

EDUCATION:

Doctor of Philosophy (Ph.D.)

Planning, Design, and Construction

Dissertation Title: The Owner's Role in Contractor Safety Management: A Pattern Language

Fields of Specialization: Construction safety, risk management, organizational behavior, labor relations, human resources, construction contracts and legal applications.

2015 – 2019

School of Planning, Design, and Construction

Michigan State University

East Lansing, MI 48824

Master of Science (M.S.)

Construction Management

2011 – 2015

School of Planning, Design, and Construction

Michigan State University

East Lansing, MI 48824

Bachelor of Science (B.S.)

Human Biology

2002 – 2006

College of Natural Science

Michigan State University

East Lansing, MI 48824

CERTIFICATIONS:

Certified Safety Professional (CSP)

No. 24406

Board of Certified Safety Professionals

Champaign, IL 61821

Certified Hazardous Materials Manager (CHMM)

No. 16265

Institute of Hazardous Materials Management

Rockville, MD 20852

Associate in Risk Management (ARM)

No. 900096843

The Institutes

Malvern, PA 19355

OSHA Authorized Construction Industry Outreach Trainer (OSHA 500)

No. C0062186

Great Lakes OSHA Education Center

Cincinnati, OH 45267

Associate Constructor (AC)

No. 11819

American Institute of Constructors

Alexandria, VA 22314

WORK EXPERIENCE:

Contractor Safety Manager

February 2018 – Present

Michigan State University

Office of Environmental Health and Safety

E. Lansing, MI 48824

- Responsible for creation and implementation of university-wide construction safety oversight program
- Act as principal owner liaison with contractors to facilitate construction safety and risk management requirements
- Lead EHS staff subject matter experts' participation in university project design, construction and commissioning
- Support owners' project managers through onsite walkthroughs and compliance audits with contractor management
- Track real time contractor safety performance through enterprise wide data collection and analysis
- Support identifying and providing solutions for construction and environmental hazards associated with operations

Principal

September 2016 – Present

The Hansmann Group

Okemos, MI 48864

- Work with owners to evaluate their risk and liability to determine appropriate involvement in safety management
- Assist contractors in improving safety performance to meet the needs of their employees and business objectives
- Develop manuals, guidelines, procedures, and other program documents for owners and contractors

Zachary D. Hansmann, Ph.D., CSP, CHMM, ARM

Adjunct Faculty – Construction Management

August 2019 – Present

Michigan State University
School of Planning Design and Construction
E. Lansing, MI 48824

- Teaching Construction Management students in the School of Planning, Design, and Construction.

Construction Safety Manager

September 2013 – March 2019

Michigan State University
Facility for Rare Isotope Beams (FRIB)
E. Lansing, MI 48824

- Oversaw construction safety for the 730-million dollar US Department of Energy funded nuclear physics project
- Presented construction safety performance to external auditors and reviewers from federal funding agency
- Developed and operated a behavior based leading indicator program to evaluate contractor performance

Environmental Coordinator

September 2007 – February 2014

Michigan State University
Office of Environmental Health and Safety
E. Lansing, MI 48824

- Created and enforced the university's environmental policies relating to asbestos, lead, PCBs, and mold
- Coordinated asbestos and lead management activities for 22.8 million square feet of university owned facilities
- Managed hazardous material project design on all minor (>\$250,000) and major (\$1,000,000+) projects
- Created annual prequalification process for asbestos abatement contractors seeking on-campus contracts
- Established inspection procedures and recordkeeping systems to meet federal regulatory compliance requirements

Industrial Hygienist

May 2006 – September 2007

Fibertec Industrial Hygiene Services
Industrial Hygiene Division
Holt, MI 48842

- Provided on-site air monitoring, regulatory compliance oversight, and project management for remediation projects
- Performed asbestos inspections, industrial hygiene investigations, and physical assessments for various clients
- Conducted lead risk assessments and inspections following EPA/HUD and MDHHS guidelines

Biological Safety Aide

May 2004 – May 2006

Michigan State University
Office of Radiation, Chemical, and Biological Safety
E. Lansing, MI 48824

- Assist in compliance operations, including laboratory inspections, recordkeeping, and respirator fit tests
- Conducted annual autoclave inspections for research facilities throughout the Michigan State University campus

PROFESSIONAL AFFILIATIONS:

American Society of Safety Professionals (ASSP)

Professional Member, No. 10048127
Construction Practice Specialty Member

Mid-Michigan Chapter

Michigan Safety Conference

Administrative Vice-President (2022-2023)
Board of Directors (2017-Present)
Arrangements Committee Chair (2016 - Present)
Construction Division Member (2015 - Present)

