OMT on Videotape: EXPANDING EDUCATIONAL HORIZONS
ON THE COVER

Educational videotapes on osteopathic manipulative procedures are being professionally produced on the MSU campus by two MSU-COM faculty members and Instructional and Public Television. From left to right in the studio are Larry McMullen of IPTV, William Johnston, D.O., and Myron Beal, D.O.

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COMMUNIQUÉ  "Communique," a publication of the Michigan State University College of Osteopathic Medicine, is issued 17 times a year through Medicine and Health Information, Division of University Relations, A314 East Fee Hall, East Lansing, Michigan 48824; telephone 517/353-0820. Members of the Editorial Advisory Committee include Robert C. Ward, D.O. (chairman); Lon A. Hoover, D.O.; Sandy Kilbourn, M.A.; Gordon Spink, D.O., Ph.D.; Kenneth Stringer, D.O.; Jane A. Waldron; Kay E. White, Ph.D.; Nancy Houston, B.A. (editor), and Patricia Grauer, M.A. (managing editor). Circulation manager is Mary Palmer. Production is by Connie Burch; photography by Dick Wesley.

Michigan State University is an equal-opportunity/affirmative action institution.
OMT on Videotape: Expanding Educational Horizons

The instruction is expert, offered by faculty who are internationally recognized as leaders in their field. The instruction is consistent, the demonstrations precisely reproduced each time they are requested. The instruction is accessible, offered at the time and places convenient to the student. The instruction is inexpensive, especially to medical students who have it readily available in the learning center.

The instruction is videotaped.

In 1975, MSU College of Osteopathic Medicine professors Myron C. Beal, D.O., and William Johnston, D.O., were approached by medical students who were concerned about defining the acceptable standard of performance for learning osteopathic manipulative procedures. Televising the teaching seemed an ideal solution, offering all students a "table-side" view and the assurance that all instructions were given in a consistent way.

The project began with the development of a few black-and-white pilot tapes as teaching aids in the psychomotor skills laboratories. These were produced in MSU-COM's own TV studio, originally with Gary Roettger and later with John Williamson and Mark Hodgins. The project has grown now to include a library of 19 full-color, professionally produced videotapes which have been used all over the United States and abroad.

The tapes were integrated into MSU-COM's curriculum, and are now used by other colleges of osteopathic medicine, the armed forces, hospitals, individual physicians, research conferences, and continuing medical education centers in teaching structural diagnosis and osteopathic manipulative therapy. They have been reviewed by the Library of Congress, used in "teaching teachers to teach" OMT, and have been parts of the program of two international congresses in manual medicine.

"The videotapes are an integral part of our continuing medical education program in manual medicine," noted Sandy Kibourn, MSU-COM's coordinator for CME. "We use them both for demonstrations in our formal programs, and as marvelous tools for review during the evening hours. Some physicians use them before the conferences to be assured they have the prerequisite skills for the course."

The color series was developed by a team consisting of Drs. Johnston and Beal; Bruce Miles, MSU-COM's coordinator for educational resources; and Larry McMullen and Bob Muhlbach of MSU's Instructional and Public Television. The team writes the scripts, develops the visuals, does the teaching, produces, and directs the tapes -- a process that requires about 40 hours for each half hour tape.

Drs. Johnston and Beal believe that the videotapes directly address some of the problems inherent in the teaching of complex motor skills such as osteopathic manipulative techniques.

"The course is designed to develop both tactile and proprioceptive sensitivity," noted Dr. Beal. "Part of this is teaching students to manually identify differences in tissue texture -- the skin, subcutaneous structures, superficial and deep muscle, and bone."

"We can't adequately describe how something feels," said Dr. Johnston. "We've found it best to set up
comparisons: this is 'normal,' this is 'abnormal.' We teach to look for surface landmarks, skeletal structures, relationships of structures, and asymmetry of position."

The series begins with diagnostic procedures, evaluating soft tissue, bone position and joint motion. This expertise in palpatory skills is essential, the physicians noted, because of the dynamic character of manipulative medicine.

