One of the most important functions of the Office of Educational Resources in the College of Osteopathic Medicine is the production of new instructional material for medical education. John Williamson monitors the videotaping of an instructional program in the control room adjacent to MSU-COM's color studio.

3 Multitude of services offered through the Office of Educational Resources
   College-wide multidisciplinary courses
   4 Assistants for Systems Biology courses
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   6 Electronic Maintenance Department
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   7 Fluid and electrolyte disorders of children: pediatrics conference
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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 Information 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.; Francis A. Bernier, Ph.D.; Gordon Spink, D.O., Ph.D.; Nancy Houston, B.A. (editor); Patricia Grauer, M.A. (managing editor). Circulation manager is Mary Palmer. Production is done by Beth Stephens and Connie Burch; photography by Dick Wesley. Date of publication of the next issue is Monday, March 31.

Michigan State University is an affirmative action/equal opportunity institution.
THURSDAY, MAY 15, 1980


12 p.m. Annual MSU-COM Alumni Luncheon, held in conjunction with annual MAOP&S scientific seminar. Reservations are available in the convention registration packet. For further information contact Sandy Kilbourn, Office of Alumni Information, 517/353-8822. Hyatt Regency, Dearborn.

12 p.m. "Surgeon as Artist" by physician/author Richard Seltzer. Surgery grand rounds/Ingham Medical Center.

2 p.m. CME program: "Sun-Induced Skin Cancers in Humans: Tan-fast-iks and the PUVA Treatment of Psoriasis" by Chev Kidson, M.D., director, Queensland Institute of Medical Research, Brisbane, Australia. The program, which will deal with basic research on melanoma, includes a panel of experts. Cosponsored by College of Osteopathic Medicine and College of Human Medicine. Until 4:30 p.m. Conrad Auditorium.

8 p.m. Medical Humanities Seminar: "Surgery as Poetry" by Richard Seltzer, physician/author.

FRIDAY, MAY 16, 1980

11:30 a.m. Biochemistry colloquium: "Relationship Between DNA Repair and Cell Differentiation" by Chev Kidson, Queensland Institute of Medical Research, Brisbane, Australia. Cosponsored with the National Institute of Environmental Health Sciences. 101 Biochemistry.

MONDAY, MAY 19, 1980

11:30 a.m. Biochemistry colloquium: "DNA Repair and the Induction of Tumors" by Anthony Pegg, Department of Physiology, Pennsylvania State University. Cosponsored with Colleges of Osteopathic Medicine, Human Medicine, Natural Science and Veterinary Medicine. 101 Biochemistry.

3 p.m. Second annual James M. Schwinghamer Memorial Lecture: "Continued Research on Skin and Muscle Circulatory Responses during Prolonged Hypovolemia" by Robert Bond, Ph.D., chairman, Department of Physiology, Kirkville College of Osteopathic Medicine. E106 Fee Hall.

TUESDAY, MAY 20, 1980

4 p.m. Pharmacology and Toxicology seminar by Andrew Werber, Department of Pharmacology and Toxicology, MSU. B448-9 Life Sciences.

WEDNESDAY, MAY 21, 1980

4 p.m. Pathology seminar: "Models for Multiple Sclerosis: Experimental Allergic Encephalomyelitis" by Ellsworth C. Alvord J., M.D., professor of pathology, School of Medicine, University of Washington. A131 E. Fee.
MONDAY, APRIL 14, 1980

11:30 a.m. Biochemistry colloquium: "Repair of Ionizing Radiation Damage in Mammalian Cells: Cell Killing and Neoplastic Transformation in Vitro" by Mortimer Elkind, Division of Biological and Medical Research, Argonne National Laboratory. Cosponsored by Colleges of Osteopathic Medicine, Human Medicine, Natural Science and Veterinary Medicine. 101 Biochemistry.

TUESDAY, APRIL 15, 1980

12:30 p.m. Neuropathology Special Topics Series: "Possible Mechanism of Action of Opioid Peptides" by Glyn Dawson, Ph.D., Department of Pediatrics, University of Chicago. Sponsored by Neuroscience Program and Department of Pathology. 101 Biochemistry.

