Welcome!

MSU-COM is gearing up for the coming academic year as administrators and faculty prepare to greet the college’s twenty-first entering class, the class of 1993.

Over the summer, campus has been dominated by warm weather and the slow pace of summer term, broken only by events such as the Clarion science fiction writers’ seminar and high school marching band camp.

But things are beginning to pick up. Soon libraries and classrooms will be filled to capacity with new and returning students, and the lazy, hazy days of summer will give way to the crisp, clear and busy days of autumn.

The first order of business on new students’ calendars will be orientation, which is the week leading up to the beginning of classes. Beginning Thursday, September 14, orientation will present new students with opportunities to get to know MSU-COM administrators and faculty, as well as their classmates.

Registration for classes takes place September 18-20 in the Intramural Sports West building. Although a new experience for first year students, returning students will no doubt be looking forward to visiting "the pit" as they prepare their class schedules.

All this will be only preparation for the first day of classes, September 21.

After the first hectic days of the fall term, many will enjoy a chance to let off steam at the MSU vs. Miami of Florida football game, Saturday, September 30. New Spartans can root for the home team right alongside weathered veterans of past football seasons.

Later in the term, after things have settled down, the class of 1993 will be formally welcomed at convocation ceremonies held at MSU’s Kellogg Center on October 27.

At convocation, the Walter F. Patenge Medals of Public Service will be awarded. The awards are given annually by the Michigan Osteopathic Medicine Advisory Board to recognize persons involved in health care, education and public service.

The 1989-1990 academic year promises to be a rewarding and busy time for all involved.

Welcome!

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Student organizations make school life more livable

MSU-COM is fortunate to have a number of organizations dedicated to many aspects of medical school life and professional issues.

In the hectic and demanding world of medical school, students may often feel they are alone in trying to adjust to a new way of life. Of course they're not. Student organizations are there to bring together students with common goals and needs as they prepare to enter the osteopathic profession.

MSU-COM is fortunate to have a number of organizations dedicated to many aspects of medical school life and professional issues. These organizations, administered and supported by students, offer many important opportunities to the interested student.

SOMA

The Student Osteopathic Medical Association is a national society of medical students which provides services to students and the community, increases public awareness of osteopathic medicine, and represents student interests. SOMA is recognized by both the American Osteopathic Association and the American Medical Association as representing osteopathic medical students. SOMA's objective is to get students involved with the osteopathic profession. In order to do that the group sponsors events during orientation, a medical sale offering discount prices on equipment students need for their classes, and periodic meetings to keep students in touch with what is going on in the profession. SOMA also works with the Office of Admissions on the Big Brother/Big Sister program which pairs first year students with second year students willing to help teach the ropes of medical school. SOMA also fundraises to defray expenses for members attending the annual national convention, as well as for Special Olympics.

UAAO

The Undergraduate American Academy of Osteopathy is the undergraduate arm of the American Academy of Osteopathy, an organization affiliated with the AOA which is especially involved in manipulative, nutritional, and other holistic aspects of osteopathic medicine. Among its other functions, the UAAO sponsors seminars on OMT and noontime lectures from faculty members.

ABOMS

The Association of Black Osteopathic Medical Students is dedicated to exploring contemporary health issues and the role of black physicians as leaders and community members. ABOMS also is involved with community service to the medically indigent, and to assisting black medical students with their special needs and concerns. They also have periodically sponsored blood drives.

SAA

The Student Associate Auxiliary is an organization for the spouses and significant others of students at MSU-COM. The SAA is also affiliated with the Auxiliary of the AOA.

please see Student on page 9
Neonatal unit helps the most helpless

Some newborns face more difficult problems than others. Whether born too small or just sick, these babies need the special care of neonatal units to have a chance at a normal life.

The neonatal unit at Sparrow Hospital has been administered by the departments of pediatrics of both the College of Osteopathic Medicine and the College of Human Medicine since January. Bernard Kay, chairperson of COM's Department of Pediatrics, said the unit is "a team effort between the two medical schools, the community, and Sparrow Hospital." Kay said this represents a real advancement in cooperation among the medical schools and community healthcare providers.

