



WORLD
ENGINEERS
SUMMIT
2023

8 – 10 November 2023
Marina Bay Sands, Singapore

Date	Time	Programme
8 November 2023	8.00am	Registration
	8.45am	Guests to be seated
	9.00am	Arrival of Guest-of-Honour Mr Teo Chee Hean Senior Minister and Coordinating Minister for National Security, Singapore
	9.05am	Welcome Address by WES 2023 Conference Chair Er. A/Prof Lim Kok Hwa
	9.10am	Remarks by WES 2023 Strategic Partner, China Society of Engineers Ms Luo Hui Member of the Leading Party Members Group, Director General of Department of International Affairs, China Association of Science and Technology (CAST) Joint Secretary-General, Chinese Society of Engineers (CSE)
	9.20am	Speech by Guest-of-Honour Mr Teo Chee Hean Senior Minister and Coordinating Minister for National Security, Singapore
	9.30am	Launch of World Engineers Summit (WES) 2023
	9.35am	Re-imaginings of our Net Zero Future Dr Steve Howard Vice Chairman, Sustainability, Temasek
	10.05am	Morning Tea Break
	10.30am	Sustainability – Research and Translation for a resilient Singapore Prof Low Teck Seng Senior Vice President (Sustainability and Resilience) National University of Singapore
	11.00am	Building a Green Land Transport Ecosystem Mr Lam Wee Shann Deputy Chief Executive (Technology) / Chief Technology Officer Land Transport Authority
	11.30am	Hong Kong's Roadmap to Carbon Neutrality Prof Wang Tianyi Professor at Hong Kong University of Science and Technology (Guangzhou) Former Chairman & CEO of China Everbright Environment Group
	12.00pm	Panel Discussion Moderator: Prof Sreeram Ramakrishna Chief Editor of Materials Circular Economy Associate Editor of Circular Economy



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Date	Time	Programme
		Department of Mechanical Engineering, College of Design and Engineering National University of Singapore Panelists: 1. Prof Low Teck Seng 2. Mr Lam Wee Shann 3. Prof Wang Tianyi
	12.30pm	Lunch Reception
	2.00pm – 6.00pm	Presentation of Tracks <ul style="list-style-type: none">• Sustainability through Technology• Building a Resilient Future against Climate Change• Future of Industry Sustainability• Smart and Sustainable Urban Mobility• A Greener and Renewable Built Environment• Pedagogy and Educational Technology in Engineering Education

Please note the programme schedule is tentative and subjected to further changes

World Engineers Summit (WES) 2023

Afternoon Session

Date: 8 November 2023 (Wed)

Time: 2.00pm - 5.40pm

Venue: Orchid Ballroom (Level 4), Marina Bay Sands, Singapore

**Please note the programme schedule is tentative and subjected to further changes.*

Name of Track Room		
Track 1 - Sustainability Through Technology		
Track	Timing	Author
1	2.00pm – 2.20pm	Keynote Presentation 1: Smart Cities in Indonesia: Implementation and Challenges by Prof. Dr Suhono Harso Supangkat Director Smart Cities and Communities Innovation Center
1	2.20pm – 2.40pm	Paper Presentation 1: Achieving Net-Zero Through Partnerships & Technology by Mr Mansul Ong Danfoss Singapore Pte Ltd
1	2.40pm – 2.55pm	Paper Presentation 2: Embodied Carbon calculation using Computational Tools by Gavin Chan and Lin Zhenyi CPG Corporation
1	2.55pm – 3.10pm	Paper Presentation 3: Towards Sustainable 2D Semiconductor Electronics Technology by Ang Yee Sin and Tan Chun Wei Singapore University of Technology and Design
1	3.10pm – 3.40pm	Panel Discussion
1	3.40pm – 4.00pm	Tea Break
1	4.00pm – 4.20pm	Keynote Presentation 2: Gardens by the Bay: A Green Marvel of Sustainability by Mr Felix Loh Chief Executive Officer Gardens by the Bay
1	4.20pm – 4.35pm	Paper Presentation 4: Cranfield University: Hyper Project Clean Hydrogen & Carbon Capture by Jeff Obbard Cranfield University Presented by: Chris Fogwill
1	4.35pm – 4.50pm	Paper Presentation 5: Development of a Smart and Lean Pick-and-Place Solution with Optimisation of Hyperparameter and Image Properties by Elven Kim, Chong Jun Jie, Choong Zi Jie and Michael Lau Newcastle University
1	4.50pm – 5.05pm	Paper Presentation 6: I.M.P.R.E.N.T.A. - Innovative Machine for PET Bottle Recycling Extruding using Nature Caring Technology and Assembly by Gerhard Tan, Ashley Arviola, Jaiko Riel Bendo, Von Jonnell Bernal, Karen Mira Lea Cabanela, Ana Rose Gonzales, John Lhouwelf Labastida, Norman Ortiz, Mariam Jamilah Rojas, Earl John Villaluz and Raymond Palton Polytechnic University of the Philippines
1	4.50pm – 5.05pm	Paper Presentation 7: Maximizing Piezoelectric Energy Harvesting: Overcoming Challenges and Unlocking Sustainable Power Generation by Sim Hwa San, Samson Chang, Teo Boon Ping, Pradeepkumar Krishnamoorthy, Ng Chun Kee and Lim Lian Hock
1	5.05pm – 5.20pm	Paper Presentation 8: High Energy Laser Weapon Systems by Wilbur Chan Singapore University of Social Sciences
1	5.20pm – 6.00pm	Panel Discussion

