ON THE COVER

This scanning electron microscope photo shows a platelet nesting in a red blood cell at 30,000 X magnification. Taken by Joan C. Mattson, M.D., and Donna Craft in the Department of Pathology, this photo won a national award from the American Heart Association.

IN THIS ISSUE:

3 Electron microscopy for diagnosis: MSU conference
Jordan to discuss cross-cultural birthing

4 NIH summer term traineeships: application April 18
Good mental health key to healthy body

5 Traverse City Osteopathic Hospital affiliates with MSU-COM
Hook named director of MSU Environmental Toxicology Center

6 People

7 Gifts and grants

8 Fluid intake more critical for children than adults

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 C. Spink, D.O., Ph.D.; Nancy Houston, B.A. (editor) and Patricia Grauer, M.A. (managing editor). Circulation manager is Mary Palmer. Production on this issue was done by Beth Stephens; photography by Dick Wesley. Date of publication of the next issue will be Monday, April 28, 1980. Copy deadline for that issue is noon, Thursday, April 17.

MSU is an Affirmative Action/Equal Opportunity Institution
WORKSHOP ON DIAGNOSTIC ELECTRON MICROSCOPY
IN PATHOLOGY AT MSU MAY 14-16

A three-day workshop on diagnostic electron microscopy in pathology will be offered at Michigan State University May 14-16.

The program is designed to demonstrate the application of both transmission and scanning electron microscopy to aid practicing pathologists in establishing a definitive diagnosis. The program will start with basic ultrastructure and work up to recent advances in ultrastructural investigation.

Practical demonstrations with hands-on experience for participants will highlight the program, including techniques such as tissue processing (including the JB-4 plastic embedding medium), critical point drying, coating techniques, freeze-fracture, energy dispersive x-ray microanalysis, and electron diffraction.

Main topics to be covered include
- Introduction to electron microscopy
- Basic ultrastructure of cellular reactions to injury
- Genitourinary system: interpretation of renal and testicular biopsies
- Neuromuscular system, skeletal and cardiac muscle
- Gastrointestinal system
- Hemopoietic and reticuloendothelial system
- Neoplasia
- Microbiology
- Comparative pathology
- Toxicology.

MSU faculty include Robert W. Leader, D.V.M., chairman of the Department of Pathology; Joan Mattson, M.D., professor of pathology, and Shirley Siew, M.D., professor of pathology.

Visiting faculty include Benjamin Trump, professor and chairman of the Department of Pathology at the University of Maryland at Baltimore; and Sidney Schorholt, professor of pathology at Oklahoma Health Science Center; Jans Muller, of Indiana University Medical Center; and Harry Carter of St. Vincent's Charity Hospital, Cleveland.

Program participation will be limited to 40 persons. For information or registration, contact Dr. Shirley Siew, Electron Microscopy Workshop, Department of Pathology, Michigan State University, A522 E. Fee Hall, East Lansing, Michigan 48824.

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BRIGITTE JORDAN TO DISCUSS
CROSS-CULTURAL OBSTETRICS AT DEAN'S SEMINAR

"Some Insights from Research in Cross-Cultural Obstetrics" will be the topic of Brigitte Jordan, Ph.D. at a College of Osteopathic Medicine Dean's Seminar April 29.

Dr. Jordan, assistant professor in the Department of Anthropology, will speak at 3:00 p.m. in E2 East Fee. Persons wishing to attend the seminar should contact Sharon Rochon, 517/355-9611.

Dr. Jordan has studied childbirth in the United States, Mexico, and Europe for the past eight years. She will present videotapes of the birth process in different cultures and will discuss experiential and clinical implications of her research.
NIH SUMMER TERM TRAINEESHIPS
APPLICATION DEADLINE APRIL 18

April 18 is the deadline for applications for summer term research traineeships sponsored by the National Institutes of Health.

The grants, which include stipends of $1,260, are offered to students interested in learning and conducting research in basic science or clinical departments under faculty mentors.

Administered as part of the Medical Scientist Training Plan in the College of Osteopathic Medicine, the traineeships will not be limited to summer term for osteopathic medical students, said Philipp Gerhardt, associate dean for research.

Information and application forms may be obtained through Dr. Gerhardt's office at A317D East Fee.

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GOOD MENTAL HEALTH
KEY TO HEALTHY BODY

People can teach themselves to be sick or healthy, says a Michigan State University professor of family medicine. And how they see themselves and the world helps determine the nature and frequency of their illnesses.

"There are 'painful' people," said Robert C. Ward, D.O., "who have been taught to be sick. They have a strong belief in 'powerful others' whom they can turn their lives over to and who will take care of them. In many cases, not turning over your autonomy to your doctor may be the healthiest thing you can do."

Ward told an audience during Farmers' Week at MSU, that people can change the way their bodies handle illness by having a "good way of thinking about things."

"An increase in stress can actually change the cellular chemistry of your body," Ward said. "Controlling stress by good mental health and coping techniques will help your survival."

Ward said that too often people and their physicians don't understand the complexities of stress and only make the problem worse by reinforcing "negative behavior" that doesn't help a person learn to cope.

