Scenes from the week-long national seminar on basic principles of manual medicine, held December 10-14 at MSU's Kellogg Center, included (clockwise): Paul Kimberly, D.O., Steuben professor at the Kirksville College of Osteopathic Medicine; Philip Greenman, D.O., associate dean for academic affairs at MSU-COM; a participant from Oregon gaining hands-on experience during a practicum; and a demonstration by John Mennell, M.D., president of the North American Academy of Manipulative Medicine. (See pages 4 and 5)

INSIDE THIS ISSUE

3 MSU-COM well represented at convention of American Osteopathic Association
5 Acceptance of manual medicine widening with basic courses through MSU-COM
6 Internship Information Program Wednesday, January 16
ACGP donates medical texts to College
MSU-COM contributors dominate November issue of Michigan Osteopathic Journal
7 MSU-COM awards first Ph.D. administered by an osteopathic college
8 Matthew Houghton named sports medicine physician of the year
MSU-COM students, alumni receive scholarships, postdoctoral grants
Department of Osteopathic Medicine news
9 Biophysical aids to osteopathic diagnosis focus of CME program January 12-13
10 People
12 Gifts and grants

COMMUNIQUE "Communique," a newsletter publication of the Michigan State University College of Osteopathic Medicine, is issued 15 times a year through the Health and Medicine Section of the Department of Information Services, A314 E. Fee Hall, East Lansing, Michigan, 48824; telephone 517/353-0820. Members of the Editorial Advisory Committee include David Marler, Ph.D.; Francis A. Bernier, Ph.D.; Gordon C. Spink, D.O., Ph.D.; Nancy M. Houston, B.A. (Editor); Patricia Grauer, M.A. (Managing editor). Circulation manager is Cathy Heaphy. Production on this issue was done by Millie Miller; photography by Dick Wesley. Date of publication of the next issue will be Monday, January 21, 1980. Copy deadline for that issue is Thursday, January 10.
MSU-COM WELL REPRESENTED AT ANNUAL
CONVENTION OF AMERICAN OSTEOPATHIC ASSOCIATION

From the memorial lecture to its alumni luncheon, the Michigan State University College of Osteopathic Medicine was well represented at the 1979 convention and scientific seminar of the American Osteopathic Association, held November 4-8 in Dallas.

Edgar L. Harden, Ed.D., past president of MSU, opened the convention with its major address, the Andrew Taylor Still Memorial Lecture. Dr. Harden, who has a long association with the osteopathic profession, serves as a director of the Osteopathic Hospital Development Corporation and as an educational consultant to the Michigan Osteopathic College Foundation.

Speakers and program participants from the College included:

—John E. Upledger, D.O.; associate professor of biomechanics
  Program chairman/American Academy of Osteopathy
—Ernest Retzlaff, Ph.D., M.P.H., professor of biomechanics
  "Stress: A Trigger for Pain Response"/American Academy of Osteopathy
—Bernard M. Kay, D.O., chairman of the Department of Pediatrics
  "The Effect of Stress on Growth and Development"/American Academy of Osteopathy
—Gary Campbell, D. O., associate professor of family medicine
  "Stress and Psychosomatic Medicine" American Academy of Osteopathy
—Thomas J. Trese, 1975 alumnus from Detroit
  "Intracerebral Hematoma"/American College of Neuropsychiatrists
—Robert D. Araniosian, D.O., clinical assistant professor, osteopathic medicine; director of emergency services, Pontiac Osteopathic Hospital
  "Telemetry Workshop"/American College of Osteopathic Emergency Physicians
—Jack Belen, D.O., clinical assistant professor, osteopathic medicine; director of pulmonary physiology laboratory, Beaumont Hospital
  "Hypersensitivity Pneumonitis"/American Osteopathic College of Allergy and Immunology
—Michael Q. Doyle, D.O., clinical assistant professor, osteopathic medicine; assistant director of emergency department, Pontiac Osteopathic Hospital
  "Telemetry Workshop"/American College of Osteopathic Emergency Physicians
—Harold Margolis, D. O., clinical associate professor, osteopathic medicine; hematologist, Martin Place Hospital
  "Autoimmune Blood Diseases"/American Osteopathic College of Allergy and Immunology
—Fred Marshall, D.O., clinical professor of osteopathic medicine; chief, Department of Neurology, Botsford General Hospital
  "Computerized Tomography Scanning of the Orbits"/American College of Neuropsychiatrists
—Michael Nigro, D.O., clinical professor of neurology, osteopathic medicine;
  "Unusual Case Presentations"/American College of Neuropsychiatrists
—Eugene Oliveri, D.O., clinical professor of gastroenterology, osteopathic medicine
  "What Are the Liver Function Tests and What do They Say?" and "The Spectrum of the Effects of Alcohol on the Body"/American College of General Practitioners in Osteopathic Medicine and Surgery
—Paul Parente, D.O., clinical associate professor, family medicine
  "Nutritional Demands Imposed by Stress"/American Academy of Osteopathy