3 p.m. Neuropathology Special Topics Series: "Lysosomal Hydrolase Deficiency States" by Glyn Dawson, University of Chicago. Sponsored by Neuroscience Program and Department of Pathology. A538 E. Fee.

SATURDAY, APRIL 19, 1980


MONDAY, APRIL 21, 1980

11:30 a.m. Biochemistry colloquium: "Replicative By-pass Mechanisms in Mammalian Cells" by Bernard Straus, Department of Microbiology, University of Chicago. 101 Biochemistry.

TUESDAY, APRIL 22, 1980

4 p.m. Pharmacology and Toxicology seminar: "Tuberohypophyseal Dopaminergic Nerves: A Comparison with Other Central Dopaminergic Systems" by Richard Alper, Department of Pharmacology and Toxicology, MSU. B448-9 Life Sciences.

THURSDAY, APRIL 24, 1980

SUNDAY, APRIL 27, 1980

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

MONDAY, APRIL 28, 1980

11:30 a.m. Biochemistry colloquium: "The Role of Chromatin Structure in DNA Repair" by Michael Lieberman, Department of Pathology, Washington University, St. Louis. 101 Biochemistry.

4 p.m. Physiology seminar: "Why Do High-Fat Diets Stimulate the Development of Mammary Tumors When Fed to Rats Treated with DMBA?" by Chuck Aylsworth, graduate assistant. 101 Giltner.

TUESDAY, APRIL 29, 1980

3:30 p.m. Dean's seminar: "Some Insights from Research in Cross-Cultural Obstetrics" by Brigitte Jordan, assistant professor of anthropology. RSVP Sharon Rochon, 517/355-9611. E2 Fee Hall.

4 p.m. Pharmacology and Toxicology seminar: "Chlorphentermine-Induced Phospholipidosis: Effects on Properties and Functions of Rat Alveolar Macrophages" by Mark Reasor, Department of Pharmacology, University of West Virginia. B448-9 Life Sciences.

WEDNESDAY, APRIL 30, 1980

"Advanced Cardiac Life Support Course." Contact Duane M. Tester, 313/335-7742. Michigan Center for Continuing Education in Osteopathic Medicine, 900 Auburn Road, Pontiac.

THURSDAY, MAY 1, 1980

12 p.m. Issues in Medical Nutrition: "Nutrition in Medical Education" by Philip L. White, Sc.D., director, Department of Food and Nutrition, American Medical Association. A133 Life Sciences.

MONDAY MAY 5, 1980

4 p.m. Physiology seminar: "The Brain Renin/Angiotensin System in Hypertension" by Greg Fink, Ph.D., assistant professor of pharmacology and toxicology. 101 Giltner.

TUESDAY, MAY 6, 1980

4 p.m. Pharmacology and Toxicology seminar by Chao-Hen Kuo, Department of Pharmacology and Toxicology, MSU. B448-9 Life Sciences.

THURSDAY, MAY 8, 1980

8 a.m. Pediatrics grand rounds: Vincent M. Riccardi, Robert Kleber Center for Human Genetics, Baylor College of Medicine, Houston. St. Lawrence Hospital Auxiliary Room.
THURSDAY, MAY 8, 1980

12 p.m. Issues in Medical Nutrition: "Obesity" by George A. Bray, M.D., Department of Medicine, University of California at Los Angeles. A133 Life Sciences.

4 p.m. Genetics Program seminar: "The Genetics of Human Embryonic and Neural Crest Tumors" by Vincent M. Riccardi, Baylor College of Medicine. Plant Biology Building seminar room.

SATURDAY, MAY 10, 1980


MONDAY, MAY 12, 1980

11:30 a.m. Biochemistry colloquium: "Relationship Between DNA Replication and Excision Repair" by James Cleaver, Department of Radiology, University of California, San Francisco. Cosponsored with MSU Genetics Program. 101 Biochemistry.

