

Conference Brochure

2024 (3rd) Construction Safety Conference



NCCS

The Craig and Diane Martin
NATIONAL CENTER FOR
CONSTRUCTION SAFETY

Chien-Ho Ko and Sumanth Kumar Lingabathini

July 24-25, 2024 | Burge Union, Lawrence, Kansas

2024 (3rd) Construction Safety Conference, Lawrence, Kansas, USA

July 24 – 25, 2024

Conference Brochure

2024 (3rd) Construction Safety Conference

Chien-Ho Ko and Sumanth Kumar Lingabathini

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Emergency Procedures: Burge Union

Date: 07/24/2024 and 07/25/2024

An emergency is a situation that poses an immediate risk to health, life, property, or the environment. Emergencies catapult us out of our routine operations.

In the event of an emergency that requires an evacuation from the union, you will hear the fire alarms ring. This indicates that you must leave the building. The following evacuation procedures will help us react in an organized manner.

Things to remember:

- In the event of a fire, do not use the elevators.
- Fire extinguishers and fire alarm pulls are located throughout the forums in the Burge Union; see the maps below for their exact locations.
- In the maps below, red arrows indicate emergency exits.
- Use the first route for evacuation. If the first route is blocked, use the second route.
- Emergency exits, fire extinguishers, and fire alarm pulls in the Archives are accessible.
- After evacuating the forums, report to the designated assembly area.
- Stay in your designated outdoor assembly area for a head count.
- Report any missing individuals and last known locations to emergency responders.
- Notify emergency responders about sensitive research, operating equipment, animals left in buildings, etc.
- Wait for instructions from emergency responders

MEDICAL EMERGENCY

Lawrence Memorial Hospital is the premiere health care provider for the residents of Douglas County. It is located approximately 2.5 miles from LEEP2 via Iowa St. at the following address:

325 Maine Street, Lawrence, Kansas 66044

The hospital has an emergency room and can be reached at **(785) 505-5000**

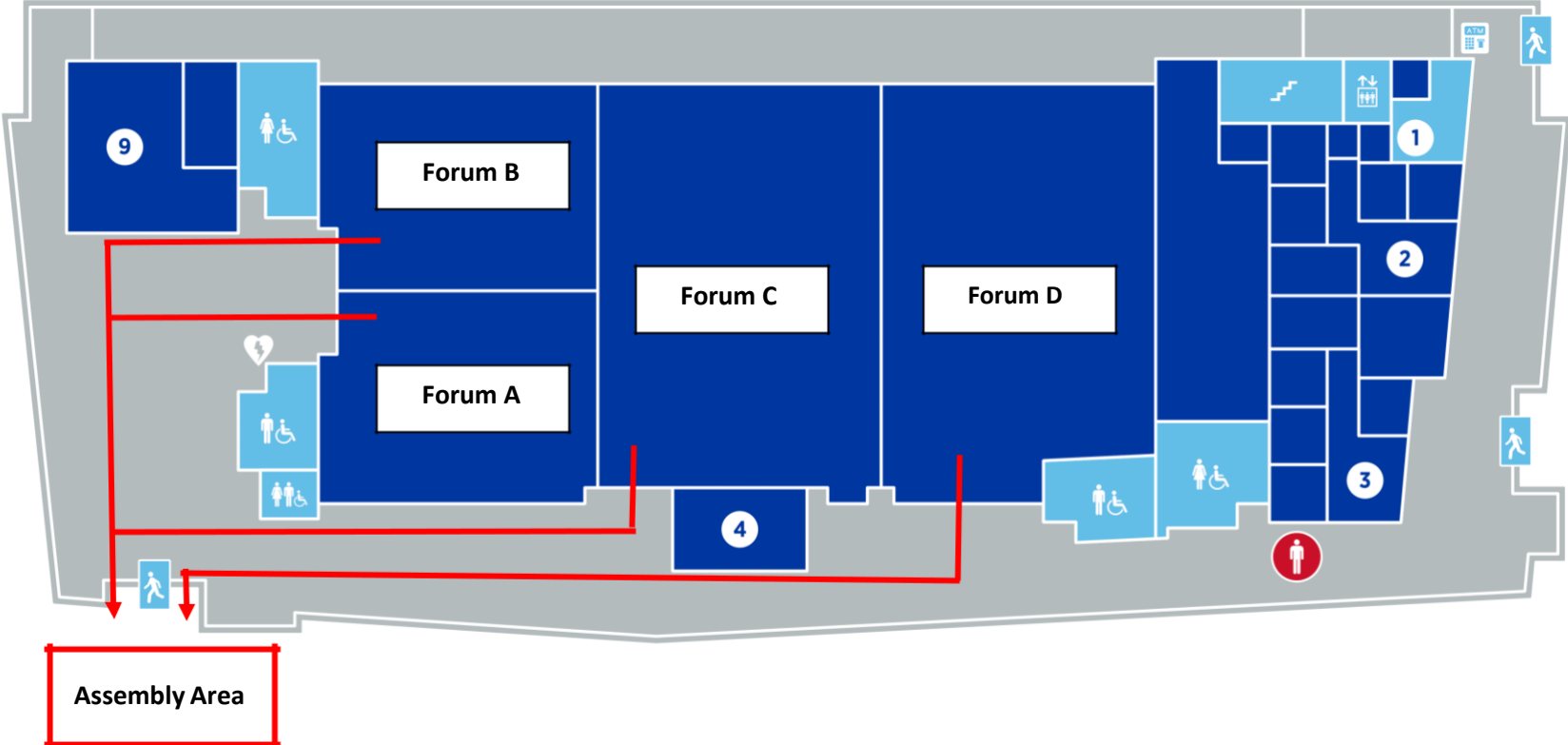
KU'S POLICE DEPARTMENT

The KU patrol unit delivers most of the required police services to the KU community. Police Officers are on duty 24 hours a day, seven days a week.