(more)
Those elected to office during the convention include:

John P. Goodridge, D.O., professor of biomechanics; reelected treasurer,
American Academy of Osteopathy
Lon Hoover, D.O., associate professor of family medicine; secretary,
American Academy of Osteopathy.

More than 30 persons at the convention attended the MSU-COM Alumni Luncheon, which was coordinated by 1975 alumnus Dean Payton. Dean Myron S. Magen spoke at the event.

Other persons from the MSU College of Osteopathic Medicine attending the convention included Lynn F. Brumm, chairman of the Department of Family Medicine, who also met with the Division of Departments of Family Medicine Chairmen while in Dallas; James J. Davis, D.O., professor of family medicine; Roy Harvey, D.O., professor of family medicine; and L. A. Marohn, D.O., associate professor of family medicine.

Also attending were William L. Johnston, D.O., professor of biomechanics; John Gobel, D.O., assistant professor of osteopathic medicine; and Eric Deal, president of the Student Council.

Thirty-five persons -- including 14 M.D.s and 14 D.O.s -- participated in a recent workshop on "Basic Principles of Manual Medicine" held at MSU's Kellogg Center. The third such seminar to be held at MSU, it attracted participants from around the United States and Canada for didactic and hands-on learning sessions on manipulative therapy.
ACCEPTANCE OF MANUAL MEDICINE WIDENING WITH BASIC COURSES THROUGH MSU-COM

Recognition of the importance of manual medicine is growing with basic courses offered by MSU medical schools in conjunction with the North American Academy of Manipulative Medicine.

Thirty-five persons—including 14 M.D.s, 14 D.O.s, and seven others—attended a weeklong workshop on basic principles in manual medicine, held at MSU's Kellogg Center December 10-14.

The course is representative of MSU-COM's approach to continuing medical education, with emphasis on hands-on training and practice sessions for the physicians.

One of the course participants was R. T. Bergman, M.D., of Escanaba, Michigan, one of only six assigned as attending physicians of the U. S. Olympic team.

Bergman, who had no previous exposure to manual medicine, said that he had taken the course to evaluate its relevance for the Olympians, and was "very impressed" with what he learned.

"There has been an increasing demand for manual medicine from the athletes themselves," Bergman said. "Because of the tremendous pressures, time constraints, and high performance modes, they require intensive medical care if something happens. We want to be able to provide every support available to assist them."

Dr. Bergman said that he had been particularly impressed with the specificity with which manipulative techniques were used in diagnosis and treatment, and the care with which contraindications for manual medicine were emphasized.

He said that he also intended to use manual techniques to prevent injury to the Olympic athletes.

"A small discomfort in the foot of a marathon runner before competition could mean 13 or 14 seconds by the end of the race," Bergman said. "Muscle spasm techniques can be used to alleviate that minor problem before it becomes major."


Plans are now underway for a similar week-long workshop to be held at MSU's Kellogg Center next June.
INTERNSHIP INFORMATION PROGRAM
WEDNESDAY, JANUARY 16

An Internship Information Program will be held at the College of Osteopathic Medicine in E105-107 Fee Hall on Wednesday, January 16 from 10 a.m. to 1 p.m.

Representatives from osteopathic hospitals throughout the country have been invited and will be available to discuss opportunities for internships and residencies offered at their institutions.

The event is being organized through the MSU-COM Office of Student Affairs.

ACGP DONATES MEDICAL TEXTS TO COLLEGE

The American College of General Practitioners in Osteopathic Medicine and Surgery, with the cooperation of the PSG Publishing Company, has donated 60 medical texts to the MSU College of Osteopathic Medicine.

The books were presented to the College at a recent dean's conference hour by Edwin A. Doehring, D.O., a member of the board of governors of ACGP and president of the Osteopathic General Practitioners of Michigan.

