



CENTER FOR OCCUPATIONAL HEALTH AND SAFETY ENGINEERING UNIVERSITY OF MICHIGAN

COHSE SUCCESS STORIES

COHSE Director and Professor, **Rick Neitzel**, as well as the **Industrial Hygiene** program, received several awards from the American Industrial Hygiene Association, including the 2023 Edward J. Beier Technical Achievement Award and the 2023 AIHA Bestseller and Critics' Choice Awards for *The Noise Manual*, 6th edition.

Leia Stirling, Associate Professor, & Director for the **Occupational Safety Engineering** Program was elevated to IEEE Senior Member for her contributions to the field of wearable technologies. She also received the U-M North Campus Dean's Martin Luther King Jr. Spirit Award.

New **Occupational Health Nursing** program Director, **Marie-Anne Rosenberg** was awarded two new R03 grants for her work in Worker safety. She was inducted as a Fellow of the American Academy of Nursing this fall.

Our **Continuing Education** Program conducts a wide range of live courses and webinars by top faculty and leaders in the field. Our programs were attended by over 2,400 people in 2023.

New Deputy Director for the **Occupational and Environmental Epidemiology** Program, **Alexis J. Handal**, alongside OEE Director **Marie O'Neill**, have led two research programs on occupational health among Latinx works in Ecuador and in Michigan, and completed research in collaboration with Michigan farmworkers.



Adam Finkel, Adjunct Professor, & Director of our **Pilot Project Research Training** Program published the first-ever empirical research on the magnitudes of individual mortality risk from pollution in the *Human and Ecological Risk Assessment: An International Journal*.

← ERC REGIONAL SYMPOSIUM

In the Spring **COHSE** hosted the **2023 Regional Education Research Center (ERC) Symposium**, "Meeting Challenges in Occupational and Environmental Justice" with guest speakers from EPA, Blue Green Alliance, Green Door Initiative, Boston University, and the Erb Family Foundation. This event brought interdisciplinary and intercollegiate NIOSH trainees and faculty from the ERC's from the University of Cincinnati, University of Illinois Chicago and the University of Michigan together for this yearly event and poster session.



Stuart Batterman, Professor and Center Deputy Director, was selected as a member of the World Health Organization *Technical Advisory Group on Economics for Environment, Climate Change and Health*.





INTERDISCIPLINARY FIELD TRIPS

COHSE 2023 Interdisciplinary field trips include the **Ford Rouge Factory** Tour, observing the working truck plant, and the factory's history with the production of The Ford F-150. In the Fall COHSE trainees explored the **National Museum of the Great Lakes** in Toledo Ohio. The guided tour of the Col. James M. Schoonmaker, which operated from 1911 to 1981, explored what life was like for the crew on a lake freighter with a focus on occupational health and safety and how that changed over the working life of the vessel.

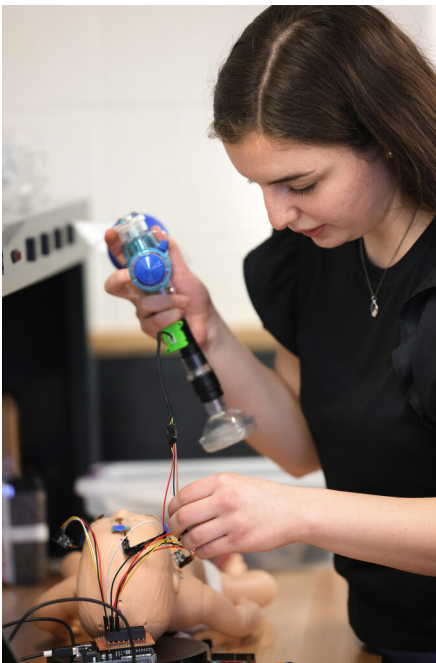
[Michigan Public Health Apple Hearing Study]



The groundbreaking Apple Hearing Study, a nationwide study on sound exposures and impacts on hearing and cardiovascular health, is now in its fourth year. Headed by COHSE Director **Rick Neitzel**, the study has used smart devices to amass the largest-ever dataset of sound exposures.

TRAINEES

The Industrial and Operations Engineering (IOE) Human Factors and Ergonomics Society (HFES) student chapter once again received the Gold HFES Chapter Recognition Award.



Now in its third year, The **Michigan-Ohio Occupational Research Education (MOORE)** Program, sponsored by the National Institutes of Health, developed and delivered training and research experiences during their Summer Research Camp exploring home health care exposure assessment. The highly multidisciplinary team involves experts from COHSE, the University of Michigan, University of Cincinnati, and Michigan State University.

COHSE OUTREACH TO BUSINESS AND INDUSTRY:

Our **Continuing Education** Program conducts a wide range of live courses and webinars by top faculty and leaders in the field. Our programs were attended by over 2,400 people in 2023.