Public Safety Bldg, 1501 Crestline Dr, Lawrence, KS 66045

The department can be contacted at (785) 864-5900 for non-emergency questions, services, and information. For police, fire, or medical emergency response, call **911**.

The Burge Union Building Directory





NCCS
The Craig and Diane Martin
 NATIONAL CENTER FOR
 CONSTRUCTION SAFETY

2024 (3rd) Construction Safety Conference

National Center for Construction Safety

University of Kansas

Venue: Burge Union, KU (Address: 1565 Irving Hill Rd, Lawrence, KS 66045)

Agenda

July 24, 2024 (Wednesday)

	Forum D
17:30	<p><u>Opening Address & Safety Moment</u></p> <p><i>Chair: Chien-Ho Ko</i> Director, Craig and Diane Martin National Center for Construction Safety; Research Professor, University of Kansas</p>
17:35	<p><u>Cocktail & Welcome Dinner</u></p> <p><i>Chair: James Robles</i> Vice President, National Safety Director, JE Dunn Construction</p> <p><u>Keynote Speech -The Role of Senior Leadership in Creating a Safety Culture and Addressing the Current Mental Health Crisis in Construction</u></p> <p><i>Keynote Speaker: Mike Schneider</i> Senior VP, CPO, Baker Concrete Construction (Retired); President, Michael Schneider Consulting, LLC</p>

July 25, 2024 (Thursday)

08:00	<u>Breakfast</u> Forum C	
09:00	<p><i>Chair:</i> Dan Smolik Vice President, Garney Construction</p> <p><u>Keynote Speech - Prevention through Design (PtD)</u></p> <p><i>Keynote Speaker:</i> Georgi Popov Professor and Chair, Occupational Risk and Safety Sciences Department, University of Central Missouri</p>	
09:40	<u>Practical Application Session</u> Forum A	<u>Knowledge Generation Session</u> Forum B
	<p><i>Chair:</i> Phuong Nguyen Assistant Professor, South Dakota State University</p> <p><u>Hard Hats to Helmets – Understanding the Technology of Head Protection</u></p> <p><i>Speaker 1:</i> Matthew Henderson Safety Specialist – Upper Midwest, Milwaukee Tool</p> <p><u>Safety metrics: Reliable data or unintentional deception?</u></p> <p><i>Speaker 2:</i> Matthew P. Koss Director of Corporate Safety, ECS Corporate Services LLC</p>	<p><i>Chair:</i> Paul Ziegler Vice President of Safety, Allan Myers</p> <p><u>Managing Risks in Tertiary Education Building Projects: Insights from Construction Stakeholders</u></p> <p><i>Speaker 1:</i> Deborah Oluwafunke Adedokun Doctoral Researcher, University of Newcastle, Australia</p> <p><u>A Multi-Output Regression Approach to Predicting Gender-Centric Workplace Fatal Accidents</u></p> <p><i>Speaker 2:</i> Uttam Kumar Pal Doctoral Researcher, University of Wyoming</p>
11:00	Break	
11:10	<p><i>Chair:</i> Adeeba A. Raheem Associate Professor, University of Texas at El Paso</p> <p><u>Leading HSE at a New Company</u></p>	<p><i>Chair:</i> John Smith Executive Vice President of Construction, Alberici</p> <p><u>Demographic Factors Mediating Organizational Commitment and</u></p>

	<p>Speaker 1: Michael L. Dunaway, Jr HSE Director, Kinley Construction</p> <p><u>Naloxone: Adopting a Critical Workplace Emergency Preparedness Tool</u></p> <p>Speaker 2: Janice Hartgens Vice President, Respond Ready Workplace, National Safety Council</p>	<p><u>Safety Performance at Ovid Construction</u></p> <p>Speaker 1: Eshetie Berhan Associate Professor, Addis Ababa University, Ethiopia</p> <p><u>Evaluation of Factors that Impede the Use of C4.0 Technologies for Construction Safety Management</u></p> <p>Speaker 2: Vikram Bhadauria Department Chair, Texas A&M University</p> <p><u>Occupational Health and Safety Hazards in Masonry Work in Sharjah city</u></p> <p>Speaker 3: Mohammad Miftaur Rahman Khan Khade Associate Professor, University of Sharjah</p>
12:30	<p><u>Lunch</u> Forum C</p>	
13:30	<p>Chair: Brian Lines Associate Professor, University of Kansas</p> <p><u>Safety and Human Resources Partnership to Improve Your Workers Experience</u></p> <p>Speaker 1: Jim wright Director of Environmental, Health, Safety, and Security / Senior Principal, Terracon</p> <p><u>Building a Culture of Safety Excellence: Best Practices, Metrics, and the Intangibles</u></p> <p>Speaker 2: Rob Miller Vice President of Safety, Keeley Construction</p>	<p>Chair: Eric Zuhlke Regional EHS Manager of Americas Data Center Construction, Google</p> <p><u>Organizational Elements that Shape Construction Employees' Approach and Behavior Towards OSH</u></p> <p>Speaker 1: Vikram Bhadauria Department Chair, Texas A&M University</p> <p><u>Tackling Challenges in Implementing Behavior-Based Safety (BBS): Construction Safety Culture Focus</u></p>

