THE D.O./PH.D. STUDENT:
MSU-COM's
Medical Scientist Training Plan
D.O./Ph.D. student David Jadwin is one participant in the MSU College of Osteopathic Medicine's unique Medical Scientist Training Plan. Profiles of the students begin on page 3.

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Michigan State University is an equal opportunity/affirmative action institution.
MEDICAL SCIENTIST TRAINING PLAN
MSU-COM'S UNIQUE D.O./PH.D. PROGRAM

The Michigan State University College of Osteopathic Medicine is the first and only osteopathic medical school to award Ph.D. and master's degrees in addition to the D.O. degree.

Opportunities for combined Ph.D./D.O. study are offered in the College's unique Medical Scientist Training Plan, developed to meet the national need for well-trained osteopathic medical scientists and educators. Traineeships are available competitively.

The plan includes three programs for both degrees:

I. Students holding a bachelor's or master's degree and pursuing D.O. and Ph.D. degrees simultaneously.
II. Students holding the Ph.D. degree and pursuing the D.O. degree.
III. Students holding the D.O. degree and pursuing the Ph.D. degree.

The four students highlighted below are participants in MSU-COM's Medical Scientist Training Plan.

David Jadwin: Stalking the Wild Neutrophil

Neutrophils — blood cells which are the body's first line of defense against bacterial infection — are being given close scrutiny by D.O./Ph.D. student David Jadwin.

Using a new technique to microscopically study these cells in whole blood, Jadwin is working with C. Wayne Smith, M.D., associate professor of anatomy, in his research.

Neutrophils are leukocytes — white blood cells — which "recognize" invading bacteria, "crawl" toward them, and then engulf and digest them.

"Unstimulated neutrophils are normally spherical," Jadwin explained, "but are activated by bacterial peptide byproducts. When certain peptides bind to a receptor on the neutrophil, the cell develops an adherent surface and changes to an amoeboid shape.

"This cell migrates by the process of chemotaxis — moving toward a higher chemical attractant concentration," he said.

Stimulated neutrophil

Spherical neutrophil
Neutrophils studied elsewhere use individual cells isolated from whole blood—a lengthy process for cells with a half-life of only eight hours, Jadwin said. But in the MSU lab, the bacterial peptide is added to whole blood, and then spun centrifugally on glass slides to a specified light-measured density. The result is a monolayer blood cell film with the activated neutrophils undisturbed by isolation techniques. The percent of stimulated neutrophils may then be counted by examining the blood films with a microscope.

"The method may have great value in the clinical evaluation of neutrophil dysfunction," said Jadwin, "because it permits very rapid evaluation of neutrophil response—within 30 minutes—and is simple enough to be performed in most clinical laboratories."

He is also working to establish a neutrophil adherence test, using nylon fiber columns to calculate norms for adherence of activated neutrophils.

Though leukocyte and differential counts provide clinicians one index of the response to an infection, Jadwin is seeking to also measure how neutrophil response capacity changes during the course of an infection. To test this, he is investigating both shape change and the adherence responses of the neutrophil to active peptides.

In previous research he had conducted with physicians at St. Joseph's Mercy Hospital in Ann Arbor, Jadwin had found that fully one-third of the hospital patients they tested had neutrophils with a diminished response to the bacterial peptide. Conditions—such as bacterial infection, burns, trauma, myocardial infarction, periodontal disease, and many others—are known to cause neutrophil dysfunction, but as yet neutrophils are not clinically evaluated.

Jadwin began his medical career as a laboratory technician in the U.S. Army, working at Walter Reed Hospital and in Japan for three years. He then held positions in several hospitals, including a five-year stint in the laboratory of St. Joseph's Mercy Hospital of Ann Arbor.

He received his B.S. from Eastern Michigan University in 1978, and began studying for the D.O. degree at the MSU College of Osteopathic Medicine that year. He began his Ph.D. program in the Department of Anatomy two years ago.

He anticipates a research career in clinical pathology and hematology.