"During a treatment, physicians must continually monitor their results using their palpatory skills," Dr. Johnston said. "There is a dynamic, continuous and delicate interaction between diagnosis and treatment during a manipulative procedure."

He noted that this is particularly true during motion testing, when evaluating the correct amount of force that needs to be applied.

"The tapes are especially important in teaching placement of physician's hands, aspects of movement, and the relationship between the physician and the patient," Dr. Beal said. "In addition, the camera can often attain angles and close-ups that would not be possible in live teaching situations."

Tapes are available through the Marketing Division, Instructional Media Center, Michigan State University, East Lansing, 48824; 517/353-9229. Costs for a 30-minute tape are $10 for a five-day preview; $30 for a 10-working-day rental, and $150 for purchase. Proceeds are returned to the university.

Evaluating a visual for inclusion in a teaching tape are (left to right) William Johnston, Myron Beal, Larry McMullen, and Bruce Miles.
VIDEOTAPES: OSTEOPATHIC EXAMINATION AND MANIPULATION

Series A: Musculoskeletal Diagnosis

Structural Examination I: Initial Screen
Structural Examination II: Local Scan
Structural Examination III: Segmental Definition
Gross Motion Testing

Series B: Manipulative Procedures

Soft Tissue Techniques I: Introduction
Articulatory Procedures
Thoracic Region I: Upper Thoracic
Thoracic Region II: Mid/Lower Thoracic
Thoracic Cage I: True Ribs
Cervical Region I: Introduction to Direct Technique
Cervical Region II: Occipitoatlantal
Lumbar Region I: Introduction to Direct Technique
Lumbar Region II: Direct/Indirect Technique
Pelvic Region I: Iliosacral
Pelvic Region II: Sacroiliac
Pelvic Region III: Alternate Direct Technique
Upper Extremity I: Clavicle
Lower Extremity I: Foot and Ankle
Assisting Fluid Flow

MSU PSYCHOLOGIST IS AUTHOR
"STRESS, LOSS AND GRIEF"

Understanding the origins and growth potential of stress, loss and grief is examined in a new book by John M. Schneider, Ph.D., associate professor of psychiatry at MSU's College of Osteopathic Medicine and College of Human Medicine.

Stress, Loss and Grief was published in mid-January by University Park Press, Baltimore.

A highly readable guide for those who aid others in grief, or anyone who has been touched by the grieving process, the book emphasizes that understanding the process of grief -- and the ways grief is affected -- can enhance the growth-producing outcome of any life change.

Dr. Schneider expands the definition of significant loss beyond death and divorce to include the changes and stress brought about by success, growth and development. His model of grief includes physical, emotional, cognitive, behavioral and spiritual dimensions.

The book is clinically proven in such diverse settings as individuals and families of terminally ill, workshops on creativity and personal development, hospice care, communities facing school closings, and individual counseling for chronic illness, divorce and success depressions.

A 1983-84 recipient of a Fulbright grant, Dr. Schneider is conducting cross-cultural research on stress and cancer at the Institute for Clinical Psychology at Copenhagen University in Denmark. He consults with the Danish Center Society, and the National Institutes of Health and the National Heart, Lung and Blood programs on high risk.

At MSU his research included cross-cultural studies on "affective sensitivity," particularly the differences between the grief process and depression.
KIRK HERRICK NAMED ASSOCIATE DEAN
FOR ACADEMIC AFFAIRS

Kirk H. Herrick, D.O., has been named associate dean for academic affairs at the MSU College of Osteopathic Medicine. His appointment was approved by the MSU Board of Trustees at its meeting Friday (February 3).

Dr. Herrick comes from the West Virginia School of Osteopathic Medicine, where he had served as dean for academic affairs and associate professor of general practice since 1980.

He is a fellow and former president and member of the board of trustees of the American College of General Practitioners in Osteopathic Medicine and Surgery, and a past president and board member of the Michigan Association of Osteopathic Physicians and Surgeons.

From 1960-81, he served on the staff of Saginaw Osteopathic Hospital, where he headed a number of departments, committees and was chief of staff.