On July 17 Dr. Richard Marshall was appointed as director of the unit. His and all appointments in the unit are jointly administered by the medical schools.

Marshall has been a professor of pediatrics at Washington University andCase Western Reserve University, as well as director of neonatal services at Cleveland Metropolitan General Hospital. He has published numerous articles and contributed to many books on neonatal care.

Marshall sees the association with the colleges as providing opportunities for future educational and residency programs.

"The advantage is that we have all the resources of the university, which enhances what we do here," he said.

What they do at the neonatal unit is help the most helpless. Newborns who experience difficulties in birth, are born prematurely or have a very low birth weight receive specialized care at the unit to help them through the crucial early stages of their lives.

Dave Sciamanna, COM 75, a physician at the unit, said that many of the babies who come to the unit are born within a month of term and stay less than two weeks in the unit. The average stay of infants in the unit is 16 to 17 days, Sciamanna said. Smaller babies tend to stay longer, the longest stay being almost two years.

Sometimes an otherwise normal delivery can run into problems, such as infection or aspiration of amniotic fluid or other material. "They come to our unit and they stay maybe 8 or 10 days," Sciamanna said, noting that such babies tend to do very well.

But about 20 percent of newborns admitted to the unit are what are termed "very low birth weight" babies, babies under 3 1/2 pounds.

Sciamanna said that low birth weight babies tended to stay in the unit longer, to need more special equipment like ventilators, and were more likely to have lingering problems after leaving the unit. "Most of the literature focuses on that very low birth weight category," Sciamanna said.

The problem is time. Because of problems that can develop during pregnancy, some babies don't have time.

"You would like to have a baby delivered at least 30 to 35 weeks into the pregnancy, if 40 weeks is considered full term," Sciamanna said. "But they have to make decisions at 26 or 28 weeks."

Technology has improved the odds for babies born before term. In the seventies, 50 percent of the babies born at 29 weeks would survive. Now that number is 85 percent, and babies born at 26 weeks have a 50 percent survival rate.

please see Neonatal on page 5
Working on the foundations of medical education

One of the foundations of a medical education is anatomy. So one of the most important places in a medical school is the anatomy lab.

Kristin Liles, who replaced retiring Milvet "Red" Strickler as director of anatomical resources on June 1, understands that importance.

"You certainly can't have a medical school without teaching anatomy, and you can't teach anatomy without bodies," she said.

Liles is responsible for making sure the laboratory is run effectively and efficiently, and for overseeing the administrative aspects of running the anatomy lab for both MSU-COM and the College of Human Medicine, as well as maintaining the anatomy lab for the College of Veterinary Medicine.

A major part of her job is managing MSU's Willed Body Program. Bodies for human anatomy courses are donated by persons for the anatomical education of future doctors and health professionals.

The program is not an organ donar program. MSU can only accept the entire body for teaching purposes, although corneas may be donated to an eye bank.

Those that donate their bodies are helping to prolong the lives of others just as organ donors do, by enabling health professionals to get the training they need.

Because anatomy is so basic to a medical education, the program is basic to the medical schools.

"It would be very difficult to learn anatomy from a book," Liles said, "[because students] wouldn't have hands-on experience."

She also noted, "If we didn't have this program, and if we didn't have people that contribute to this program, we wouldn't have an anatomy lab."

Each fall, the University conducts an interment service at East Lawn Memory Garden in Okemos, for those individuals whose remains are to be buried at that time. Family members who wish to attend are notified of the service in advance. Others may wish to not be notified. Liles said that making sure all instructions are followed properly is a very important part of her job.

"Because it's so important to people you just can't make mistakes," she said. "There's just no room for error."

Liles said that donors to the program are from all walks of life, but all are exceptional.