4 p.m. Physiology seminar: "Basic Architecture of the Cell: the Microtubular Network" by John Wolsewick, Ph.D., Department of Anatomy, University of Illinois College of Medicine, Chicago. 101 Giltner.

TUESDAY, MAY 13, 1980

4 p.m. Pharmacology and Toxicology seminar: "Central 5-Hydroxytryptamine and the Behavioral Effects of Hallucinogens" by Randall Commissaris, Department of Pharmacology and Toxicology, MSU. B448-9 Life Sciences.

WEDNESDAY, MAY 14, 1980

Workshop on Diagnostic Electron Microscopy in Pathology. This program will include practical demonstrations with hands-on experience of transmission electron and scanning electron microscopy and related topics. Enrollment limited to 40. Sponsored by the College of Human Medicine, College of Osteopathic Medicine, and Department of Pathology. Through May 16. Contact Shirley Siew, M.D., professor of pathology, A522 E. Fee Hall. Clinical Center.

8 p.m. "Surgery and Writing: the Challenge of Two Careers" by physician/author Richard Seltzer. Tower Room/MSU Union.
MULTITUDE OF SERVICES OFFERED THROUGH OFFICE OF EDUCATIONAL RESOURCES

Administration of systems biology courses, training simulated patients, production of medical education programs, and supervision of self-instructional centers are — among other things — activities centered in MSU-COM’s Office of Educational Resources.

Acting assistant dean for educational resources is Bruce Miles, Ph.D.

Dr. Bruce Miles, acting assistant dean for educational resources

College-wide Multidisciplinary Courses

"Through the Office of Academic Affairs, we handle all the 'OST-labeled' courses for the College, with the assistant dean acting as a departmental chairman for these courses," Dr. Miles said. "These include the introductory classes on comprehensive patient evaluation, and the systems biology series — introduction to laboratory medicine, growth and aging, and the reproductive, cardiovascular, respiratory, urinary, gastrointestinal, nervous and musculoskeletal systems.

At the center of the College of Osteopathic Medicine's spiral curriculum, these courses incorporate basic science and clinical problems related to each system, including structure, function, pathology, clinical pharmacology and patient management.

Personnel from Educational Resources coordinate course and teaching schedules, and meet with course coordinators to discuss planning, testing and unique resource needs of the faculty.
The office also serves as liaison with the Curriculum Committee, the Advisory Committee on Osteopathic Medical Education, and the systems biology coordinators group, Dr. Miles said.

Instructional development and instructional product development are regular activities provided to interested faculty. In addition, the office maintains liaison with MSU's Instructional Media Center and Instructional Television service in an effort to coordinate COM's program and resources with these campus-wide service units in the production of photographic instructional materials.

Secretary to the assistant dean is Karen Post.

Assistants for Systems Biology Courses

Three assistants — Peggy Ductcher, M.A., assistant instructor, and graduate assistants Kent Sheets, M.S.Ed., and Barbara McKenziel Hamilton, M.A. — work closely with course coordinators in the systems biology series.

"All three of us have strong backgrounds in education," Ductcher said, "and are available to provide day-to-day consultation and assistance to the systems biology faculty."

Their duties include many of the logistical tasks of medical education, such as scheduling, contacting personnel, handling of course outlines, making arrangements for media equipment and material, previewing instructional materials, and preparing examinations and evaluating the examination results with the course coordinator, Ductcher said.

Linda Phillipich acts as secretary for the systems biology program.
Media Services

The production and distribution of media services for medical education in Fee Hall is handled by Gary Roettger, television engineer and John Williamson, production assistant.

Media Services provide basic instructional services to the classrooms, including needed audiovisual equipment such as TV receivers, slide projectors, tape recorders, and video equipment. Four classrooms have permanent installations, Williamson noted.

Additional closed-circuit lines exist to class and conference rooms, he said, and a mobile unit, with video receiver and playback deck, is also available.

All lectures are audio-taped and made available on a check-out basis to students and faculty. In addition, students may have the lecture duplicated on their own tapes for use at home or in automobiles. A 60-minute recording can be duplicated in less than three minutes, Williamson said, and more than 2,000 such duplicates are made each term.

