

MICHIGAN STATE
UNIVERSITY

Institute of
International Health



PREFACE



Today, as I look ahead, I see more change on the horizon,

not only for Michigan State University, but for all of higher education — a new reality that may alter what we do and how we do it. But for MSU, it will not change why we do it. We work to create a better tomorrow — to live our land-grant values and advance the common good, improving the quality of life wherever we can for individuals and communities around the globe.

Our transformative ingredient is our people's talent — talent of all kinds that comes together to create solutions and to take action when challenges and opportunities arise. Talent that can tackle big initiatives like this will make us better and will create benefits beyond our campus borders.

Lou Anna K. Simon, Ph.D.
President of Michigan State University

“The Institute of International Health has been offering

MSU students opportunities to take part in international electives for three decades. While some of the goals for these experiences are to allow young clinicians to build their clinical skills, treat unusual diseases or conditions not commonly found in the U.S., the primary mission is to give students a chance to immerse themselves in a new culture. When they travel outside the U.S., people — whether they are medical students, undergraduates, seasoned clinicians or other health care professionals— gain a global view and build a stronger basis of cultural awareness. They return with a new understanding of the world, of their interactions with others and a new empathetic approach to the diverse world .



William D. Strampel, D.O.
Dean of MSUCOM

A MESSAGE FROM OUR DIRECTOR

By immersing our faculty and students in the culture of global learning, we are building a legacy for Michigan State University to create citizens who view global issues as everyone's issues. For 30 years, the IIH has offered the opportunity for faculty and students to participate in global health research, global health development projects, and to examine the powerful pedagogy of global learning.

IIH shares the vision of Michigan State University's President Lou Anna K. Simon and the *Bolder by Design* concept to add the dimension of a World-Grant University to its goals. IIH works with MSU's health-related colleges, as well as with engineering, agricultural, social and environmental scientists to foster and coordinate research, education, outreach, and development in countries around the globe.

There is a critical global need for a One Health, One World approach to attacking the global problems of diseases and the environment through multidisciplinary research that integrates human health, animal health, food security systems and environmental challenges.

IIH is continuing to partner in One Health research and academic programs on five continents. Through these partnerships we seek to improve conditions for people, animals, and environment that will improve the current health disparities and inequities that plague our world.

William Cunningham, D.O., M.H.A.
Director of the Institute of International Health





OUR MISSION

The mission of the Institute of International Health (IIH) is to foster and enhance the opportunities for faculty and students to create, innovate, and transform international transdisciplinary health research, health development projects, and academic interest in global health, and thus, advance the vision of Michigan State University's President Lou Anna K. Simon via her *Bolder by Design* road map to MSU's future. IIH works with all of the medicine and health-related colleges, as well as with agricultural, engineering, social and environmental scientists and nutritionists to foster and coordinate research, education, and development at a global level. IIH also collaborates with Michigan-based hospitals affiliated with MSU's College of Osteopathic Medicine to raise awareness of global health issues and help improve clinical services and health outcomes for underserved regions of the world.

Global Health



WHAT WE DO

The Institute of International Health at MSU, in the spirit of the first land-grant university, has a deep commitment to improving the quality of life in resource-poor and disadvantaged communities around the world. The institute opens the door to the world through the following global programs for undergraduate pre-professional students and graduate students in medicine, nursing and veterinary medicine.

Annual Study Abroad Programs

- Belem, Brazil
- Havana, Cuba
- Santo Domingo, Dominican Republic
- Tecpan, Guatemala
- Seoul, Republic of Korea
- Blantyre, Malawi
- Merida, Mexico
- Iquitos, Peru
- Istanbul & Konya, Turkey

Independent Clerkship Rotations

- Approved Rotations in 56 countries for medical residents in the last four years

Global-Health Training Programs

- China
- Japan
- Republic of Korea

OUR HISTORY

The Institute had its genesis in 1987, when Dr. Roy Gerard of the Department of Family Practice received \$4.2 million from the W.K. Kellogg Foundation to implement the Kellogg International Fellowship Program in Health. By 1989, the fellowship program had grown into a full-fledged institute, directed by Dr. Evangelos Petropoulos with Dr. Herbert Whittier, as associate director. Under this leadership, IIH was involved in many successful training, research, and advisory initiatives in the field of International Health. In the past 29 years, IIH has continued to flourish as MSU’s focal point of international health by expanding training, educational, scholarship, and research programs as well as collaborative partnerships around the world.

ONE HEALTH



There is a critical global need for a new One World, One Health, One Medicine concept that will bridge the divide between humans, veterinary medicine, food security systems and environmental challenges. IIH will continue to develop international programs and research that provide a transdisciplinary approach for our faculty, investigators, and students. Our aim is knowledge-based advocacy to seek optimal health for people, animals and the environment through an integrated approach that will improve upon current health disparities and inequities.