"People that make these kinds of donations are very special people. They do so with genuine sincerity in hopes of helping others," Liles said.

Addressing the concerns of donor relatives at the time of death and helping them understand the importance of the gift is also part of Liles' responsibilities.

"It's a very difficult time for them," Liles said. "I'm usually the first one that they talk to, and they have all kinds of questions. I feel when I talk to these people, I've made a difference, and that's important to me."

"I really like what I do," Liles said. "I feel it's very important and that I make a contribution."

Persons interested in participating in the Willed Body Program should contact the Department of Anatomy, Anatomical Resources, East Fee Hall, Michigan State University, East Lansing, Michigan, 48824-1316.
Surgical anatomy course reviews basics

An unusual course held on campus through the Office of Continuing Medical Education in July offered surgical residents a chance to review the structures of the human body.

Walter Mill, professor of osteopathic medicine and conference chairperson, said the course was almost unique.

"This is not something that happens every year," Mill said.

The program was offered to general surgical residents in the American College of Osteopathic Surgeons.

"That means it's available to everybody [who is qualified] in the U.S.--not just Michigan," Mill said.

Mill said the most recent similar programs, held in the southwest, took place several years ago.

The conference covered the anatomy of areas appropriate to the practice of general surgeons.

The five-day conference covered a different regional anatomy each day. Lecture and hands-on examination and dissection allowed students to identify and learn how to preserve structures during surgical procedures.

Sessions were presented with the anatomy faculty discussing basic structures and the radiology faculty covering radiological anatomy.

Mill credited the departments of anatomy and radiology for a large part of the success of the program.

"It wouldn't have run without the anatomy department," Mill said, noting that the daily dissection sessions were held in the anatomy lab under the supervision of Rex Carrow, Lawrence Ross and Joseph Vorro of the department.

"They were there every day," Mill said.

John R. Socey presented anatomy of the neck. Gregory P. Derderian presented anatomy of the thoracic wall, axilla and breast.

Walter Mill presented anatomy of the abdomen: the small and large intestine, esophagus, stomach and duodenum; as well as the pelvis and reproductive and urinary systems.

John H. Finley presented the abdominal wall, liver, gallbladder, pancreas and spleen.

Lectures on radiological anatomy for the various regions covered were given by Paul Zdybel, Ed Hancock, George Gentry and Eugene Tryciecky. Joseph Pernicone of the radiology department acted as coordinator.

Basic anatomy lectures were given by Carrow, Ross and Vorro.

Mill said the conference would be evaluated to determine if it was successful enough to continue regularly.

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Neonatal
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babies born that far before term. In the seventies, 50 percent of the babies born at 29 weeks would survive. Now that number is 85 percent, and babies born at 26 weeks have a 50 percent survival rate.

"Now we have a survival rate that's three weeks younger than it was 15 years before," Sciamanna said.

"That's pretty significant because three weeks is a long time when you're talking about a baby developing."

The unit department manager, Denise Fildey, noted that the care is a team effort including physicians, nurses, a social worker, physical therapists and others.

"What we do here depends on many people all being part of the care," she said.

Fildey added that the staff spends a lot of time with the families of newborns, teaching them how to take care of their child's special needs after the baby leaves the unit and offering emotional support.

"It's scary to have a first baby," Fildey said. "And even more stressful when the baby is sick."

Sciamanna participates in a child development clinic which monitors the progress of babies who went through the neonatal unit.

He noted that most of the children who showed adverse effects from their experience had only mild problems.

"Usually by two years we see most of them catch up," he said.

The clinic attempts to alert parents to possible problems that a child might experience in school, such as learning disabilities. One problem that is on the increase is babies born to mothers addicted to cocaine.

The unit has a capacity of 35 and cares for 500 to 600 babies a year. Sparrow Hospital delivers around 4500 babies annually, approximately 10 percent of which spend time at the unit. Other babies are transported to Sparrow after being born elsewhere from the regional area.