Dr. Herrick was appointed by the governor of Michigan to the Medical Care Advisory Committee to the Department of Social Services, the Medicaid Liaison Committee, the Board of Osteopathic Medicine and Surgery, and the Public Health Advisory Council.

A member of the corporate board of the Michigan Osteopathic Foundation since 1970, he had volunteered his time as clinical associate professor of family medicine at the MSU College of Osteopathic Medicine for eleven years.

The author of several publications in professional journals, Dr. Herrick received the D.O. in 1959 from the Philadelphia College of Osteopathic Medicine, did his internship at Saginaw Osteopathic Hospital, and was certified by the American Osteopathic Board of General Practice in 1975.

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Barbara J. Briner, D.O., has been appointed assistant professor in the Department of Biomechanics.

A recent member of the Board of Governors of the American Academy of Osteopathy and the Board of Trustees of the Cranial Academy of Osteopathy, Dr. Briner is a 1974 graduate of the Chicago College of Osteopathy. She did her premedical work at Albion College and the University of Washington, Seattle.

She served as assistant clinical professor in the Department of Biomechanics from 1979-82, and as instructor in that unit in 1976.

The director of the Department of Osteopathic Manipulative Services at Lansing General Hospital, she also was in general practice (nearly half of which was manipulative medicine) in both Lansing and Muskegon.

Dr. Briner has lectured widely and taught a number of seminars on manipulative medicine.
THURSDAY, MARCH 15, 1984

* Lansing Area Pathologists Case Studies. 5:30 p.m. in A131 E. Fee. One hour CME credit. Contact Sandy Kilbourn, 517/353-9714.


FRIDAY, APRIL 13, 1984


SATURDAY, APRIL 14, 1984

* MSU College of Osteopathic Medicine Open House: features exhibits, tours, demonstrations, and opportunities to talk with medical students and faculty. For information, call 517/353-0820.

SATURDAY, MAY 5, 1984

* "Advanced Muscle Energy Tutorial (Below Diaphragm)" sponsored by the MSU College of Osteopathic Medicine and College of Human Medicine. Through May 9. 40 hours Category I credit for D.O.s and M.D.s. Contact Sandy Kilbourn, 517/353-9714.

THURSDAY, MAY 17, 1984

* Lansing Area Pathologists Case Studies. 5:30 p.m. in A131 E. Fee. One hour CME credit. Contact Sandy Kilbourn, 517/353-9714.


MONDAY, JUNE 11, 1984


FRIDAY, JUNE 15, 1984

FRIDAY, FEBRUARY 10, 1984


SATURDAY, FEBRUARY 11, 1984


Student Associate Auxiliary: fourth annual valentine party for the children of MSU-COM students. Highlands Cooperative Clubhouse, 6294 Haag Rd., Lansing.

MONDAY, FEBRUARY 13, 1984

Biochemistry and Physiology seminar: "Studies of the Mechanism of Anaphase Chromosome Movement" by W. Zacheus Cande, Department of Botany, University of California at Berkeley. 4 p.m. in 101 Biochemistry.

TUESDAY, FEBRUARY 14, 1984

"Unstable Angina Pectoris" by Bertram Pitt, M.D., professor of internal medicine, and director of Cardiology Division, University of Michigan Medical Center. 12 p.m. in Oakland General Hospital Auditorium, 27351 Dequindre, Madison Heights. CME credit available. For information, contact Office of Medical Education, 313/967-7795.

WEDNESDAY, FEBRUARY 15, 1984

"Recent Results in Breast Cancer Research" by Clifford W. Welsch, Ph.D., professor of anatomy, MSU, at 8 a.m., and "Classifications and Immunologic Markers in Lymphomas and Leukemias" by Burt Schnitzer, M.D., professor of pathology, University of Michigan, at 9 a.m. Both in B205 Life Sciences. Sponsored by Departments of Medicine, Pathology, and Center for Environmental Toxicology.

