

Programme for DAY 1, 21 November 2017 (Tuesday)		
Main Entrance	Registration Breakfast at the Marquee	0800 – 0845
Opening Ceremony		0845 – 0950
The Annexe Hall 1	Guests to be seated by 0845 Champion of Science Performance by Kuo Chuan Presbyterian Primary School Message by Ms Irene Tan, Chairman, Science Teachers' Association of Singapore Welcome Address by A/Prof Lim Tit Meng, Chief Executive, Science Centre Singapore Opening Address by Mr Ng Chee Meng, Minister for Education (Schools) Award Presentation and Presentation of Tokens of Appreciation Ceremony	0950 – 1050
	Keynote Address 1 <i>Science education for the future: Scientific literacy as a curriculum aim</i> Robin MILLAR, Emeritus Professor of Science Education at the University of York	
Marquee	Tea reception	1050 – 1115
Concurrent Session 1 PAPER PRESENTATIONS		1115 – 1245
Strand: Science Teaching and Learning		
Planck Lab (Level 3)	CS 1.1	[Physics] <i>Developing Student Reasoning Skills and Engagement in PHYSICS using the C.A.R.E Approach and DCLAP Thinking Strategy</i> Suhaila AHMAT SAMS, TEO Siew Lian Rachel, ONG Duen Hong Raymond, THAM Wing Kong Vincent
		[Physics] <i>The Impact of ICT-Mediated Instructional Activities on Students' Physics Self-Efficacy</i> Flavian Brian FERNANDEZ, TAN Hwee Lin, Muhammad Fauzan SAPUAN
		[Physics] <i>Conceptual Understanding of Energy: A Multiple Representations Approach</i> LEE Siew Lin, YAP Boon Chien
Strand: Science Teaching and Learning		
Faraday Lab (Level 3)	CS 1.2	[Biology] <i>Joy of Learning in Science</i> Fazleen BINTE MAHMUD
		[Nutrition and Food Science] <i>Making Thinking Visible – Unpacking the Layers of Meaning in a Food and Consumer Education Lesson</i> TAN Ming Hui, Doris FOONG
		[Physics] <i>Developing Students' Science Inquiry Skills through Visible Thinking Strategies</i> LIM See Wai Edwin, LEE Yeow Hwee Dennis
Strands: Science Literacy and Practices of Science Science Teaching and Learning		
Darwin Lab (Level 3)	CS 1.3	[Biology] <i>Improving Biotech Education & Scientific Literacy Skills through Labster-based Gamified Laboratory Simulations</i> TEO Zhi Xiong Danver, CHIA Pei Xian
		[Chemistry] <i>The Use of Analytical Rubrics for H2 Chemistry Volumetric Analysis Planning</i> KOH Ching Hwee Sharon
		[Lower Secondary Science] <i>PBL as an Inquiry Approach to foster the Joy of Learning Science: A Cognitive Neuroscience Perspective</i> Charles CHEW, Irene TAN, Anna KOH
Strand: Science Teaching and Learning		
The Mendel (Level 1)	CS 1.4	[Chemistry] <i>Making Thinking Visible in Chemistry</i> Christopher SLATTER
		[Chemistry] <i>Modelling Instruction in Electrochemistry and Acid-base Equilibria</i> Jascelyn ANG Qian Lin, CHAN Xin Yu
		[Chemistry] <i>Locational Based Learning in IJC using Memory Palace</i> PUA Weicheng

Strands: Applied Learning in Science Assessment and Evaluation			
Fermi Lab (Level 3)	CS 1.5	[Biology] <i>Developing 21CC in Secondary 2 Students through the Use of Scientific Method and VIA in Project Work</i> Valli SUNDARAM, Andy ZUI Wee Liang, WEE Qi Rong Ronald, NG Meng Yong Evan	
		[Biology] <i>Criteria for Success: A Tool for Assessment, Learning, and Improving Quality of Self-Directed Responses to Written Assessments</i> LYE Yu Min, NG Shu Zhen, ANG Li Fern, Deepti BHATIA	