Ron Bradley: Neuroimmunocytochemist

Ron Bradley, who is committed to both research and clinical work, seeks to "span the gap between the basic scientists and the physicians" through his studies in the Medical Scientist Training Plan.

A second-year D.O. student, he is completing his Ph.D. in neuroanatomy under the guidance of Stephen Kitai, Ph.D., chairman of the Department of Anatomy.

Tracking nerve pathways through the inner recesses of the brain, Bradley is using several approaches in his studies of the basal ganglia, part of a "relay system" from the cerebral cortex, the major integrating center of the brain, to motor neurons in the brainstem and spinal cord.

Traditionally the basal ganglia have been seen to control the slow, smooth voluntary action, with the disruption of their function causing tremors in diseases such as Parkinson and Huntington's chorea.
Looking at single cells in a process he calls "neuroimmuno cytotechnology," Bradley is testing for the localization and action of actin, sodium- and potassium-ATPase (energy sites), and certain neurotransmitters in the basal ganglia to determine a kind of "memory" and interrelationship with other areas of the brain.

"The problem is very much like having to walk into Ma Bell's major switching station with the assignment of finding one fine wire," Bradley said. "The biochemist does it by grinding up the entire building and then attempting to locate it. The morphologist looks in a window to find the wire. The immuno cytotechnologist uses both approaches."

At 31, Bradley has already amassed an impressive list of publications, abstracts and invited lectures, particularly in studies of the lens of the eye and cataract formation. Yet his life is scarcely limited to his academic pursuits.

At present, he is active as vice president of the Student Osteopathic Medical Association, a member of the Council of Medical Students, and treasurer of the Council of Graduate Students. He teaches as a graduate assistant in anatomy and in osteopathic manipulative therapy, and volunteers at the Drug Education Center one night a week. He is also serving on the search and selection committee for the new director of MSU's Olin Health Center, and maintains senior standing in the National Ski Patrol.

His first exposure to osteopathic medicine was with physicians in his home town of Bellaire, Michigan, near Traverse City. He did his premedical work at Wayne State University, receiving the B.A. in philosophy in 1973, the M.S. in cell biology in 1978, and doing Ph.D. coursework in anatomy until 1980.

David Hyler: Spinal Ligament Testing

David Hyler, who is completing his fourth degree at Michigan State University, began work this summer as a member of the 1981 entering class of the College of Osteopathic Medicine.

Hyler, who has worked in MSU-COM's Department of Biomechanics for the past two years, holds the and M.S. in engineering mechanics, and the M.S. and B.S. in mathematics. He is completing the Ph.D. in engineering mechanics.

He has found biological application of his skills in his studies on mechanical properties of spinal ligaments in primates, conducted with Robert Wm. Little, Ph.D., chairman, and Robert P. Hubbard, Ph.D., associate professor, Department of Biomechanics.

The researchers have tested four spinal ligaments from each of four species of primates — Rhesus monkeys, baboons, chimpanzees and humans — investigating elastic and viscous properties of the ligaments in uniaxial tension tests.
Steve Fuller: Investigating the Effect of Carbon Dioxide on the Lung

Basic research which may have implications for persons with chronic lung diseases is being conducted by D.O./Ph.D. student Steve Fuller under mentor N.E. Robinson, D.V.M., Ph.D., professor of physiology.

Fuller is particularly interested in the effects on the lungs of carbon dioxide, the gas produced as a result of cellular metabolism. Carbon dioxide is involved in the control of ventilation, and its excess is the body's primary respiratory stimulus.

"Carbon dioxide can have a paradoxical effect on the lungs' airways," Fuller said. "When CO₂ is exposed directly to airway smooth muscle, bronchodilation results. High concentrations of CO₂ in the blood, however, cause reflex bronchoconstriction. I'm studying the interaction of these effects."

"In chronic lung disease, these opposite effects can happen simultaneously in adjacent lung tissue," he said.

Fuller explained that in some types of chronic lung disease, CO₂ loses its primary role in the control mechanism of breathing. "These patients may not adequately increase their ventilation in response to CO₂ excess," he said. "If treated with oxygen, the respiratory drive of these patients may be satisfied, and this may result in CO₂ accumulating to dangerous levels in the body."