Name of Track Room		
Track 2 - Building A Resilient Future Against Climate Change		
Track	Timing	Author
2	2.00pm – 2.20pm	Keynote Presentation 1: Integrated Solutions for Coastal Protection, Flood Control, Clean Water and Space by Prof Chu Jian Chair, School of Civil and Environmental Engineering President's Chair in Civil Engineering Professor, School of Civil and Environmental Engineering, Nanyang Technological University
2	2.20pm – 2.40pm	Keynote Presentation 2: Singapore Green Building Masterplan: A Roadmap to Decarbonise the Built Environment by Dr Edward Ang Director, Green Building Policy and Technology Department, Environmental Sustainability Group Building and Construction Authority
2	2.40pm – 2.55pm	Paper Presentation 1: Design of Climate Resilient Urban Residential Estate with a Modular Farmscape by Soh Chew Beng, Chien Su-Cheng, An Hui, Ang Ting Wei Barbara and David Tan Singapore Institute of Technology
2	2.55pm – 3.10pm	Paper Presentation 2: Comprehensive Defect Inspection of Building Façades Using Convolutional Neural Networks by Zhou Xiaoling, China Singapore International Joint Research Institute & Robert Tiong L. K., Nanyang Technological University
2	3.10pm – 3.40pm	Panel Discussion
2	3.40pm – 4.00pm	Tea Break
2	4.00pm – 4.15pm	Paper Presentation 3: Building a Resilient Future against Climate Change - The Fastest Path to Net Zero by Wei Linxun Schneider Electric
2	4.15pm – 4.30pm	Paper Presentation 4: Circular Cities: Towards Climate-Resilient Urban Built Environment by Haziqah Saini AECOM Singapore Pte Ltd
2	4.30pm – 5.00pm	Panel Discussion

Name of Track Room		
Track 3 - Future of Industry Sustainability		
Track	Timing	Author
3	2.00pm – 2.20pm	Keynote Presentation 1: Next Generation Solutions & Technologies to Enable Green Transformation in Chemical Industry by Dr Ronny Sondjaja Vice President - Asia Pacific, Research, Development & Innovation, Evonik SEA Pte Ltd
3	2.20pm – 2.40pm	Keynote Presentation 2: Industry Sustainability 1 2 3 4 by Er. Lucas Ng Senior Advisor Head, Sustainability PCS Pte. Ltd.
3	2.40pm – 2.55pm	Paper Presentation 1: Novel Machine Learning Based Technique for Energy Forecasting in Industries by Venkat Subramanian Arumuga Perumal and June Tay Singapore University of Social Sciences
3	2.55pm – 3.40pm	Panel Discussion
3	3.40pm – 4.00pm	Tea Break
3	4.00pm – 4.15pm	Paper Presentation 2: The Practice and Assessment of Sustainable Manufacturing by F. C. Yee, Singapore Institute of Technology and Raimund Klein, International Centre for Industrial Transformation
3	4.15pm – 4.30pm	Paper Presentation 3: Energy Efficiency Retrofit Options for Existing Data Centers in Singapore by Joe Ong RED APAC
3	4.30pm – 4.45pm	Paper Presentation 4: Future of Industry Sustainability by Cindy Koh AECOM Singapore Pte Ltd
3	4.45pm – 5.30pm	Panel Discussion