	<p><u>What Do We Do Now?! – How To Handle an OSHA Inspection</u></p> <p>Speaker 3: Michael Metz-Topodas Partner, Saul Ewing LLP</p>	<p>Speaker 2: Ahmed Al-Bayati Associate Professor, Lawrence Technological University</p> <p><u>Lean Practice Techniques for Safer Off-Site Construction in Malawi</u></p> <p>Speaker 3: Wakisa Simukonda Lecturer, Malawi University of Business and Applied Sciences (MUBAS)</p>
15:00	Break	
15:10	<p>Chair: Ahmed Al-Bayati Associate Professor, Lawrence Technological University</p> <p><u>Safety Training and Education</u></p> <p>Speaker 1: John Farrell HSE Training Manager, Allan Myers</p> <p><u>Rethinking Construction Safety: How AI Is Transforming Craft Engagement, Leadership and Culture</u></p> <p>Speaker 2: Barry Nelson CEO & President, FactorLab</p>	<p>Chair: Md Nazmus Sakib Assistant Professor, University of Texas at Arlington</p> <p><u>Utilizing BIM to Enhance Construction Safety for High-Rise Buildings: A Proactive Risk Assessment Approach</u></p> <p>Speaker 1: Dhyey Dinesh Gondalia Graduate Researcher, Nirma University, India</p> <p><u>Evaluating Stakeholder Awareness and Prioritizing Applications of UAVs Technology for Construction Safety Management</u></p> <p>Speaker 2: Dilip A. Patel Professor, Sardar Vallabhbhai National Institute of Technology (SVNIT), India</p> <p><u>Human-AI Partnership to Improve Construction Workers' Experience on Safety, Performance, and Health: A Systematic Review of the North American Construction Industry</u></p>

		<i>Speaker 3: Md Nazmus Sakib</i> Assistant Professor, University of Texas at Arlington
16:30	<u>Social Hour/Networking</u> Forum C	
17:00	Adjourn	

Keynote Speakers

Mike Schneider

CSC2024 Keynote Speaker
Senior VP, CPO, Baker Concrete Construction (Retired)
President, Michael Schneider Consulting, LLC



Biography

Mike Schneider grew up on the West side of Cincinnati, and then went on to obtain a BS in personnel management from Miami University of Ohio and a BS in construction management from the University of Cincinnati. He began his 45-year career at Baker Concrete as a Project Manager in 1978 and recently retired as Senior Vice President and Chief People Officer. Mike is a past President of the American Concrete Institute (ACI) and the American Society of Concrete Contractors (ASCC). He currently resides in Albuquerque, New Mexico and is President of Michael Schneider Consulting, LLC.

Georgi Popov

CSC2024 Keynote Speaker

Presentation Topic: Prevention through Design (PtD) for Hazards in Construction

Professor and Chair, Occupational Risk and Safety Sciences Department, University of Central Missouri



Biography

Georgi Popov, Ph.D., CSP, QEP, SMS, ARM, CMC, FASSP,FAIHA is the chair of Occupational Risk and Safety Sciences at UCM. Popov holds a Ph.D. from the National Scientific Board, an M.S. in Nuclear Physics from Defense University in Bulgaria and a post-graduate certification in environmental air quality. He graduated from the U.S. Army Command and General Staff College in Fort Leavenworth, KS. For his service with the United Nations mission in Cambodia he was awarded a UN medal.

Popov is the chair of ANSI/ASSP Z590.3, vice chair of ISO 31000 U.S. TAG, a professional member of ASSP's Heart of America Chapter and a member of the Society's Risk Management/Insurance Practice Specialty. In 2017, Popov received ASSP's Outstanding Safety Educator Award.

He is coauthor of Assessing and Managing Risk - An ERM Perspective; Risk Management Tools for Safety Professionals; and Risk Assessment - A Practical Guide to Assessing Operational Risk.

In 2022 Dr. Popov was awarded the NIOSH Prevention through Design Pioneer award.

Session Chairs

Chien-Ho Ko

CSC2024 Session Chair
Research Professor
Director of the Craig and Diane Martin National Center for
Construction Safety



Biography

Dr. Chien-Ho Ko currently serves as a Research Professor in the Department of Civil, Environmental & Architectural Engineering and the Director at the Craig and Diane Martin National Center for Construction Safety at the University of Kansas (KU). Prior to KU, he was a full Professor of Civil Engineering, a visiting scholar at MIT, and a postdoctoral researcher at the University of California at Berkeley. Dr. Ko received his Ph.D. in Construction Management and is currently pursuing a second Ph.D. in Architectural Design at Clemson University, SC. A registered Professional Engineer of Fire Protection, he has previously served as a project manager for design-build projects. Prof. Ko has been conferred numerous academic awards, including best paper, outstanding professor, research, and teaching awards. He has published over 40 refereed journal papers, 70 conference papers, and acts as the Editor-in-Chief of the Journal of Engineering, Project, and Production Management (Scopus and Ei indexed). He also has participated as a Principal Investigator in over 40 research projects. Additionally, he is an inventor with more than 30 patents. Dr. Ko has served as a president for several institutes, including the ASCE Kansas Section, Taiwan Lean Construction Institute, Taiwan Industrial Robot Association, and the Association of Engineering, Project, and Production Management.

