



Ngee Ann Polytechnic
19 – 22 Sep 2017

3rd Joint OC & TPC Meeting
19 Sep 2017

Meeting Agenda

1. **Update of ISATE 2017** *(to be presented by NP)*
 - ISATE Council Meeting
 - Organization / Schedules
 - Programme (Plenary, Institutional Presentations, Workshops & Parallel Sessions)
 - Participants (Personnel and Institution in total)
2. **ISATE 2018 Preparation** *(to be presented by HK IVE)*
3. **Any other matters**
4. **Appreciation Ceremony** *(start at 11:30am)*
 - Presentation of Plaque to ISATE 2017 OC & TPC members
by Mr Clarence Ti/NP Principal & ISATE 2017 Honorary Chair
5. **Lunch**

Attendance list - 3rd Joint OC & TPC Meeting



Ngee Ann Polytechnic
19 – 22 Sep 2017

Symposium Organizing Committee

Name	Institution
Mr. Liang Yee Siong Peter (Chair)	Ngee Ann Polytechnic, Singapore
Mr. Lek Pheow Hwa (Co-Chair)	Ngee Ann Polytechnic, Singapore
Dr. Tsutomu Matsumoto (Advisor)	National Institute of Technology, Japan
Dr. Seiji Fujiwara	National Institute of Technology, Akashi College, Japan
Dr. Katsumi Katakura	National Institute of Technology, Nara College, Japan
Dr. Kazuhito Amanai	National Institute of Technology, Tokuyama College, Japan
Dr. Kentarou Kitamura	National Institute of Technology, Tokuyama College, Japan
Dr. Yasuyuki Shimada	National Institute of Technology, Kumamoto College, Japan
Dr. Yorinobu Toya	National Institute of Technology, Japan
Mr. Lim Joo Ghee	Singapore Polytechnic, Singapore
Dr. Kong Wai Ming	Nanyang Polytechnic, Singapore
Mr. Long Tien Kian	Republic Polytechnic, Singapore
Dr. Eric Liu	Hong Kong Vocational Training Council, Hong Kong
Mr. Lee Kam Fat Jonathan	Hong Kong Institute of Vocational Education, Hong Kong
Dr. Juha Kontio	Turku University of Applied Sciences, Finland
Dr. Sutheera Puntheeranurak	King Mongkut's Institute of Technology Ladkrabang, Thailand
Dr. Akihiro Wakahara	Toyohashi University of Technology, Japan

Attendance list - 3rd Joint OC & TPC Meeting

Technical Program Committee

Name	Institution
Ms. Shirley Williams (Chair)	Ngee Ann Polytechnic, Singapore
Ms. Tan Hui Leng (Co-Chair)	Ngee Ann Polytechnic, Singapore
Dr. Tsutomu Matsumoto (Advisor)	National Institute of Technology, Japan
Dr. Kazutaka Baba	National Institute of Technology, Sendai College, Japan
Dr. Naritoshi Aoyagi	National Institute of Technology, Nagaoka College, Japan
Dr. Ai Takahashi	National Institute of Technology, Tokuyama College, Japan
Mr. Tatsuya Nukushina	National Institute of Technology, Tokuyama College, Japan
Mr. Soh Kim Fai	Singapore Polytechnic, Singapore
Dr. Tony Halim	Temasek Polytechnic, Singapore
Dr. Ching Wee Soon	Nanyang Polytechnic, Singapore
Ms. Cindy Yen	Republic Polytechnic, Singapore
Mr. Tang Sek Man Jimmy	Hong Kong Institute of Vocational Education, Hong Kong
Dr. Narisara Thongboonchoo	King Mongkut's Institute of Technology Ladkrabang, Thailand

Secretariat

Name	Institution
Mr. Goh Wee Tiong	Ngee Ann Polytechnic, Singapore
Ms. Saleha Salleh	Ngee Ann Polytechnic, Singapore