Name of Track Room		
Track 4 - Smart and Sustainable Urban Mobility		
Track	Timing	Author
4	2.00pm – 2.20pm	Keynote Presentation 1: The Journey toward Meta Factory by Mr Jung Hong Bum, Joseph Chief Executive Officer, Hyundai Motor Group Innovation Center, Singapore (HMGICS)
4	2.20pm – 2.40pm	Keynote Presentation 2: Reimagining Urban Life: Exploring Innovations in Urban Mobility for a Sustainable Future by A/P/rof Yap Fook Fah Co-Director, Transport Research Centre@NTU Nanyang Technological University
4	2.40pm – 2.55pm	Paper Presentation 1: Prioritizing safety: pathway to sustainability in Singapore by Dr Koh Puay Ping and Chandrasekar Land Transport Authority
4	2.55pm – 3.10pm	Paper Presentation 2: Smart Urban Mobility Masterplan for Baguio City by Leong Hin Cheong ST Engineering
4	3.10pm – 3.25pm	Paper Presentation 3: Realising an Inclusive and Sustainable Rapid Transit System Through Standardisation and Standards Development by Yuan Wang Looi, Zhou Yi, Chan Cheok Ng, Kwok Weng Leong and Richard Kwok SMRT Trains
4	3.40pm – 4.00pm	Tea Break
4	4.00pm – 4.20pm	Keynote Presentation 3: Active Mobility in Singapore by Mr Kenneth Wong Deputy Group Director, Active Mobility, Land Transport Authority
4	4.20pm – 4.35pm	Paper Presentation 4: Battery Charging Framework for Commercial Drones (UAV), Mobile Robots and Automated Guided Vehicles (AGV) by June Tay and He Yihong Singapore University of Social Sciences
4	4.35pm – 4.50pm	Paper Presentation 5: Engineering Sustainable Mobility through Electric-Mobility-as-a-Service by Chen Xinwei, Toh Boon Cheong & Tan Kian Heong Strides Frontier
4	4.50pm – 5.05pm	Paper Presentation 6: Jobs-Skills Insights for Deployment of Electric Vehicle (EV) Charger by Tham Jia Yi IES
4	5.05pm – 5.20pm	Paper Presentation 7: Converting a Conventional Bus Fleet to Electric Bus Fleet: Experience from the National University of Singapore by Ong Ghim Ping and Kok Jia Pei Priscilla National University of Singapore
4	5.20pm – 5.35pm	Paper Presentation 8: Greener Strain Hardening Cementitious Composite Material for Sustainable and Resilient Road by Ali Arto Bawono, Bernard Lechner and Yang En-Hua National Technological University and Technical University of Muni
4	5.05pm – 5.30pm	Panel Discussion

Name of Track Room		
Track 5 - A Greener and Renewable Built Environment		
Track	Timing	Author
5	2.00pm – 2.20pm	Keynote Presentation 1: Using Low-Carbon Concrete Technologies to Reduce Embodied Carbon by Dr Wang Su Senior Scientist Pan-United Concrete Pte Ltd
5	2.20pm – 2.40pm	Keynote Presentation 2: Redefining the Future of Built Environment: Innovating with Purpose by Mr Eric Soh CEO Samwoh Corporation Pte Ltd
5	2.40pm – 2.55pm	Paper Presentation 1: Transformation of AMP Centre, Australia's with a Design Life Extension of 50 Years by Neil Gunn, Reza Hassani and Andi Tjong BG&E Consulting Engineers Pte Ltd
5	2.55pm – 3.10pm	Paper Presentation 2: Sustainable Construction of Foundation in Marine Environment for Johor-Singapore Rapid Transit System (RTS) Link Bridge by Ng Pin Yuan, Ng Chew Chiat, Foong Choon Who, Ong Chae Wee, Low Hin Foo, Katherine Wong Li Ying & Sii One Smart Engineering Pte Ltd
5	3.10pm – 3.40pm	Panel Discussion
5	3.40pm – 4.00pm	Tea Break
5	4.00pm – 4.15pm	Paper Presentation 3: A Greener and Renewable Built Environment: Advancing Sustainable Energy Solutions in Singapore through JTC's SolarLand Phase 1 and Phase 2 Projects by Toh Kai Wei by Terrenus Energy Cerys Ng, JTC Corporation
5	4.15pm – 4.30pm	Paper Presentation 4: Sembcorp's first solar farm at Tuas with an integrated rainwater harvesting system in Singapore through JTC's SolarLand Phase 3 project by Franco Lim, Sembcorp Kevin Emanuel Suhartono, JTC Corporation
5	4.30pm – 4.45pm	Paper Presentation 5: Understanding Demand for Project Manager Competencies in the Singapore Construction Industry: Data Mining Approach by Chen Chen, Song Ern Foo, Woo Bin Lee, Qing Zheng and Lee Kong Tiong
5	4.45pm – 5.30pm	Panel Discussion