The books, valued at more than $1200, will be housed in the Clinical Center library, where they will be available to students in MSU's three colleges of medicine and the school of nursing. The texts cover a wide range of topics in general medicine, neurology, psychiatry, obstetrics, pathology, pediatrics, pharmacology and nuclear medicine.

During his visit, Dr. Doehring also discussed with the medical students, the practice of family medicine, postgraduate education, and problems facing the osteopathic profession.

MSU-COM CONTRIBUTORS DOMINATE NOVEMBER ISSUE OF MICHIGAN OSTEOPATHIC JOURNAL

Faculty from the MSU College of Osteopathic Medicine dominated the list of contributors of the November issue of the Michigan Osteopathic Journal.

Guest editor of the issue was John E. Upledger, D.O., associate professor of biomechanics. Articles and authors included:

—"Holism, Osteopathy and Biomechanics" by Upledger
—"Biomechanics Research" by Robert W. Little, Ph.D., chairman of biomechanics
—"Headache and Cervico-Occipital Trauma" by Robert C. Ward, D.O., professor of family medicine and professor in the Office of Medical Education Research and Development.
—"A Proposed Mechanism for Drugless Pain Control" by Ernest W. Retzlaff, Ph.D., professor of biomechanics; Upledger; and Jon D. Vredevoogd, M.F.A., assistant professor of human environment and design.
—"Osteopathic Management of Cardiovascular Disease" by Gary Campbell, D.O., associate professor of family medicine
—"A Student Perspective on Osteopathic Manipulative Therapy" by students Alice K. Raynesford, A.M. and Sister Anne E. Brooks, B. S. Ed.
COMMUNE

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

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

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

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

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

Date of submission__________________________

Name__________________________ Highest degree__________________________

Position__________________________ Phone__________________________

Address__________________________ Phone__________________________

CALENDAR ITEMS

Date__________________________ Time__________________________

Event__________________________

Sponsor__________________________

Location__________________________

Other information__________________________

NEWS ITEMS OR FEATURE SUGGESTIONS__________________________

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PLEASE RETURN TO the Health and Medicine Section, Information Services, A314 East Fee, Michigan State University, East Lansing, MI 48824. For assistance call 517/353-0820.
MONDAY, JANUARY 7, 1980

4:10 p.m. Biochemistry seminar: "Calmodulin: A Likely Candidate for the Intracellular Calcium Receptor" by Anthony Means, Baylor University. 101 Biochemistry.

WEDNESDAY, JANUARY 9, 1980

6:30 p.m. Urology series: "Disorders of the Prostate Gland." Michigan Center for Continuing Education in Osteopathic Medicine, 900 Auburn Rd., Pontiac. Until 9:30 p.m. For information, contact Duane M. Tester, 313/335-7742.

FRIDAY, JANUARY 11, 1980

1:30 p.m. International Year of the Child: "Childhood in China" by Jay Greiner, P.A., doctoral student in psychology, and Wendy Wintermute, Department of Sociology, University of Michigan. Until 3:30 p.m.

SATURDAY, JANUARY 12, 1980

8 a.m. "Biophysical Aids to Osteopathic Diagnosis," sponsored by MSU Department of Biomechanics Advance Study Group. The program will deal with biophysical equipment, such as thermograph biofeedback, electrophoresis analysis, EKG, computers and CT scanning, emphasizing the use of these aids in an office practice. Speakers include Elmer Green, Ph.D., of the Menninger Foundation. Through January 13. For information, contact Duane M. Tester, 313/335-7742. Michigan Center for Continuing Education in Osteopathic Medicine, 900 Auburn Rd., Pontiac.

MONDAY, JANUARY 14, 1980


The next "Communique" calendar will begin Monday, January 21, 1980. Deadline for inclusion of material is noon Thursday, January 10. Contact Health and Medicine Information, A314 E. Fee Hall 517/353-0820
TUESDAY, JANUARY 22, 1980
8:15 a.m. Faculty Development Program: "Workshop on Management Skills" by Richard Lewis, dean, MSU College of Business. Until noon. Continued January 23. For information, contact Sharon Rochon, 517/355-9611. E2 Fee Hall.

WEDNESDAY, JANUARY 23, 1980
8:15 a.m. Faculty Development Program: "Workshop on Management Skills" by Richard Lewis, dean, MSU College of Business. Until noon. For information, contact Sharon Rochon, 517/355-9611. E2 Fee Hall.