Using dogs as models, Fuller uses techniques to control both ventilation and the blood flow to the portions of the lung he is studying. He can then measure resistance in the airways, the amount of collateral ventilation (ventilation to lung units through channels bypassing normal airways), collateral resistance, lung compliance ("stretchability"), and blood gas values.

Using MSU-COM's unique Tissue Biomechanics Laboratory, they are able to test soft biological tissues under different deformations and rates, checking variations in properties at different vertebral levels and variations among species.

The work was being done in conjunction with a research project at the College, funded by the US Air Force Aerospace medical Research Lab to develop mathematical models for these soft tissues, eventually to be used for mechanical models of the spine.

The comparisons with primates other than humans will allow the development of reliable animal models for future research.

Histological studies were also done on all tissues to correlate structural variations with variations in mechanical properties.

A career goal for Hyler would be to design and implant soft tissue prosthetics. He presented some of his thesis results at the American Society of Biomechanics conference in Cleveland October 20.
SUNDAY, NOVEMBER 15, 1981


MONDAY, NOVEMBER 16, 1981

4 p.m. Physiology seminar: "Immediate Clinical and Basic Applications of Chronobiology" by Franz Halberg, M.D., professor of laboratory medicine and pathology, and physiology and biophysics, University of Minnesota. 101 Giltner.

4 p.m. "Simian Virus 40 — a Model for Eukaryotic Chromosome Replication" by Melvin DePamphilis, Department of Biochemistry, Harvard Medical School. Sponsored by the Department of Biochemistry. 101 Biochemistry.

TUESDAY, NOVEMBER 17, 1981

4 p.m. "Biophysics of Magnetic Orientation in Bacteria" by Richard P. Blakemore, Department of Microbiology, University of New Hampshire, Durham. Sponsored by Microbiology and Public Health. 146 Giltner.

MONDAY, NOVEMBER 23, 1981

4 p.m. Physiology and Interdepartmental Cardiovascular Training Group seminar: "Origin and Development of the Adenosine Hypothesis and its Applicability in the Conscious Dog." by Robert M. Berne, M.D., professor and chairman, Department of Physiology, University of Virginia School of Medicine. 101 Giltner.

4 p.m. "Protein Phosphatase Regulation of Enzyme Activity" by Bernard L. Horecker, Laboratory of Molecular Enzymology, Roche Institute of Molecular Biology, Nutley, N.J. Sponsored by Department of Biochemistry. 101 Biochemistry.

TUESDAY, NOVEMBER 24, 1981

4 p.m. "Ia Molecules — Genetics, Structure, Function" by Chilla David. Sponsored by Microbiology and Public Health. 146 Giltner.

MONDAY, NOVEMBER 30, 1981

4 p.m. "Myo-inositol Oxidase and Oxidases in General" by Gordon A. Hamilton, Department of Chemistry, Pennsylvania State University, University Park. Sponsored by Department of Biochemistry. 101 Biochemistry.

4 p.m. Physiology and Interdepartmental Cardiovascular Training Group seminar: "Relationship between Gastrointestinal Blood Flow and Functions: by Ching Chung Chou, M.D., professor of physiology and of medicine. 101 Giltner.
MONDAY, OCTOBER 26, 1981

4 p.m. Physiology and Interdepartmental Cardiovascular Training Group seminar: "Vascular Responses to Serotonin in Hypertension" by Clinton Webb, Ph.D., assistant professor of physiology, University of Michigan. 101 Giltner Hall.

4 p.m. "Protein Interaction on Plasma Membranes" by David Branton, The Biological Laboratories, Harvard University. Sponsored by Department of Biochemistry. 101 Biochemistry.

8 p.m. "Case Presentations in Psychiatry." Until 9 p.m. Contact Steven H. Berger, M.D., 616/942-9610. Forest View Hospital, Grand Rapids, Michigan.