THURSDAY, FEBRUARY 16, 1984

Microbiology and Public Health: "Characterization of Antigenic Proteins and DNA of Two Mammalian Herpesviruses" by Roger Maes, Department of Microbiology, MSU. 4 p.m. in 146 Giltner.


SUNDAY, FEBRUARY 19, 1984


"Ultrasound, Doppler, Real Time" sponsored by Michigan Osteopathic Medical Assistants Association and Michigan Center for Continuing Education in Osteopathic Medicine, 900 Auburn Rd., Pontiac. Contact Duane M. Tester, 313/335-7742.

MONDAY, FEBRUARY 20, 1984

Biochemistry seminar: "Automated Analysis of Urinary Organic Acids and Steroids by Gas Chromotography/Mass Spectroscopy" by Charles C. Sweeley, chairperson, Department of Biochemistry, MSU. 12 p.m. in 101 Biochemistry.

Physiology seminar: "Functional Significance of Multiple Forms of Renin" by Richard L. Malvin, Ph.D., professor of physiology, University of Michigan Medical School. 4 p.m. in 101 Giltner.

WEDNESDAY, FEBRUARY 22, 1984

"New Concepts of Contraception" by S. Karim Adel, M.D., Department of Obstetrics and Gynecology, Wayne State University, Detroit, at 8 a.m., and "Oncogenes" by Don Miller, M.D., Hematology, University of Michigan, at 9 a.m. Both in B205 Life Sciences. Sponsored by Departments of Medicine, Pathology, and Center for Environmental Toxicology.

"The Practical Use of the Laboratory in the Diagnosis and Management of Rheumatic Diseases" by Paul Wenig, D.O., assistant professor of medicine, Division of Rheumatology and Clinical Immunology, Wayne State University. 12 p.m. in Oakland General Hospital Auditorium, 27351 Dequindre, Madison Heights. CME credit available. For information, contact Office of Medicine Education, 313/967-7795.

THURSDAY, FEBRUARY 23, 1984

Microbiology and Public Health: "Interactions of SV40 T-antigens with Cellular Protein" by Kathleen Rundel, Department of Microbiology and Immunology, Northwestern University Medical School. 4 p.m. in 146 Giltner.

FRIDAY, FEBRUARY 24, 1984


MONDAY, FEBRUARY 27, 1984

Biochemistry seminar: Paul T. Magee, chairperson, Department of Microbiology and Public Health, MSU. 12 p.m. in 101 Biochemistry.

Physiology seminar: "Actions of Adenosine on the Central Nervous System" by John Phillis, Ph.D., professor and chairman of physiology, Wayne State University School of Medicine. 4 p.m. in 101 Giltner.

WEDNESDAY, FEBRUARY 29, 1984

"The MSU Fluorescence-Activated Cell Sorter/Computer System: Clinical Research Applications of Lymphocyte Typing" by Michael Zaroukian, M.D., immunology and microbiology, MSU, at 8 a.m., and "Lipid Peroxidation" by Steven Aust, Ph.D., professor of biochemistry, MSU, at 9 a.m. Both in B205 Life Sciences. Sponsored by Departments of Medicine, Pathology, and Center for Environmental Toxicology.

THURSDAY, MARCH 1, 1984

Microbiology and Public Health: "Virulence in Yersinia" by Hans Wolf-Watz, National Defense Research Institute, Forsvarets Forskningsanstalt, Umea, Sweden. 4 p.m. in 146 Giltner.


MONDAY, MARCH 5, 1984

Biochemistry seminar: "Characterization of Hydrophobic Membrane Proteins: Analysis of Quinone Binding Sites in Chloroplasts" by Charles Arntzen, Plant Research Laboratory, MSU. 12 p.m. in 101 Biochemistry.

Physiology seminar: "Diabetogenic Action of Growth Hormone" by Jack L. Kostyo, Ph.D., professor and chairman, Department of Physiology, University of Michigan Medical School. 4 p.m. in 101 Giltner.
NEW CHAIRPERSON NAMED FOR PSYCHIATRY DEPARTMENT

Donald H. Williams, M.D., a psychiatrist on the medical faculty at Yale University, has been named professor and chairperson of Michigan State University's Department of Psychiatry, a unit of MSU's College of Osteopathic Medicine and College of Human Medicine.