MONDAY, JANUARY 28, 1980
11:30 a.m. Biochemistry seminar: "Possible Role for Histone Acetylation in Transcription Processes" by Roger Chalkley, University of Iowa. 101 Biochemistry.

MONDAY, FEBRUARY 4, 1980
11:30 a.m. Biochemistry seminar: "Cerebral Ammonia Metabolism in Hepatic Encephalopathy" by Thomas E. Duffy, Cornell University Medical College. Cosponsored with Neuroscience Program. 101 Biochemistry.

FRIDAY, FEBRUARY 8, 1980

MONDAY, FEBRUARY 11, 1980
11:30 a.m. Biochemistry seminar: "The Use of Synthetic Oligonucleotides as Site-Specific Mutagens" by Michael Smith, University of British Columbia. Cosponsored with Genetics Program. 101 Biochemistry.

MONDAY, FEBRUARY 18, 1979

MONDAY, FEBRUARY 25, 1980
11:30 a.m. Biochemistry seminar: "The Transfer of the Phenotype of Chemically Transformed Cells via DNA Transvection" by Robert A. Weinberg, Massachusetts Institute of Technology. 101 Biochemistry.

MONDAY, MARCH 3, 1980
11:30 a.m. Biochemistry seminar: "Studies on ATP-Creatine Transphosphorylases (Creatine Kinases) from Tissues of Patients with Duchenne Muscular Dystrophy" by Stephen A. Kuby, University of Utah. 101 Biochemistry.
MSU-COM AWARDS FIRST Ph.D.
ADMINISTERED BY AN OSTEOPATHIC COLLEGE

The first Ph.D. degree ever to be administered by an osteopathic medical school has been awarded to Robert W. Stieber through the Michigan State University College of Osteopathic Medicine.

This year the College started its graduate study program, the first in the country for the profession. The program includes broad aspects of basic medical science as well as those aspects particularly associated with osteopathic medicine.

"We're trying to set standards of excellence for graduate work in the college," said Philipp Gerhardt, Ph.D. associate dean for research and graduate study at MSU-COM. "Stieber, whose field is microbiology and public health, is a truly exemplary student as well as an incredibly productive researcher.

"We always like to see a student's dissertation lead to a published article, but Stieber's consists of seven such articles," Gerhardt said. Five chapters of the dissertation already have been published or accepted for publication in refereed journals, and two more will be submitted soon. Stieber also has presented half a dozen papers at national and international conferences, two of which were published as additional articles.

"The thesis is highly theoretical because it uses mathematical modeling and computer simulation to describe a biological process," Gerhardt said, "but its application has important environmental and industrial implications."

Stieber's primary interests are membrane technology and fermentation processes. These have application in the production of antibiotics and other medically related compounds, as well as production and recovery of industrially important organisms and compounds.

For his laboratory experiments, he tested his theoretical model with the fermentation of whey, a residue of cheesemaking with great nutritional value but which is usually discarded, causing severe environmental pollution.

Other MSU researchers had found that the sugar in whey could be converted to an effective nitrogenous feed supplement for ruminant animals.

Stieber's work involved a continuous fermentation process using dialysis to remove products which inhibit the fermentation. To describe the process, he first developed a series of complex algebraic equations, which were then resolved on a computer, yielding predictions that he could test in laboratory experiments. After correlating the mathematical model with the experimental work, he was able to evaluate the process and make predictions that could be applied to other fermentations.

Stieber's research is part of an interdisciplinary effort involving Gerhardt, who is his major professor, and former MSU engineering professor George Coulman. It is an outgrowth of research done at MSU several years ago that used a much simpler process for converting whey.

During the years in which Stieber and Gerhardt worked together, the project has been supported by grants from the National Science Foundation, and was started with a grant from the MSU Office of Research Development.

Stieber has accepted a research and development position with the Virginia laboratories of Merck and Company. His undergraduate work was also done at MSU where he received a bachelor's degree in zoology and a master's in microbiology and public health.

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--Carol Duane
MATTHEW HOUGHTON NAMED SPORTS MEDICINE PHYSICIAN OF THE YEAR

Matthew A. Houghton Jr., D.O., assistant clinical professor of family medicine, was named the "Sports Medicine Physician of the Year" by the American Osteopathic Academy of Sports Medicine.

