody: Inotropic actions of vanadate on isolated guinea pig and rat atria.


G.L. Gebber and S.M. Barman: Brain stem neuronal types with activity patterns related to sympathetic nerve discharge.

K. Jamison, G. Padgett, R. Leader (Pathology) and E. Braselton: Adenine nucleotide defect in Chediak-Higashi leucocytes.

A. Werber, W. Bryan and G.D. Fink: Influence of chronic high salt diet on neurogenic hypertension in the rat.

S.M. Ford, J.T. Bond (Food Science and Human Nutrition) and J.B. Hook: Effects of butylated hydroxytoluene pretreatment on carbon tetrachloride toxicity.

W.D. Evers (Food Science and Human Nutrition), J.B. Hook and J.T. Bond: Diet and paraquat (PQ) toxicity in mice: altered PQ organ distribution and effect of dietary protein or lipid on PQ toxicity.


J.L. Stickney and D.C. Eikenburg: Hemodynamic effects of 1-α-acetylmethadol.
Guillermo Hernandez Jr., D.O., 1978 alumnus, has assumed the position of medical director of La Clinica de Familia, a Rural Health Initiative Program serving the southern half of Dona Ana County, New Mexico.

Donald McBride, D.O., assistant dean for graduate and continuing medical education, was a guest speaker at the dedication ceremonies of the Campbell A. Ward Patient Tower at Mt. Clemens General Hospital, held May 11.

Richard H. Rech, Ph.D., professor of pharmacology, chaired a session on "Behavioral Pharmacology and Physiology" April 16 at the 64th annual meeting of the Federation of American Societies for Experimental Biology, held in Anaheim, California. He also presented a paper on "Behavioral Tolerance to Effects of LSD in Rats" and was the coauthor of "Comparison of the Effects of 2,5-Dimethoxy-4-Methyl Amphetamine and D-Amphetamine on Operant Responding in Control and G-Hydroxydopamine-Treated Rats" both presented April 17.

Jon J. Kabara, Ph.D., professor of biomechanics, made three presentations at the International Society of Fats/ American Oil Chemists Society World Congress, held April 27-May 1 at New York City. His topics included "Gras Chemicals as Affectors in Preservative Systems," "Consequences of Nutrition and Lipid Peroxidation to the Aging Process," and "Antioxidants as Multi-Functional Preservatives in Food and Cosmetics."

Harvey V. Sparks Jr., Ph.D., professor and chairman of the Department of Physiology, has been appointed as a member of the National Board of Medical Examiners Part I Physiology Test Committee. Members are responsible for determining the thrust and content of the examination, and are selected from across the United States and Canada.

J. Justin McCormick, Ph.D., Veronica M. Maher, Ph.D., and Eloise Kuntz, Ph.D., associate professors; Charles Silinskyas, M.D., Louise Simon, Ph.D., and Li Yang, Ph.D., postdoctoral fellows; and Rebecca Corner, B.S., Eileen Mahoney-Leo, B.S., and Alan Mendrala, B.S., senior research assistants in MSU-COM's Carcinogenesis Laboratory, all attended or presented papers at the annual meeting of the American Association for Cancer Research, held May 26-29 in San Diego.

Li L. Yang, Ph.D., postdoctoral fellow in the Carcinogenesis Laboratory, is a coauthor (with J. Justin McCormick and Veronica M. Maher) of "Error-free Excision of the Cytotoxic and Mutagenic N²-guanosine DNA Adduct Formed in Human Fibroblasts by (±)7β,8α-dehydroxy-9α,10α-epoxy-7,8,9,10-tetrahydrobenzo(a)pyrene," accepted for publication in the Proceedings of the National Academy of Science. Dr. Yang presented a paper at the annual meeting of the American Association for Cancer Research in San Diego May 26-29, and will make a presentation at the annual meeting of the Biophysical Society in New Orleans June 1-5.

Teresa Bernardes, M.D., professor of psychiatry, directed a full-day course on "The Psychotherapy of Women" at the annual meeting of the American Psychiatric Association in San Francisco May 5-10. She also led a panel on "Issues for Women in a Psychiatry Residency" with four women residents from the Department of Psychiatry—Sahnur Ackabay, Linda Cross, Kathy Ednie, and Karen Johnson.

Terry S. Stein, M.D., associate professor of psychiatry, presented a paper on "Men's Groups" at the 1980 American Psychiatric Association annual meeting as part of a panel on "Men's Issues and Their Relevance to Psychiatry."
Gaston E. Blom, M.D., professor of psychiatry and of elementary and special education, and medical coordinator of the University Center for International Rehabilitation, presented a continuing medical education course on "PL 94-142: Special Education and Child Psychiatry" at the 133rd annual meeting of the American Psychiatry Association in San Francisco. He also gave testimony on "Child and Family Advocacy" at a hearing of the Michigan Senate Special Committee to Study Juvenile Services in Michigan on May 12.

Sister Mary Honora Kroger, Ph.D., associate professor and administrative assistant of community health science, addressed the Junior League on "Issues and Prospects of Aging" at the Ingham County Medical Care Facility April 22. On May 2, she spoke on "The Geriatric Patient: An Overview" to health professionals interested in improving the care of the geriatric mental patient, at the annual spring conference of the Michigan Department of Mental Health, held in Traverse City. She also addressed the U.S. Department of Agriculture Farmer's Home Administration on "Health After Retirement" at the University Inn May 8.

Malcolm Williamson, D.O., clinical associate professor of osteopathic medicine from Trenton, gave presentations on neonatal hyperthyroidism cretinism, and adult hypo- and hyperthyroidism at the May 12 meeting of the Wisconsin Osteopathic Society in Oconomowoc. He also discussed thyroiditis and dysfunction of the thyroid in pregnancy at the May 16 meeting of the Michigan Association of Osteopathic Physicians and Surgeons in Dearborn.

