

## 2022 CDIO Asian Regional Meeting: 11-13 October, 2022

Theme:

CDIO and Education for Sustainable Development in the Digital Age

**Day 1 (October 11 2022: Tuesday)**

**Venue for Opening: Auditorium**

9:00 – 9:30	Arrival and Registration of Participants
9:30 – 9:45	<i>Welcome Address</i> <b>Mr. Soh Wai Wah</b> , Principal & CEO, Singapore Polytechnic
9:45 – 10:00	<i>Welcome Speech</i> <b>Mr. Stanley Lee</b> , Senior Director, Temasek Foundation
10:00 – 10:15	<i>Welcome Remarks</i> <b>Mr. Cheah Sin Moh</b> , Centre Director SP CDIO Centre for Innovative Teaching and Learning, Singapore Polytechnic
10:15 – 10:45	Tea Break
10:45 – 11:30	<b>Keynote Speech:</b> <b>Sustainability &amp; the Future of Work – Challenges &amp; Opportunities for Enterprises &amp; Educators</b> <b>Mr Thomas Yeo</b> , Managing Director, CET Global Pte Ltd
11:30 – 12:30	<b>Special Session:</b> <b>Common Core Curriculum in Singapore Polytechnic with Emphasis on United Nation Sustainable Development Goals</b> <b>Ms. Chao Yunn Chyi</b> Senior Director, Common Core Cluster, and Director of School of Mathematics & Science, SP <b>Ms. Lim Lee Yee</b> Director, School of Life Skills and Communication, SP
12:30 – 14:00	Lunch Break
	<b>CDIO Asian Leaders Meeting I</b> <b>Venue: LT14B</b> Please pick up your Institution's Voting Packet – <b>Voting Opens</b>

14:00 – 15:00	<p><b>Agenda:</b></p> <ul style="list-style-type: none"> <li>• Introduction by Ms. Helene Leong</li> <li>• Announcement of Election for Co-Leader for CDIO Asia Region - Procedures</li> <li>• Sharing on new initiative by SP presented at CDIO 2022 @ Iceland: Technical Executives (TE) Competencies Framework</li> </ul>
15:00 – 15:30	Tea Break
15:30 – 17:30	<p><b>Presentation</b></p> <ul style="list-style-type: none"> <li>• Asian Institution(s) wishing to join CDIO Initiative             <ul style="list-style-type: none"> <li>○ (1530 – 1545) Chung Yuan Christian University, Taiwan</li> <li>○ (1545 – 1600) Politeknik Tawau Sabah</li> <li>○ (1600 – 1615) Politeknik Negeri Batam Indonesia</li> <li>○ (1615 – 1630) Batangas State University, Philippines</li> <li>○ (1630 – 1645) East Kazakhstan Technical University</li> <li>○ (1645 – 1700) Oguz Han Engineering and Technology University</li> </ul> </li> </ul>
17:30	End of Day 1

**Day 2 (October 12, 2022: Wednesday)**

9:00 – 9:15	Arrival of Participants to Auditorium		
9.15 – 10:00	<b>Keynote Speech:</b> <b><i>Beyond i4.0: Digital Transformation and the Future of Work</i></b> <b>Dr. Tan Puay Siew</b> , Division Director, Manufacturing System Division in SIMTech, A*STAR <b>Venue: Auditorium</b>		
10:00 – 10:45	<b>Keynote Speech:</b> <b><i>SP's Journey to Digitalization</i></b> <b>Mr. Lim Peng Hun</b> , Deputy Principal (Academic), Singapore Polytechnic <b>Venue: Auditorium</b>		
10:45 – 11:15	Tea Break		
11:15 – 12:30	<b>3 parallel Sharing Sessions – Participants to Choose ONE parallel Sharing Session</b>		
	<b>Sharing Session 1A:</b> <b><i>Application of IoT Technologies to Support Sustainable Development</i></b> by <b>Mr. Niu Tianfang</b> , Senior Lecturer <i>School of Electrical &amp; Electronic Engineering, SP</i>  <b>Venue: LT12A</b>	<b>Sharing Session 1B:</b> <b>Engaging Students in Learning Sustainability Development in the Built Environment</b> by <b>Mr. Ho Yenn Ginn</b> , Course Chair, Diploma in Architecture & <b>Ms. Soo-Ng Geok Ling</b> , T&L Specialist, School of Architecture & Built Environment, SP  <b>Venue: LT12B</b>	<b>Sharing Session 1C:</b> <b><i>Case Study: Digital Fabrication for Sustainable Development</i></b> by <b>Mr. Steven Chew</b> , Senior Specialist <i>Engineering Academy FabLab, SP</i>  <b>Venue: LT14B</b>
	<b>Sharing Session 2A:</b> <b>Learning Points in using CDIO to Design a Non-Engineering Curriculum</b> by <b>Dr Natha Kuptasthien</b> , <i>Rajamangala University of Technology Thanyaburi, Thailand</i>  <b>Venue: LT12A</b>	<b>Sharing Session 2B:</b> <b>KOSEN Education in the Future: Aiming to Nurture Human Resources who can Play an Active Role in 2050</b> by <i>National Institute of Technology Sendai College, Japan</i>  <b>Venue: LT12B</b>	<b>Sharing Session 2C:</b> <b>Green Energy-Driven Fuel Production Toward a Sustainable Future</b> by <b>Dr. Chinh Chien Nguyen</b> , <i>Center for Advanced Chemistry, Duy Tan University, Vietnam</i>  <b>Venue: LT14B</b>
12:30 – 13:30	Lunch		