TUESDAY, OCTOBER 27, 1981

4 p.m. "Enteropathogenic E. coli Diarrhea — A Reevaluation" by Dennis Mullaney, Department of Medicine, Medical University of South Carolina, Columbia. Sponsored by Microbiology and Public Health. 146 Giltner Hall.

THURSDAY, OCTOBER 29, 1981

9 a.m. "Preventing Occupational Disease." Until 3:30 p.m. Contact Margaret Lee Pegg; 517/353-7822. Kellogg Center, MSU.

1 p.m. "OB/Gyn Basic Science Course." Until 5 p.m. Contact Fareshteh Fahimi, M.D., 517/353-4740. A221 Clinical Center, MSU.

FRIDAY, OCTOBER 30, 1981

2:30 p.m. "World Health Organization Classification of Impairments, Disabilities and Handicaps: A Functional Approach" by Philip H.N. Wood, M.B., F.R.C.P., F.F.C.M., director, Arthritis and Rheumatism Council, Epidemiology Research Unit; honorary reader in community medicine, University of Manchester Medical School, and honorary specialist in community medicine, Northwestern Regional Health Authority, Great Britain. Cash bar reception follows presentation from 4 to 5 p.m. Cosponsored by the University Center for International Rehabilitation and the Department of Community Health Science. University Club, Fireside Room.
COMMUNIQUÉ

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

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PLEASE RETURN TO Medicine and Health Information, A314 East Fee, Michigan State University, East Lansing, MI 48824. For assistance call 517/353-0820.
SATURDAY, OCTOBER 31
8:00 a.m. "One Day Symposium on Cardiology." Registration is $25 for non-DOHC physicians; $15 for DOHC physicians; free for physicians in training. Detroit Osteopathic Hospital, 12523 Third Avenue, Highland Park. For information call 313/252-4823.

SATURDAY, OCTOBER 31, 1981

MONDAY, NOVEMBER 2, 1981
4 p.m. Physiology seminar: "Degeneration of the Tuberoinfundibular Neurons — A Novel Concept for the Development of Pituitary Tumor" by Dipak Sarkar, D. Phil., visiting research associate, Department of Physiology. 101 Giltner Hall.
4 p.m. "Regulation of Ribulose Bisphosphate Carboxylase/Oxygenase" by John Christeller, Department of Scientific and Industrial Research, Palmerstown North, New Zealand. Sponsored by Department of Biochemistry. 101 Biochemistry.

THURSDAY, NOVEMBER 5, 1981
9 a.m. Biomedical Student Research Forum, includes scientific presentations for 19 medical students as part of an NIH-funded research program. From 9 to 11:30 a.m. in 101 Giltner, and from 1 to 5 p.m. in A133 Life Sciences.
12 p.m. "Medical Ethics and Public Policy" by Dan English, M.D., professor of surgery. Life Sciences Auditorium.
2 p.m. "Mobility/Immobility of the Cranial Bones" including basic, clinical and scientific information on cranial mobility and cranial therapy. E106 Fee Hall.
3:30 p.m. "ONC Gene and Cancer: The Final Common Pathway?" by Myron Essex, Ph.D., chairman and professor, Department of Microbiology, Harvard School of Public Health. Part of Biomedical Student Research Forum. A133 Life Sciences.

FRIDAY, NOVEMBER 6, 1981
11 a.m. MSU-COM Council of Affiliated Hospitals meeting. University Club, Lansing.

Eleventh Annual Convocation of MSU College of Osteopathic Medicine honoring the 1981 entering class. Keynote speaker will be Frederick C. Robbins, M.D., president of the Institute of Medicine of the National Academy of Science. The Walter F. Patenque Medals of Public Service will also be awarded. Erickson Kiva.
SATURDAY, NOVEMBER 7, 1981

"Hypertension," cosponsored by MCCEOM and Garden City Hospital. Program chairman is Lester Eisenberg, D.O. Contact Duane M. Tester, 313/335-7742. 6245 N. Inkster, Garden City, Michigan.

7:30 a.m. "Seminar in Internal Medicine," sponsored by the Michigan Osteopathic Medical Center, Inc. No fee. For information, contact the Medical Administration Office, MOMC, 5435 Woodward Ave., Detroit, 48202; 313/494-0468. Seminar at Engineering Society of Detroit, 100 Farnsworth, Detroit.


