



BCAA-IOSH WSH Conference 2025

Shaping the Future of WSH: Innovation, Culture, and Resilience in Built Environment

15 September 2025

9am to 5pm (Singapore Time)

Conducted virtually via Zoom

CONFERENCE PROGRAMME

SG TIME	TOPICS & SPEAKERS
9.00 am	Opening Address Mr. Tan Swee Yiow, Chairman, WSH Council (Construction and Landscape) Committee, Singapore
9.15 am	Enhancing WSH Performance and Productivity Through Technology Mr. Sharul Juma'at, WSHE Manager (Corporate), Hwa Seng Builder Pte Ltd, Singapore
9.50 am	EXPAND Construction's Safety Transformation: Leveraging Technology and Innovation to Build Safety Culture Mr. Richard Tan, Head, EHS Department at EXPAND Construction Pte Ltd, Singapore
10.25 am	Break
10.45 am	Managing Suspended Working Platform Safety: Lessons from Singapore and Hong Kong Ir. Tse Wing Ning, Richard, Director, Allied Rich Asia Limited, Hong Kong. Past Chairman of IOSH Hong Kong
11.20 am	Shaping the Future of Underground Construction Safety: Shanghai Tunnel's Technology-Driven Approach Mr. Henry Ho, Regional WSH Director, Shanghai Tunnel Engineering Co. (S) Pte Ltd, Singapore
11.55 am	Developing H&S Talent Pipeline: Meeting Construction Industry Demands in APAC Region - Mr. Duncan Cooke, Regional Lead for Shirley Parsons, New Zealand & - Mr. Ben Evans, Head of Renewables, SP Clean Energy, New Zealand
12.30 pm	Lunch Break
1.30 pm	Advancing Climate Resilience in Workplace Safety: Adapting HSE Protocols to Rising Environmental Challenges Dr. Neelesh Soggani, General Manager - HSE Training & Development at Altasnim Enterprises LLC and Chair, IOSH Oman Community
2.05 pm	Bridging Silos: Digital Solutions for Integrated Risk Management Mr. JC Sekar, Chief Executive Officer, AcuiZen Technologies, Singapore
2.35 pm	Aligning Technological Innovation with Culture of Care: Keller's Journey to Enhanced Safety and Productivity Mr. Seah Yeow Teck, Director (Singapore), Keller Foundations (SE Asia) Pte Ltd, Singapore
3.05 pm	Break
3.25 pm	Transforming Safety Culture: Integrating Psychological Wellbeing for Enhanced Risk Management Ms. Estella Madna, Global Wellbeing Director at Novartis, Based in Basel, Switzerland
4.00 pm	Beyond Digital Solutions: Human-Centered PSR for Risk Management in Infrastructure Projects Mr. Nawal Jaggi, Risk Management Manager, Koh Brothers Building and Civil Engineering Contractor (Pte.) Ltd, Singapore
4.30 pm	Advancing Safety Culture at Bachy Soletanche: Creating a Thriving, Resilient Workforce Mr. Amriq Ali, HSEQ Manager, Bachy Soletanche Singapore
5.00 pm	End of Conference



The presentation materials are available for download till **30 Sep 2025** at <https://go.gov.sg/wshc2025> or scan QRCode to access.



MR. SHARUL JUMA'AT
WSHE Manager
(Corporate),
Hwa Seng Builder
Pte Ltd
Singapore

Enhancing WSH Performance and Productivity Through Technology

Hwa Seng Builder Pte Ltd, recipient of LTA's prestigious Contractors Champion Shield (ASAC 2024), will explore how advanced technological solutions are transforming workplace safety and health practices in the built environment sector. This presentation demonstrates how innovative technologies enable organizations to effectively mitigate risks, enhance productivity, and adapt to emerging challenges through seamless data integration and strategic decision-making.

While technological advancement drives efficiency, human capital remains fundamental. Our comprehensive training framework encompasses all stakeholders as integral partners in fostering a robust safety culture. Through continuous monitoring of WSH performance, management commitment, and effective reward systems, we maintain accountability while encouraging improvement.

This presentation showcases how technology adoption and workforce engagement create a foundation for a safer, more productive built environment.