He sees physicians as largely ill-prepared to treat stress in their patients. Physicians can't really be blamed for this, though, Ward said, because they're merely responding to social expectations, to patients who expect a tranquilizer prescription and a medical answer to an often psychological problem.

To cope with stress, people first need to recognize that stress is natural and that no one can expect always to be happy and comfortable, Ward said. Coping with stress is a continuous process, he pointed out.

To best cope with stress, Ward recommended that you identify your primary feeling (anxiety, guilt, etc.); define the biggest problem and its consequential smaller problems; generate many possible solutions; imagine how others in a similar situation would resolve the problem; and consider the pros and cons of each solution.

--Maril Stratton
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-i's 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 Strauss, 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

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

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

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

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

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

Date of submission

Name

Highest degree

Position

Address

Phone

CALENDAR ITEMS

Date

Time

Event

Sponsor

Location

Other information

NEWS ITEMS OR FEATURE SUGGESTIONS

PLEASE RETURN TO the Health and Medicine Section, Information Services, A314 East Fee, Michigan State University, East Lansing, MI 48824. For assistance call 517/353-0820.
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 Roehon, 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 Reaor, 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 Commissarlis, 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.
TRAVERSE CITY OSTEOPATHIC HOSPITAL
AFFILIATED WITH MSU MEDICAL SCHOOL

Osteopathic medical students from Michigan State University are being trained at Traverse City Osteopathic Hospital under an affiliation agreement approved by the MSU Board of Trustees at its meeting March 28.

The hospital is approved to provide training in internal medicine, obstetrics, gynecology, neonatology, surgery, anesthesiology and pediatrics for MSU College of Osteopathic Medicine students doing clinical rotations.

Selective programs in other specialty areas will also be available at the hospital.

Training in community hospitals is emphasized at the osteopathic medical school, which now has formal affiliations with 17 Michigan osteopathic hospitals.

* * * *

DIRECTOR NAMED TO HEAD
ENVIRONMENTAL TOXICOLOGY
CENTER AT MICHIGAN STATE

Jerry B. Hook, Ph.D., professor of pharmacology and toxicology at Michigan State University, has been named the first director of MSU's Center for Environmental Toxicology.

The appointment March 28 by the MSU Board of Trustees ends a long search for an established researcher and leader to coordinate and facilitate the efforts of the many university departments that deal with environmental chemicals and their effects.

Dr. Hook is currently on sabbatical leave, working as a visiting scientist in the toxicology laboratory of Imperial Chemical Industries, Ltd., England, one of the world's largest chemical companies.

Dr. Hook will be assuming his new duties when he returns from England in June, cutting short a sabbatical that was to have ended in September.

The CET was established in October 1978 as a means of bringing the diverse resources of the university to bear on problems created by various chemicals in the environment.

The center will serve as a means of coordinating research in environmental toxicology and as an information center for the state. One function will be to enable the university to respond more effectively to future chemical contamination episodes.

According to a study conducted two years ago, the university had 128 ongoing research projects relating to environmental toxicology. The projects were being carried out in 28 departments and other administrative units and were supported at the rate of $2.2 million annually from federal agencies. They involved 89 graduate students and 17 postdoctoral fellows.

The study also showed that MSU was offering 92 courses — many of them very specialized — dealing with various aspects of environmental toxicology.
Carole B. Rizzo, D.O., B.S.N., 1979 alumna, has been appointed to the Professional Advisory Board for the Home Care Program of the Michigan Cancer Foundation. Dr. Rizzo is an intern at Botsford General Hospital, Farmington.

Gerald Jay Hausler, D.O., 1977 alumnus, was named chief resident in the Department of Family Medicine at the Wayne State University medical complex.

Veronica M. Maher, Ph.D., codirector of the Carcinogenesis Laboratory and associate professor of microbiology and public health and of biochemistry, was recently elected a member of the Advisory Council of the U.S. Environmental Mutagen Society for a three-year term. She also was selected to be a member of the Basic Cancer Research Group under the aegis of the U.S.-France Agreement for Cooperation in Cancer Research, which allows development of cooperative research between the two nations. Dr. Maher serves as a member of the Scientific Advisory Board of the National Center for Toxicological Research, Jefferson, Arkansas.

Dennis M. Lloyd, D.O., 1978 alumnus, has opened a family practice office at 103 E. Main St., Flushing, Michigan. Dr. Lloyd had been in joint practice with Peter A. Kronick, D.O., the past five months.

Jon J. Kabara, Ph.D., professor of biomechanics, is the author of "Toxicological, Bactericidal and Fungicidal Properties of Fatty Acids and Some Derivatives" published in the November 1979 issue of the Journal of the American Oil Chemists' Society (Vol. 56, No. 11, p. 760A-767A). Dr. Kabara also presented a paper on "The Cariostatic Effect of a Food-Grade Lipid," at the annual session of the American Association for Dental Research in Los Angeles March 20-23. Coauthors were P. Lynch and Rachel Schemmel, of the Department of Food Science and Human Nutrition.

