

**ISEC 2006 PROGRAMME**

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Venue and Time	Day	Name	Paper Title	Additional Presenters Names	Paper
<b>Day 1: Wednesday, 22 November 2006</b>					
<b>Keynote Speakers</b>					
LT 1 0930 - 1030	Day 1	Jonathan Osborne	Science Education for the 21st Century		Keynote
LT1 Foyer 1030 - 1130	Day 1	<b>Refreshment Break: Brunch</b>			
LT 1 1130 - 1230	Day 1	Wolff-Michael Roth	Learning Science in Informal Settings		Keynote
<b>Invited Speaker</b>					
LT 1 1230 - 1330	Day 1	Chin-Chung Tsai	The development of epistemological understanding about science through online inquiry activity		Keynote
LT1 Foyer 1330 - 1400	Day 1	<b>Refreshment Break</b>			
<b>Concurrent Session: Science Education and ICT I</b>					
TR 51 1400 - 1700	Day 1	Hwang Sungwon	Knowing and learning in computer-based science laboratory: an embodied dialectic perspective of human-computer interaction	2. Wolff-Michael Roth	Paper
TR 51 1400 - 1700	Day 1	Noor Isham Sanif	Use of PDA Dataloggers in Science Fieldtrips promote critical thinking	2. Lim Choon Hui	Paper
TR 51 1400 - 1700	Day 1	Widayah Othman	Science Education for Sec 3: Webquest works!	2. Wong Woei Ling 3. Kiranjeet Kaur Dhot 4. Yue Ee Theng	Paper
TR 51 1400 - 1700	Day 1	Chia-Ju Liu	The effects of students' emotions on forming representations of Plate Tectonics concepts	2. I-Lin Hou	Paper
TR 51 1400 - 1700	Day 1	Yashwantrao Ramma *	Engaging students to develop conceptual understanding in physics using ICT	2. Jaguthsing Dindyal 3. Kah Chye Tan 4. Mohun Cyparsade	Paper
<b>Concurrent Session: Science Education Curriculum and Assessment</b>					
TR 52 1400 - 1700	Day 1	Ang Kok Cheng	Exploring the use of reflective MCQ in Primary Science Formative Assessment	2. Boo Hong Kwen	Paper
TR 52 1400 - 1700	Day 1	Deepa Parkash Nanwani	Reforming Secondary School Curricula for a 'Global Singapore'. Is There a Need for it?	2. Diana Ang Tiong Joo	Paper
TR 52 1400 - 1700	Day 1	Lye Ai Fern	A Comparative Study of the Development of Meta-cognitive Skills in High Ability Students: A Teacher-Crafted Assessment Task Versus a Student-Designed Assessment Task	Nil	Paper
TR 52 1400 - 1700	Day 1	Rekha B Koul	Development, Validation and Application of an Assessment Questionnaire Using Student Perceptions	2. Darrell Fisher	Paper
TR 52 1400 - 1700	Day 1	Tern Hui Kuan *	Teaching Science to Lower Primary	2. Fitri Isnawati Yaacob	Paper
<b>Concurrent Session: Science Education and Teaching</b>					
TR 53 1400 - 1700	Day 1	Ang Poh Qin	Teaching of Science through Inquiry Approach	Nil	Paper
TR 53 1400 - 1700	Day 1	Grace Chong Se Main	Living the da Vincian Principles	2. Joseph Chong Perng Shyang	Paper
TR 53 1400 - 1700	Day 1	Jamaliah Mohamad Saleh	Investigating the use of SAIL for the teaching of Lower Secondary Science	2. Tan Teck Nam 3. Teng Siew Lee	Paper
TR 53 1400 - 1700	Day 1	Rachel Abadi	Critical and Creative Thinking in Science Education: An active model for teaching / learning Comprehensive Understanding	2. Taha Massalha	Paper