Mr. Sharul Juma'at is the WSHE Manager (Corporate) at Hwa Seng Builder Pte Ltd, where he leads the corporate WSHE team overseeing multiple project sites. With over 15 years of experience in high-risk industries and complex projects, he drives company-wide WSHE training and capability development initiatives.

He holds a Master in Engineering Business Management, a Diploma in Engineering Informatics, and is a Certified OHS Management System Lead Auditor. His expertise spans strategic WSHE planning, regulatory compliance, safety culture development, and technology integration for enhanced safety performance. Mr. Sharul specializes in implementing data-driven approaches to WSH management, contributing significantly to the company's achievement of LTA's Contractors Champion Shield at ASAC 2024.



MR. RICHARD TAN
Head, EHS
Department
at EXPAND
Construction Pte
Ltd, Singapore

EXPAND Construction's Safety Transformation: Leveraging Technology and Innovation to Build Safety Culture

The built environment faces significant demands in a rapidly changing world. Addressing health and safety within this sector is critical, and a proactive approach is essential. This involves embedding a strong safety culture while leveraging technology and innovation to anticipate, navigate, and mitigate risks in an increasingly complex and dynamic landscape.

A shared commitment to continuous learning, cross-disciplinary collaboration, and innovative frameworks is paramount. These frameworks must place well-being at the core of design, construction, and operational practices.

At EXPAND Construction, we demonstrate how safety becomes integral to business success when integrated into every decision and action. This commitment ensures a sustainable and resilient built environment for generations to come.

Richard Tan is the Head of EHS Department at EXPAND Construction Pte Ltd, bringing over 29 years of expertise in Workplace Safety & Health within the Built Environment sector. As Corporate EHS Senior Manager, he spearheads the strategic direction and implementation of the company's EHS Management System, ensuring alignment with ISO standards and regulatory requirements.

Under his leadership, EXPAND has garnered 19 WSH Awards, 2 SCAL Innovation Awards, NEA Safety Award, and multiple HDB Safety Awards over six years. He champions the organizational motto 'No Work is More Urgent or Important than Working Safely' and the 3R Safety Principles: Remind, Reward, Remove. Managing and implementing the company's WSH Management System across various projects in Singapore. Mr. Tan actively supports the implementation of WSH technologies and promotes their use among subcontractors involved in the projects.

TOPICS & SPEAKERS



IR. TSE WING NING RICHARD

Director, Allied Rich Asia Limited, Hong Kong. Past Chairman of IOSH Hong Kong

Managing Suspended Working Platform Safety: Lessons from Singapore and Hong Kong

In modern high-rise construction, Suspended Working Platforms (SWP) are essential components for facade access. However, these platforms present significant safety challenges, with primary hazards including falls from height, structural and platform collapse, electrocution, falling objects, and equipment malfunction. Both Singapore and Hong Kong, as dense urban centres heavily dependent on high-rise construction, have experienced catastrophic SWP accidents that have driven the evolution of regulatory frameworks.

This presentation will examine the hazards associated with both permanent and temporary suspended working platforms, focusing on critical aspects of operation, maintenance, testing, and examination.

Ir. Tse Wing Ning, Richard is a distinguished engineering and safety professional with extensive expertise in management, environment, health, safety, and sustainability. As a Chartered Electrical and Mechanical Engineer and Chartered Safety and Health Practitioner, he brings comprehensive insights to complex safety challenges.

Currently serving as Director, Allied Rich Asia Limited, Ir Tse holds multiple professional registrations including Registered Safety Auditor, Safety Officer, Energy Assessor, and Professional Engineer in Hong Kong. His notable achievements include serving as the independent safety auditor for CR Construction Group Holdings Limited's IPO (HKG:1582).

A Fellow of prestigious institutions including HKIE, IET(UK), IMechE(UK), and IOSH(UK), Ir Tse is the past chairman of IOSH Hong Kong and former Council Member of IOSH, UK. He holds advanced degrees in Information Technology, Business Administration, Environmental Management, and Facility Management from renowned institutions.