Dr. Houghton, of Empire, Michigan, received the award at the American Osteopathic Association national convention in Dallas November 4-8.

He was recognized for his work on the "Glen Lake Plan," a program to provide emergency care for high school athletes. Four states are currently considering adopting the plan, and it was recognized by then Secretary of Health, Education and Welfare Joseph Califano.

MSU-COM STUDENTS, ALUMNI RECEIVE SCHOLARSHIPS, POSTDOCTORAL GRANTS

Three osteopathic medical students and three alumni from the Michigan State University College of Osteopathic Medicine have received recent scholarships and postdoctoral grants.

First-year students Catherine Ann Kroll and Ronald Couturier were awarded national scholarships from the Auxiliary of the American Osteopathic Association. Criteria for these awards included academic quality, citizenship, personality, motivation toward the osteopathic school of thought, and interviews.

Mark Howard, a second-year student, was named a McCaughan Scholar, and received a $4000 award. He was selected on the basis of outstanding performance and motivation in osteopathic philosophy during the first year of medical school.

Receiving postdoctoral grants from the National Osteopathic Foundation as Mead John fellows were MSU-COM alumni Anthony Dekker, D.O.; Glen Hatcher Jr., D.O., and Ronald Marino, D.O.

Dr. Dekker, a 1978 alumnus interned at Chicago Osteopathic Hospital and is now serving a residency in family medicine there. Dr. Hatcher, a 1975 graduate, is a resident in general surgery at Detroit Osteopathic Hospital, where he also did his internship. Dr. Marino, a 1978 alumnus, served his internship at Doctors Hospital in Columbus, Ohio, where he is presently a resident in pediatrics.

DEPARTMENT OF OSTEOPATHIC MEDICINE NEWS

Attending the Annual Clinical Assembly of Osteopathic Specialists October 7-11 were Herbert Ross, D.O.; Earl Gonyaw, D.O., and Walter C. Miller, D.O., of the Department of Osteopathic Medicine; Bernard Ray, D.O., chairman of pediatrics; and Fred C. Tinning, assistant dean for planning.
BIOPHYSICAL AIDS TO OSTEOPATHIC DIAGNOSIS
FOCUS OF CME PROGRAM JANUARY 12-13

One of the nation's foremost experts in the use of biofeedback will be the featured speaker at a program January 12-13 sponsored by MSU's Department of Biomechanics Advance Study Group.

Elmer Green, Ph.D., director of the Voluntary Controls Program, Research Department, Menninger Foundation, will discuss the practical application of biofeedback in an office practice at the Michigan Center for Continuing Education in Osteopathic Medicine, Pontiac.

The seminar includes the use of biophysical aids in conducting osteopathic diagnoses, and will emphasize the use of these aids in an office practice.

Biophysical equipment covered will include thermography, biofeedback, electrophoresis, biochemical biopsy, computers, office EKG, C-T scanning, physical environment, and integrated multi-channel computerized osteopathic diagnosis and treatment.

Program chairmen are Ernest W. Retzlaff, Ph.D., professor of biomechanics, and John E. Upledger, D.O., associate professor of biomechanics.

Other seminar staff include:

—Gary A. Campbell, D.O., associate professor of family medicine
—Mary Sue Edwards, technician, Flint Nuclear and Ultrasonic Diagnostic Center
—Christine Hennecke, Ph.D., biochemist, University of California, San Francisco, Medical School
—Philip Hoekstra, M.S., director, Thermoscan, Inc.
—Andrew S. MacKenzie, D.O., associate professor of radiology
—Paul A. Parente, D.O., certified general practitioner and clinical associate professor, family medicine.
—Neal Spiering, D.O., clinical assistant professor and chairman of the Department of Biomechanics at Pontiac Osteopathic Hospital
—Jon D. Vredevoogd, M.F.A., assistant professor, Department of Human Environment and Design, MSU.
—Robert C. Ward, D.O., professor, Office of Medical Education Research and Development and Family medicine.
—Alphonse A. Yezbick, D.O., associate professor, family medicine.

Approval for 15½ hours of continuing medical education credit has been requested from the American Osteopathic Association Committee on Continuing Education, and is pending from the Board of Osteopathic Medicine and Surgery of Michigan and the Florida Board of Osteopathic Examiners.