Name of Track Room		
Track 6 - Pedagogy and Educational Technology in Engineering Education		
Track	Timing	Author
6	2.00pm – 2.20pm	Keynote Presentation 1: Excellence in Engineering Education: Empowering Next-Generation Innovators by Mr Loh Yew Ching Deputy Principal (Academic) Singapore Polytechnic
6	2.20pm – 2.40pm	Keynote Presentation 2: Engineering Education: Leveraging Technology for Pedagogy Transformation by Prof Lock Kai Sang Professor (Engineering), Singapore Institute of Technology Executive Chair, Washington Accord
6	2.40pm – 2.50pm	Paper Presentation 1: Enhancing Students' Learning Experience in Chemical Bonding using Data-enabled Flipped Learning by Tan Tiong Wei, Chan Chung Hou and Wee Xi Kai Singapore Polytechnic
6	2.50pm – 3.00pm	Paper Presentation 2: Fostering a Collaborative Mindset: A Case Study on Team-Based Learning in a Micro Module on Data and Sustainability by Wee Kin Guan Singapore Polytechnic
6	3.00pm – 3.10pm	Paper Presentation 3: Use of AR in Wafer Fab Lab by Allan Wong Singapore Polytechnic
6	3.10pm – 3.20pm	Paper Presentation 4: Designing a Virtual Digital Teacher for Engineering Education: Challenges and Opportunities by Dr Deepak Walker IEEE Education Society Singapore Chapter
6	3.20pm – 3.30pm	Paper Presentation 5: A Three-Year Study Across Two Modules on the Use of an Enhanced Question Generation Approach for Active Learning and Authentic Assessment With Peer Learning by Tay En Rong Stephen National University of Singapore
6	3.30pm – 3.40pm	Panel Discussion
6	3.40pm – 4.00pm	Tea Break
6	4.00pm – 4.10pm	Paper Presentation 6: Engaging Minds and Empowering Learners through non-immersive and immersive technology by Tan Yen Ling, Chia Fu Siong and Tan Tuan Lin Singapore Polytechnic
6	4.10pm – 4.20pm	Paper Presentation 7: An Integrated Curriculum for Sustainable Impact by Teresa Chua-Moraes and Soh Ying Ying Singapore Polytechnic
6	4.20pm – 4.30pm	Paper Presentation 8: IES Skills Development Partner Programme by Tham Jia Yi IES
6	4.30pm – 4.40pm	Paper Presentation 9: Use of Padlet as an online collaboration tool in a graduate civil engineering course by Kevin Kuang National University of Singapore
6	4.40pm – 4.50pm	Paper Presentation 10: Evidence-Based Reflective Practice to Help Engineering At-Risk Students in Supplementary Lesson Context by Leong Ying-Wei Singapore Polytechnic
6	4.50pm – 5.00pm	Paper Presentation 11: Addressing the UN SDGs through social innovation and engineering solutions: The experience of a young, applied learning university by Intan Azura Mokhtar Singapore Institute of Technology
6	5.00pm – 5.10pm	Paper Presentation 12: Fostering Sustainability Education in Civil Engineering through Student-Guided Design Competitions by Du Hongjian National University of Singapore
6	5.10pm – 5.20pm	Paper Presentation 13: Enhancing the Teaching and Learning of Chemical Process Operation Skills using Educational Technology by Oh Ai Ye, Koh Hong Wee, Ting Kok Eng, Jin Kai, Lee Fook Choon and Zaidi Ahmad Singapore Polytechnic
6	5.20pm – 5.40pm	Panel Discussion