Dan Smolik

CSC2024 Session Chair
Director at Garney Construction



Biography

Dan joined Garney in 2000 following his graduation from Missouri Western State University with a degree in construction engineering technology. He spent 20 years managing and leading Garney's pipeline operations in Florida. This experience gives Dan a broad-based operational perspective, combining both management and organizational skills to provide solutions to non-insurance-related business risk issues.

Based in Garney's Winter Garden, Florida, office, Dan promotes Garney's strong safety culture through leading safety trainings and educating employees across the country on how to uphold our safety standards. Within the company, he chairs both the Safety Council and Risk Management Council.

A hallmark of Dan's professional journey has been his unwavering commitment to a formidable work ethic, a trait that was instilled in him from an early age and has proven instrumental in thriving within an employee-owned company.

In his free time, Dan enjoys traveling and supporting his daughter in club soccer. He enjoys house projects and most anything that involves the outdoors.

Phuong Nguyen

CSC2024 Session Chair

Affiliated Researcher

Assistant Professor, Department of Construction and Operations Management, South Dakota State University.



Biography

Dr. Phuong Nguyen is an Assistant Professor in the Department of Construction and Operations Management, Jerome Lohr College of Engineering, at South Dakota State University (SDSU). Prior to being at SDSU, he worked as a Postdoctoral Researcher in the Department of Civil and Environmental Engineering at the University of Alberta, Canada. He is an Affiliated Researcher at the Craig and Diane Martin National Center for Construction Safety at the University of Kansas.

His research interests include utilizing artificial intelligence (machine learning, reinforcement learning, computer vision, and fuzzy logic), wearable sensors, extended reality, Building Information Modeling, and simulation to improve construction planning, safety, and productivity, and developing data-driven decision-support models to enhance project delivery processes for highway and airport construction projects.

Dr. Nguyen possesses a Ph.D. in civil engineering with a specialization in construction engineering and management from the University of Kansas along with a master's degree in construction management from California State University, East Bay, and a bachelor's degree in civil engineering from Vietnam National University, Ho Chi Minh City University of Technology. While earning his bachelor's, he worked as a project engineer intern with an architecture and construction firm for three years.

Paul Ziegler

CSC2024 Session Chair
SHRM-SCP, Vice President, Safety at Allan Myer



Biography

Paul joined Allan Myers in 1986 as a laborer and held positions in Estimating, Operations and Human Resources. His past experiences led him to his current role as Vice President, Safety. Paul is the lead of all Home Safe Tonight strategies for the company.

Paul is responsible for the development and implementation of the Allan Myers safety standards along with managing and leading a staff of 50 HSE professionals who collaboratively work with Operations to build a safety culture and who believe in incident and injury - free. Paul is a member of the Allan Myers Senior Leadership Team and also a partner leading the Safe Operations Leadership Team.

Adeeba A Raheem

CSC2024 Session Chair
Associate Professor Civil Engineering
University of Texas at El Paso



Biography

Dr. Raheem joined the department of Civil Engineering at University of Texas at El Paso (UTEP) in 2014. She received her PhD in Construction Management from the University of Florida (UF). She holds multiple master's degrees in Building Construction, Environmental Engineering and Civil Engineering from UF.

John Smith

CSC2024 Session Chair
Vice President & Market Leader, Energy & Industrials and
Renewables at Alberici



Biography

As Vice President & Market Leader, Energy & Industrials and Renewables at Alberici, John Smith leads the Energy & Industrials and Renewables markets and our Integrated Project Support Services. Having worked for Alberici for the past sixteen years across multiple service lines and geographic regions, John brings a broad background of construction experience. Prior to Alberici, he spent ten years with a nationally recognized engineering firm that provided him with valuable experience that allows him to provide great insight and contributions to our design-build and EPC projects.

John has a bachelor's and master's degree in civil engineering from Missouri University of Science & Technology. He serves on the Board of Trustees at Missouri University of Science & Technology and is the chair of their Career Development Council. He also serves on the Board of Directors for the Missouri Consortium for Construction Innovation (MO-CCI) and the National Center for Construction Safety at the University of Kansas.

John and his wife, Alicia, live in Edwardsville, IL and have three sons, Kyle, Ryan and Drew. They enjoy spending time with their sons many sporting activities.

Brian Lines

CSC2024 Session Chair
Associate Professor, Department of Civil, Environmental &
Architectural Engineering



Biography

Dr. Lines is an assistant professor in Construction Management in the Civil, Environmental & Architectural Engineering Department (CEAE) in the School of Engineering at the University of Kansas. He specializes in alternative procurement, competitive proposal preparation, alternative contracting methods, risk management, project delivery, and performance measurement. He has extensive experience on the owner side (procurement & operations) of design/engineering, construction, facilities, and non-construction projects valued at more than \$989 million. In addition to all types of design and construction project delivery, he has led project efforts in IT (software & analysis) and business services (book store services, travel management, purchase cards, etc.). Brian possesses a Bachelor of Science degree in Chemical Engineering and a Masters and PhD in Construction Management, all from Arizona State University. He also holds a Facility Management Professional (FMP) designation and is active in continuing education seminars/short courses for professionals internationally.