Sciamanna noted that the ten percent was not because the ratio of sick babies was that high, but rather because problem pregnancies were referred to the hospital for the higher level of care.

After all, he noted, "That's what we're supposed to do."
Helping hands for newborns
Sparrow Hospital's Neonatal unit, jointly administered by the Colleges of Osteopathic and Human Medicine.
Faculty News

Myron C. Beal and William L. Johnston (Family Medicine), and Joseph Vorro (Anatomy), published an article entitled "Chronic Cervical Dysfunction: Correlation of Myoelectric Findings with Clinical Progress" in the July issue of the Journal of the American Osteopathic Association.

John R. Downs (Osteopathic Medicine) has been awarded the Certificate of Competence in Sports Medicine by the American Osteopathic Academy of Sports Medicine (AOASM). Downs is one of only 94 physicians awarded the certificate, which is recognized by the AOA and is the highest distinction a sports medicine physician can receive.

Several MSU-COM faculty members will be presenters at the Nineteenth Annual Cardiovascular Research Forum to be held September 14 at Wayne State University. Vice Provost For Human Health Programs Harvey Sparks, Lana Kaiser (Physiology) and Jeffrey Williams (Microbiology and Public Health) will present a paper entitled "Canine Heartworms (Dirofilaria immitis) In Vitro Depress Endothelium Dependent Relaxation in the Rat Aorta." A poster presentation entitled "Comparison of Adenosine Release and 31-P NMR Spectra Between Hypoperfusion and Hypoxia in Guinea Pig Hearts" will be made by Sparks with Mark W. Gorman, Gregory D. Romig and Mia-Xiang He of the physiology department. Also participating will be Gregory D. Fink (Pharmacology and Toxicology), who will chair an awards ceremony.

William A. Dunker, clinical professor of internal medicine, has been named director of the Tri-County Emergency Medical Authority, which serves a population of 500,000 in Clinton, Eaton and Ingham counties.

Marianne Soden, COM '90, was awarded the July Healthy U Award for her work promoting health at MSU and globally. Soden is a graduate assistant with Healthy U's Professional Development through Personal Health Awareness and director of MSU's student run International Health Project.

Omitted from the list in the July issue of Communiqué of graduates receiving awards was Hazel E. Jackson, who received the Sandoz award for Excellence in Surgery/Anesthesiology. Communiqué regrets the omission.

Alumni News

Howard Rossman, COM '74, has been appointed chairman of the neurology department at Botsford General Hospital. Rossman is also a clinical professor of internal medicine at MSU-COM, and practices at the Michigan Institute for Neurological Disorders in Farmington Hills.

Anne Pawlak-Simpson, COM '79, was named 1989 Intern Trainer of the Year at Garden City Hospital.

Aurora L. Benson, COM '85, announces the birth of her son, Dennis, July 14. Benson and her husband Mark also have a son, Allen, who is nearly four years old. Aurora Benson is in private practice in Palm Desert, near Palm Springs, California. She wrote, "We're enjoying our beautiful desert with its mountains, canyons, and hiking."

Ella Noel and John Lucia, both COM '88, were selected as Outstanding Interns at Botsford Hospital.

National conference planned by Healthy U

A national conference planned by Healthy U for this fall will explore the health promotion agenda for the coming decade.
"Weaving the Net: Strategies for Health Promotion Dissemination" will be held on campus October 15-17. Keynote speaker Lynn Arntz, a senior prevention policy advisor in the U.S. Department of Health and Human
Services, will discuss the forthcoming report on
national health objectives for the year 2000.
Arentz is expected to detail efforts to formulate
objectives for prevention in 21 priority areas,
including substance abuse, fitness, mental
health, nutrition and AIDS.
Arentz' presentation will be part of the
conference goal to facilitate the development of
a network for the identification, implementation
and dissemination of health promotion
information and programs.
Cost of the conference is $150, or $75 for
MSU affiliates and non-MSU students. MSU
students will be charged $15. For more
information, contact Healthy U at B127 W. Fee
Hall, or call (517) 353-2596.