World Engineers Summit (WES) 2023

Date: 9 November 2023 (Thu)

Time: 9.00am - 5.30pm

Venue: Orchid Ballroom (Level 4) Marina Bay Sands, Singapore

Name of Track Room Track 5 - A Greener and Renewable Built Environment		
Track	Timing	Author
5	1.30pm – 1.50pm	Keynote Presentation 1: Enhancing Infrastructure and Utility Planning in Singapore by Dr Goh Kok Hun Group Director Urban Redevelopment Authority
5	1.50pm – 2.10pm	Keynote Presentation 2: Cultivating a Sustainable Work Ecosystem for a Greener and Renewable Built Environment by Mr Lim Eng Boon Deputy Director (Projects) Hwa Seng Builder Pte Ltd
5	2.10pm – 2.25pm	Paper Presentation 1: Design for a Net Zero World by Professor Tai Lee Siang Singapore University of Technology and Design
5	2.25pm – 2.40pm	Paper Presentation 2: Trends and Applications of Surface Treatment Systems using Laser: Use Case by Sanjay Kumar Thakura, Kintsugi Consultancy, Singapore Ronald Rudolph and Donald Deptowicz, Aspen Hybrid Technology Solution, USA, and Aspen Laser Dubai, Dubai Gerald Mearini, Genvac Aerospace Inc., USA and Richard Cottrill, Rilltech Racing, USA
5	2.40pm – 2.55pm	Paper Presentation 3: Tooling Applications for Maintenance Efficiency and Sustainability: Use Cases by Sanjay Kumar Thakura, Kintsugi Consultancy, Singapore, Donald Deptowicz, Aspen Hybrid Technology Solution, USA and Jake Merrick, Merrick Tool, USA
5	2.55pm – 3.10pm	Paper Presentation 4: Prepare for uncertainty with certainty—Resilience design in buildings and civil engineering works by He Jing China Institute of Building Standard Design & Research Co., Ltd.
5	3.10pm – 3.30pm	Panel Discussion
5	3.30pm – 3.45pm	Tea Break

World Engineers Summit (WES) 2023

Date: 9 November 2023 (Thu)

Time: 9.00am - 5.30pm

Venue: Orchid Ballroom (Level 4) Marina Bay Sands, Singapore

Name of Track Room Track 6 - Pedagogy and Educational Technology in Engineering Education		
Track	Timing	Author
6	9.00am – 9.20am	Keynote Presentation 1: Sustainable Development through Education by A/Prof Dr Ethan Chong Yih Tng Head of Sustainability (Education & Research), Provost Office Singapore Institute of Technology
6	9.20am – 9.30am	Paper Presentation 1: Empowering Education: Integrating Applied Research in Microgrid, Multi-Energy Systems, and Energy Storage into Classroom Teaching and Student Projects With Peer Learning by Elsa Feng Xue Singapore Institute of Technology
6	9.30am – 9.40am	Paper Presentation 2: Moving from Didactic Instruction to Collaborative Learning, Mediated by Multiple Interactive Screen Technology: Case Study of a Thermodynamics Module by Xiong Junying and Lim Gaik Bee Ngee Ann Polytechnic
6	9.40am – 9.50am	Paper Presentation 3: Enabling Meaningful Learning: Development of an Engineering Module using LXD Methodology by Edwin Foo, Zhao Meijun, Flex Tio and Kwek Siew Wee Nanyang Polytechnic
6	9.50am – 10.00am	Paper Presentation 4: Sustainable Industrial Collaboration for Authentic Learning by Soh Kim Fai Singapore Polytechnic
6	10.00am – 10.30am	Panel Discussion
6	10.30am – 11.00am	Tea Break
6	11.00am – 11.10am	Paper Presentation 5: Active Learning and Community Engagement in Teaching Sustainability to Engineers by Tan Mei Xuan and Lynette Cheah Singapore University of Technology and Design
6	11.10am – 11.20am	Paper Presentation 6: Authentic and Applied Learning - Supported by Virtual AI Tutor by Rendell Tan Singapore Institute of Technology
6	11.20am – 11.30am	Paper Presentation 7: Sustainability in Engineering Education: A Paradigm Shift with Transfer-of-Learning and Authentic Assessment by Alfred Tan, Christian Della, Jamil Jasin, Idris Lim Li Hong, Ong Chee Ming, Victor Wang Peng Cheng, Arturo Molina-Cristobal and Eve Shavrina Singapore Institute of Technology
6	11.30am – 11.40am	Paper Presentation 8: Reflections on the Use of Learning Analytics for Differentiated Instruction in the STEM Classroom by Adeline Koh, Adrian Elangovan, Sim Guek Eng, Morganavel Selvarajoo and Peter See Singapore Polytechnic
6	11.40am – 11.50am	Paper Presentation 9: The Role of Deliberate Practice by Leong Mun Kin, Solo Chulawi and Siti Syafiqah Singapore Polytechnic