Charles Sander, M.D., professor of pathology, has been asked by the editor of the Anatomic Pathology series of the American Society of Clinical Pathologists Check Sample Program to contribute an exercise entitled "Hemorrhagic Endovasculitis and Villitis of the Placenta" from his recently described alteration in placental specimens sent to the Placental Tissue Registry. The material, along with a study guide and discussion of the clinical and pathologic associations and significance, will be sent to approximately 1,000 pathologists who subscribe to the tutorial series in 1980-81.

Rachel Schemmel, Ph.D., professor of nutrition pediatrics and food science and human nutrition, was invited to present a research lecture at the University of Delaware in Newark. The title of her presentation was "Nutrition and Obesity."

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VOLUNTEER TRAINING, COURSE OFFERED FOR AT-HOME HOSPICE CARE

Training for volunteers for Hospice of Lansing, Inc., will begin with an orientation session at 7:30 p.m., June 5, at the Unitarian Church in East Lansing. Persons interested in the program may attend the session with no commitment to volunteer.

The community-based program includes home care for terminally ill patients and supportive services to the family, including bereavement counseling. Teams of social workers, clergy, physicians, nurses and psychologists will be active.

An elective, variable credit course on hospice care will be offered through the College of Human Medicine Department of Family Practice during fall term.

For further information, contact Ben Watson, Year I CHM student, 351-4834.
GIFTS AND GRANTS

The following medically related gifts and grants were among those accepted by the Michigan State University Board of Trustees at its meeting Friday, May 23.

**College of Osteopathic Medicine**

Division of Research Resources-PHS
—Biomedical Research Support Grant/ P. Gerhardt

Michigan Department of Corrections
—Cooperative medical services program/ M.S. Magen

**College of Human Medicine**

Division of Medicine, U.S. Public Health Service
—Residency training in general internal medicine and/or general pediatrics/ W.D. Weston

**Anatomy**

American Cancer Society, Inc.
—Second-generation effects of a carcinogen in mice/ B.E. Walker

**Biochemistry**

National Institute of General Medical Sciences
—Xenobiotic conjugation by the intestine/ S.D. Aust
—Comparative enzymology of normal and abnormal tissue/ C.H. Suelter

National Institute of Arthritis, Metabolism and Digestive Diseases
—Metabolic products in diabetes: GC-MS quantitation/ C.C. Sweeley

National Institute of Child Health and Human Development
—Peroxisomes in developing liver and kidney/ N.E. Tolbert

American Cancer Society, Inc.
—Molecular characterization of tissue-specific growth regulators/ J.L. Wang

**Biomechanics**

Genesee Intermediate School District
—To support research in cranial sacral dysfunction/ J.E. Upledger

National Science Foundation
—Mechanical and histological evaluations of sheet and meshed skin grants: Student-Originated NSF studies/ R. Hubbard

Southeastern Center for Electrical Engineering Education
—To provide the basis for a more accurate geometric simulation of the dynamic human body/ H.J. Reynolds

**Medicine**

Kidney Foundation of Michigan
—To study the effect of PTH and Vitamin D on GI aluminum absorption/ G.H. Mayor

Michigan Department of Public Health
—To study infectious disease in patients and contacts/ G.H. Mayor

National Institute of Arthritis, Metabolism and Digestive Diseases
—Perturbations in calcium homeostatic mechanisms/ G.H. Mayor

National Institute of Mental Health
—To study irritable bowel syndrome and antidepressant therapy/ D.S. Greenbaum

G.W. Snider Associates
—Bovine lymphocyte antigen system/ R.W. Bull

University of Pittsburgh
—NSABP colorectal protocol/ N.V. Dimitrov, L.G. Suhrland
Microbiology and Public Health

Agency for International Development
—Model for antigenic analysis of plasmodium falciparum/ J.B.Jensen

Pathology

Michigan State Medical Society
—Placental Tissue Registry/ C.H. Sander

National Institute of Neurological and Communicative Disorders and Stroke
—Neurotoxicity of kainic acid/ K.L. Lovell

Pediatrics and Human Development

Gerber Company
—Grant-in-aid for medical fellowship in pediatrics and human development/ W.B. Weil, Jr.

Kidney Foundation of Michigan
—To study the possible induction of T cells in CLE by thymic factors and to understand the mechanisms of this induction by assaying for specific surface membrane markers or lymphocytes/ D.B. Kaufman

National Institute of Child Health and Human Development
—Residency training program development/ F. Westendorp

Pharmacology and Toxicology

National Institute of Neurological and Communicative Disorders and Stroke
—Study the role of catecholamines in drug toxicity/ K.E. Moore

National Institute of Allergy and Infectious Diseases
—Schistosomiasis: mode of action of new drugs/ J.L. Bennett

Physiology

Burroughs Wellcome Fund
—Wellcome research travel grant to visit the Imperial Cancer Research Fund in London/ W.R. Dukelow

National Heart, Lung and Blood Institute
—Study of endotoxin shock/ T.E. Emerson, R.M. Raymond
—Mechanism of exercise hyperemia/ H.V. Sparks

National Institute of General Medical Sciences
—Peripheral glucose utilization during endotoxin shock/ T.E. Emerson, Jr.

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

National Cancer Institute
—Neuroendocrine control of mammary and pituitary tumors/ J. Meites

National Institute on Aging
—Hypothalamic-pituitary-gonadal relationship in aging rat/ J. Meites

Psychiatry

Kent County Community Mental Health, Michigan Department of Public Health, Pine Rest Christian Hospital
—Residency training program development/ F. Westendorp

Office of Research Development

National Institutes of Health
—Biomedical Research Support Grant/ H.E. Bredeke