Attendance list - 3rd Joint OC & TPC Meeting

Observers

Name	Institution
Mr. Shiu Chi Yung	Hong Kong Institute of Vocational Education, Hong Kong
Ms. Pamela Lau	Hong Kong Institute of Vocational Education, Hong Kong
Ms. Mavis Lam	Hong Kong Institute of Vocational Education, Hong Kong
Mr. Hideaki Maeda	National Institute of Technology, Japan
Ms. Misako Yamasaki	National Institute of Technology, Japan
Dr. Hideaki Aburatani	National Institute of Technology, Japan
Mr. Benaiah Wee	Republic Polytechnic, Singapore
Dr. Jeeva Periasamy	Republic Polytechnic, Singapore
Ms. Katherina Tan	Temasek Polytechnic, Singapore
Ms. Moeko	National Institute of Technology, Tokuyama College, Japan

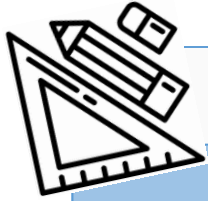
Absence with apologies

Name	Institution
Dr. Motomu Takeshige	National Institute of Technology, Nagaoka College, Japan
Mr. Teo Sze Cheng	Temasek Polytechnic, Singapore
Dr. Tsutomu Takahashi	Nagaoka University of Technology, Japan
Dr. Janne Roslöf	Turku University of Applied Sciences, Finland

NPCC
Ngee Ann Convention Centre

OurSpace@72

MusicBox
@Seventy3,
Classrooms



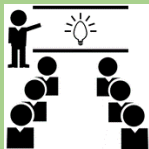
Main Theme

Shaping Competencies for the Future: Practice-Oriented Education in the 21st Century

Sub Themes

Teaching & Learning to Shape Competencies for the Future

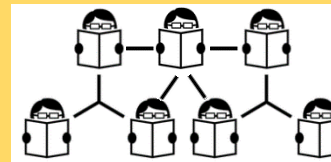
- Approaches
- Education Philosophy
 - Models
 - Strategies



Harnessing ICT to Shape Competencies for the Future



Collaborations in Education to Shape Competencies for the Future



Learning Spaces that Shape Competencies for the Future (Immersive Learning Environment)





Ngee Ann Polytechnic
19 – 22 Sep 2017

ISATE 2017 Programme

Time Start	Day 1 19 Sep	Time Start	Day 2 20 Sep	Time Start	Day 3 21 Sep	Time Start	Day 4 22 Sep					
		8:30	Registration @ Blk 73 level 3			9:00	Excursion (Optional)					
		9:00	Opening Ceremony			9:30						
		9:30	Plenary Session 1 (Singaporean - Industry)			9:30						
		10:00	Plenary Session 2 (NIT/Japan)			10:00						
		10:30	Tea Break			10:00						
10:00	OC & TPC Meeting	11:00	Institutional Presentation 1 (3 speakers - 20 mins each with Q&A)	ISATE 2017 Council Meeting	10:30	Parallel Sessions 3						
						10:30	Sub-theme 1	Sub-theme 2	Sub-theme 3	Sub-theme 4		
11:00	OC & TPC Lunch	12:00	Lunch		12:00	Lunch						
12:30	Registration @ NPCC Foyer	1:00	Parallel Sessions 1				1:00	Institutional Presentation 2 (3 speakers - 20 mins each with Q&A)				
1:30	Welcome Address @ NPCC Level 2		Sub-theme 1	Sub-theme 2	Sub-theme 3	Sub-theme 4	2:00	Session Break				
		2:30	Session Break				2:15	Parallel Sessions 4				
		2:45	Parallel Sessions 2					2:15	Sub-theme 1	Sub-theme 2	Sub-theme 3	Sub-theme 4
			Sub-theme 1	Sub-theme 2	Sub-theme 3	Sub-theme 4	3:45	Tea Break				
2:00	Campus Tour	4:15	Tea Break				4:00	Workshop 2				
		4:30	Workshop 1					4:00	Sub-theme 1	Sub-theme 2	Sub-theme 3	Sub-theme 4
			Sub-theme 1	Sub-theme 2	Sub-theme 3	Sub-theme 4	5:30	Closing Ceremony				
		6:00	Proceed to Banquet				6:00	Evening Tour (Optional)				
5:30	Welcome Reception	7:00	Banquet									