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TR 53 1400 - 1700	Day 1	Velicia Foo Wei Tint *	Simply Amazing Machines!	1. Noryati Abdul Rahman 2. Genevieve Chow	Paper
<b>Concurrent Session: Assessment in Science</b>					
TR 54 1400 - 1700	Day 1	Boo Hong Kwen	Primary science examination question setters' misconceptions of life science concepts	Nil	Paper
TR 54 1400 - 1700	Day 1	Ling Yuan	Concept Mapping and Pupils' Learning in Primary Science in Singapore	2. Boo Hong Kwen	Paper
TR 54 1400 - 1700	Day 1	Chen Man Yi Geraldyn	Alternative Assessment Modes – Can we stimulate and improve students' motivation and interest towards academic excellence?	2. Chiang Shu Lee	Paper
TR 54 1400 - 1700	Day 1	Chia Puay Hua (Mike)	Formative Assessment for Primary Three Pupils	Nil	Paper
TR 54 1400 - 1700	Day 1	Iris Chai Hong Lee	What works and what would be in store for the primary science assessment in a Knowledge-based economy	Nil	Paper
TR 54 1400 - 1700	Day 1	Phillip A Towndrow *	Transforming science practical assessment practices in Singapore through innovative departmental planning	2. Tan Aik Ling	Paper
<b>Concurrent Session: Teaching and Learning by Inquiry</b>					
TR 56 1400 - 1700	Day 1	A. L. Chandrasegaran	The evaluation of an instructional programme for facilitating grade 9 students' use of multiple representations to describe and explain simple chemical reactions	2. David F. Treagust 3. Mauro Mocerino	Paper
TR 56 1400 - 1700	Day 1	Cheong Szu Chuang	Engaging Students Using an Adapted Physics by Inquiry (Pbl) Approach in Kinematics	2. Lau Chor Yam 3. Darren Wong	Paper
TR 56 1400 - 1700	Day 1	Kim Nichols	Teaching and learning the new sciences: A case for interdisciplinary inquiry-based learning	2. Jim Davies	Paper
TR 56 1400 - 1700	Day 1	Pi-Chu Kuo	What students learn in a science camp communicating with unfamiliar language: the interaction between scientific inquiry and English learning	Nil	Paper
TR 56 1400 - 1700	Day 1	Ravhee Bholah *	Use of inquiry methods in teaching science issues connected with health.	2. Bunally Musaphur Faranaz Begum	Paper
<b>Concurrent Session: Exploring Different Platforms for Instruction - I</b>					
TR 58 1400 - 1700	Day 1	Karen C Goodnough	Teaching and Learning through Action Research: Generating Knowledge-of-Practice.	Nil	Paper
TR 58 1400 - 1700	Day 1	Khoo Tse Horng	Learning about the Nature of Science through the History of Science and through Blogging - An Exploratory Study	2. Boo Hong Kwen	Paper
TR 58 1400 - 1700	Day 1	Lim Han Hock Jeffrey	From Tatters to Tapestry: Media as a Weaver in Chemistry Learning	2. Lim Choon Huat Bryan 3. Ng Wee Hock John 4. Zalinah Sarpai 5. Cheong Yin Yin Adeline 6. Tan May May Daphne	Paper
TR 58 1400 - 1700	Day 1	Yoong Jin Ing	Approaching the Concepts in Acids by "Learning Stations"	2. Ong Mei Sze 3. Wee Suat Hwa	Paper
TR 58 1400 - 1700	Day 1	Diana T J Ang	Mentoring for career development	Nil	Paper
TR 58 1400 - 1700	Day 1	Nur'ashikin Hassan *	Science Education Reforms Pertinent to the Singapore Education System.	2. Diana Ang Tiong Joo	Paper

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Venue and Time	Day	Name	Paper Title	Additional Presenters Names	Paper
<b>Concurrent Session: Exploring Different Platforms for Instruction - II</b>					
TR 72 1400 - 1700	Day 1	Albert Hsiung Liang-yuan	Improving the Image Processing Capability of Students of Information & Communication and Design Department – A Case on Processing Aerial Images with Adobe Photoshop®	2. Dan-Pai Feng 3. Ming Hua Chang 4. Jing Yun Fan	Paper
TR 72 1400 - 1700	Day 1	Har Hui Peng	Science Project Work: A Platform for Independent Learning	1. Lim Teck Huat	Paper
TR 72 1400 - 1700	Day 1	Jason Tan S C	The Method of the Design Journal – A Case	2. Mohammed Hafiz 3. Chia Soo Chin	Paper
TR 72 1400 - 1700	Day 1	Peter F G Renwick	Understanding expertise in design thinking and design problem structuring.	Nil	Paper
TR 72 1400 - 1700	Day 1	Wong Yi Lin *	Motivation Situation in the subject Design and Technology in Singapore Schools	2. Yau Che Ming	Paper
<b>Concurrent Session: Research Methods</b>					
LT 1 1400 - 1530	Day 1	Lee Yew Jin	Educational research for the fainthearted	2. Tan Aik Ling 3. Tan Kim Chwee, Daniel 4. Tan Seng Chee	Symposium
LT 1 1530 - 1630	Day 1	Paul Abbott	Mathematica in Science Education - the Software for creative minds		Talk
<b>Concurrent Session: Workshops</b>					
Biology Lab 1400 - 1700	Day 1	Tan Kok Siang	Student-designed Experiments in Secondary School Science	Nil	Workshop (3 hours)
Science Lab 1400 - 1700	Day 1	David E Quinn	Physics for 4-year olds: A method for promoting open and focussed exploration for young children in everyday contexts	2. Lynn Chapman	Workshop (3 hours)
<b>Concurrent Session: Publishing and DNA</b>					
LT 2 1400 - 1500	Day 1	Michel Lokhorst	Writing and Publishing for Beginners		Talk
LT 2 1500 - 1600	Day 1	Harmen van Paradijs	Writing and Publishing for Beginners		Talk
LT 2 1600 - 1700	Day 1	David Miklos	DNA Science		Talk
<b>Poster Session</b>					
TR 43A 1700 - 1800	Day 1	Goh Ho Laye	Promoting Research Culture Using Interest-Directed Programme	2. Wun Soen Tien 3. Ler Puay Song	Poster
TR 43A 1700 - 1800	Day 1	Heesook Yoon	Understanding and Revision of a Method to Measure Chemical Reaction Rates in High School Chemistry Class and Its Application to the Chemistry Class	2. Chui-Im Choi 3. Wonho Choi 4. Jiyeon Han 5. Dae Hong Jeong	Poster
TR 43A 1700 - 1800	Day 1	Hunkoog Jho	A Science Culture In-Service Program for Science Teachers' Professional Development in Korea	2. Eunhyung Kang 3. Jinwoong Song	Poster
TR 43A 1700 - 1800	Day 1	Kyoungdae Kim	Scientifically Gifted Students' Views on the Nature of Science	2. Soon Min Kang 3. Jai-Hang Lim	Poster
TR 43A 1700 - 1800	Day 1	Min Soo Jung	TIME Model of Question-Inducing Strategy for Interactive Teaching and Learning in Science Class	2. Meesook Park 3. N. Seunghyeon Gim 4. Hee K. Chae	Poster