Ahmed Al- Bayati

CSC2024 Session Chair
Associate Professor, Department of Civil and Architectural
Engineering, Lawrence Technological University



Biography

Dr. Al-Bayati is the founding director of the Construction Safety Research Center (CSRC) and an associate professor in the Department of Civil and Architectural Engineering. He actively researches in the field of construction safety, specializing in safety climate and safety culture to improve the overall site safety and construction process optimization to minimize subsurface utility strikes. He uses a variety of qualitative and quantitative data collection, data analysis, and data mining methods.

Dr. Al-Bayati's research findings have been published in the American Society of Civil Engineers' (ASCE) Journal of Construction Engineering and Management, ASCE's Practice Periodical on Structural Design and Construction, National Safety Council's (NSC) Journal of Safety Research, and the American Society of Safety Professionals' (ASSP) Professional Safety Journal. Dr. Al-Bayati serves on many local and national committees. Dr. Al-Bayati has more than ten years of experience in the construction industry working in diverse areas of the field, from safety coordinator to site engineer. He is a certified professional engineer (PE) in Michigan, an OSHA-authorized trainer, and an Associate DBIA certified.

Md Nazmus Sakib

CSC2024 Session Chair

Human-AI Partnership to Improve Construction Workers' Experience on Safety, Performance, and Health: A Systematic Review of the North American Construction Industry



Biography

Dr. Md Nazmus Sakib is an Assistant Professor in the Department of Civil Engineering and the Department of Computer Science and Engineering (courtesy) at The University of Texas at Arlington (UTA). Before joining UTA, Dr. Sakib was an Instructional Assistant Professor in the Department of Construction Science at Texas A&M University, teaching courses related to Building Information Modeling (BIM) and Machine Learning (ML). His experience and interest are focused on interdisciplinary research, teaching, and collaboration. He has completed his Ph.D. in Interdisciplinary Engineering, primarily focusing on artificial intelligence, data analytics, human factors, and construction. He also holds a master's degree in Construction Management from Texas A&M University and an undergraduate degree in Civil Engineering from Bangladesh University of Engineering and Technology.

His research goal is to apply interdisciplinary knowledge and skillset to understand and advance the human-technology frontier to benefit future development towards a sustainable and resilient Architecture, Engineering, and Construction (AEC) industry.

Before joining academia, Dr. Sakib was involved in infrastructure design and construction industry for more than four years. During this period, he was involved with the detailed design and drawing of several high-rise building structures, warehouses, towers, and power plant infrastructure.

Speakers

Matthew Henderson

CSC2024 Speaker

Presentation Topic: Hard Hats to Helmets – Understanding the Technology of Head Protection

Safety Specialist – Upper Midwest, Milwaukee Tool



Biography

Mr. Henderson was selected to support the safety team at Milwaukee Tool earlier in 2024 to be responsible for managing the performance of teams under the general contractor vertical. Mr. Henderson brings 14 years of experience in the construction trades from working as a IBEW electrician in the field to being a sales consultant for Stanley Black and Decker and Milwaukee Tool. Mr. Henderson has created a reputation of being obsessed and being an empowered leader, both of which qualities exemplify the company's culture.

Mr. Henderson has helped multiple companies improve their safety efforts through increased engagement in incident prevention and supporting of positive safety culture. This has been shown through continued communication and efforts within his local market. Mr. Henderson is a graduate of Columbia College and is an active member in the local chapters of ABC, MCA, and NEC

Matthew P. Koss

CSC2024 Speaker

Presentation Topic: Safety metrics: Reliable data or unintentional deception?

Director of Corporate Safety, ECS Corporate Services LLC



Biography

Matthew P. Koss is the Director of Corporate Safety at ECS Corporate Services LLC., a leader in geotechnical, construction materials, environmental and facilities engineering located in Chantilly, VA. He is a published author and member of the American Society of Safety Professional's Chesapeake Chapter. He's holds a Masters in Advanced Safety Engineering and Management from the University of Alabama at Birmingham and also earned a Bachelor of Science in Safety Management from Slippery Rock University of Pennsylvania. Koss has over 15 years of hands-on, occupational health and safety experience, and is the owner of Capitol Safety Professionals LLC., a safety consulting company.

Deborah Oluwafunke Adedokun

CSC2024 Speaker

Presentation Topic: Managing Risks in Tertiary Education
Building Projects: Insights from Construction Stakeholders.



Biography

Deborah is currently a doctoral researcher and seasonal academic at the School of Architecture and Built Environment, College of Engineering, Science and Environment at the University of Newcastle, New South Wales, Australia. Previously, she served as a lecturer in the Department of Building and Quantity Surveying at Joseph Ayo Babalola University in Ikeji-Arakeji, Nigeria. A distinguished researcher, Adedokun's work spans numerous peer-reviewed journals and international publications. Her contributions to conference proceedings are significant and well-regarded in her field. Additionally, she is affiliated with GBM-AJE KONSULT Associates, a firm specializing in Quantity Surveying and Project Management services for construction projects.

Uttam Kumar Pal

CSC2024 Speaker

Presentation Topic: A Multi-Output Regression Approach to Predicting Gender-Centric Workplace Fatal Accidents.