MONDAY, NOVEMBER 9, 1981

4 p.m. Physiology and Interdepartmental Cardiovascular Training Group seminar: "Left Heart Failure Model for Testing Assist Devices" by John Chimoskey, M.D., professor of physiology. 101 Giltner Hall.

4 p.m. "Use of Monoclonal Antibodies with Examples from Prostaglandin Biochemistry" by William L. Smith, Department of Biochemistry, MSU. Sponsored by Department of Biochemistry. 101 Biochemistry.

WEDNESDAY, NOVEMBER 11, 1981


6:30 p.m. Urology seminar series: "Patient Education in Urology" by Vernon Urich, M.D., chairman of the Urology Section of St. Joseph Hospital, Flint, and chairman of patient education, American Urologic Association; "Uro-radiology" by Brent Murphy, D.O., staff, Urology Department, Flint Osteopathic Hospital. 2 1/2 hours CME credit requested. Dinner included. Contact Duane M. Tester, 313/335-7742. Michigan Center for Continuing Education in Osteopathic Medicine, 900 Auburn Rd., Pontiac.
Fuller, who has completed his second year as an osteopathic medical student, received registration as a respiratory therapist from the University of Chicago in 1977, and completed the M.S. in physiology at MSU in 1979. He has worked as an emergency room orderly, an orthopedic technician, and a respiratory therapist. He also received the B.A. in music literature from MSU in 1973, majored in human medicine at the Université de Nancy in 1975, and received certification in French from the Université de la Sorbonne in 1974. A teacher of sailboat racing, he has participated in the sport for more than 20 years.

POWER OF HOPE IN PATIENT CARE DISCUSSED BY MSU PHYSICIAN IN JAMA

Hope — how it can affect the seriously ill patient, how it can be bolstered truthfully by the physician, and how it means different things to different patients at different stages of illness — is discussed by a Michigan State University faculty physician in the September 25 issue of the Journal of the American Medical Association.

Author of the article is Howard Brody, M.D., Ph.D., acting director of MSU's Medical Humanities Program and assistant professor of family practice in the College of Human Medicine.

"Placebo research has underscored the potency of patient's emotions and ideas in healing the body," Dr. Brody writes.

"We know that the physician is placed in a pivotal role to influence the patient's ideas and emotions for better or worse," he says, "and since hope is such a powerful medicine, we ought to manage our therapeutic relationships so as to maximize its effects."

While some physicians have feared that patients with serious and fatal illnesses would lose hope if told the truth about their conditions, Dr. Brody believes it is almost always possible to combine frank and accurate disclosure with "an invigorating infusion of hope."

"In many cases," he says, "the actual facts are not as grim as patients think, if the patient is motivated to hear the good news along with the bad. When we talk to patients and find out what is really worrying them, we can almost always give some realistic assurances."

He quotes an Emily Dickinson poem:

The heart asks pleasure first,
And then escape from pain,
And then those little anodynes
That deaden suffering,

And then to go to sleep,
And then if it should be
The will of its inquisitor
The privilege to die.

While for the young and healthy, hope may mean a long and active life, for those living day to day with serious illness, hope may attach to much more limited goals — like being free of pain or living long enough to see their families visit, he concludes.

"There is no fundamental conflict between our (the physician's) moral duty to preserve hope — to heal our patients with our words and not just with our medicine — and our moral duty to respect our patients as adult human beings who should be given information they need to make their own free choices about their lives," Dr. Brody writes.
KELLOGG GRANT AIDS IN CARE OF CHRONICALLY ILL

Hundreds of Michigan's chronically ill patients, and others who may eventually need long-term care, are assured of receiving better health care services because of a new standardized patient information system.

Known as the Long-Term Care Information System (LTCIS), this innovation provides easily accessible, essential, and current information about a patient's medical condition, support within the home, care available, and therapeutic services being received.