STUDY ABROAD

The Institute of International Health currently offers nine health and medical study abroad programs, providing MSU students opportunities to gain a better understanding of healthcare systems in other countries, different clinical practices, and develop cultural competency. Courses in Mexico, the Dominican Republic and Korea are designed for undergraduate students who are considering a career in the medical field. The Cuba, Guatemala, Turkey, Peru, Brazil and Malawi programs are designed for osteopathic and allopathic medical students and graduate nursing students. Through clinical shadowing in our partner hospitals and interacting with the host physicians and local medical staff, students observe clinical procedures such as surgery and childbirth and learn about the patient-physician relationship in other cultures. Learning is reinforced by didactic lectures and cultural excursions in each country.

CURRENT PROGRAMS

- Tropical Medicine and Infectious Diseases, *Belem, Brazil*
- The Cuban Healthcare System & Culture, *Havana, Cuba*
- Dominican Republic, Healthcare Delivery System and Culture, *Dominican Republic*
- Guatemala Medical Mission, *Tecpan, Guatemala*
- Korean Healthcare Delivery System & Culture, *Seoul, Republic of Korea*
- Clinical Tropical Medicine, *Blantyre, Malawi*
- Community Medicine and Mayan Culture in the Yucatan, *Merida, Mexico*
- Peru Medical Service, *Iquitos, Peru*
- Turkish Healthcare Delivery System & Culture, *Istanbul & Konya, Turkey*



GLOBAL HEALTH TRAINING

To meet the mission of Michigan State University and the Institute of International Health, the Institute provides certificate programs for advanced educational training. The goal of these certificate programs is to offer international medical students and professionals a new perspective on various disciplines within the medical field while also developing cultural competency and language proficiency. Health care students and professionals will obtain new knowledge through partnering on campus and at selected medical/health institutions across Michigan with guidance from American physicians, medical students and administrators.

The following certificate programs can be customized to meet the needs of international health care professionals and students.

Global Osteopathic Manipulative Medicine Training *2 weeks in East Lansing, Michigan*

For Eastern traditional medicine professionals who want to broaden their knowledge of the American model of osteopathic care, philosophy and practice through hands-on experience.

Global Medical Shadowing Program *4 weeks in collaboration with Bay Regional Medical Center, Bay City, Michigan*

For international medical students and professionals who would like to learn American medicine and health care delivery in a hospital environment.

Global Health Care Professional Training Program *3 weeks in East Lansing, Michigan*

For international health care professional students to learn about health care management and delivery on campus and at selected hospitals.

Global Health Care Management Program *2 weeks in East Lansing, Michigan*

For international physicians and health care administrators to learn the management of American hospitals with leadership and supply chain management perspectives.

Environmental Health with Water Quality Program *2 weeks in East Lansing, Michigan*

For engineers and health care administrators to gain first-hand knowledge of the interaction between environment and health care.

Global HIV/AIDS Care Program *2-3 weeks in East Lansing, Michigan*

For health care professionals to learn advanced knowledge of HIV/AIDS with tropical/infectious diseases.

Hospital Management Training Program *4 weeks in collaboration with Metro Health Hospital in Grand Rapids, Michigan*

For hospital managers and administrators to sharpen their managerial and administrative skills for various daily operations.

Details of these certificate programs are available upon request via email: chungsu1@msu.edu.

INTERNATIONAL AFFILATED FACULTY

Prof. Daniyar Abidov
Director—Istedod Foundation
Tashkent, Uzbekistan
Social elements of health

Dr. Walter Ammann
President—Global Risk Forum
Davos, Switzerland
Disaster risk analysis and prevention

Prof. Dr. Cevdet Aitinyazar
Vice Dean, Selcuk University School of Medicine
Konya, Turkey
Dermatology

Dr. V. BhanuRekha
TANUVAS/Chennai Department of Health
Chennai, India
Zoonosis and tuberculosis

Prof. Luisa Caricio-Martins
Federal University of Para
Belem, Brazil
Tropical and infectious diseases

Prof. Giuseppe Carruba
University of Palermo School of Medicine
Palermo, Italy
Oncology and nutrition

Sidney Coupet, D.O., M.P.H.
President—Doctors United for Haiti
Haiti
Public health and community medicine

Plamen Dimitrov, M.D., Ph.D.
National Center of Public Health & Analyses
Sofia, Bulgaria
Environmental and public health

Prof. Simon Duncan
International College of Osteopathic Medicine
(ICOM) Milan, Italy
Osteopathic medicine

