



Your Gateway to Global STEM Innovation

14 - 16 NOVEMBER 2025

Mines International Exhibition &
Convention Centre (MIECC)

CONFERENCE AGENDA – FRIDAY, 14 NOVEMBER 2025

Innovative Teaching & Learning Strategies

10.00 am	Welcome Remarks
10.15 am	<p>Presentation 1: Teaching STEM Through Play: Early Childhood Approaches</p> <p>Explore how play-based approaches can introduce foundational STEM concepts to young learners in meaningful and developmentally appropriate ways. Through guided exploration, storytelling, sensory play, and simple experiments, children can begin to understand patterns, cause and effect, measurement, and problem-solving. Educators will gain insights into designing playful STEM activities that nurture curiosity, creativity, and critical thinking in preschool and lower primary settings. With practical examples and low-cost materials, this session highlights how STEM learning can emerge naturally through the joy of play – laying the groundwork for confident and capable future innovators.</p> <p>Azura Abrasid, Head of Programme (Early Childhood Education), Veritas University College</p>
10.45 am	<p>Presentation 2: Leveraging AI to Personalize Learning Pathways</p> <p>Explore how AI-driven platforms empower educators to meet diverse student needs, close learning gaps, and foster mastery at each learner's pace. Discussions will highlight practical applications in schools and higher education, success stories from early adopters, and the challenges of data privacy, equity, and teacher training. By examining real-world examples and future possibilities, participants will gain insights into how AI can transform classrooms into dynamic, learner-centered environments.</p>
11:15 am	<p>Presentation 3: Preparing the Workforce of Tomorrow through STEAM</p> <p>Explore how STEAM fosters essential 21st-century skills such as critical thinking, communication, design, and innovation, which are increasingly valued across industries. Real-world examples and school-to-career connections will illustrate how STEAM learning can inspire students to pursue diverse pathways in technology, science, engineering, and the creative economy. Join us to explore how STEAM education bridges the gap between classroom learning and the future world of work.</p> <p>Prof. Ts. Dr. Murali Raman, Deputy Vice Chancellor and Director of Postgraduate and Continuous Education, Asia Pacific University (APU)</p>
11:45 am	Lunch
02:00 pm	<p>Presentation 4: Making STEAM Fun: Engaging Young Minds through Hands-on Learning</p> <p>Discover how simple tools, classroom makerspaces, and low-cost materials can turn abstract concepts into exciting explorations. Whether you're new to STEAM or looking to revitalize your teaching strategies, this session offers actionable ideas, examples, and resources to transform your classroom into a dynamic, discovery-driven learning environment.</p>



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	Prof. Dr. Wong Wai Yin , Associate Professor, Fuel Cell Institute, Universiti Kebangsaan Malaysia (UKM)
2:30pm	Presentation 5: Using AI to Enhance Student Engagement & Motivation Examine proven strategies and case studies where AI has boosted engagement, explores its role in fostering intrinsic motivation, and addresses the ethical considerations of balancing personalization with student autonomy. Dr. Woon Kai Lin , Associate Professor, University Malaya
3:00 pm	Presentation 6: Gamification & Adaptive Learning through AI Explore how AI enhances motivation, fosters deeper engagement, and creates dynamic feedback loops that keep learners actively involved. Case studies and best practices will highlight how these innovations can improve retention, mastery, and overall learning outcomes while ensuring inclusivity and equity in digital classrooms.
3:30 pm	Presentation 7: AI Tutors & Chatbots: Extending the Classroom Beyond School Hours Learn how to integrate AI tutors and chatbots to improve accessibility, reduce teacher workload, and promote self-directed learning. It will also address key challenges such as maintaining accuracy, safeguarding student data, and ensuring the human touch remains central in education.
4:00 pm	End of Day 1 Conference

SATURDAY, 15 NOVEMBER 2025

10.00 am	Arrival of Guests
10.15 am	Arrival of VVIPs
10.30 am	Welcome Remarks
10.40 am	Opening Remarks
10.45 am	Launching Ceremony
10.55 am	Presentation of Souvenir to the Guest of Honour, Main Sponsors and Photo Sessions
11.05 am	Visit to the Exhibition Area
11.30 am	Press Conference



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CONFERENCE AGENDA – SUNDAY, 16 NOVEMBER 2025

Real-World Applications & 21st Century Skills

10.00 am	Welcome Remarks
10.15 am	Presentation 1: National AI Strategies in Education: From Vision to Implementation Examine how different countries are embedding AI into their education systems—highlighting successes, challenges, and lessons learned. Participants will gain practical insights into policy frameworks, public–private partnerships, and implementation roadmaps that can help translate high-level AI strategies into meaningful impact in classrooms and communities.
10:45 am	Presentation 2: Reskilling and Upskilling the Workforce with AI Competencies Explore strategies for designing scalable training programs, fostering industry–academia partnerships, and leveraging AI itself as a tool for workforce development. Participants will discover practical frameworks and case studies that demonstrate how continuous learning can empower workers to thrive in an AI-driven economy.
11:15 am	Presentation 3: Global Trends and Innovations in STEAM Pedagogy From interdisciplinary project-based learning and digital maker spaces to culturally responsive teaching and AI-assisted instruction, gain insights into how educators around the world are reimagining STEAM education. Learn how these approaches foster creativity, collaboration, and real-world problem-solving—and how they can be adapted to local classrooms to inspire the next generation of global thinkers and innovators. Dr. Mirza Rayana Sanzana , Lecturer, Research and Training, School of Information Technology, Monash University Malaysia
11:45 am	Lunch
02:00 pm	Presentation 4: Future-Proofing the STEAM Curriculum: Aligning with Industry 4.0 and Beyond Examine key skill areas such as data literacy, computational thinking, design innovation, and digital collaboration, along with strategies to integrate them into teaching and learning. The session also highlights how partnerships with industry, real-world problem solving, and interdisciplinary learning can ensure students develop both technical capabilities and the human-centered skills needed to thrive in the innovation economy. Sherry Lin , Head of Science, Confidential
02:30 pm	Presentation 5: Cultivating Creativity, Collaboration, and Critical Thinking Discover classroom strategies, project-based approaches, and assessment methods that encourage students to think outside the box, work effectively in teams, and approach challenges with a thoughtful, analytical mindset. By embedding these skills



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	into STEAM lessons, educators can help students become not only knowledgeable, but also inventive, resilient, and future-ready.
03:00 pm	Presentation 6: Communication and Presentation Skills for Future Innovators This session offers practical tools to help students become not just problem-solvers, but compelling communicators and leaders of the future.
03:30 pm	Presentation 7: AI and the Future of Work: Community & Industry Readiness Explore how schools, governments, and businesses can collaborate to equip learners and workers with future-ready skills, foster adaptability, and address challenges such as job displacement and digital inequality. Through case studies and practical strategies, participants will gain insights into building resilient ecosystems where communities and industries can thrive in an AI-driven economy.
04:00 pm	End of Conference