The system can be used to project the patient's need for hearing services, dental care, emotional/social evaluation or treatment, eye care, physical therapy, speech therapy, and other services such as housekeeping, meal preparation, nursing care, and locating a place to live.

Institutions and agencies providing long-term care employ the LTCIS to help make decisions about care management, levels of patient care and referrals, evaluation of patient progress, and development of care plans.

Chief assets of the system are its comprehensive, objective "common" language, and its reliability and effectiveness in allowing all of the professionals providing long-term care to know as much as possible about their patients. LTCIS also helps avoid duplication of services.

Believed to be a national prototype, the system was developed in the late 1970s by the Michigan Office of Services to the Aging with funding from the W. K. Kellogg Foundation of Battle Creek. The Foundation subsequently made a grant to the Department of Community Health Science at Michigan State University to disseminate the system and provide training in its use.

To date, the system has been incorporated by more than 60 long-term care service providers in Michigan, including nursing homes and other extended care facilities, home health agencies, adult daycare programs and outreach services concerned with long-term care. More than 1,550 health professionals have been trained in its use.

Additional funding of $329,500 from the Kellogg Foundation was accepted by MSU's Board of Trustees at its regular meeting September 25.

During the two-year grant period, MSU will conduct LTCIS training activities at two established training centers: the 700-bed Michigan Veterans Facility in Grand Rapids; and the 200-bed Jewish Home for the Aged in Detroit.

Another training site will be established in the northern region of the state. MSU will also develop educational programs to demonstrate the system's role in long-term care management, and will work to make LTCIS information available to state and local planners.

Project coordinator is Sister Mary Christine Cremin, specialist in MSU's Department of Community Health Science.

In 1930, breakfast cereal pioneer W. K. Kellogg contributed $45 million in personal wealth to establish the Kellogg Foundation. Using income from that bequest, the Foundation has made grants over the past five decades of more than $530 million in the areas of health, education, and agriculture. The Foundation is today among the largest private philanthropic organizations in the nation, and supports programs on four continents, including the United States and Canada, Europe, Latin America, and Australia.
SYMPOSIUM ON "MOBILITY/IMMOBILITY OF THE CRANIAL BONES"
SCHEDULED FOR MSU-COM NOVEMBER 5

An afternoon symposium on the "mobility/immobility of the cranial bones" is scheduled at the MSU College of Osteopathic Medicine for 2 p.m., Thursday, November 5, in E106 Fee Hall.

The program will explore the current basic, clinical and scientific information regarding cranial bone mobility and the practice of cranial therapy, including the diagnostic and therapeutic significance of small movements in the bones.

Faculty include Philip E. Greenman, D.O., associate dean; Lawrence M. Ross, M.D., associate professor of anatomy; William M. Falls, Ph.D., assistant professor of anatomy; Ernest Retzlaff, Ph.D., professor of biomechanics; and John E. Upledger, D.O., professor of biomechanics and family medicine.

Topics will include development of the cranium, arthrology of the cranium, functional significance of cranial suture structure, and the craniosacral concept in clinical medicine.

The program has been approved for Category I credit for D.O.s; application is being made for M.D.s.

* * * *

BIOMEDICAL STUDENT RESEARCH PROGRAM
FORUM SET FOR NOVEMBER 5

Nineteen students who were among the 38 participants of the NIH-funded Biomedical Student Research Program will present their research in a forum for faculty and students on November 5.

The students, who have submitted papers for review by faculty judges, are competing for three $400 awards. The forum will be held from 9 to 11:30 a.m. in 101 Giltner, and 1 to 5 p.m. in A133 Life Sciences.

A special lecture, "ONC Gene and Cancer: The Final Common Pathway?" will be presented by Myron Essex, Ph.D., chairman and professor, Department of Microbiology Harvard School of Public Health, at 3:30 p.m. in the Life Sciences Auditorium.