Media services are also provided in instructional settings such as teaching doctor-patient interactions, and for special events such as continuing medical education programs at MSU's Kellogg Center.

Simulated Patient Program

A corps of 75 simulated patients is selected, trained and evaluated by Holly Holdman, M.A., specialist, who also works closely with faculty in designing learning experiences where the "patients" might best be used. The simulated patients are used extensively in all three terms of comprehensive patient evaluation, and also in the courses on the gastrointestinal, genitourinary, and nervous systems, Holdman said.

Though the corps is trained to accurately simulate disease symptoms, special emphasis is also placed on helping student physicians with their interview skills, she said. She noted that the use of graduate students in counseling as simulated patients had been particularly effective in providing feedback to medical students on the doctor-patient relationship.

Jackie Warner is secretary in the Simulated Patient Program.
Electronic Maintenance Department

All audiovisual and television equipment is maintained by Gary Roettger, who is also chief engineer for the production unit.

Roettger is also responsible for scheduling of classrooms and laboratories in Fee Hall, interfacing schedules of the College of Osteopathic Medicine, College of Human Medicine, College of Veterinary Medicine, and other university units.

Gary Roettger is the College’s electronic wizard.

Self-instructional Facilities

Study facilities for students in the College of Osteopathic Medicine are open more than 70 hours each week, under the direction of Lorna LaVerne, M.A., graduate assistant. Carrels, slide projectors, videotape decks and recorders, books, journals, free monographs, microfiche, microscopes, and assigned readings are available to students in the Carrel Room or in E-6 Fee Hall.

In addition, specialized class material, such as microscope slides and anatomical models and specimens are available for student use.

LaVerne is also responsible for teaching models, such as those used for practice in cardiopulmonary resuscitation, intubation, gynecological and rectal examination, ophthalmoscopic exams, and heart sound simulators.

The Carrel Room is open from 9 a.m. to 10 p.m. Mondays through Thursdays; 9 a.m. to 5 p.m. Fridays; noon to 5 p.m. Saturdays; and 2 to 8 p.m. Sundays. On the weekend before final examinations, hours are extended to 10 p.m.

E-6 is open during all Carrel Room hours except on Saturdays.
FLUID AND ELECTROLYTE DISORDERS OF CHILDREN

Fluid, electrolyte and acid-base disorders of children will be the focus of the third annual conference sponsored by the Department of Pediatrics at MSU-COM. To be held Sunday, March 23, 1980, at MSU's Kellogg Center for Continuing Education, the conference is chaired by Frank Schneiderman, D.O., professor of pediatrics. The program includes

8 a.m. "Body Fluids, Composition and Buffers" by Burnell H. Selleck, Ph.D., associate professor of physiology.
"Gas Transport and Exchange" by Richard S. Heisey, Ph.D., professor of physiology.
"Renal Mechanisms in Fluid, Electrolyte and Acid-Base Homeostasis" by Selleck.
"Maintenance Fluid and Electrolytes" by Frank Schneiderman, D.O.

1 p.m. "Hyperalimentation" by David S. Sciamanna, D.O., fellow, Neonatal Intensive Care Unit, Sparrow Hospital, Lansing.

2 p.m. "Clinical Application of Fluid, Electrolytes and Acid-Base" by Michael D. Baille, M.D., Ph.D., Department of Pediatrics, University of Kansas Medical Center.

Eight hours of Category I credit has been tentatively granted by the Michigan Board of Osteopathic Medicine and Surgery, and by the American Osteopathic Association. For registration or further information, contact Joan Martin Alam, 517/353-7782.

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MICHIGAN RURAL HEALTH ACTION COALITION

Inadequate access to health care facilities and providers, as well as problems of financing of health care, threaten the health of rural America.

The Michigan Rural Health Action Coalition, a group of Michigan State University students who represent various disciplines -- including medicine, nursing, nutrition and social work -- are interested in affecting aspects of health in rural Michigan.

The focus of this group is to assist community development in selected rural areas by organizing a series of health fairs and related projects in the summer of 1980.