MR. HENRY HO
Regional WSH
Director, Shanghai
Tunnel Engineering
Co. (S) Pte Ltd,
Singapore

Shaping the Future of Underground Construction Safety: Shanghai Tunnel's Technology-Driven Approach

Shanghai Tunnel Engineering Co. (S) Pte Ltd (STEC)'s commitment to Workplace Safety and Health (WSH) is exemplified by their 2024 Construction Safety Excellence Award for the Changi Airport Underground Infrastructure project (Contract T316). The company's approach combines transparent leadership with systematic implementation to create a comprehensive safety culture, driving significant improvements in safety performance through data analysis and targeted interventions.

In executing complex underground projects, STEC successfully addressed unique challenges including wildlife management, foreign object debris control, and incursion hazards through advanced technologies and real-time monitoring systems. These experiences have generated valuable insights for the construction industry, particularly in underground infrastructure safety and technology integration.

This presentation will focus on STEC's innovative solutions and best practices in managing WSH challenges in underground construction, demonstrating how technology integration and systematic approaches can establish new industry benchmarks.

Mr. Henry Ho has served as Regional WSH Director at Shanghai Tunnel Engineering Co. (S) Pte Ltd (STEC) since 2019, bringing over 24 years of experience in LTA rail projects. Starting his WSH career in 2001, he joined STEC in 2009 as Corporate WSH Manager, where he has significantly elevated safety standards and WSH culture notably in LTA and PUB projects.

His leadership has led STEC to remarkable achievements, including winning three LTA Annual Safety Awards Convention (ASAC) Challenge Shields and seven finalist nominations since 2012. Currently overseeing projects across Southeast Asia, Mr. Ho is a frequent speaker at WSH forums organized by the WSH Council, LTA, and PUB, sharing his expertise in WSH in construction.



MR. DUNCAN COOKE

Regional Lead for
Shirley Parsons,
New Zealand

Developing H&S Talent Pipeline: Meeting Construction Industry Demands in APAC Region

The APAC region is experiencing unprecedented growth in construction, particularly in data centres, renewable energy infrastructure, and major building projects, with forecasts indicating continued expansion through 2030 and beyond. This surge creates a critical demand for qualified Health & Safety professionals across the construction sector.

This presentation explores comprehensive strategies for developing and sustaining H&S talent in construction, including innovative approaches to staff augmentation, specialized construction safety training programs, and structured career development pathways. We examine successful regional case studies from major construction projects, highlighting effective methods for building H&S capabilities while maintaining high safety standards during rapid growth.

Industry professionals will gain practical insights into building resilient H&S teams, implementing effective training programs specific to construction challenges, and capitalizing on career advancement opportunities in APAC's dynamic construction sector.

Duncan Cooke serves as Regional Lead for Shirley Parsons Australia and New Zealand, bringing over 16 years of specialized experience in HSEQ recruitment and talent development. Having started with Shirley Parsons UK in 2009, he played a pivotal role in establishing their Executive Search division before relocating to New Zealand in 2017.

As a specialist in HSEQ recruitment across the construction and infrastructure sectors, Duncan has developed extensive expertise in identifying and placing top-tier safety professionals throughout the APAC region. His experience spans executive and contracted appointments across major construction projects, infrastructure developments, and energy initiatives. At Shirley Parsons, a global specialist HSEQ recruitment firm, he leads strategic talent acquisition initiatives, focusing on building sustainable relationships between organizations and HSEQ professionals.



DR. NEELESH SOGGANI

General Manager
- HSE Training
& Development
at Altasnim
Enterprises LLC
and Chair, IOSH
Oman Community

Advancing Climate Resilience in Workplace Safety: Adapting HSE Protocols to Rising Environmental Challenges

This presentation explores the significant impact of climate change on workplace safety in the built environment sector, addressing critical challenges posed by rising temperatures, increasing frequency of extreme weather events, and evolving environmental conditions. Through evidence-based research and real-world applications, it presents effective strategies for adapting HSE protocols, including comprehensive heat stress management systems, climate risk assessment frameworks, and enhanced emergency response protocols. Drawing from successful implementations across organizations, the presentation demonstrates how these approaches are strengthening traditional safety practices. Case studies highlight practical solutions that organizations have deployed to create resilient workplaces, offering valuable insights for HSE professionals navigating this emerging frontier of workplace safety. The discussion encompasses both immediate adaptations and long-term strategic planning for climate-resilient safety systems.