First-year MSU-COM student Cheryl Hayes checks her future risks of heart disease in a unique computer-assisted risk analysis designed by Sui-Wah Chan of the College of Human Medicine. History, height and weight, blood pressure, skinfold thickness, blood and treadmill test analyses and other data were all taken as part of MSU's Preventive Cardiology Program, funded by the National Heart, Lung and Blood Institute.
Continuing Medical Education

For further information on any of these programs, contact CME coordinator Sandy Kilbourn, M.A., A329 E. Fee, MSU-COM, East Lansing, Michigan, 48824; phone 517/353-8822.

ADOLESCENT MEDICINE: NOVEMBER 15-16, 1981

"Adolescent Medicine in the 1980s" is the theme of the fifth annual conference sponsored by the College of Osteopathic Medicine Department of Pediatrics and the Lifelong Education Programs of MSU.

Scheduled for Saturday, November 14, and Sunday, November 15, the program will include the MSU vs. University of Minnesota football game and a tailgate party. The CME portion begins at 8 a.m. Sunday morning in the Kellogg Center for Continuing Education.

Topics include endocrinology and puberty, adolescent athletic medicine, substance abuse, ethical issues, gynecological exam, and teenage pregnancy.

Conference faculty include Joe Sanders, M.D., from Fitzsimons Army Medical Center, consultant on adolescent medicine to the Surgeon General of the Army, and clinical professor of pediatrics at the University of Colorado.

Faculty from MSU-COM include: Gerard M. Breitzer, D.O. (conference coordinator), assistant professor of pediatrics; Gerald G. Osborn, D.O., assistant professor of psychiatry; Gail D. Riegle, Ph.D., assistant dean for curriculum and professor of physiology; Kenneth Stringer, D.O., assistant professor of pediatrics; and Ruth Worthington, D.O., assistant professor of pediatrics.

The program has been approved for eight hours of Category I credit for D.O.s, and tentatively approved for eight hours of Category I credit by the Michigan chapter of the American Academy of Pediatrics.

Support for the conference was provided in part by a grant from the Mead Johnson Company.

* * * *

1982 SEMINAR IN THE SUN: CANCUN

Building on the success of its first "seminar in the sun" in St. Thomas, the College of Osteopathic Medicine Alumni Association is organizing a trip to Cancun for February 27 - March 8, 1982. The trip is open to any interested person.

An island off Mexico's Yucatan Peninsula, Cancun offers the vacationer the intrigue of modern resorts adjacent to ancient and mysterious Mayan ruins. The trip will include 20 hours of Category I continuing medical education.

The travel package includes round trip airfare from Detroit on Eastern Airlines, ten days and nine nights accommodations at Club Internacional Condominiums, transfers between airport and hotel, baggage handling, a cocktail party, banquet, all taxes and gratuities, and the services of a travel representative. Substantial reductions are available if a condominium is shared by more than two persons, and children are offered a reduced rate. There is an added fee for the CME program.
MANAGEMENT OF COMMON THYROID PROBLEMS: December 5, 1981

A one-day seminar on management of common thyroid problems will be held at MSU's Kellogg Center under the sponsorship of the Department of Internal Medicine, College of Osteopathic Medicine.

Topics will include laboratory diagnosis of thyroid disease, thyroiditis, hyperthyroidism, hypothyroidism, and the impact of needle biopsy on the diagnosis of the solitary nodule.

Faculty include: Joel I. Hamburger, M.D., endocrinologist from Southfield, Michigan, and Arthur R. Levine, D.O., endocrinologist and director of nuclear medicine at Bi-County Community Hospital, Warren. Donald Briner, D.O., professor and chairman of internal medicine at MSU-COM, is moderator.

The program has been approved for six hours of Category I credit.

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BASIC PRINCIPLES OF MANUAL MEDICINE: December 14-18, 1981

A week-long tutorial which includes lecture, demonstrations and practice sessions on the spine, pelvis and extremities, the "Basic Principles of Manual Medicine" course is sponsored by MSU-COM in conjunction with the North American Academy of Manipulative Medicine.

Faculty include Myron Beal, D.O., professor of family medicine, MSU-COM; John Bourdillon, F.R.C.S., private practitioner from Vancouver, B.C.; Philip Greenman, D.O., associate dean, MSU-COM; Paul Kimberly, D.O., former Steunenberg professor and chairman of the Department of Osteopathic Theory and Methods, Kirksville College of Osteopathic Medicine; and John Mennell, M.D., past president of the North American Academy of Manipulative Medicine.