Prof. Hassan El-Ghaffar
Mansura University Medical Center
Mansura, Egypt
Hematologic disorders and hepatitis C

Amanda Fecury
Federal University of Para
Belem, Brazil
Tropical and infectious diseases

Prof. Dr. Duygo Findik
Selcuk University School of Medicine
Konya, Turkey
Laboratory of Medical Microbiology

Prof. Helen Fuzzi
Federal University of Para
Belem, Brazil
Tropical and infectious diseases

Prof. Hanan Gawish
Mansura Specialty Hospital
Mansura, Egypt
Diabetes

Prof. L. Gunaseelan
TANUVAS/Chennai Department of Health
Chennai India
Zoonosis and tuberculosis

Prof. Charles Hunt
British School of Osteopathy
London, United Kingdom
Osteopathic medicine

Ivan Ivanov
World Health Organization
Geneva, Switzerland
Global health

Prof. Kyung-Sun Kang
Seoul National University
Seoul, Republic of Korea (South)
Adult stem cell therapies

Prof. T. A. Kannan
TANUVAS – Chennai Department of Health
Chennai, India
Stem cells, zoonosis and tuberculosis

Prof. Dr. Fehmi Karasioglu
Selcuk University
Konya, Turkey
Health management and administration

Jin-Kyong Kim, PhD
Busan National University
Busan, Republic of Korea (South)
Bio-medical ethics and regulations

Prof. Alfonso Mandara
International College of Osteopathic Medicine
(ICOM) Milan, Italy
Osteopathic medicine

Prof. Jorge Mendoza
Director—Centro de Investigaciones Regionales
Merida, Mexico
Environmental pathogens

P.S. Mohankumar, B.V.Sc., Ph.D.
University of Georgia
Athens, Georgia
Neuroendocrinology of reproductive aging

Roberto Paulino, MD
UNIBE School of Medicine
Santo Domingo, Dominican Republic
HIV/AIDS

Dr. Ganesh Pawar
TANUVAS—Chennai Department of Health
Chennai, India
Zoonosis and tuberculosis

Dr. E. Cuauhtemoc Sanchez
Yucatan Department of Health
O’Horan Hospital
Merida, Mexico
Public health, community medicine and
environmental health

Prof. Dr. Oktay Sari
Dean, Selcuk University School of Medicine
Konya, Turkey
Nuclear medicine

Dr. Joonshik Shin
President/CEO—Jaseng Healthcare System
Seoul, Republic of Korea (South)
Korean oriental medicine

Joel Spadaro, M.D., Ph.D.
Universidade Estadual Paulista (UNESP)
Sao Paulo, Brazil
Community medicine

Prof. Manal Tarshoby
Mansura Specialty Hospital
Mansura, Egypt
Diabetes

MICHIGAN STATE UNIVERSITY AFFILIATED FACULTY

AGRICULTURE & NATURAL RESOURCES

Joan B. Rose, Ph.D.
Water microbiology, water quality, public health

Celina Wille, Ph.D.
Community development, nutrition education

Felicia Wu, Ph.D.
Global health, agriculture, trade

COMMUNICATION ARTS & SCIENCES

Peter Lapine, Ph.D.
Voice restoration after laryngectomy,
videostroboscopic imagery, vocal fold dynamics,
speech acoustics, resonance disorders

Maria Lapinski, Ph.D.
Social-psychological factors on health,
environmental risk behaviors with a focus on
culturally-based differences & similarities, One
Health communication

ENGINEERING

Evangelyn C. Alocilja, Ph.D.
Nano-biosensors, point-of-care-diagnostics

Syed A. Hashsham, Ph.D.
Point-of-care diagnostics

Peter Lillehoj, Ph.D.
BioMEMS, nanotechnology, microfluidics,
biosensors, point-of-care diagnostics

Brian Thompson, Ph.D.
High speed machinery, composite materials,
smart materials, design methodologies,
community development

Thomas C. Voice, Ph.D.
Environmental health, water quality

HUMAN MEDICINE

P. Greg Gulick, M.D.
Telemedicine

Michael R. Rip, Ph.D.
Public health

Norbert E. Kaminski, Ph.D.
Immunopharmacology, immunotoxicology

Tom Tomlinson, Ph.D.
Ethics and humanities in the life sciences, social
issues in medical science

James E. Trosko, Ph.D.
Cancer genetics, adult stem cells, toxicology,
environmental health, food security

JAMES MADISON COLLEGE

Siddharth Chandra
Behavior and policy relating to addictive
substances, the intersection of economics,
health, history in Asia

NATURAL SCIENCE

David T. Long, Ph.D.
Environmental health, water quality

Zhiyong Xi, Ph.D.
Disease vectors, mosquitoes, infectious disease,
microbiology & molecular genetics