Name of Track Room Track 6 - Pedagogy and Educational Technology in Engineering Education		
Track	Timing	Author
6	11.50am – 12.30pm	Panel Discussion
6	12.30pm – 1.30pm	Lunch
6	1.30pm - 1.40pm	Paper Presentation 10: Enriching Engineering Education: Hands-On Learning for Sustainable Energy Solutions by Lee Chee Huei, Kwan Wei Lek, Apple Koh Li Ling, Massimiliano Colla and Maggie Pee Gim-Yang Singapore University of Technology and Design
6	1.40pm - 1.50pm	Paper Presentation 11: Building Industry & Learning Institutes Partnerships: SoC Industry Now Curriculum by Vernon Tan, Alvin Tang, Chee Seong Tan, Hu-Shien Tan, John Ng and Shirley Ngiam Singapore Polytechnic
6	1.50pm - 2.00pm	Paper Presentation 12: Infusing Productive Failure in Engine Room Simulation Course for Marine Engineers by David Bernard Kim Seng Tay and Hong Lin Liew Singapore Polytechnic
6	2.00pm – 2.10pm	Paper Presentation 13: Enhancing STEM Education through Virtual Labs and Game-based Self-Directed Learning: Learning Experiences from Engineering Education by Lau Zirui and Andy Lee Ngee Ann Polytechnic
6	2.10pm - 2.20pm	Paper Presentation 14: Incorporating Case-based Learning Elements in an Engineering Mathematics Module by Lai Say Beng, Lim Pei Chin, Quek Kai Leong, Chin Li Cheong, Sharon Quek and Huang Hongying Singapore Polytechnic
6	2.20pm – 2.30pm	Paper Presentation 15: Enhancing Peer Learning in Engineering Education through Integrated Educational Technologies by Soon Hock Wei and Banu Jaseema Ngee Ann Polytechnic
6	2.30pm - 2.40pm	Paper Presentation 16: Mathematics in Engineering: Elevating Students' Appreciation through Real-World Applications by Lu Qingyang Singapore Polytechnic
6	2.40pm - 2.50pm	Paper Presentation 17: Using HoloLens in Physics Teaching and Learning by Chang Sheh Lit and Andreas Dewanto Singapore Polytechnic
6	2.50pm - 3.00pm	Paper Presentation 18: Project Based Learning in Undergraduate Robotics Education Using a Robot Simulation Platform by He Yihong and June Tay Singapore University of Social Sciences
6	3.00pm – 3.30pm	Panel Discussion

World Engineers Summit (WES) 2023

Date: 9 November 2023 (Thu)