Biography

He is pursuing his Ph.D. in Civil Engineering focusing on Construction Management at the University of Wyoming, USA, and working with a dynamic research group led by Prof. Dr. Charlie Zhang in the Construction Innovation & Research Lab. He has a bachelor's degree in civil engineering from Tribhuvan University, IOE Pulchowk Campus, Nepal. He also has experience in working with the government as well as private sector contractors in the field of building construction and highway/pavement engineering. He is actively involved in researching safe, efficient, economical, and sustainable construction techniques and methodologies. His focus encompasses various safety perspectives in construction projects, including worker and workplace safety, environmental safety, and public or societal safety

Michael L. Dunaway, Jr., CSP

CSC2024 Speaker

Presentation Topic: Leading HSE at a New Company

HSE Director, Kinley Construction



Biography

Currently serves as the HSE Director for Kinley Construction Group. Prior to joining Kinley Construction, held several positions in HSE with Team Industrial Services and Siemens Energy. Served as a Captain in the United States Army as a UH-60 Blackhawk pilot.

Janice Hartgens

CSC2024 Speaker

Presentation Topic: Naloxone: Adopting a Critical Workplace
Emergency Preparedness Tool

RN, MPH Vice President, Respond Ready Workplace, National
Safety Council



Biography

Janice joined the Council in July 2023, Janice is a registered nurse executive with over 30 years of management and leadership experience in both the hospital environment, and transportation industry. Since joining the Council, Janice has taken on the responsibility of leading the effort to get naloxone into every workplace in America.

Prior to joining NSC, Janice was retired after working 30 years for UPS. Her last assignment at UPS was Vice President of Operations Safety, where she oversaw the development of specific strategies, processes, and procedures to help UPS achieve organizational objectives for U.S. Small Package Operations. Over her 30-year career with UPS Janice had various assignments in Occupational Health, Labor Relations, and Operations.

Janice received her diploma in nursing from the Ann May School of Nursing in New Jersey, her undergraduate degree in Business from St. Joseph's College in Standish Maine, and her Master of Public Health from the University of North Carolina Chapel Hill.

Eshetie Berhan

CSC2024 Speaker

Presentation Topic: Demographic Factors Mediating Organizational Commitment and Safety Performance at Ovid Construction.



Biography

Eshetie Berhan is an Associate Professor of Industrial Engineering at Addis Ababa University, Ethiopia, holding a Ph.D. in Mechanical Engineering with a specialization in Industrial Engineering. His academic journey includes multiple degrees: an MSc in Industrial Management, an MSc in Management, Economics, and Consumer Studies, a BSc in Computer Science, a BSc in Industrial Engineering, a BA in Theology, and an MTA in Theology.

Since 2016, he has been an Associate Professor at Addis Ababa Institute of Technology, having served as an Assistant Professor from 2013 to 2016. Berhan is a fellow member of the Ethiopian Science Academy and a founding member of the Ethiopian Industrial Engineering Association. His prolific publication record includes over 43 journal papers, 15+ conference papers, 20+ edited conference proceedings, a book chapter, and two books.

His research spans Industrial, Mechanical, System, and Manufacturing Engineering, focusing on occupational safety, socio-economic impact assessment, fertilizer production, and logistics. He is highly skilled in computer programming, database management, simulation software, statistical analysis, and various technical and managerial domains. As an expert-level trainer, he specializes in discrete event simulation, data analysis, project management, and innovation management.

Additionally, Berhan holds numerous professional certifications and has been active on technical committees and strategic planning efforts related to quality assurance and higher education in Ethiopia.

Vikram Bhadauria

CSC2024 Speaker

Presentation Topic: Evaluation of Factors that Impede the Use of C4.0 Technologies for Construction Safety Management.

Presntation Topic: Organizational Elements that Shape Construction Employees' Approach and Behavior Towards OSH.



Biography

Vikram S. Bhadauria is the chair of the information systems and computing technologies division in the College of Business, Engineering, & Technology at Texas A&M University, Texarkana. He received his Ph.D. in information systems from the University of Texas at Arlington. His current research includes cyber security, data analytics, sustainability, Internet of Things, and self-driving technology adoption. His research publications have appeared in the Journal of the Association for Information Systems, Journal of Database Management, Computers in Human Behavior, Information and Computer Security, Industrial Management & Data Systems, International Journal of Productivity and Quality Management, Management Research Review, Supply Chain Management: An International Journal, etc. He has also won many research grants and presented papers at several international conferences

Jim Wright

CSC2024 Speaker

Presentation topic: Safety and Human Resources Partnership to Improve Your Workers Experience

Director of Environmental, Health, Safety, and Security / Senior Principal for Terracon Consultants, Olathe, Kansas



Biography

Bachelor's degree, Chemistry and Master's, Industrial Hygiene

Began a career in the drilling industry in 1991 as a project safety officer for safety and environmental monitoring on Superfund sites for an international drilling contractor. This work took him to some of the most highly contaminated sites in the United States.

Career evolved into managing all aspects of safety, health, environment, and fleet management for worldwide drilling operations. Jim has designed and implemented world class safety systems for drilling operations in the US, Africa, Australia, Mexico, Canada, and South America.