Institution	Registered
Nanyang Polytechnic, Singapore (NYP)	23
Ngee Ann Polytechnic, Singapore (NP)	66
Republic Polytechnic, Singapore (RP)	20
Singapore Polytechnic, Singapore (SP)	14
Temasek Polytechnic, Singapore (TP)	35
Singapore Institute of Technology, Singapore (SIT)	2
National Institute of Technology, Japan (NIT)	93
Toyohashi University of Technology, Japan (TUT)	1
Nagaoka University of Technology, Japan (NUT)	1
Hong Kong Institute of Vocational Education, Hong Kong (HK IVE)	18
King Mongkut's Institute of Technology Ladkrabang, Thailand (KMITL)	8
Metropolia University of Applied Sciences, Finland (MUAS)	2
Turku University of Applied Sciences, Finland (TUAS)	1
Vocational College Universitas Gadjah Mada, Indonesia	2
University of Guanajuato, Mexico	1
Total	287

Registered Participants as of 18 Sep 2017

- 7 countries
- 287 participants
- 56% Singapore
- 44% Overseas

Campus Tour

Day 1 (19 Sep 2017)

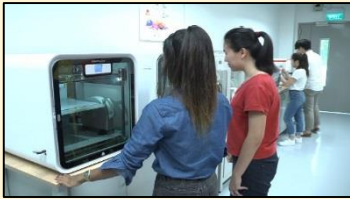
Route 1

Smart & Creative Learning Spaces

Dialogue in the Dark



Design & Environment Studios



Smart Learning Spaces



Aerospace Hub



40 participants

Route 2

Innovation & Entrepreneurship Learning Spaces

The Sandbox



Incubator



Maker's Academy



Design Studios



57 participants

Route 3

Technology Learning Spaces

Robotics & Intelligence Centre



Solar Technology Centre



Health Sciences



Autonomous Mobility Centre
Automation System Centre



57 participants

Number of Symposium Papers (by Institutions)

Institution	Papers
National Institute of Technology (NIT), Japan	67
Nanyang Polytechnic (NYP), Singapore	12
Ngee Ann Polytechnic (NP), Singapore	21
Republic Polytechnic (RP), Singapore	12
Singapore Polytechnic (SP), Singapore	13
Temasek Polytechnic (TP), Singapore	11
Hong Kong Institute of Vocational Education (IVE), Hong Kong	8
King Mongkut's Institute of Technology Ladkrabang (KMITL), Thailand	5
Others [Singapore Institute of Technology, Singapore (2); University of Guanajuato, Mexico (2); Metropolia UAS, Finland (2); Vocational College Universitas Gadjah Mada, Indonesia (2)]	8
Total	157

Parallel Sessions

- Refer to handout for the paper allocation to Parallel Sessions
- Each Presenter has **15 mins** with **Q & A**
(recommend 12 mins for presentation and 3 mins for Q & A)

Summary of Presentations



4

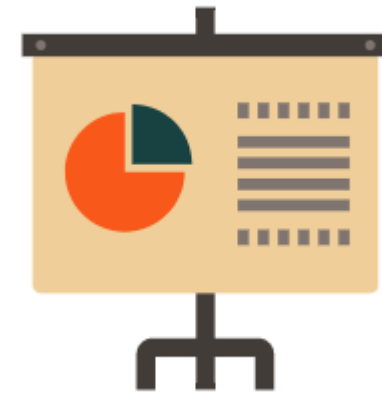
Plenary Sessions



10

Workshops

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177



6

Institutional Speakers



157

Parallel Sessions

Plenary Session

- Music Box Auditorium
- Total 4 sessions; Each session is **30 mins with Q & A**

Day 2 (20 Sep 17)



Plenary Session 1

Preparing The Next Generation to be Prepared for the Unknown

Mr Peter Ho

CEO of HOPE Technik, and
Asst Prof (Adjunct) at NUS.



Plenary Session 2

Educational Reform in KOSEN, JAPAN

Dr Hidenori ISAMI

President of National Institute of
Technology (NIT), Tokuyama College, Japan.

Day 3 (21 Sep 17)



Plenary Session 3

Delivering an Inspiring STEM Education: A Vocational and Professional Education and Training (VPET) Perspective

Dr Eric Liu

Deputy Executive Director of Vocational
Training Council, Hong Kong.