New DME at Oakland General
Bruce Dubin, D.O., has been appointed
director of medical education at Oakland
General Hospital. Dubin is a 1973 graduate of
Kirkville College of Osteopathic Medicine. He
is a developer and medical director for Camp
Sundeer, a free camp for asthmatic children
and is co-developer of a smoking cessation
program used by the American Lung
Association of Southeast Michigan which was
recognized at the Fifth International
Conference on Smoking in Winnipeg, Canada.
He is the author of numerous articles and has
been published in the Journal of the American
Medical Association, the Journal of the
American Osteopathic Association, the Journal
of the Michigan Association of Osteopathic
Physicians and Surgeons, and Lancet. Currently
he is Treasurer of the American Lung
Association of Southeast Michigan and a Major
in the United States Air Force Reserve.

3rd Annual Health Professions
Open prepares for tee-off
The Third Annual Health Professions Open
will be held this year at Forest Akers West golf
course on September 7. The event, hosted by
the Colleges of Osteopathic Medicine, Human
Medicine and Veterinary Medicine, will benefit
the student loan funds of the colleges. The
tournament will be a four-person, best ball
event using a handicap system. The tournament
trophy goes to the college with the lowest scores
from their twenty-five best players. Individual
and team awards will also be given.
Registration starts at 11 a.m., a shotgun start
is planned for 12:30 p.m. For more
information, contact Philip Greenman, 1989
HPO chairperson, Michigan State University
College of Osteopathic Medicine, (517)
353-9714.

Student
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Well known for their sweatshirt sales, the SAA
is an informal support group for the families of
medical students and fulfills an important need.

IHP
The International Health Project was
launched in 1984 by COM students sharing an
interest in clinical training in medically
underserved areas in the U.S. and abroad. IHP
sponsors noontime lectures on topics related to
international health, and is involved with
programs to promote study and participation in
health care projects abroad.

Others
Other organizations include the American
Medical Women's Association (AMWA), Sigma
Sigma Phi, the national osteopathic fraternity,
the Christian Medical Society, the American
College of General Practitioners and class scribe
services and class officers. Campus-wide
organizations such as Student Council, the
Council of Graduate Students (CROGS) and the
Council of Medical Students (COMS) also can
enhance a student's medical school experience.
In addition to larger organizations, many
smaller groups exist to fill specific needs.
Special interest groups devoted to specific
specialties or subjects meet to discuss their
issues. Many classes have their own intramural
teams for sports.
Student organizations offer something for
everyone. It just takes time for new students to
find out about them and decide which
organization fills their needs.
Gifts & Grants

The following is a round-up of gifts and grants received and administered by the College of Osteopathic Medicine in the past six months.

From the National Institutes of Health:

- Gregory Fink (Pharmacology and Toxicology) has been granted $67,291 for continuation of research on neural control of fluid homeostasis in hypertension.

- David I. Kaufman (Internal Medicine) has been granted $59,371 for a cooperative study with the National Eye Institute to research patients with optic neuritis and their response to steroids.

- Vice Provost for Human Health Programs Harvey Sparks has been awarded a grant of $199,258 for continuing research on the dynamic control of coronary blood flow.

- Laryssa N. Kaufman (Physiology) has been awarded a grant of $81,649 for continuing research on endocrine and nutritional factors in obesity.

- Jacob Krier (Physiology) has been awarded a grant of $180,963 for research on extrinsic neural control of colonic motility and defecation.

- Clifford Welsch (Pharmacology and Toxicology) has been awarded $97,234 for continued research on caffeine and experimental mammary gland tumorigenesis.

- Glenn I. Hatton (Psychology) has been granted $118,485 for continuation of the Interdisciplinary Neuroscience Training program.

- James Bennett (Pharmacology and Toxicology) has been awarded $99,331 for continued research of the role HMG-CoA reductase in schistosome egg production.