		[Lower Secondary Science] <i>Secondary 1 Science Curriculum with Skills-based assessment (SBA) and Creative Science Innovations (CSI)</i> Sharlene CHYE Hui Ting, Dennis WANG Yingquan, SEET Yoke Chee, TONG Ying Er, CHEW Ting Ching	
Strands: Science Literacy and Practices of Science Science Teaching and Learning			
The Dalton (Level 3)	CS 1.6	[Primary Science] <i>Inquiry-Based Science Comic as a Medium to Promote Science Literacy on Primary Students</i> Muhammad Randy FANANTA	
		[Primary Science] <i>Incorporating Play into the Flipped Classroom Approach</i> SIA Songling, MOH Choy Ying, SU Yi Zhong, Candice CHEN	
		[Biology] <i>Open Source 3D-Printed Biological Models</i> WONG Lilan, Eunice HUNG, William PHUA	
Concurrent Session 1 WORKSHOPS		1115 – 1245	
Strand: Applied Learning in Science			
Pauling Lab (Level 3)	CS 1.7	[Lower Secondary Science] <i>Applied Learning with Design Thinking and Arduino</i> Kelvin KWOK Tzih Yeung, CHONG Zi Yi, Rodney SEA Chi Huah, Keith LIM Yu Tian, GOH Yuh Mein	
Strand: Science Teaching and Learning			
Eco Lab (Ecogarden)	CS 1.8	[Primary Science] <i>Inquiry in Science: Fun With Toys</i> KONG Su Sze, TAN Soon Shan, Ratna JAINAL, Rugayah MOHAMED ISMAIL	
Strand: New Media and Technologies			
Watson Lab (Level 1)	CS 1.9	[Chemistry] <i>Secondary School Chemistry: ICT in Formative Assessment, Group Work and Pedagogy</i> CHONG Han Guang, KHOO Xiang Yun	
Strand: Science Teaching and Learning			
Crick Lab (Level 1)	CS 1.10	[Chemistry] <i>Inquiry-Based Learning with Titration Curve Simulator (TCS)</i> QIU Yiru, Grace LEONG, Jessica TEO, Jean PHUA	
Marquee	Lunch		1245 – 1400
The Annex Hall 1	Keynote Address 2 <i>The 6 C's of Science: Supporting Science Teaching by Understanding How Science Works</i> William F. McCOMAS, Parks Family Professor of Science Education at the University of Arkansas		1400 – 1500
Marquee	Tea reception		1500 – 1530
Concurrent Session 2 PAPER PRESENTATIONS		1530 – 1700	
Strand: Science Teaching and Learning			
Planck Lab (Level 3)	CS 2.1	[Primary Science] <i>Primary School Students' Attitudes Towards Plants</i> YAP Heng Yeow, Sarah SEAH, Katherine LIM, Nazrah MOHAMAD LATIFF	
		[Primary Science] <i>Use of Variation Theory in the Teaching of Condensation in a Primary Science Classroom</i> LIM Yen Peng Linda, Ameer Ahamed KHAN, Nor Aishah RAMLI, Kamaliah ABDUL JALIL, TAN Mei San	
		[Lower Secondary Science] <i>Use of Design Thinking Approach for Teachers to Develop Lesson Packages to Impart Values in Science Education</i> Juliza ZULKIFLI, Muhammad Khairulnizam BIN A R	

Strand: Science Teaching and Learning		
The Dalton (Level 3)	CS 2.2	[Primary Science] <i>Integrating STEM Professionals' Sharing with Biologically Inspired Engineering: Designing and Evaluating STEM Activities for Young Children</i> LUO Tian, Winnie SO Wing Mui
		[Primary Science] <i>Primary School Science Teachers' Practices with Digitized Textbooks and Factors affecting their Practices</i> Winnie SO Wing Mui, CHEN Yu
		[Others] <i>Bi-Pronged Approach to NT Science Education at Singapore Boys' Home and Singapore Girls' Home: A Balance of Authentic Experience and Structured Rote Learning</i> Senthil SILVARAJOO, Ganeshini PRAKASH, Nicole SUPAI