Arthur S. Elstein, Ph.D., professor in the Office of Medical Education Research and Development, gave an invited address on "Current Problems on Research in Clinical Decision-Making" at the annual meeting of the North American Primary Care Research Group, held in Lancaster, Pennsylvania, April 17. He also was a coauthor of a paper presented at the annual meeting of the American Educational Research Association, titled "The Old and New MCAT Examinations: What Do They Measure?" Coauthors are John Moidor and Verda Scheifley of the College of Human Medicine. Dr. Elstein also was a critical discussant at a session of three papers on "Studies of Clinical Expertise."

Kenneth Wolok, D.O., 1977 alumnus, has opened a new office, the Tri-County Medical Clinic, P.O. Box 5005 14-Mile Rd., Sterling Heights.

Louderl F. Snow, Ph.D., associate professor of anthropology, presented a paper on "Folk Medical Beliefs of Black Americans: Implications for Health Care Delivery" at the Department of Epidemiology, University of North Carolina, Chapel Hill. She will be serving as a consultant to the department on a five-year Edgecomb County Project to improve access to medical care of rural Black individuals. Dr. Snow also serves as attending behavioral scientist for the ambulatory pediatrics clinic at St. Lawrence Hospital. She is the author of "Mail-Order Magic: The Commercial Exploitation of Folk Belief" published in Journal of the Folklore Institute 16:1:44-74, 1979.
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 March 28, 1980.

College of Osteopathic Medicine

U.S. Department of Energy
—Cytotoxic and mutagenic effects of energy-related agents/ J.J. McCormick

Biochemistry

ICI Americas, Inc.
—Research on the regulation of ribulose bisphosphate carboxylase-oxygenase/ N. E. Tolbert

MSU Foundation
—The molecular basis of avian lymphoid leukemia/Hsing-Jien Kung

National Cancer Institute
—Recombination and replication of avian sarcoma viruses/ Hsing-Jien Kung
—mRNA processing in normal and transformed cells/ F.M. Rottman

Jessie Smith Noyes Foundation
—Research in plant genetics and allied fields/ C.C. Sweeley

The Upjohn Company
—To support research activities and system programming of the Mass Spectrometry Facility/ C.C. Sweeley

Division of Research Resources—Public Health Service
—Mass Spectrometry Facility/ C.C. Sweeley, J.F. Holland

National Institute of General Medical Sciences
—Regulatory and structural protein-DNA interactions/ A. Revzin

Biophysics

Engelhard Industries
The International Nickel Company
—Investigation of the anti-tumor activity of platinum compounds/ B. Rosenberg

Biophysics (continued)

MSU Foundation
—To support biomedical research and to aid in planning of a possible Platinum Research Institute at MSU/ B. Rosenberg

Community Health Science

W. K. Kellogg Foundation
—To continue the Long-term Care Information System assessment process implementation work in Michigan/ S. Katz

Medical Humanities Program

Leo Y. Selesnick
—For the establishment of a memorial reading room in the name of Sylvia Bass Selesnick/ A.D. Hunt

Microbiology and Public Health

National Institute of Allergy and Infectious Diseases
—Antimicrobial properties of the liver/ R.J. Moon
—Iron-dependent enhancement of virulence in Yersinia/ R.R. Brubaker

National Institute of General Medical Sciences
—Structure of chromatin from meiotic yeast/ P.T. Magee

Department of the Army
—Nondestructive biophysical probes of the basis and mechanisms of resistance in microbial spores/ P. Gerhardt

National Cancer Institute
—Expression of genes for tumor-specific antigens/ L.F. Velicer

Pathology

The Upjohn Company
—Fellowship to support a resident veterinary pathologist or veterinarian Ph.D. candidate for a period of one year/ J.D. Krehbiel
**FLUID INTAKE MORE CRITICAL FOR CHILDREN THAN ADULTS**

One of the reasons infants are more profoundly affected than adults by such disorders as vomiting, diarrhea, heat exhaustion and burns is due to differences in the way young bodies handle fluids, said a Michigan State University pediatrician.

Frank Schneiderman, D.O., professor of pediatrics in the College of Osteopathic Medicine, chaired a recent conference at MSU on pediatric fluid, electrolyte and acid-base disorders.

"There are major differences in the proportion of water, bone and muscle between infants and adults," Schneiderman said. "Water requirements of children, relative to their size, are higher than those of adults."

He explained that not only are children's bodies more "watery," but that they have a more rapid turnover in body fluids and salts, making them more susceptible to conditions — such as vomiting and diarrhea — which cause fluid loss.

A major factor in this rapid turnover is the fact that babies breathe faster, thus expelling more water vapor from their lungs, he said.

Schneiderman noted that providing ample fluids for children is not only important in treating disorders of the gastrointestinal tract, but also other medical and surgical conditions, including pneumonia, congenital heart disease, central nervous system trauma, and kidney failure.

Schneiderman recommended that infants especially be given plenty to drink and that they be protected from a dry, overheated environment with proper humidification.

The MSU conference was the second sponsored by the Department of Pediatrics in the College of Osteopathic Medicine, and was supported by a grant from the Mead Johnson Nutritional Division.