From the U.S. Department of Health and Human Services

- In the Department of Family Medicine, several grants have been awarded to Barbara Ross-Lee for the continuation of projects. A grant of $129,600 from the Division of Medicine Public Health Service (HRSA), has been awarded to develop a division of research in the Department of Family Medicine. The Bureau of Health Professions (HRSA) awarded $96,700 for family medicine residency training. Two separate continuation grants have been received from the Health Resources and Services Administration: $129,600 for development of an ambulatory care clinical training experience and $142,784 for a medical access support program.

From other sources:

- Robert W. Soutas-Little (Biomechanics) has been awarded an unrestricted grant of $3,000 to support study for dose probe using carprofen by Hoffman-LaRoche.

- Sandra Kilbourn and Patricia Grauer (Office of the Dean) were awarded a grant of $19,998 to develop a course on strategic planning for administrators in osteopathic colleges. The grant was one of five made nationally through the SmithKline Beckman FOCUS Program administered by the American Association of Colleges of Osteopathic Medicine.

- The Department of Psychiatry has been awarded contracts of $356,360 and $28,425 from St. Lawrence Hospital for the provision of physician services in the field of psychiatry, and $5,580 from Pine Rest Christian Hospital to continue residency training.

- John L. Wang (Biochemistry) has been granted $6,950 by the National Science Foundation for a conference on the biochemical and structural dynamics of the cell nucleus.

- Michelle M. Fluck (Microbiology and Public Health) has been awarded $100,000 from the American Cancer Society for persistence and tumorigenesis studies in mice infected with polyoma virus.

- Kenneth Moore (Pharmacology and Toxicology) has been granted $85,000 by the Upjohn Company for continuing research as part of the Upjohn Collaborative Program.

- Jeffrey Williams (Microbiology and Public Health) has been awarded an unrestricted grant of $7,500 from the Upjohn Company for research.

- Robert B. Stephenson (Physiology) has been awarded a new grant of $24,500 by the American Heart Association of Michigan for research to determine whether vasopressin sensitizes the arterial baroreceptor reflex.
Continuing Medical Education

September 9-13
Tutorial on Level I Muscle Energy Technique

Designed to expand previous manual medicine training in the use of muscle contraction as an activating force. Concepts of muscle contraction will be taught and utilized in treatment of the vertebral column and bony pelvis. Prerequisite is Principles of Manual Medicine. Limited enrollment. Faculty include Philip E. Greenman, D.O., F.A.A.O., chair; Mark Bookhout, M.S., P.T.; John Bourdillon, F.R.C.S.; David Grimshaw, D.O.; Faith Abbott, P.T.; and Edward Isaacs, M.D. Cost is $800 or $400 for physicians in training. 40 hours Category I credit.

October 6-8
Tutorial on Level I Myofascial Release Technique

Intensive exposure to basic concepts of myofascial release manipulative therapy, with emphasis placed on direct experiences, allowing participants to test forms of motion changes and palpate tissues and forms. Prerequisite is Principles of Manual Medicine. Limited enrollment. Chairperson is Robert Ward, D.O., F.A.A.O. Co-sponsored by MSU-COM and MSU College of Human Medicine. 24 hours Category I credit. Cost is $400 or $200 for physicians in training.

October 9-13
Tutorial on Level II Manual Medicine Techniques
(Above Diaphragm)

This course presents examination, analysis and treatment of the upper extremities, cervicothoracic spine, thoracic cage, throat and jaw. Postural/structural concepts are expanded into functional and integrative analysis in terms of respiratory, circulatory, neurologic and fascial models. This course has a limited enrollment due to the heavy clinical orientation. Chairperson is Edward G. Stiles, D.O., F.A.A.O. Co-sponsored by the MSU-COM and MSU College of Human Medicine. 40 hours Category I credit. Cost is $800 or $400 for physicians in training.