Strands: Science Teaching and Learning Teachers' Professional Development		
Fermi Lab (Level 3)	CS 2.3	[Chemistry] <i>Use of Learning Study Approach to Teach Strengths of Acids</i> WONG Yoke Ung, KOH Bing Qin, YEO Chee Keong, Mohammed Riffai MAIDIN
		[Biology] <i>The Impact of Learning Study on Teachers' Professional Development</i> Eunice CHAN, TAN Jieying, WONG Fui Yen, Jessica KNAPP
		[Biology] <i>Designing Virtual Laboratories for a Freshmore Biology Course</i> Bina RAI, ZHU Yajuan Julia
Strand: Science Teaching and Learning		
The Mendel (Level 1)	CS 2.4	[Biology] <i>Using ICT Platforms to Implement SDL(Student Directed Learning) and to Infuse Social and Moral Values for Teaching and Learning of AIDS</i> TAN Jin Poh
		[Chemistry] <i>Making Connections and Infusing Values: Learning and Teaching Chemistry in Context</i> Irene TAN
		[Chemistry] <i>Chemistry Value Based Questions as an Alternative to Strengthening Character in High School Students</i> Sulastri, Rusman, Asri Arifa
Strands: Applied Learning in Science Science Teaching and Learning		
Darwin Lab (Level 3)	CS 2.5	[Nutrition and Food Science] <i>Making Food Science Relevant</i> Nur Haryani BINTE MOHAMED HATTA, Gnanamany PHILIP
		[Nutrition and Food Science] <i>The REEE Approach in the Teaching and Learning of Nutrition and Food Science</i> QUEK-CHANG Way Lie, CHENG Soon Kuee Crystal, CHIAM Wende Daniel
		[Nutrition and Food Science] <i>Let's Create using the Experiential Learning Cycle</i> Gloria GURUNG, Mohana D/O S SINNI AH, Kavitha Amara Joyce S RAJOO
Strands: Assessment and Evaluation Science Teaching and Learning New Media and Technologies		
Faraday Lab (Level 3)	CS 2.6	[Biology] <i>Using 4-tier Diagnostic Instrument to Identify Common Misconceptions in Genetics</i> TAN Jian Zhong Adrian
		[Physics] <i>Developing Critical Thinking Skills in Science using Intellectual Standards</i> NG Boon Hwee, Alan Varella JOSEPH, NEO Kian Siah, Joanne NG Li Min
		[Chemistry] <i>Elements 4D: A Beginner's Guide to Using Augmented Reality</i> TAY Su Kian Jamie, SOH Sze Chuan Sabrina, KOH Yilin Sheryl, Martin LEE Tze Chuen

Strands: Science Literacy and Practices of Science Applied Learning in Science Assessment and Evaluation		
Pauling Lab (Level 3)	CS 2.7	[Physics] <i>Deepen Students' Conceptual Understanding and Nature of Scientific Knowledge (NOS)</i> QUEK Siew Ling, LEE Siew Lin, LIN Li
		[Lower Secondary Science] <i>Development of STEM Performance Tasks for Applied Learning in SST</i> TAN Hoe Teck
		[Others] <i>Learning Analytics of Student Data</i> Norman LEE, Oka KURNIAWAN, NG Geok See
Concurrent Session 2 WORKSHOPS		1530 – 1700
Strand: Science Teaching and Learning		
Eco Lab (Ecogarden)	CS 2.8	[Physics] <i>Design of Practical Work for Physics Instruction</i> WONG Jon Sien Darren, LEONG Tze Kwang, YANG Yarong, TAN Zhiming Darren
Strand: Science Teaching and Learning		
Watson Lab (Level 1)	CS 2.9	[Others] <i>Fostering Intrinsic Motivation and Sustained Engagement amongst Lower Progress Learners through Fun and Simple Design-Based Science Activities</i> Muhammad Nazir BIN AMIR
Strand: Science Teaching and Learning		
Crick Lab (Level 1)	CS 2.10	[Others] <i>Learning Science through Experiential Learning Cycle (ELC)</i> CHAN Kin Chuah, ZHONG Wanying, TOH Siew Kim