For further information, contact Duane M. Tester, Michigan Center for Continuing Education in Osteopathic Medicine, 900 Auburn Rd., Pontiac, MI, 48057; 313/335-7742.
Robert W. Leader, D.V.M., professor and chairman of pathology, was inaugurated as president of the American College of Veterinary Pathologists at their meeting December 2-7 in Denver, Colorado.

Joseph A. Papsidero, Ph.D., professor of community health science, presented a paper on "Policy Research in Long-Term Care" at a faculty-student conference of the Division of Methodology and Evaluation, Department of Psychology, Northwestern University, on November 8. He also discussed "Development of a Data Archive for Policy Analysis in Aging and Long-Term Care" as part of a series of special presentations of the Administration on Aging held in conjunction with the 1979 annual meeting of the Gerontological Society in Washington D.C., November 27.

Teresa Bernardez, M.D., professor of psychiatry, presented an invited paper at the 23rd winter meeting of the American Academy of Psychoanalysis in a panel on "Anger and Aggression in Women and Men" in New York City, November 29.

David Abbott, D.O., 1976 alumnus, has been approved for membership on the active staff of Lancaster Osteopathic Hospital, Lancaster, Pennsylvania, and has been appointed a company physician for the Sperry New Holland Corp. Abbott took his internship at Traverse City Osteopathic Hospital, and his residency in family practice at Lancaster Osteopathic Hospital.


Robert Brengel, D.O., 1978 alumnus, has joined Marvin D. Penwell in a family practice and obstetrics at the Linden Medical Center, Linden, Michigan. He recently completed his internship at Fort Worth (Texas) Osteopathic Hospital.

Martin Benjamin, Ph.D., assistant coordinator of the Medical Humanities Program, contributed a chapter on "Moral Agency and Negative Acts in Medicine," to Medical Responsibility, edited by Robison and Pritchard and published by Humana Press, 1979. He also presented a lecture on "Killing and Letting Die — Newborns and Incompetents," for series of public lectures on "Caring and Curing: The Humanities and Medicine" at Hope College on October 24.

John P. Goodridge, D.O., professor of biomechanics, was reelected treasurer of the American Academy of Osteopathy at its annual meeting in Dallas November 7.

Jon J. Kabara, Ph.D., professor of biomechanics, is the author of "Multi-Functional Food-Grade Preservatives in Cosmetics," published in the October 1979 issue of D & CI (journal of the drug and cosmetics industry).

Brigitte Jordan, Ph.D., assistant professor of anthropology, presented the keynote address on "Humanism in Perinatology — An Anthropological Perspective" at the Third Suncoast Perinatal Conference in St. Petersburg, Florida, on November 10. She also participated to a panel on "Alternative Birthing Styles" at the same conference.

Stuart Sprague, osteopathic medical student, was cited for the "best paper presented by a medical student" during Family Practice Research Day III. His topic was oral aluminum toxicity. The event was sponsored by the American Academy of Family Practitioners, Michigan Academy of Family Practitioners, and the Department of Family Practice of the MSU College of Human Medicine.
Phillip E. Greenman, D. O., associate dean for academic affairs, was a member of the faculty of a four-day program on "Manipulative Medicine in the Management of Thoracic and Cervical Pain" held at the University of Calgary, Alberta, October 24-27. Dr. Greenman was also reelected to the Board of Councillors of the North American Academy of Manipulative Medicine.

John Casbergue, Ph.D., associate professor, and William Anderson, Ph.D., assistant professor, Office of Medical Education Research and Development, presented a workshop on the role of constructive feedback in clinical education at the Association of American Medical Colleges meeting in Washington, D.C., on November 6. Dr. Casbergue also served as moderator of a panel on enhancing clinical teaching at the "Research in Medical Education" sessions November 7.

J. Justin McCormick, Ph.D., associate professor and codirector of the Carcinogenesis Laboratory, was one of two Americans to attend an international conference on DNA repair October 21-26 in Newbrandenburg, German Democratic Republic, sponsored by the GDR Academy of Sciences. He spoke on DNA repair in human cells. He also made presentations on DNA repair at the French National Cancer Institute in Paris on October 18 and at the University of Munich October 29.

Dr. McCormick attended the International Symposium on Aromatic Amine Carcinogenesis sponsored by the National Cancer Institute November 7-9 in Potomac, Maryland. He was a site visitor at the University of Rhode Island for the National Institute of Environmental Health Science November 27, and he gave a presentation on the biological effects of diesel engine emissions for the EPA International Symposium on Health Effects of Diesel Engine Emissions held December 3-5 in Cincinnati.