MSHA-certified underground and surface mining instructor; American Red Cross-certified infant, child, and adult first aid / CPR instructor; OSHA-approved 10- and 30-hour construction safety trainer; and performance, off-road, and Smith System® driving instructor.

Currently sits on the National Drilling Association Safety Committee and held past positions as Chairperson / Member on the National Groundwater Association's Professional Development, Safety Subcommittee.

2012 Safety Advocate Award by the National Groundwater Association.

Rob Miller

CSC2024 Speaker

Presentation Topic: Building a Culture of Safety Excellence:

Best Practices, Metrics, and the Intangibles

VP of Safety, Keeley Construction



Biography

Rob Miller began his career in safety in 1996 upon graduating from Murray State University - GO RACERS!!! - with a BS in Occupational Safety and Health. Rob spent his first years with a St. Louis based construction company working in oil refineries and chemical plants throughout the country. He spent the next stint of his career in the utility industry supporting generation, transmission and energy delivery services as well as leading the safety management effort with the company's contractor work forces. For the last five years he has been back on the contractor side with Keeley Construction leading the safety efforts of their heavy civil, building, industrial and paving groups. He holds the Certified Safety Professional, Occupational Hygiene and Safety Technician, Certified Utility Safety Professional, Certified Instructional Trainer and Certified Safety Consultant designations.

Rob has amassed over 1500 hours over the last eleven years training and educating apprentices, experienced craft personnel, management, owners and his safety professional peers imparting knowledge on safety protocols, risk assessment, and best practices.

Rob is an active member of the St. Louis Chapter of the American Society of Safety Professionals and has been the Chair of their Scholarship and Foundation Committee for the past decade. He also sits on the SLC3 (St. Louis Council of Construction Consumers) Health and Safety Committee and is actively involved with the AGC of Missouri.

At the heart of Rob's world is his cherished family—a loving wife - Susan, and their four children - Megan, Colton, Payton and Emma (Lou) of whom he could not be prouder. In essence, Rob Miller is not merely a safety professional, but a leader dedicated to shaping the future of safety practices in the industry.

Michael Metz-Topodas

CSC2024 Speaker

Presentation Topic: What Do We Do Now?! – How To Handle an OSHA Inspection



Biography

Michael Metz-Topodas is a partner in the Construction Group at Saul Ewing. His practice includes OSHA compliance and citation defense, as well as construction litigation, day-to-day project and claims counseling, and construction contract review and drafting. He has handled a range of OSHA-related matters—including hearings before the Occupational Safety & Health Commission, informal conferences, demands for corrective actions, and responses to investigation requests—for both construction and industrial clients. Mr. Metz-Topodas also represents general contractors, subcontractors, owners, designers, and suppliers on private, public, and federal projects in matters involving all varieties of construction disputes in multiple federal and state jurisdictions and ADR forums.

Ahmed Al – Bayati

CSC2024 Speaker

Presentation Topic: Tackling Challenges in Implementing Behavior-Based Safety (BBS): Construction Safety Culture Focus.



Biography

Dr. Al-Bayati is the founding director of the Construction Safety Research Center and an associate professor at Lawrence Technological University (LTU). Previously, he was an assistant professor at Western Carolina University's Kimmel School of Construction Management. His research focuses on construction safety, particularly safety climate, safety culture, and minimizing subsurface utility strikes. He employs various data collection and analysis methods.

His work has been published in several prestigious journals, including the ASCE Journal of Construction Engineering and Management, the NSC Journal of Safety Research, and the ASSP Professional Safety Journal. Dr. Al-Bayati serves on multiple committees, such as the ASCE's Site Construction Safety Committee, the NORA Construction Sector Council, and as an editor for ASCE's Practice Periodical on Structural Design and Construction. He is also a member of the TRB's Standing Committee on Utilities and the ASSP's Prevention Through Design Standard committee.

Dr. Al-Bayati is a certified professional engineer in Michigan, an OSHA-authorized trainer, and an Associate DBIA™ certified. He has received the 2024 Outstanding Civil Engineer of the Year award by the ASCE Michigan chapter and the 2021 Thomas Glavinich Early Career Award by ELECTRI International.

John Farrell

CSC2024 Speaker
Presentation Topic: Safety Training and Education
HSE Training Manager, Allan Myers



Biography

John Farrell started in the construction industry when he was 14 years old, mostly for pocket money in the summertime. He worked for Myers as a general laborer for 3 summers while in school. Once finished with college, He chose to stay in construction and transitioned to full-time at Myers on a concrete crew where I worked for 4 years.

In 1994 he had the opportunity to start his own concrete construction business. Had some ups and downs, mostly downs, with turns in the housing market in the late 90's and wound up working for a local concrete company as a plant operator for 5 years.

In 2003 he returned to Allan Myers as a general laborer again, for a short while, then eventually got into a Field Manager role where he ran a crew for about 4 years.

In 2007, He was interviewed and was given the opportunity to join the safety department at Allan Myers. For the next 10 years, He was a HSE Manager working on Allan Myers project sites and working with Allan Myers' project teams to plan and implement safety into the work face. In those 10 years he worked on projects ranging from \$200,000 – \$2,000,000. Small road widening projects that finished up in a couple months to major highway projects that took several years to complete.

In 2016 he was asked to take on the role of HSE Training Manager. In the training manager role, He was responsible for writing and facilitating current compliance safety training classes, and also making sure other HSE trainers are delivering the same consistent message across the company footprint.