"We hope that these fairs will be catalysts for the communities to evaluate their own health and economic resources and needs," Dan Hardie, fund-raising coordinator, stated. "We hope that the organization, thought and cooperation required of the communities for the production of these fairs will become permanent tools that the community can use to take a more active part in its own development."

Currently the coalition is in the process of preparing grant applications, selecting a rural community and organizing the summer's activities. Interested persons are invited to attend weekly meetings held Sundays in E6 Fee Hall from 6:30 p.m. to 8 p.m., or to contact Dan Hardie at 351-6153.

College of Osteopathic Medicine students active in the coalition are Judy Hoffman, Jane Harris and Marilyn Mittenthal from the first-year class, and Cheryl Blaisus from the second-year class.
MSU FOOD SCIENTISTS CONDUCT "SWEET STUDY"

Almost 20 percent of the total sugars eaten by children daily comes from milk and cheese, while less than three percent of that intake is from candy.

These are among the findings in a Michigan State University eating habits study of 657 five-to-twelve year-olds in 48 states, aimed at analyzing sugar intake.

The research was conducted by Karen J. Morgan and Mary E. Zabik, faculty members in MSU's Department of Food Science and Human Nutrition. Results are based on daily food intake records compiled by the children's parents during a one-week period.

Morgan explained that the researchers looked at total sugar intake, including sucrose, glucose, lactose, maltose and other reducing saccharides.

After milk and cheese (high in lactose), the researchers found that the food group containing cakes, cookies, pies and other desserts was the second highest contributor to daily total sugar intake.

Significant contributions were also made by sweetened beverages, fruit and condiments like dessert sauces, jellies and catsup.

Candy as a daily sugar contributor placed third from the bottom of the list. Donuts and sweet rolls were the lowest daily total sugar source, with table sugar second from the bottom.

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CLINICAL CENTER LIBRARY UPDATE

The Clinical Center Library, opened in October 1976 to serve the needs of personnel involved in patient care at the Clinical Center, has now expanded to support the curriculum needs of students in the College of Osteopathic Medicine, College of Human Medicine, and graduate students in the School of Nursing.

Selected for its relevance to ambulatory care and clinical medicine, the library collection consists of more than 1200 monographs and the ten most recent years of 132 journal titles.

Hours have been expanded from 40 to 95 a week, with 66 persons using the facility each day. Total volume has grown from 2358 to 3609, and the number of items circulated each month has burgeoned from 24 to 1207.

Last May, computer access to the National Library of Medicine databases became available at the Clinical Center Library. In addition approximately 500 items -- many from the College of Human Medicine Reading Room -- have been added to the collection, providing greater depth and a multiple-copy assigned reading collection of heavily-used medical texts.

Hours for the Library, located in A137 Clinical Center, are 8 a.m. to 11 p.m. weekdays, 11 a.m. to 7 p.m. Saturdays, and 11 a.m. to 11 p.m. Sundays. Access to the Library during the weekends and after 5 p.m. weekdays is through the entrance in the walkway between the A and B buildings of the Clinical Center.

For further information, call 517/353-3037.
MEAD JOHNSON AWARDS FOR GRADUATE TRAINING

The Mead Johnson Awards for Graduate Training in Osteopathic Medicine provide financial assistance to selected graduates toward a year of residency training.

Two new awards, designated specifically for pediatrics will be awarded this year, in addition to 12 other $1,500 grants.

Grants are available to any osteopathic physician within four years of date of graduation from an osteopathic college. The recipients may choose any hospital approved for residency training by the American Osteopathic Association.

Deadline for application is April 15, 1980. Forms may be obtained by writing the Committee on Educational Grants, The National Osteopathic Foundation, 212 East Ohio St., Chicago, Illinois, 61611.

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MEDICAL ANTHROPOLOGY SERIES

A series of lectures designed to encourage communication among researchers interested in social and biological aspects of medicine have been scheduled.

Persons interested in attending should contact Carl Kendall, 517/353-8882.