Examples of companies receiving services and training provided by COHSE:

Abbott	Carrbbean Vulnerable	Eikenhout Inc	Indiana University Health
Abbott Vascular	Comm Coalition	Eisenberg Family	Indigenous Services
AbbVie Inc.	Case Western Res	Depression Center	Canada
Acromag, Inc.	Case Western Reserve	Eisenhower Army Medical	Inglis
Aims Community College	University	Center	INSP
Akron Children's Hosp	CBRE	Elizabethtown College	Instaset Plastics
Alaska Native Epi Center	CDC	Elmer's Crane and Dozer,	Integrated Occupational
Alaska Native Tribal	CDC/NIOSH/OD	Inc	Health Consulting
Health	Center for Health, Work &	Emerson	International Isocyanate
Albemarle	Environment, Colorado	Emory Univ	Institute
Algoma Steel Inc.	School of Public Health	EnlivenWork	International Paper
Allegan County	Century, LLC	EnviroMD, Inc.	Inuka Coaching
Allen Animal Hospital	CertainTeed/Saint-Gobain	Euclid Industries Inc.	Irving Shipbuilding Inc
Altec Industries, Inc	CEW+	Evoqua	Jackson College
Alternative Services, Inc.	Charlotte-Mecklenburg	FCCI Insurance	Jackson Heart Study
Am. Cancer Society	Schools	Federal Aviation	Jackson State U
AMCHP	Cherry Republic	Administration	JBS
American U of Beirut	Chevron	Federal Bureau of	John Ball Zoo
Amgen	CHKD	Investigation	John Henshaw and
Amway Corporation	Christian Reformed	FedEx	Associates, Inc.
Anderson Development	Church	Fennovoima Oy	John Hopkins SPH
Company	CITGO	Finlandia University	Johnson & Johnson
APAF	City of Lansing	Florence Medical Group	Johnson Matthey
Apple	City of Mt. Pleasant	Fluor Marine Propulsion	Jp Roosevelt Construction
Arbor Research	City of Royal Oak	Corp	JR Automation
Ariel Clinical Services	City of Taylor	Ford Motor Company	Kalamazoo County
Arizona State University	Civitas Vera	Frederik Meijer Gardens &	Government
Employee Health	Co Dept of PH	Sculpture Park	Kapnick
Asahi Kasei Plastics	Collins Aerospace (a	Future Fuel Chemical	Kelly Healthcare
Ascension St. Mary's	subsidiary of RTX)	G&T Industries	Keweenaw Co-op
Ascent Cloud LLC	Community Health	General Motors	Keweenaw Cooperative
Associations Maternal &	Continental Automotive	Georgetown U	Inc.
Child Health Programs	Systems, Inc.	Gordon Food Service	Koniag GS
Aurora Flight Sciences	Corteva Agriscience	Government of Canada	Liberty Mutual
Bangur Hospital	Cotterman Company /	Grandvue medical care	Loc Performance
Baxter	Material Control, Inc.	facility	Lockheed Martin
Bayer	Covenant HealthCare	Granger Waste Services	LSMAMP
BDN Industrial Hygiene	CRCNA	Guzi-West Inspections	M&E Painting and Roofing
Consultants	Cromaine District Library	GVSC	Solutions
BDN Industrial Hygiene	CSI Support &	H & P Technologies, Inc.	Marathon Petroleum
Consultants	Development Services	H&M	Corporation
Beacon Occupational	CTEH, LLC	Harley-Davidson	Maricopa County Sheriff's
Health	Dartmouth	Harris Health System	Office
Bechtel Power Company	DCS Corporation	Harvard	Mary Jeanne Organics
Behavioral Health Systems	Department of Defense	Hatch Stamping Company	(MJO)
Inc	Department of National	Health Canada	Marywood Nursing Care
BELLCO SRL	Defence Canada	HealthMyne	Center
Bello Machre	Dept of Vetrans Affairs	Hegira Health, Inc.	Mayo Clinic
Berkeley	DePuy Synthes	Henry Ford Health System	McKee Foods Corporation
Berrien County Juvenile	Det Medical Center	HFHS	McLaren
Center	Detroit Regional Chamber	Hip Power Window	McLaren Central Michigan
Biolife Solutions	DISENOS ORNAMENTAL	Solutions LLC	MDHHS
Boeing	IRON	HomeWorks Tri-county	Mental Health America
Boston U	DOD	Electric	Merck
Brasilian Naval Comission	DOJ/FBI	Hosfeld and Co.	Mexico Nat Inst Public
Brickley DeLong, PC	Dow	Humana	Health
Bronson	DSM Dyneema	I U	Mi Nueroscience Inst
Bronson Healthcare	Duncan Aviation	IBM	MI Public Health Inst.
Group	East Penn Manufacturing	IKEA	Michigan Department of
C.F. Martin & Co., Inc.	Eaton Corporation	IN Dept of Health	Agriculture and Rural
Canadian Armed Forces	EcoHealth Alliance	Independence Therapy	Development
Canadian Nuclear Safety	Ecuador University	Solutions	Michigan Industrial
Commission	EDL Energy	Indian River Bikram Yoga,	Hygiene Society
CareSource	EHS field	LLC	Michigan Medicine