Plenary Session 4

SkillsFuture: Building a Better Future Based on Skills & Competencies

Mr Chan Lee Mun

Chief Skills Officer at Skills Future
Singapore/Skills Development Group.

Institutional Presentation

- Music Box Auditorium
- Total 6 presentations; Each presentation is **20 min with Q & A**

Day 2 (20 Sep 2017) - Session 1

Session Chair: Dr Ai TAKAHASHI (NIT Tokuyama College/Japan)

- Speaker 1: ***PolyMall: A Joint Polytechnic Learning Management System to Encourage Lifelong Learning***
by **Mr Hee Joh Liang** (Joint-Polytechnic/Singapore)
- Speaker 2: ***Quality Assurance System for Engineering Education in KOSEN***
by **Dr Shigeru TADANO** (Executive Director of NIT and
President of NIT, Hakodate College/Japan)
- Speaker 3: ***Aircraft Maintenance Training for Young Talent in Hong Kong***
by **Mr Jimmy Tang** (HK IVE/Hong Kong)

Institutional Presentation

- Music Box Auditorium
- Total 6 presentations; Each presentation is **20 min with Q & A**





Day 3 (21 Sep 2017) - Session 2

Session Chair: Mr Jimmy Tang (HK IVE/Hong Kong)

- Speaker 1: ***Historical Background of Establishing KOSEN***
by **Dr Tsutomu MATSUMOTO** (NIT Bangkok Liaison Office/
Global Strategic Planning and Promotion office/Japan)
- Speaker 2: ***KMITL “The Master of Innovation”***
by **Associate Prof Dr Somyot Kaitwanidvilai** (KMITL/Thailand)
- Speaker 3: ***Lean Principles Applied to University for Enhanced Student Flow***
by **Ms Anne Norström** (TUAS/Finland)

Workshop Sessions

- Total 10 sessions, each session is **90 min**

	Blk 72, Level 2
	Blk 73, Level 5
	NPCC, Level 2
	Studio 27

Day	Teaching & Learning to Shape Competencies for the Future	Harnessing ICT to Shape Competencies for the Future	Collaboration in Education to Shape Competencies for the Future	Learning Spaces that Shape Competencies for the Future
20 Sep 2017 @ 4:30pm	Introduction to Technology Enhanced Team-based Learning <i>Dr Preman RAJALINGAM</i> <i>(NTU Lee Kong Chiang Medical School)</i>	Problem Solving with Blackboard Tools with Mapping <i>Dr Susan D'ALOIA (Blackboard)</i>	Build up 21st Century Student Competencies through Internationalization <i>Mr Jonathan LEE (HK IVE/HK)</i>	Educational Makerspaces for STEM Education <i>Mr Sudhir JHAJHARIA</i> <i>(SP/ Singapore)</i>
	Assessment for the Changing Nature of Work <i>Dr Helen BOUND</i> <i>Dr Silin YANG</i> <i>Dr Arthur CHIA</i> <i>(IAL/ Singapore)</i>			
21 Sep 2017 @ 4pm	Facilitating Active Learning for Technical Subjects <i>Mr LOH Teck Kwang</i> <i>(Pareto Solutions)</i>	Who Works Hardest in Our Classrooms? Practical Tools for Knowledge Co-Creation <i>Assistant Prof Zachary WALKER (NIE)</i>	Preparation students for Globalised World <i>Prof Yasuyuki SHIMADA</i> <i>(Kumamoto NIT/Japan)</i>	Office, Factory, Firm, Accelerator, ... – learning spaces for the future? <i>Prof Juha KONTIO (TUAS/Finland)</i>
				Engaging the Digital Generation: A Studio27 Experience <i>Ms Afida Abdul RAHIM</i> <i>Ms Nur A'ffini ADNAN</i> <i>Mr Stephen SAYSON</i> <i>Ms WONG Wai Leng (NP/ Singapore)</i>

Location of Workshops

Blk 72
Level 2

Blk 73
Level 5



Studio 27

NPCC
Level 2

Opening ceremony

Day 2 (20 Sep 2017)