October 18-22
Tutorial on Level II Craniosacral Techniques

This course reviews cranial anatomy in detail, specific corrective techniques for complex articular restrictions, and teaches soft-tissue corrective techniques for membranous strain patterns. Special problems including TMJ, pediatric problems, entrapment syndromes, functional anatomy and treatment procedures will be discussed. Chairperson is Barbara Briner, D.O. Prerequisites are Principles of Manual Medicine and Tutorial on Level I Craniosacral Technique. Sponsored by MSU-COM. 40 hours AOA Category I credit. Cost is $800 or $400 for physicians in training.

October 21

This is an opportunity to review the typical ocular changes that can be diagnostic and prognostic of common systemic diseases. Chairperson is David I. Kaufman, D.O. Co-sponsored by MSU-COM and MSU College of Human Medicine. 4 hours Category I credit. Cost is $75 or $25 for physicians in training. (Persons wishing to attend the MSU football game must make their own arrangements.)

November 3-7
Tutorial on Joint Play Applied to the Spine and Extremities

A five day course in the application of joint play diagnostic and therapeutic techniques to the vertebral column, upper and lower extremities. Faculty includes Chairperson John Mennell, M.D.; Allen Jacobs, D.O., Ph.D. Prerequisite is Principles in Manual Medicine. Co-sponsored by MSU-COM and MSU College of Human Medicine. 40 hours Category I credit. Cost is continued on back page

For more information or to register for any of the courses, contact the Office of Continuing Medical Education, MSU-COM, A306 E. Fee Hall, East Lansing, MI 48824-1316, or call (517) 353-9714.

Unless otherwise noted, all courses are held at the MSU Kellogg Center for Continuing Education on Harrison Road in East Lansing.
Calendar
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$600 or $300 for physicians in training.

November 4
Program directors are Kenneth Mahoney, D.O.; and Merrilee Okey, D.O. Sponsored by MSU-COM Department of Pediatrics. Separate course brochures will be mailed prior to the conference. Cost is $50 or $25 for physicians in training.

November 10-12
Principles of Manual Medicine Part A
A combined lecture, demonstration and "hands-on" laboratory session course on the principles of structural diagnosis and manual medicine therapeutic procedures. Designed for the practitioner who has no previous experience in the field, experienced practitioners find it a useful review. Successful completion of this course and Principles of Manual Medicine-Part B, to be held at the Tucson Hilton East, Tucson, Arizona January 20-22, 1990, prepare the participant for further courses offered by Michigan State University. Topics include: overview of manual medicine, principles of structural diagnosis, screening examination of the musculoskeletal system, review of functional vertebral anatomy, concepts of motion barriers- normal and restrictive, concepts of the manipulative dysfunction, principles of vertebral motion- normal and abnormal, the manipulative prescription, principles of soft tissue and articulatory manual medicine procedures, principles of muscle energy manual medicine procedures, principles of high velocity mobilization with impulse.
Co-directors are Philip E. Greenman, D.O.; and Donald Stanton, D.O. Co-sponsored by MSU-COM and MSU College of Human Medicine. Endorsed by the American Academy of Physical Medicine and Rehabilitation. Cost is $500 or $250 for physicians in training. 20 hours Category I credit. To be held at Marriott River Center, San Antonio, Texas. Housing is the responsibility of the registrant.

December 11-15
Principles of Manual Medicine
Principles of Manual Medicine is a combination of lectures and hands-on experience in the principles involved in the diagnosis and treatment of musculoskeletal disorders with manual medicine. Principles of Manual Medicine is the prerequisite conference for all other postgraduate manual medicine courses offered by MSU.
Registration is on a "first come, first served" basis. No phone reservations accepted. Faculty includes John Bourdillion, F.R.C.S.; Mark Bookhout, M.S., P.T.; Allen Jacobs, D.O., Ph.D., chair; Edward Isaacs, M.D. Sponsored by MSU-COM, MSU College of Human Medicine and The North American Academy of Manipulative Medicine. 40 hours Category I credit. Cost is $800 or $400 for physicians in training.

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