Time: 9.00am - 5.30pm

Venue: Orchid Ballroom (Level 4) Marina Bay Sands, Singapore

Name of Track Room		
Track 6 - Pedagogy and Educational Technology in Engineering Education		
Track	Timing	Author
6	3.30pm – 3.45pm	Tea Break
6	3.45pm - 3.50pm	Paper Presentation 19: Enhancing Academic Engagement using Team Based Learning in a Blended Learning Environment by Handojo Djati Utomo Singapore Polytechnic
6	3.50pm - 4.00pm	Paper Presentation 20: Technological Integration and Authentic Learning: Enhancing Quality and Productivity Management Education for Engineering by Alexander Lin, Shi Anqi and Tay En Rong Stephen National University of Singapore
6	4.00pm - 4.10pm	Paper Presentation 21: Empowering Educators: A Self-Directed Learning Dashboard for Lecturers by Ng Geok Ling Singapore Polytechnic
6	4.10pm - 4.20pm	Paper Presentation 22: Leveraging Experiential Learning and Industry Partnerships For Holistic Upskilling in Advanced Manufacturing by Brandon Siow and Ng Kee Wee Temasek Polytechnic
6	4.20pm - 4.30pm	Paper Presentation 23: Data-enabled Self-Directed Learning in Engineering Education facilitated by Generative AI by Phyo Kyaw Kyaw, Lim Joo Ghee, Leck Hwang Keng, Mark Wan, Ho Yenn Giin and Juneita Jumaat Singapore Polytechnic
6	4.30pm - 4.40pm	Paper Presentation 24: Building Industry & Learning Institutes Partnerships: Industry Now Curriculum by Jessie Tong, Lee Ching Tiew, Eriee Pock, Heng Jun Jie, Chan Chung Hou, Tan Tuan Lin, David Chai and Mark Nivan Singh Singapore Polytechnic
6	4.40pm - 4.50pm	Paper Presentation 25: Designing a Digital Twin Virtual Lab for the Module: PLC Applications, A Case Study Pilot Run by Chia Chew Lin, Rick Chua and Lim Joo Ghee Singapore Polytechnic
6	4.50pm - 5.00pm	Paper Presentation 26: Sustainability Education in a Chemical Engineering Diploma Course via Integration with the Common Core Curriculum by Wong Yunyi, Katerina Yang and Cheah Sin-Moh Singapore Polytechnic
6	5.00pm - 5.10pm	Paper Presentation 27: Online Classroom Flipping for Hybrid Teaching and Learning using AI Chatbots by Tan Chee Wei Nanyang Technological University
6	5.10pm - 5.40pm	Panel Discussion

World Engineers Summit (WES) 2023

Date: 9 November 2023 (Thu)

Time: 9.00am - 5.30pm

Venue: Orchid Ballroom (Level 4) Marina Bay Sands, Singapore

Name of Track Room Track 7 - China Engineers Forum <i>*Programme will be presented in both English and Mandarin</i>		
Track	Timing	Author
7	9.00am – 9.05am	Arrival of Guest-of-Honour Mr Zhu Jing Charge d'affaires Embassy of the People'S Republic of China in the Republic of Singapore
7	9.05am – 9.10am	Welcome Remarks Mr Dalson Chung President IES
7	9.10am – 9.20am	Special Address by Guest-of-Honour Mr Zhu Jing Charge d'affaires Embassy of the People'S Republic of China in the Republic of Singapore
7	9.20am – 9.30am	Opening Address Prof Lionel M Ni President The Hong Kong University of Science and Technology (Guangzhou)
7	9.30am – 10.00am	Keynote Presentation 1: The Construction of Hong Kong-Zhuhai-Macao Bridge and the Latest Development of Bridges in China by Prof Su Quanke Chief Engineer; Professor of Practice The Hong Kong University of Science and Technology (Guangzhou)
7	10.00am – 10.30am	Keynote Presentation 2: Reimagining Engineering Education for Leading Sustainable Innovation by Prof Tang Xiaofeng Associate Professor, Director of the Division of Engineering Education, Associate Dean for the National Graduate College for Engineers Tsinghua University
7	10.30am - 11.00am	Tea Break
7	11.00am – 11.20am	Track Presentation 1: Creating a Multifunctional and Sustainable Solution Space – Kau Yi Chau Artificial Islands in Hong Kong by Ir. Jacky KY Wu Head of the Sustainable Lantau Office, Civil Engineering and Development Department, HKSAR Government
7	11.20am – 11.40am	Track Presentation 2: Research and Application of Floating Sharp Eagle Wave Energy Conversion Technology by Dr Wang Zhenpeng Guangzhou Institute of Energy Conversion
7	11.40am – 12.00pm	Track Presentation 3: HTR Development in China by Prof Dr Li Fu Insitute of Nuclear and New Energy Technology, Tsinghua University, China
7	12.00pm – 12.30pm	Panel Discussion
7	12.30pm – 1.30pm	Lunch