- Opening ceremony performance
- Welcome address by **Mr Clarence TI** (ISATE 2017 Honorary Chair) – 5 mins
- Welcome address by **Dr Isao TANIGUCHI** (President of NIT) – 5 mins
- Welcome address by **Dr Eric LIU** (Deputy Executive Director of VTC) – 5 mins
- Launch of ISATE 2017



Banquet

Day 2 (20 Sep 2017)

- Joint Polytechnic performance
- Address by **Mr Clarence TI** - 5 mins
- Address by **Dr Isao TANIGUCHI** - 5 mins
- Address by **Dr Eric LIU** - 5 mins *with toast*



Closing ceremony

Day 3 (21 Sep 2017)

- Closing ceremony performance
- Closing address & video collage by **Mr MAH Wee Beng** (Deputy Principal Ngee Ann Polytechnic and ISATE 2017 General Chair) – 10 mins
- Closing address by **Dr Tomoyo MITANI** (Executive Director of NIT and President of NIT Ube College) – 5 mins
- Closing address & ISATE 2018 Presentation by **Mr Jonathan LEE** (Associate Academic Director (Engineering), VTC) – 15 mins

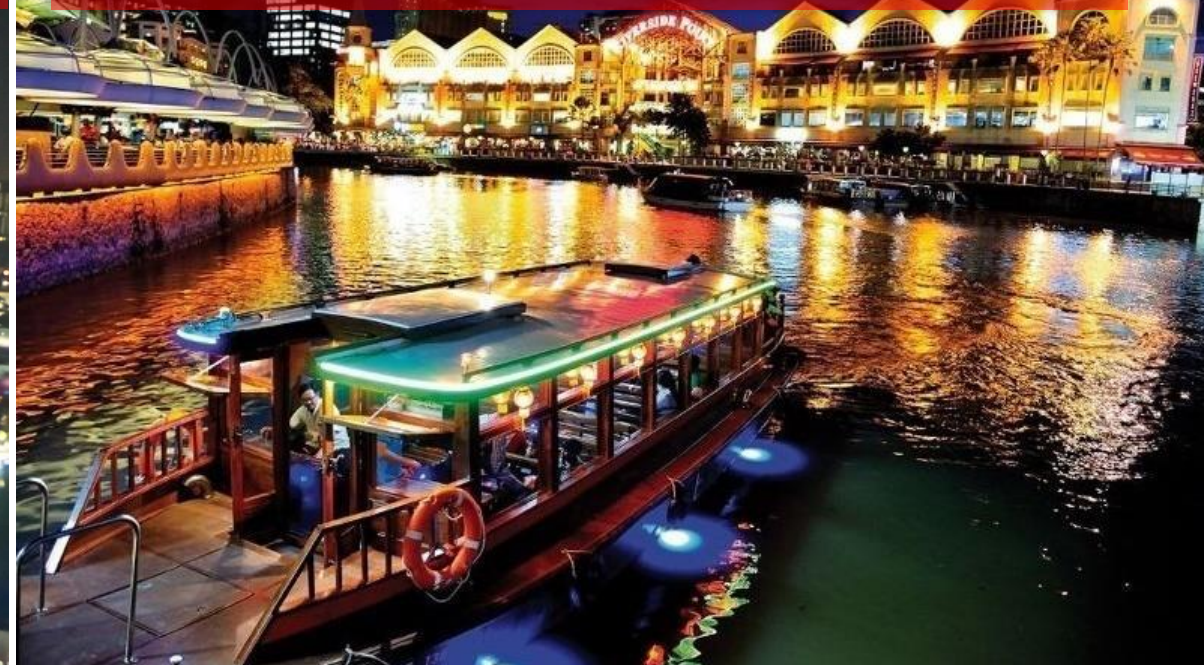
Evening Tour

Day 3 (21 Sep 2017)

Option 1: Encapsulating Singapore – Panoramic Cityscape



Option 2: Colors of the river – A Singapore Tale



26 registered
participants



26 registered
participants



Excursion

Day 4 (22 Sep 2017)

60 registered participants
(maximum)

Water, Garden & Barrage Excursion *(A Tour of Singapore Engineering Marvels)*