Michigan Millers
Insurance Company
Michigan State Housing
Development Authority
MidAmerican Energy
Company
MidMichigan Community
Health Services
MidMichigan Health-
Midland
MIOSHA
Mississippi Dept. Health
MN Dept of Health
MSHDA
MSHDA
Michigan State University
NAMI Central Texas
Nat Cancer Inst.
National Institute for
Occupational Safety
National Oceanic and
Atmospheric
Administration
NAVAIR Naval Air Station
Patuxent River, MD
Naval Acquisition Career
Center (NACC)
Naval Nuclear Laboratory-
Bettis Site
Nemour's Children's
Hospital
NEMROC
New York State
Nexcare
NH DHHS/DPHS
NH-DHHS
NI of PH Mexico
NIH/NIAID
NLB Corp.
NMCAA
NOAA - NWS
North West
Environmental Group Ltd
Northrop Grumman
Northwest Michgian
Community Action
Agency, Inc
Northwestern
Notre Dame U
NSG Glass North America,
Inc.
Nuclear Regulatory
Commission
Nutrien Ag Solutions
Oakland Community
Health Network
Oakland Schools
Oakland U
Occupational Health
Management, PLLC
Ochsner Health
Oetiker, Inc
Oklahoma City Public
Schools
Olmsted County
Operating Engineers 324
Oregon Health Auth
Oryana

Oryana Community Coop
Outerwears Inc
Paramelt
Patient Voices
Penske
Performance
Occupational Health
Services Vancouver and
Longview WA
Pettibone Traverse Lift
Phi Sigma Rho National
Sorority
Philips (China) Investment
Co., Ltd.
Pinnacol Assurance
Poly Flex Products, Inc.
Pomona College
Precision Edge Surgical
Products Company LLC
Premise Health
Pridgeon and Clay, Inc
ProgressiveHealth
Public Health Muskegon
County
QUEST Counseling
R.A. Miller Industries, Inc.
(Manufacturing Company)
Raleigh Police
Department
Ramboll
Rec Boat Holdings
Recticel North America,
Inc.
REGROUP
Renosol Corp.
RK Mechanical
Roswell Park CCC
RTI Surgical, Inc.
S&S Plumbing Services Inc
SA Automotive LTD
Saginaw Control and
Engineering
Saginaw Valley State
University
Saint-Gobain
Sandia National
Laboratories
Sargent & Lundy
Schupan & Sons Inc
Schupan Beverage
Container Recycling
Sedgwick
SEEDS
Sherwin-Williams
Siemens Healthineers
Smithsonian Institution
Spartan Fire Chassis
Spartan Tool
Spec Tool
Spectrum Health
St Joe's Health
St. Claire Health Dept.
St. Joseph Mercy Hospital
St. Louis Area Business
Health Coalition
St. Luke's Health System
St.Charles Health System
Stanford U

Starling Minds
State Farm
State of
Michigan/Michigan
Rehabilitation Services
Steel Dynamics
Steel Dynamics Southwest
-Sinton Division
Stellantis
Stryker
Suncor
Takeda
Takeda Pharmaceuticals
TechTown Detroit
Telemark Corporation
Temple University
Tenneco
Texas Health Resources-
Azle
The Dow Chemical
Company Foundation
The University of
Pennsylvania
The Wellness Center
The World Bank
Thermo Fisher Scientific
Thomas Fuller
Three Rivers Corporation
THRIVE
Timberline Knolls All
Female Therapeutic
Residential and PHP
Program
Town of Vail
Tri-County Health Care
Triangle Partnership
Trinity Health
TSLC Marian Place
Tulane U
Turner/YCC
TX Health Service
U C Irvine
U Chi
U de Los Andes
U de Sabana
U Hospitals CMC
U MS Med Ctr.
U of Beirut
U of Buffalo
U of CA
U of Guam
U of M Dental School
U of M SPH
U of Miami
U of Michigan
U of MO
U of MS
U.S. Nuclear Regulatory
Commission
UAW
UAW-Ford
UM SPH
UMCU
Uni Hospitals
Uni of Memphis
Union Pacific
United Nations
United States Air Force

UnityPoint Health/St.
Luke's
Universit of Michigan
University of Colorado
Boulder
University of Kentucky
University of Michigan
University of Michigan
Business Engagement
Center
University of Michigan
Credit Union
University of Michigan
Health
University of Minnesota
School of Public Health
Upper Peninsula Power
Company
UPS
US Coast Guard
USPS
Utah Dept of Health
Valley Residential Services
Inc.
VanAire
Veolia/DUWA
Vidant Corporate Health
VNS Federal Services
W VA U
Walmart
Washington River
Protection Solutions
Washington State U
Wayne State U
Weill Cornell Medicine
West Bloomfield
Township Public Library
West Michigan Surgical
Specialists, PLC
WHI
White Shepard Safety
Solutions
WHO
Willard Library
Winco Hse Ltd
Windsor Detroit Bridge
Authority
Wisdom Consulting
WorkCare
WorkCare, Inc.
WorkLife Partnership
World Renew
World Wide Technology
WSP
Wyoming OSHA
XCal Tools-Clare
Zachry Industrial