Barry Nelson

CSC2024 Speaker

Presentation Topic: Rethinking Construction Safety: How AI Is Transforming Craft Engagement, Leadership and Culture
CEO & President, FactorLab



Biography

Barry Nelson is a seasoned entrepreneur and currently serves as the President and CEO of FactorLab, the provider of the popular and rapidly growing safety leading indicator application SmartTagIt, which has been used by field professionals across dozens of enterprises over 2.8 million times in the last four years. With over 20 years of experience at the intersection of incident prevention and technology, Mr. Nelson and his teams have helped hundreds of companies, including Fortune 100s and startups, to utilize emerging technologies, organizational science, and machine learning to significantly reduce accidents and injuries in the workplace.

As a thought leader and researcher, Mr. Nelson is actively working with industry leaders on the opportunity to use workplace conversations, combined with computational linguistics and natural language processing, to identify early indicators of unplanned, potential catastrophic events in the workplace.

Dhyey Dinesh Gondalia

CSC2024 Speaker

Presentation Topic: Utilizing BIM to Enhance Construction Safety for High-Rise Buildings: A Proactive Risk Assessment Approach



Biography

Dhyey Dinesh Gondalia is a civil engineering professional with strong academic credentials and extensive field experience in construction technology and management. He holds a Master's degree in Construction Technology & Management from Nirma University, a Bachelor's in Civil Engineering from Pandit Deendayal Energy University (PDEU), and a Diploma in Civil Engineering from Gujarat Technological University (GTU).

Gondalia has actively contributed to the field of construction technologies through research and conference presentations. Notably, in 2023, he presented his work on "Development of BIM-Based Condition Assessment and Maintenance Management System" at an international conference hosted by IIT Hyderabad and on "Development of Quantity Surveying and Costing Framework Using 5D Building Information Modelling" at a national conference at SVNIT Surat.

His specialization in Building Information Modeling (BIM) is complemented by his expertise in software tools such as Navisworks, Revit, Primavera, and Microsoft Project. He has attended workshops on BIM for construction project management and explored BIM-based safety to integrate risk management and safety improvements into construction processes. His dedication to leveraging advanced technology to enhance construction efficiency and sustainability lays a strong foundation for his future doctoral research pursuits.

Dilip Patel

CSC2024 Speaker

Presentation Topic: Evaluating Stakeholder Awareness and Prioritizing Applications of UAVs Technology for Construction Safety Management.



Biography

Dr. Dilip A Patel is a Professor in the Department of Civil Engineering, Sardar Vallabhbhai National Institute of Technology (SV-NIT) Surat, Gujarat. He possesses 2.5 years industry and 20 years teaching, research, and administrative experience. His specialization is construction project management and research interest areas include construction safety and health, resilience infrastructure, sustainable construction, heritage conservation, and contract management.

He is a Scaffold Trainer certified by Scaffold Training Institute, USA, a Lead Auditor for OHSAS ISO 45001:2018 certified by DNV Norway, and a Road Safety Auditor certified by Ministry of Road Transport and Highway and Indian Road Congress India.

His commitment to advancing these fields is evident in his role as an affiliated researcher at the National Centre for Construction Safety at the University of Kansas, USA and his adjunct professorship at IIT Gandhinagar. Dr. Patel was honoured as a Safety Champion under the Safer End of Engineered Life Champions (SEEL) Programme by the Royal Academy of Engineering, UK, from 2021 to 2023. He also received various scholarships and awards. He guided 04 PhD theses and 50 M Tech dissertations. He published 40 international journal papers and 70 international and national conference papers. He co-authored a text book on Construction Safety Management with Pearson India Education Service Pvt. Ltd. Noida and registered one patent.

He has 16 professional memberships with various organizations including American Society of Safety Professionals USA, National Safety Council of India (NSCI), Navi Mumbai, and India Demolition Association. In his career, he organised 20 short term training programs and workshops, three national conferences, and two international conferences. He always desires to work with new problems and believe in hard and team work.

Md Nazmus Sakib

CSC2024 Speaker

Human-AI Partnership to Improve Construction Workers' Experience on Safety, Performance, and Health: A Systematic Review of the North American Construction Industry



Biography

Dr. Md Nazmus Sakib is an Assistant Professor in the Department of Civil Engineering and the Department of Computer Science and Engineering (courtesy) at The University of Texas at Arlington (UTA). Before joining UTA, Dr. Sakib was an Instructional Assistant Professor in the Department of Construction Science at Texas A&M University, teaching courses related to Building Information Modeling (BIM) and Machine Learning (ML). His experience and interest are focused on interdisciplinary research, teaching, and collaboration. He has completed his Ph.D. in Interdisciplinary Engineering, primarily focusing on artificial intelligence, data analytics, human factors, and construction. He also holds a master's degree in Construction Management from Texas A&M University and an undergraduate degree in Civil Engineering from Bangladesh University of Engineering and Technology.

His research goal is to apply interdisciplinary knowledge and skillset to understand and advance the human-technology frontier to benefit future development towards a sustainable and resilient Architecture, Engineering, and Construction (AEC) industry.

Before joining academia, Dr. Sakib was involved in infrastructure design and construction industry for more than four years. During this period, he was involved with the detailed design and drawing of several high-rise building structures, warehouses, towers, and power plant infrastructure.

Contact

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