A distinguished HSE & ESG Leader with over 27 years of experience and dual Fellowships from IIRSM UK & IOSH UK. Currently serving as General Manager specializing in transforming workplace safety, well-being, and environmental sustainability across industries. Notable expertise includes implementing successful Behavior-Based Safety programs, developing comprehensive well-being initiatives, and integrating ESG strategies into business operations.

Has demonstrated excellence in reducing incident rates, enhancing operational resilience, and fostering a "Beyond Zero" safety culture. Recognized expertise in crisis management, regulatory compliance, and strategic risk assessment. A regular international speaker and thought leader in HSE transformation. Recipient of multiple global, regional, and national awards for contributions to workplace safety and sustainability.

TOPICS & SPEAKERS



MR. JC SEKAR

Chief Executive
Officer, AcuiZen
Technologies,
Singapore

Bridging Silos: Digital Solutions for Integrated Risk Management

Many organizations still rely on siloed safety processes, limiting effective risk management. Digital integrated risk management transforms this landscape by connecting risk assessments, incident reporting, work permits, toolbox talks, and compliance tracking into a unified system.

This integrated approach enables holistic risk identification and control, real-time visibility for data-driven decisions, and seamless communication across organizations. Digital platforms streamline compliance through automated workflows and standardized documentation while maintaining comprehensive audit trails.

Organizations implementing this approach report significant benefits: reduced incidents and claims, improved operational efficiency through automated safety workflows, and enhanced safety culture through unified risk controls and training. This digital transformation bridges the gap between safety strategy and daily operations, moving organizations from reactive compliance to proactive risk control, ultimately driving both safety and business performance.

JC Sekar is the Co-founder and CEO of AcuiZen Technologies, Singapore, specializing in operational excellence and digital transformation. He also co-founded EiSqr Solutions, providing advisory services and digital tools for Sustainability and ESG initiatives.

With over 38 years of global experience, including nearly two decades at Underwriters Laboratories Inc (UL), JC holds an MBA from the National University of Singapore and a Master's in Technology from IIT Madras.

A recognized thought leader, JC has contributed significantly to industrial safety, notably presenting at UNIDO on Industrial Safety in Industry 4.0 and developing the 3C-3P model for resilient industrial safety systems. He serves as an Executive Committee member of IOSH Singapore Branch and is a founding member of the Global Initiative for Future Industrial Safety.



**MR. SEAH YEOW
TECK**

Director
(Singapore), Keller
Foundations (SE
Asia) Pte Ltd,
Singapore

Aligning Technological Innovation with Culture of Care: Keller's Journey to Enhanced Safety and Productivity

The built environment sector faces pressing challenges—shrinking talent pools, growing project complexity, future-ready personnel needs, rapid digitalisation, and rising sustainability expectations. Keller addresses these through its Culture of Care, implementing a Wellbeing Framework focused on mental health, resilience, community belonging, and healthy living.

To manage project complexity and reduce HSE risks, Keller integrates technology and automation, including remote rig operations, mechanical lifting, automated compressors, and cloud-based systems for safety briefings and manpower tracking.

This session demonstrates how aligning technological innovation with a deep-rooted culture of care enhances productivity and safety while empowering the workforce—positioning HSE as a key enabler for a safer, smarter, and more sustainable construction industry.

Seah Yeow Teck serves as the Director of Keller Foundations in Singapore, bringing extensive experience in strategy development, business transformation, market expansion, and project management across the geotechnical engineering sector.

Under his leadership, Keller Singapore received the prestigious Culture of Acceptance, Respect and Empathy (CARE) Award at the Workplace Safety and Health Council Awards 2023. He champions Keller's comprehensive wellbeing framework, which addresses Body, Mind, Community, Growth, and Financial Security to create an inclusive and supportive workplace culture.

Seah shared his insights as a panelist at the Workplace Safety and Health Conference 2022, discussing 'Speak up! Psychologically safe workplaces' and highlighting strategies for building a culture of care and psychological safety in the construction industry.



**MS. ESTELLA
MADNA**

Global Wellbeing
Director at Novartis,
Basel, Switzerland

Transforming Safety Culture: Integrating Psychological Wellbeing for Enhanced Risk Management

As we shape the future of the built environment, it's time to expand our definition of safety. Traditional safety efforts focus on physical risks and technical barriers, yet many incidents stem from breakdowns in communication, trust, and decision-making. This presentation explores how fostering inclusion, belonging and wellbeing directly strengthens risk management and safety culture. We'll examine how integrating inclusion and psychological safety leads to greater risk awareness, trust, and accountability—creating environments where people thrive and safety is sustained from the inside out.