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NOBEL LAUREATE ON CAMPUS MARCH 24-25

Sir Peter Medawar, awarded the 1960 Nobel Prize in physiology and medicine, will discuss "The Limits of Science" at 8 p.m., Tuesday, March 25 in Erickson Kiva.

He and Lady Jean Medawar will present "Women in Science" and "Progress for Women" from 3 to 5 p.m., Monday, March 24, at McDonel Kiva.

Sir Peter is known for his work in immunology and its role in organ transplantation, and has done research on immunology and cancer and aging. He has written extensively on the philosophy of science.

Lady Jean, chairperson of the British Planned Parenthood movement and coeditor of its journal, is a director of the Margaret Pyke Trust and board member of Barbara Ward's International Institute of Environment and Development.

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PHYSICIAN COMPETENCE FOCUS OF MARCH 15 SEMINAR

"Physician Competence and Patient Care" and component society meetings of the Michigan Association of Osteopathic Physicians and Surgeons will be held at the Northfield Hilton Inn, 5500 Crooks Road, Troy, on Saturday, March 15.

Approval for eight hours of CME credits has been requested. For information, contact Duane Tester, Michigan Center for Continuing Education in Osteopathic Medicine, 313/335-7742.
DOUG JOYCE CAPTURES SECOND AWARD
FOR PAPERS ON PACEMAKERS

Douglas Joyce, M.S., a second-year osteopathic medical student, has been recognized for papers on pacemakers by Intermedics, Inc. for the second year in a row.

Joyce's entry, "Indications for Transvenous Pacing with Atrioventricular and Intraventricular Conduction Defects Complicating Acute Myocardial Infarction," was chosen to receive a $1,000 scholarship award. It is being submitted by Intermedics for publication in osteopathic medical journals.

Last year, Joyce received the same award for his article on "Various Complications Associated with Transvenous Endocardial Pacing."

PEOPLE

Teresa Bernardz, M.D., professor of psychiatry, and Terry Stein, M.D., associate professor of psychiatry, presented a two-day institute on "Men's, Women's and Combined Groups" at the annual meeting of the American Group Psychotherapy Association, held in Los Angeles February 12-13. Dr. Bernardz also presented a one-day workshop on "Women's Groups" at the same conference.

Sister Mary Honora Kroger, Ph.D., associate professor and administrative assistant in community health science, Anne Cunningham, Ph.D., assistant professor of family practice, and Archie Bedell, M.D., Ph.D., associate professor of family practice, presented a workshop on "Development of a Curriculum in Geriatrics/Gerontology." The program was part of a workshop on "Family Practice Education in Medical Schools" cosponsored by the Society of Teachers of Family Medicine and the American Academy of Family Physicians, held February 10-13 in Kansas City, Missouri. The MSU discussion focused on how an interdisciplinary team can develop and implement courses in geriatrics/gerontology in a medical school and included examples of lecture content, case study formats and clinical experience.

Celia B. Guro, Ph.D., assistant to the dean and director of faculty and professional development, presented a segment at the "Let's Move Forward" workshop sponsored by the Faculty Women's Association. The topic of her presentation was "Dual Career Marriages."

Gaston E. Blom, M.D., professor of psychiatry and elementary and special education, is the author of "Heather's Story—A Handicapped Person's Rights to as Normal a Life as Possible" published in American Examiner VIII:1, 35-36, Fall-Winter, 1979-80. He also made a presentation February 11, to the Okemos Central School staff on "Understanding Emotionally Impaired Children."

Craig Downs, D.O., 1975 alumnus, was just elected to the Michigan Chapter Board of Directors of the American College of Emergency Physicians (ACEP). He will be speaking to the Michigan ACEP scientific assembly on "The Acute Nonsurgical Abdomen" on Mackinac Island May 30.

Thomas Gunnings, Ph.D., professor of psychiatry, was the keynote speaker at a workshop on student and campus security relations held at Alabama A&M University January 23. His topic was "Communications— A Major Factor in Campus Security."
GIFTS AND GRANTS

The following medically-related gifts and grants, totaling $732,714 were among those accepted by the MSU Board of Trustees at its February 22, 1980, meeting.