Veronica M. Maher, Ph.D., associate professor and codirector of the Carcinogenesis Laboratory, gave seminars on DNA repair at the Columbia University Cancer Center on November 30, and at the Wayne State University cancer department November 14. She also attended the International Symposium on Aromatic Amine Carcinogenesis sponsored by the National Cancer Institute November 7-9 in Potomac, Maryland.

Eloise Kuntz, Ph.D., associate professor, and Rosalynn Zator, M.S., research technician, Carcinogenesis Laboratory, attended the EPA International Symposium on Health Effects of Diesel Engine Emissions December 3-5 in Cincinnati. Dr. Kuntz gave a presentation on identification of DNA adducts resulting from diesel engine emissions.

James N. Riley, Ph.D., assistant professor of anthropology, presented a paper on "Those Who Choose Osteopaths: Medical Acculturation in a Michigan Community" at the annual meeting of the American Anthropological Association, held in Cincinnati December 1.

Neil Schechter, D.O., 1973 alumnus, completed three years of a pediatric residency at the University of Connecticut School of Medicine and two years of a Developmental Pediatric Fellowship at Children's Hospital Medical Center in Boston. He is presently serving as a director of the Section of Developmental and Behavioral Pediatrics at St. Francis Hospital in Hartford, Connecticut, as a pediatric developmental consultant for the Hartford Public School System, and as assistant professor of pediatrics at the University of Connecticut School of Medicine.

Dennis C. O'Connor, D.O., 1978 alumnus, has opened a practice in family medicine and obstetrics at 10344 N. Thor Dr., Freeland, Michigan. He recently completed an internship with Saginaw Osteopathic Hospital.
GIFTS AND GRANTS

The following medically-related gifts and grants were among those accepted by the Michigan State University Board of Trustees at their meeting November 20. These grants total $1,076,785.

Biochemistry

National Institutes of Health
—Fatty acid synthetase and a new hemo-protein, H-450/ W. C. Deal Jr.

U. S. Department of Agriculture
—Pathways of ammonia assimilation in N₂-fixing plants/ K. R. Schubert

National Institute of Arthritis, Metabolism and Digestive Diseases
—Metabolic products in diabetes: GC-MS quantitation/ C. C. Sweeley
—Energy relationships in inborn errors of metabolism/ W. W. Wells

MSU Foundation
—Construction of a chicken gene library and analyses of oncogenes/ Hsing-Jien Kung

Biophysics

University of North Dakota
—The anatomical and electrophysiological organization of the dorsal column nuclei/ J. I. Johnson

Community Health Science

Michigan Department of Public Health
—Development of a request for proposals and related materials essential to the design of a public health program statistical abstracting reporting system for Michigan/ M. H. Branson

—Prepare a cost effective Health Information System/ C. W. Given, R. J. Sprafka

National Center for Health Services
—A data archive for use in long-term care policy analysis/ S. Katz, J. Papsidero

Office of Medical Education Research and Development

National Library of Medicine, NIH
—Explore clinical judgment to improve clinical decision making/ A. S. Elstein

Pharmacology and Toxicology

National Institute of Allergy and Infectious Diseases
—Drug disruption of trematode physiological processes/ J. L. Bennett

World Health Organization
—Basic and applied aspects of new techniques to evaluate the efficacy and mode of action of antischistosomal drugs/ J. L. Bennett

National Institute of Child Health and Human Development
—Distribution and functions of ACh in placenta/ F. Welsch

Physiology

Michigan Heart Association
—Potassium and coronary collateral blood flow/ H. V. Sparks

National Institute on Aging
—Institutional grant accompanying postdoctoral fellowship/ L. J. Forman, J. Meites

National Institute of Arthritis, Metabolism and Digestive Diseases
—Institutional grant accompanying postdoctoral fellowship/ F. C. Leung, J. Meites

Psychiatry

Michigan Department of Mental Health
—Residency training program development/ F. Westendorp

National Institute of Mental Health
—Basic psychiatric residency training supple-mental grant/ F. Westendorp

Psychology

Michigan Office of Services to the Aging
—Home care agency medical monitoring among the elderly/ L. A. Messe, D. Davis

National Association of Secondary School Principals
—Validation of assessment center rating for the selection of school administrators/ N. W. Schmitt