

Zachary D. Hansmann, M.S., CSP, CHMM, ARM

Construction safety expert with specialty experience in risk management and owner-contractor engagement

East Lansing, MI 48823

(517) 980-3670

hansmann@msu.edu

WORK EXPERIENCE:

Adjunct Faculty – Construction Management

August 2019 – Present

Michigan State University

School of Planning Design and Construction

E. Lansing, MI 48824

- Teaching graduate and undergraduate students in the Construction Management program at SPDC
- Courses taught include:
 - CMP 401 – Construction Safety Management
 - CMP 101 – Principles of Construction Management

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
- Lead EHS staff subject matter experts' participation in university project review and design
- Support owners' project managers through onsite walkthroughs and compliance audits
- Track real time contractor safety performance through data collection
- Support identifying and providing solutions for construction and environmental hazards.

Principal

September 2016 – Present

The Hansmann Group

E. Lansing, MI 48824

- 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
- Speak at local, state, and national industry conferences to raise awareness of safety management challenges
- Develop manuals, guidelines, procedures, and other program documents for owners and contractors

Construction Safety Manager

September 2013 – March 2019

Michigan State University

Facility for Rare Isotope Beams (FRIB)

E. Lansing, MI 48824

- Oversee construction safety for the 730-million dollar US Department of Energy funded nuclear physics project
- Present construction safety performance to external auditors and reviewers from federal funding agency
- Develop and operate a behavior based leading indicator program to evaluate construction manager 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

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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

EDUCATION:

Doctor of Philosophy (Ph.D.) Candidate

Planning, Design, and Construction

Dissertation Title: The Owner's Role in Contractor Safety Management: A Pattern Language
2015 – Present

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

No. 11819

American Institute of Constructors
Alexandria, VA 22314

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PROFESSIONAL AFFILIATIONS:

American Society of Safety Professionals (ASSP)

Professional Member, No. 10048127
Construction Practice Specialty Member

Mid-Michigan Chapter

Michigan Safety Conference

Executive Secretary/Treasurer (2019-2020)
Board of Directors (2017-Present)
Arrangements Committee Chair (2016 - Present)
Construction Division Member (2015 - Present)

Michigan Association of Hazardous Materials Professionals (MI-AHMP)

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)
- Guest Lecturer for *CMP 401 Construction Safety* in the MSU School of Planning, Design, and Construction
- 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)

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 Engineers, 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

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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*

OSHA 10 Hour General Industry Safety Outreach Training
No. 36-600783665

*MSU Residential Hospitality Services
East Lansing, MI 48825*

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)
- Occupational Health and Safety in Public Health (HM 858)
- Environmental Toxicology (EVSP 594)
- Construction Management Research Seminar (CMP 892)
- Economics of Environmental Resources (AEC 829)
- Structural Systems (CMP 322)
- Statics and Strengths of Materials (CMP 222)
- Construction Surveying (CMP 315)
- Commercial Construction (CMP 210)
- Watershed Concepts (ESA 452)
- Building and Implementing Watershed Management Plans (ACR 841)
- Watershed Assessment and Tools (CSUS 842)
- Construction Management Independent Study (CMP 890)