**College of Osteopathic Medicine**

National Cancer Institute
- Investigate interaction of carcinogens with DNA to study the effects of DNA repair on this interaction/ J. J. McCormick, V. Maher

Biochemistry

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

MSU Foundation
- Transfer of gift from David G. McConnell designated specifically to the Biochemistry Fund/ R. J. Tanis

Biomechanics

The Cranial Academy
- Histochemical studies of the cranial suture/ E. Retzlaff

Genesee Intermediate School District
- To support basic research in craniocerebral dysfunction/ J. E. Upledger

Community Health Science

MSU Foundation
- Transfer of an anonymous gift for department development/ S. Katz

Medical Education Research and Development

Ohio University
- Assessment of problems and priorities in osteopathic principles education/ S. A. Sprafka, R. C. Ward

**Microbiology and Public Health**

Food and Agriculture Organization
- Workshop on hemorrhagic septicemia/ G. R. Carter

Leukemia Society of America, Inc.
- Study of the role of two early genes/ M. M. Fluck

National Institute of General Medical Sciences
- Membrane morphogenesis and differentiation in bacteria/ R. L. Uffen

U.S. Department of Agriculture
- Fixed nitrogen regulation: rhizobium-clover symbiosis/ F. B. Dazzo

Pathology

Dow Chemical Company
- To provide stipend and department expense support for a Dow Special Fellowship for Romona H. Matter/ J. D. Krehbiel

Michigan Sea Grant Program
- Incidence and type of stress induced diseases in selected fishes in the Great Lakes/ A. L. Trapp

United Cerebral Palsy Association of Michigan
- Placental tissue registry/ C. H. Sander

Pharmacology and Toxicology

Pharmaceutical Manufacturers Association
- The role of tissue perfusion and enzyme induction/ R. A. Roth
- Treatment of the enzyme deficiency disease scurvy by enzyme replacement therapy/ P. H. Sato
GIFT AND GRANTS

Pharmacology and Toxicology cont

National Cancer Institute
—Repair syntheses of DNA in precancerous rat liver/ J. I. Goodman

National Institute of Neurological and Communicative Disorders and Stroke
—Catecholamines as central nervous transmitters/ K. E. Moore

National Heart, Lung and Blood Institute
—Cardiac glycosides: mechanism of inotropic action/ T. Akera

Physiology

National Institute of Arthritis, Metabolism and Digestive Diseases
—Control of secretion of hypothalamic-pituitary hormones/ J. Meites

Psychology

National Institute of Neurological and Communicative Disorders and Stroke
—Internal sensing systems and drinking behavior/ G. I. Hatton

Radiology

Food and Drug Administration
—To determine the utility of administering diagnostic x-rays/ E. J. Pochten

Zoology

Michigan Department of Public Health
—Purchase of microscope for clinical and research purposes/ J. V. Higgins

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UNIT III NEWS AND INFORMATION

A new staff member in the Unit III Office is Laurie Splitt. As office assistant, she will be handling some of the clerical details associated with Unit III scheduling, evaluation and coordination. A part of her time will also be spent as support staff for Paul Dressel, Ph.D., and Shirley Weaver, of the Office of Institutional Research.

Log sheets of evaluations will be sent to each Unit III student sometime in March. Students planning to complete degree requirements in June are advised to be sure that all evaluations necessary to assign grades (or remove deferred grades) are completed and forwarded to the Unit III Office promptly.

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HEALTH CARE EXPANDED TO DORMITORIES

Michigan State University students can now receive health care in two residence hall complexes. To improve its delivery of service, Olin Health Center has initiated a pilot program to offer nonemergency health services to residents of Brody and Hubbard Hall complexes.

If the pilot program proves cost-effective and widely accepted by students, treatment centers will be established in all residence hall clusters by fall 1980.

Greater emphasis will be placed on preventive health care, and residence hall treatment centers will make this information more accessible to students. Lawrence Jarrett, D.O., director of Olin Health Center will oversee the program.