NURSING

Patricia Peek, D.N.P. RN, PNP-BC, Ph.D.
HIV/AIDS, family adaptation to chronic childhood
respiratory disorders

Barbara Smith, Ph., RN, FACSM, FAAN
HIV/AIDS, breast cancer, public health

Teresa Wehrwein, Ph.D., RN, NEA-BC
Nursing education

OSTEOPATHIC MEDICINE

Farha Abbasi, M.D.
Global mental health program

Margaret Aguwa, D.O., M.P.H.
Community and public health, family planning

Andy Amalfitano, D.O., Ph.D.
Gene transfer to treat genetic and non-genetic
diseases

Michael Boivin, Ph.D., M.P.H.
Neuropsychiatry of HIV/AIDS

William Cunningham, D.O., M.H.A.
Emergency medicine, hospital management

Lisa DeStefano, D.O.
Manual medicine

Peter Gulick, D.O., FACOI, FACP
HIV/AIDS, Hepatitis B and C,
hematologic malignancies

James Randolph Hillard, M.D.
Global mental health program and H. Pylori

Kari Hortos, D.O.
Clinical nutrition

Jed Magen, D.O.
Global mental health program

Justin McCormick, Ph.D.
Carcinogenesis

M. Reza Nassiri, Ph.D.
Infectious disease, HIV/AIDS

Peter Reeves, Ph.D.
Postural neuromuscular support systems

Edward Rosick, D.O.
Herbal remedies, community health

Jake Rowan, D.O.
Manual medicine, community health

Gary Willyerd, D.O., FACOEP-D, FAODME
Family and community medicine

SOCIAL SCIENCES

Rene Hinojosa, Ph.D.
Transportation planning, evaluation in planning,
methods of regional analysis

Pilar Horner, Ph.D.
Drug use & abuse, social welfare policy, sexuality,
social aspects of HIV/AIDS

Khalida Zaki, Ph.D.
Cultural diversity, disease and society, social
demography

VETERINARY MEDICINE

Theresa M. Bernardo, D.V.M, M.Sc.
Medical informatics, agricultural health,
international trade, disease surveillance &
reporting

John Kaneene, D.V.M., M.P.H., Ph.D.
Epidemiology of infectious diseases, zoonoses

ADVISORY COUNCIL

The role of the Advisory Council is to provide guidance and consultation to the Director in the area of international health management. The IIH Advisory Council is currently composed of the following group of dedicated, cross-disciplinary faculty and staff:

William Cunningham D.O., M.H.A. (ex officio)

Director, Institute of International Health
Assistant Dean, College of Osteopathic Medicine

Charles Gliozzo Ph.D.

Professor Emeritus, Office of Study Abroad

John Kaneene D.V.M, M.P.H., Ph.D. (Chair)

University Distinguished Professor
Large Animal Clinical Sciences

Laurie Medina Ph.D.

Director-Center for Latin American and
Caribbean Studies

Michael Rip Ph.D., M.Sc.

Director, Program in Public Health
Assistant Professor, College of Human Medicine

Barbara Smith Ph.D, RN, FACSM, FAAN

Associate Dean for Research
Professor College of Nursing

James Trosko Ph.D.

Professor Emeritus, Pediatrics and Human Development

Mary Anne Walker, M.A.

Director, International Engineering Programs

STAFF

William Cunningham D.O., M.H.A.

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Assistant to the Director
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Gabrielle Barron

Technical Assistant

Shibin Joseph

IT Technician

Sonam Sethi

Graduate Assistant

Vraj Tripathi

Technical Assistant

BOLDER BY DESIGN

President Lou Anna K. Simon's initiative to advance the university in preparation for the future is known as Bolder by Design. At its heart are six imperatives intended to reaffirm where a U.S. public research university must focus and excel, in order to sustain greatness in the years ahead.

- **ENHANCE THE STUDENT EXPERIENCE** by expanding opportunities for where, when, and how students learn and increasing the value of an MSU degree.
- **ENRICH COMMUNITY, ECONOMIC, AND FAMILY LIFE** through research, outreach, engagement, entrepreneurship, innovation, diversity, and inclusiveness.
- **EXPAND INTERNATIONAL REACH** through academic, research and economic development initiatives, and strategic alliances.
- **INCREASE RESEARCH OPPORTUNITIES** by expanding funding to support high-impact scholarship and research.
- **STRENGTHEN STEWARDSHIP** by nurturing the university's financial assets, campus environment, infrastructure, and people.
- **ADVANCE OUR CULTURE OF HIGH PERFORMANCE** by elevating the quality and effectiveness of every product and process.

Institute of International Health

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