The course is approved for 40 hours Category I credit for both M.D.s and D.O.s.

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RESCHEDULED SERIES ON MUSCULOSKELETAL PAIN: NEXT January 9, 1982

The series on musculoskeletal pain, originally organized as five lectures, has been condensed to two — the first to be held January 9, 1982.

The program is designed to provide family practitioners with comprehensive information on office diagnostic procedures, treatment alternatives and pharmacological innovations applicable to musculoskeletal pain disorders.


The programs are cosponsored by the MSU College of Osteopathic Medicine, College of Human Medicine and Pain Research and Control Institute of Southfield Rehabilitation Center.

To be held at MSU's Clinical Center, this course is approved for six hours Category I credit.
Teresa Bernardz, M.D., professor of psychiatry, conducted a seminar on "Stress and the Working Woman" for women managers in Toledo, Ohio, September 18. She also presented a keynote address on "Women and Anger" for the opening of a women's center by the YWCA of Pittsburgh, Pennsylvania, on September 26.


Michael James, D.O., clinical associate professor of internal medicine, has been elected chairman of the subsection on cardiology at Ingham Medical Center.

Eugene Oliveri, D.O., clinical professor of internal medicine from Farmington Hills, is program chairman of the American College of Osteopathic Internists convention, scheduled for November 15-20 in Los Angeles. He also was chairman of the reasessment committee and chairman of the first annual reasessment course in internal medicine, held May 1-3. Dr. Oliveri presented the G.N. Gillum, D.O. Memorial Lecture for the alumni association of the Kansas City College of osteopathic Medicine, discussing "Humanism and the Irritable Bowel Syndrome" on September 19. He also lectured at KCCOM on "Patients are People!"

Jerry B. Hook, Ph.D., director of the Center for Environmental Toxicology, has been named a Wellcome Visiting Professor in the basic medical sciences at the North Dakota School of Medicine, Grand Forks. He spent the week of October 5-9 meeting audiences throughout the state. The topic of his lecture was "Biochemical Events as Outcomes of Acute and Chronic Exposure to Environmental Toxins."

Gordon W. Gritter, M.D., associate professor of psychiatry, is a coauthor of "Measuring Program Outcome, The Progress Evaluation Scales," published in the August 1981 issue of Evaluation Review. The article summarizes the outcome of a seven-year project at Shiawassee County Community Mental Health, supported by a federal grant and by the Michigan Department of Mental Health. The project was to develop and validate instruments for measurement of outcome of treatment at mental health centers and psychiatric facilities.

John P. Goodridge, D.O., professor of family medicine, chaired the three-person faculty team which conducted a five-day Muscle Energy Level II tutorial for the clinical faculty of the New York College of Osteopathic Medicine August 31 - September 4. He also assisted at a similar tutorial at Lansing General Hospital September 21-25. With Alfonse Marohn, D.O., associate professor of family medicine, he conducted a workshop at the Muskegon General Hospital September 15-16.

Michael N. Musci, Jr., D.O., 1978 alumnus, has just completed his pediatric residency at John F. Kennedy Memorial Hospital in Stratford, New Jersey. He has begun as assistant professor of clinical pediatrics at the College of Medicine and Dentistry - New Jersey School of Osteopathic Medicine, under the chairmanship of Thomas Santucci, Jr., former professor of pediatrics at MSU-COM.

John Rowda, D.O., 1977 alumnus, recently completed his ophthalmology residency at Tulane University, and has joined Lester McLaughan, D.O., in the practice of ophthalmology in Pinellas Park, Florida.

Ronald L. Rhule, D.O., 1973 alumnus, has been commissioned as a senior lieutenant in the U.S. Navy Medical Corps. He is currently attached to the Fourth Marine Air Wing, Selfridge Air National Guard Base, Mt. Clemens, Michigan. He has joined an all-D.O. medical group.