The appointment was approved Friday, February 3, by the MSU Board of Trustees and takes effect immediately.

At Yale, Dr. Williams is associate professor of psychiatry and assistant director of the out-patient division of the Connecticut Mental Health Center in New Haven.

His professional and academic presentations and publications have focused on care of chronically mentally ill patients, and delivery of quality mental health services to poor and minority populations.

A member of numerous professional and government organizations, Dr. Williams has served on the Task Panel on De-institutionalization, Rehabilitation and Long Term Care of the President's Commission on Mental Health, and several state and local task forces on care of the long-term mentally ill. He also served on review committees of the National Institutes of Health and as a consultant for the National Institute of Mental Health.

Born in Chicago in 1936, he attended Chicago public schools and received his high school diploma from the University of Chicago Laboratory Schools. He obtained his B.S. and medical degrees from the University of Illinois, and completed residency training in psychiatry at the University of Illinois Hospital.

A recipient of the Illinois Psychiatric Society Research Award in 1968, Dr. Williams held a U.S. Public Health Service fellowship in physiology as a medical student, and later was an NIHM Interdisciplinary Fellow in Psychiatry and a National Health Services Research Fellow.

He is former vice-chairman of the American Psychiatry Association Committee of Black Psychiatrists and a former treasurer of the Black Psychiatrists of America.

* * * *

PEOPLE PEOPLE PEOPLE

Sandy Kilbourn, M.A., coordinator for continuing medical education, was recently selected for the 1983 Outstanding Young Women of America Award.

Malcolm E. Williamson, D.O., clinical associate professor of medicine, discussed "Thyroid Biopsy -- My Experience" at the American College of Osteopathic Internists in Phoenix in November. He also was appointed as program chairman for the subsection on nuclear medicine for the program in Orlando, Florida, in November 1984. Dr. Williamson has been reappointed chairman of medicine at Riverside Osteopathic Hospital and as a trainer in the internal medicine residency program at ROH.

IN MEMORY . . . .

Notice has been received of the death of Thomas M. Rowland Jr., president of the Philadelphia College of Osteopathic Medicine, on January 11, 1984.
HEARTS OF TYPE A's
MAY RESPOND DIFFERENTLY
TO SOCIAL STRESS

Interpersonal stress affects the hearts of Type A (hard-driving, super aggressive, competitive) people with greater intensity than it inflicts on hearts of more relaxed Type B's, according to research by behavioral scientists at Michigan State University.

Computer analysis of electrocardiograms taken of MSU students while they played stress-laden computer games showed changes suggesting that there may be more vigorous stimulation by sympathetic nerves of left ventricles in hearts of Type A's than in Type B's, reports Dr. Lawrence Van Egeren.

The left ventricle is generally recognized as the location where nearly all heart attacks originate. Studies show that Type A's have from two to five times the incidence of ischemic heart disease or heart attacks as compared to Type B's.

Research on cardiovascular effects of social competition and information processing has been carried out in a computer-controlled environment over the past five years by Dr. Van Egeren and colleagues in MSU's Department of Psychiatry. The work has been funded by the National Heart, Lung and Blood Institute.

Approximately 3,000 MSU students were screened for Type A coronary-prone behavior pattern. Of this group, 400 were selected -- a mix of Type A, Type B, "controls" and some "unselected subjects" -- for computer-automated stress experiments.

In the experiments two Type A's or two Type B's interact via computers, cooperatively or competitively, for points later convertible to money.

In two experiments, paired subjects were able to cooperate, compete, punish, reward, or withdraw on each play of the game. Between plays, they could send messages via a television screen expressing feelings, making requests, and offering behavioral deals.

The laboratory computer monitored the social exchanges, paced the interaction, delivered feedback on the television screen, and automatically sampled and scored both players' cardiovascular responses.