13:30 – 15:15	Participants new to CDIO will attend Workshop 2, while Participants with CDIO experience will attend the Hackathon, where they will be divided into 2 groups (A and B)		
	<b>Hackathon – 2 Parallel Events</b> Participants will be divided into 2 groups		<b>Workshop 2:</b> <b>CDIO for Beginners &amp; New Collaborators:</b> <b>Brief Introduction to CDIO and Integrating Teamwork &amp; Communication into Engineering Curriculum</b>  <i>Ms Katerina Yang &amp; Dr. Wong Yunyi,</i> <i>Course Management Team, Diploma in Chemical Engineering</i>  <b>Venue: LT12A</b>
	<b>Group A:</b> <b>i4.0 Technologies for supporting Sustainable Development (focus on Student Projects)</b>  <b>Venue: Blk T4A Level 3, Club Ignite</b>	<b>Group B:</b> <b>T&amp;L Practices for Transformative Learning for Sustainable Development</b>  <b>Venue: Colours@Library</b>	
15:15– 15:45	Tea Break		
15:45 – 17:30	<b>Group A: Continued</b>	<b>Group B: Continued</b>	<b>Workshop 2: Continued</b>
17:30	End of Day 2		

**Day 3 (October 13, 2022: Thursday)**

9:15 – 9:30	Arrival of Participants
9:30 – 10:30	<p><b>Keynote Speech: Sustainable Development in Engineering Education – Changing Hand Prints and Foot Prints</b>  <b>Dr. Juha Kontio</b>, Turku University of Applied Sciences, Finland</p> <p><b>Venue: Auditorium</b></p>
10:30 – 11:00	Tea Break
11:00 – 12:00	<p><b>Special Session 2:</b>  <b>Mastery in the Digital Age: Impact on Engineering Education</b>  <b>Dr. Thijs Willems</b>, LKY Centre for Innovative Cities, Singapore University of Technology &amp; Design</p> <p><b>Venue: Auditorium</b></p>
12:00 – 13:30	Lunch - & <b>Voting Closes at 13:30</b>
13:30 – 14:00	<p><b>CDIO Asian Leaders Meeting II</b> Participants: CDIO Asian Leaders  <b>Venue: Blk T4A, Club Ignite Level 3</b></p> <p>Report Back (max 15 mins each):</p> <ul style="list-style-type: none"> <li>• Hackathon Group A (i4.0 Technologies for Sustainable Development) &amp;</li> <li>• Hackathon Group B (T&amp;L Practices for Transformative Learning for Sustainable Development)</li> </ul>

14:00 – 15:30	<p>Sharing by Dr. Juha Kontio and Helene Leong on Peer-to-Peer Review Initiative</p> <p>Moving Forward: Action Plan for Collaboration – Discussion between Collaborators on the following:</p> <ul style="list-style-type: none"> <li>• Peer-to-Peer,</li> <li>• Technical Executives Competencies Framework</li> <li>• T&amp;L for Sustainable Development (e.g. via LeX)</li> </ul>
15:30 – 16:00	Tea Break
16:00 – 16:30	Presentation on hosting 2023 CDIO Asian Regional Meeting
16:30 – 17:00	<p>Discussion and decision on:</p> <ul style="list-style-type: none"> <li>• Outcome of CDIO Application(s)</li> <li>• Outcome of Hosting of 2023 CDIO Asian Regional Meeting</li> <li>• Outcome of Election</li> <li>• Closing Remarks</li> </ul>
17:00	Transport to Orchard Rendezvous Hotel (1 Tanglin Rd, Singapore 247905) for Networking Dinner
18:30 – 21:30	<b>Networking Dinner for all participants</b>
21:30	<b>End of 2022 Asian Regional Meeting</b>