Michigan Association of Hazardous Materials Professionals (MI-AHMP)

Sigma Lambda Chi International Honor Society

Zachary D. Hansmann, Ph.D., CSP, CHMM, ARM

CONFERENCE PRESENTATIONS:

“Leading Indicators: Industry Trends and Predicting Tomorrow”

Michigan Safety Conference

Construction Division

Novi, Michigan

April 2017

Construction Association of Michigan

Safety Leadership Conference

Oakland, Michigan

December 2017

“The Owner’s Role in Construction Safety: Risk, Responsibility, and Reward”

Alliance of Hazardous Materials Professionals

National Conference

Washington, D.C.

August 2016

American Society of Safety Professionals, Mid-Michigan Chapter

Safety Leadership Series

Midland, Michigan

August 2016

Michigan Safety Conference

Construction Division

Grand Rapids, Michigan

April 2016

Construction Association of Michigan

Safety Leadership Conference

Livonia, Michigan

December 2015

“Understanding the Owner's Role in Construction Safety”

Indiana Safety and Health Conference and Expo

Construction and Maintenance Division

Indianapolis, Indiana

February, 2020

“Navigating the Varying Safety Expectations of Owners”

Associated General Contractors (AGC) of Michigan

Construction Safety Conference

Livonia, Michigan

March, 2020

“Silo Fire & Demolition Case Study: Emergency Response and Aftermath”

Michigan Safety Conference

Agriculture Safety and Rescue Division

Lansing, Michigan

April, 2022

“Multi-Employer Worksite Safety: Balancing Compliance and Culture”

American Society of Safety Professionals, Mid-Michigan Chapter

Safety Leadership Series

Lansing, Michigan

September 2022

OCCUPATIONAL TRAINING (Selected):

**Occupational Safety & Health Standards for the
Construction Industry (OSHA 510)**

*Great Lakes Regional OTI Education Center
Ypsilanti, MI 48197*

OSHA Construction Industry Outreach Trainer Refresher (OSHA 502)
No. 21-0105310

*Great Lakes Safety Training Center
Midland, MI 48642*

**Intermediate Incident Command Systems for
Expanding Incidents (FEMA ICS 300)**

*Michigan State Police
Lansing, MI 48910*

OSHA 30 Hour Construction Industry Safety Outreach Training
No. 36-600783665

*360 Training
Austin, TX 78727*

Zachary D. Hansmann, Ph.D., CSP, CHMM, ARM

OTHER EXPERIENCE and VOLUNTEER WORK:

- Former *Asbestos Project Designer, Building Inspector, and Contractor/Supervisor* (No. A35562, MI LARA)
- Former *Lead Inspector, Risk Assessor, and Elevated Blood Lead (EBL) Investigator* (No. P-03413, MI DHHS)
- Michigan State University Alpine Ski Team, President ('05-'06), VP ('04-'05), Faculty Advisor ('07-Present)
- Medical Photographer, Michigan State University College of Human Medicine (2003 - 2006)

ACADEMIC COURSEWORK:

Doctor of Philosophy (Ph.D.), Planning, Design, and Construction:

- Organizational Behavior for Human Resources and Labor Relations (HRLR 813)
- Organizational Development and Change (HRLR 816)
- Human Resources Practices and Decisions (HRLR 820)
- Independent Study in Human Resources and Labor Relations for PhD (HRLR 990)
- Organizational Research Methods (MGT 906)
- Integrated Approach to Sustainable Planning, Design, and Construction (PDC 901)
- Advanced Research Methods in Planning Design and Construction (PDC 992)
- Doctoral Dissertation Research (PDC 999)

Master of Science (M.S.), Construction Management:

- Advanced Project Scheduling (CMP 811)
- Advanced Cost Estimating and Analysis (CMP 815)
- Construction Project Management and Information Systems (CMP 817)
- Contracts and Legal Issues in Construction (CMP 822)
- Construction Management Independent Study (CMP 890)
- Construction Management Research Seminar (CMP 892)
- Commercial Construction (CMP 210)
- Statics and Strengths of Materials (CMP 222)
- Construction Surveying (CMP 315)
- Structural Systems (CMP 322)
- Occupational Health and Safety in Public Health (HM 858)
- Environmental Toxicology (EVSP 594)
- Economics of Environmental Resources (AEC 829)
- Watershed Concepts (ESA 452)
- Building and Implementing Watershed Management Plans (ACR 841)
- Watershed Assessment and Tools (CSUS 842)