In another experiment, the target subject appeared to interact with another bona fide subject (a confederate of the researchers), while in fact interacting with the computer programmed to play the game according to a predetermined strategy. By controlling one half of the interaction, the researchers were able to vary social parameters and observe their effects on the cardiovascular systems of Type A and Type B individuals.

Their research showed Type A's to be more competitive than Type B's in the laboratory, and suggests that "Type A's do exhibit larger sympathetically controlled cardiovascular responses to social competition."

Type A's were generally more aggressive, competitive and dominating in two-person interactions than Type B's, Dr. Van Egeren said. They also broke more agreements and behaved more deceptively.

"In some but not all experiments, Type A's exhibited greater sympathetic-dominated responses in heart rate, digital vasoconstriction, cardiac arrhythmias, and ventricular electrocardiographic parameters during social interactions."

Dr. Van Egeren says early observations based on this research suggest that people at the extremes of Type A behavior may differ in neurally or chemically mediated connections between the social environment and the heart.

"From such observations, we would like to make inferences about the pathophysiology of heart diseases," he says.

(more)
For example, due to unusual susceptibility to competitive social conditions, Type A's may experience chronically elevated cardiac sympathetic tone which produces stronger ventricular contractions and greater demands for myocardial oxygen (the supply of which may be compromised by atherosclerotic coronary obstruction).

"There also may be greater likelihood of cardiac arrhythmias, which leads someday to irreversible ventricular damage associated with lethal arrhythmic events," say Dr. Van Egeren.

He says, "These preliminary findings on healthy young Type A and Type B subjects are interesting and deserve further study. It is too early to draw firm conclusions concerning what computer-controlled stress experiments such as these may eventually tell us about how stress may contribute to heart disease in human beings."

NEW LINKS FOUND BETWEEN BIRTH DEFECTS AND DAMAGED PLACENTAS

Major developmental defects, including cerebral palsy, vision disorders and problems in perceptual skills, have been linked to a specific lesion in the placenta, reports a pathologist at Michigan State University.

Evidence implicating a condition termed "hemorrhagic endovasculitis-HEV" with the developmental defects have been uncovered by Charles H. Sander, M.D., MSU professor of pathology and director of the Michigan Placental Tissue Registry.

The new research, a clinical and epidemiologic followup still in pilot stages, arose from Dr. Sander's examination of nearly 6,000 problem placentas which revealed HEV in one of ten cases.

First described by Sander in 1980, HEV involves destruction of placental blood vessels and fetal red blood cells with fetal hemorrhage into the placenta. A significant association between this lesion and stillborn or growth-retarded infants has previously been established. A number of mothers have had HEV-affected placentas complicating several or successive pregnancies.

Under investigation in the followup are the registry's first 15 liveborn infants identified with placentas affected by HEV. The youngsters are now four and five years old, and one-third (five) of them have major or minor developmental problems.

In addition to the developmental disabilities in these children studied, virus-like particles have been found in 20 percent of the placentas examined using the electron microscope. Further research, employing immunopathologic techniques, is required to confirm the presence and identity of specific viruses or a specific virus.

This research has been carried out in cooperation with consultants from the Michigan Department of Public Health, the Centers for Disease Control in Atlanta, and the Mott Children's Health Center in Flint. Funding came from the Michigan State Planning Council for Developmental Disabilities through the Michigan Department of Mental Health, the United Cerebral Palsy Association of Michigan, and the Michigan Department of Public Health.

Placentas studied at the Michigan Placental Tissue Registry are referred by some 450 physicians who deliver babies in Michigan hospitals, including Bay Osteopathic (Bay City), Carson City Osteopathic, Clare Osteopathic, Grand Rapids Osteopathic, Lakeview (Battle Creek), Lansing General and Mt. Clemens General. After examination of placental tissue, reports of pathologic findings are sent to the referring physicians detailing the alterations found, interpretation of their clinical significance to the patient and whenever possible, implications of these findings for future pregnancies.
Continuing Medical Education

SEMINAR IN THE SUN 1984:
MAUI, HAWAII, MARCH 15-24

Medical education in paradise is offered to escape this winter's chill -- a seminar in the sun in Maui, Hawaii, March 15-24.