Estella Madna is the Global Wellbeing Director at Novartis, based in Basel, Switzerland, bringing over 15 years of international experience in people and culture transformation. With a strong foundation in psychology, she specializes in creating inclusive workplace environments and implementing effective wellbeing initiatives across diverse industries.

Her expertise lies in applying psychological principles to address organizational challenges and enhance employee wellbeing. Throughout her career, she has successfully led cultural transformation programs that focus on building inclusive workplaces where teams and individuals can thrive.

As a thought leader in workplace wellbeing, she is dedicated to fostering environments that promote both psychological safety and employee empowerment. Her approach combines psychological insights with practical organizational solutions to create sustainable cultural change and enhanced workplace wellbeing.



MR. NAWAL JAGGI
Risk Management
Manager,
Koh Brothers
Building and
Civil Engineering
Contractor (Pte.)
Ltd, Singapore

Beyond Digital Solutions: Human-Centered PSR for Risk Management in Infrastructure Projects

Underground construction projects present complex and high-stakes risks that demand proactive safety management. This presentation demonstrates how structured Project Safety Reviews (PSR) serve as powerful tools for both risk management and cultural transformation. Drawing from real tunnelling project experiences, we explore how integrating PSRs into project workflows enables early hazard identification, enhances accountability, and facilitates timely safety interventions.

Unlike digital or AI-driven systems, this PSR approach emphasizes disciplined human-led reviews, cross-functional collaboration, and leadership engagement. The presentation showcases how building a safety-first culture creates shared risk ownership across all project levels—from planning to field execution.

Participants will gain practical insights into PSR implementation, change management strategies, and methods for embedding safety as a core project value in underground construction environments.

Nawal Jaggi currently serves as Risk Management Manager at Koh Brothers Building and Civil Engineering Contractor (Pte.) Ltd. in Singapore, bringing 39 years of extensive experience across Singapore, Middle East, and India in infrastructure construction and water treatment projects.

His specialized expertise includes MRT construction, power plants, residential and office buildings, and industrial effluent treatment plants. Key competencies span project planning and control, risk management, contractual and commercial management, and quality control.

Mr. Jaggi has played crucial roles in establishing joint ventures, managing client relationships, and developing company infrastructure including recruitment and subcontractor selection. He has served as a Risk Management Facilitator since 2011 and is a certified Design for Safety Professional (DfSP).

TOPICS & SPEAKERS



MR. AMRIQ ALI
HSEQ Manager,
Bachy Soletanche
Singapore

Advancing Safety Culture at Bachy Soletanche: Creating a Thriving, Resilient Workforce

This presentation explores the evolution from compliance-based safety to a holistic culture where safety becomes inherent in every operation. Drawing from Bachy Soletanche's experience, we examine how integrating physical safety, mental health support, and open communication creates a foundation for sustainable safety excellence.

The session showcases practical strategies implemented across our projects, including innovative mental wellness programs, empowered frontline supervision, and technology-driven risk management solutions. We demonstrate how these initiatives build trust, enhance worker engagement, and create personal ownership of safety at all levels. It will also illustrate how such strategies not only advances towards zero accidents but also develops a resilient, engaged workforce.

Amriq Ali brings 19 years of dedicated experience with Bachy Soletanche Singapore, where he has served as Health, Safety, Environment, and Quality (HSEQ) Manager for the past five years. Under his leadership, the organization has implemented transformative safety initiatives that bridge compliance and culture, resulting in significant improvements in safety performance and worker well-being.

His outstanding contributions to workplace safety have earned him the prestigious WSH Officer Award in 2021 and the LTA's WSH Officer Recognition Award in 2023. As a passionate sustainability advocate, Mr. Amriq has spearheaded initiatives that have garnered multiple sustainability awards for Bachy Soletanche, demonstrating his commitment to integrating environmental responsibility with safety excellence.

His innovative approach to safety management combines technical expertise with a deep understanding of human factors, establishing new benchmarks in construction safety culture.