Supplementing the CME program will be an aloha reception, sunset cocktail cruise, garden party, fishing, sailing, scuba, and snorkeling at the Kaanapali Alii Condominium Complex. Sponsored by the MSU-COM Alumni Association, the program is open to all interested persons.

Included in 20 hours of CME are common hematological errors, stabilization of the critically ill child, bronchodilators in the treatment of obstructive lung disease, sarcoidosis, routine CBC, occupational asthma, pediatric cardiopulmonary resuscitation, myeloproliferative syndromes, and inotropes and afterload reducers and the use of the Swan-Ganz catheter in acute low-output states.

Other topics are normal lymphoid physiology, sunlight and protection of the skin, lymphoproliferative syndromes, shock lung, pediatric head trauma and intracranial pressure homeostasis, normal coagulation, coagulopathies, and hypochromic anemias.

Speakers include:

Jack Belen, D.O., practitioner in medical diseases of the chest and critical care medicine in Rochester, and assistant clinical professor of internal medicine, MSU-COM

Jeffrey M. Bruner, D.O., practicing allergist/immunologist from Mt. Clemens, and assistant clinical professor of internal medicine, MSU-COM

Stephen R. Guertin, M.D., director of pediatric intensive care, Edward W. Sparrow Hospital, and assistant clinical professor of pediatrics, MSU-COM

William F. Heckert, D.O., practicing dermatologist in Lansing and assistant clinical professor of internal medicine, MSU-COM

Harold Margolis, D.O., hematologist/oncologist from Madison Heights, and associate clinical professor of internal medicine, MSU-COM.

Optional seminars will include all aspects of investment, and portfolio development and management, with Jonathan S. Dean, investment broker, A.G. Edwards & Sons; pension and profit-sharing plans, employer benefit plans and pension actuaries with Richard F. Mazur, chairman of the board, and John L. Shanahan, president, Mid-America Associates; and medical/legal issues with G.M. Flick, D.O., J.D., vice president of the Hawaiian Association of Osteopathic Physicians and Surgeons and a member of law offices of Jinks and Flick, Honolulu.

The program is partially supported by Balcor, Inc., who will hold a "Breakfast with Balcor" on real estate syndication, and by Merck, Sharp & Dohme.
MYOFASCIAL RELEASE TECHNIQUE
TUTORIAL AT KELLOGG CENTER

Intensive exposure to basic concepts of myofascial release manipulative therapy will be offered in a three-day tutorial at MSU's Kellogg Center April 13-15.

Emphasis will be placed on direct experience, giving participants opportunity to test various forms of motion and motion changes and to palpate various tissues and forms. The course is approved for 24 hours of Category I credit for both D.O.s and M.D.s.

Faculty include

Barbara Briner, D.O., assistant professor, Department of Biomechanics, MSU-COM
John Peckham, D.O., associate professor, Physical Medicine and Rehabilitation, Texas College of Osteopathic Medicine; and
Robert C. Ward, D.O., professor of biomechanics and family medicine.

** **

ADVANCED MUSCLE ENERGY TUTORIAL
MAY 5-9: KELLOGG CENTER

Examination, analysis and treatment of the lower extremities, pelvis, abdomen, and lumbar spine will be featured in this tutorial on the advanced muscle energy techniques used below the diaphragm.

The course, approved for 40 hours Category I credit for D.O.s and M.D.s, is scheduled for May 5-9 at MSU's Kellogg Center.

Faculty include

Paul Kimberly, D.O., clinical professor of biomechanics, MSU-COM, and former Stuenenberg Professor and chairman of the Department of Osteopathic Theory and Methods, Kirksville College of Osteopathic Medicine
Fred Mitchell, D.O., professor, Department of Family Medicine, MSU-COM
Carl W. Steele, M.S., P.T., director of physical therapy and occupational therapy, Metropolitan Hospital, Detroit.

** **

Don't Miss It!
MSU-COM
OPEN HOUSE
April 14
THE "COMMUNIQUE" CONNECTION

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