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TR 43A 1700 - 1800	Day 1	Charles Low Soo Peng	Using blogs to enhance the independent learning of Biology	Nil	Poster
TR 43A 1700 - 1800	Day 1	Chui-Im Choi	The Type of problems and Patterns of problem-solving in Science Journal Writing for scientifically gifted students	2. Miran Chun 3. Min Soo Jung 4. Hee K. Chae 5. Dae Hong Jeong	Poster
TR 43A 1700 - 1800	Day 1	Taeil Kim	A Comparative Study on Inquiry Activities in Korean and Singaporean Secondary School Science Textbooks	2. Jongchan Park 3. Donghun Kim 4. Kwangmun Shin 5. Jaebong Lee 6. Sungmuk Lee	Poster
TR 43A 1700 - 1800	Day 1	Jayeong Lee	Nanoscience experience for secondary school students: a case study using atomic force microscopy of dental decay	2. Dongryul Jeon	Poster
TR 43A 1700 - 1800	Day 1	Ki Seok Park	Effect of CPS-based science gifted education program on improvement of creative problem solving ability	2. Jae Ki Lee 3. Mi Ran Chun 4. Kyu Tae Kim 5. Sang-Hak Jeon	Poster
TR 43A 1700 - 1800	Day 1	Mi-Hyun Yoo	The Effect of Small-Scale Chemistry(SSC) Lab Program on Student's Science Achievement, Science Related Affective Domain and Academic Self-Efficacy in High School Chemistry	2. Heesook Yoon 3. Hun-Gi Hong	Poster
TR 43A 1700 - 1800	Day 1	Sukkyoung Seong	Reconsideration of Experiment on Reactivity of Metals in Chemistry II	2. Ji Yun Han 3. Chui Im Choi 4. Dae Hong	Poster
Rainforest Cafe 1800 - 2000	Day 1	<b>Welcome Dinner</b>			

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<b>Day 2: Thursday, 23 November 2006</b>					
<b>Keynote Speakers</b>					
LT 1A 0900 - 1000	Day 2	David Treagust	Multiple Representations in Learning Science; Diagnostic Assessment	Nil	Keynote
LT 1A / NTU 1000 - 1030	Day 2	<b>Refreshment Break</b>			
LT 1A 1030 - 1130	Day 2	Jonathan Osborne	Osborne Singapore Lecture	Nil	Lecture
<b>Invited Speaker</b>					
LT 1A 1130 - 1230	Day 2	William McComas	Nature of Science in Science Education	Nil	keynote
LT 1 Foyer 1230 - 1330	Day 2	<b>Lunch</b>			
<b>Concurrent Session: Learning Science Through Play</b>					
TR 51 1330 - 1500	Day 2	Munirah Shaik Kadir	Learning Physics: The "Play-N-Learn" Approach	2. Yau Che Ming	Paper
TR 51 1330 - 1500	Day 2	Supriyadi	Resource-Based Information-Mapping Media for Secondary School Teacher of Physics	Nil	Paper
TR 51 1330 - 1500	Day 2	Stella Fernandez *	Budding Scientists	2. Razinah Abu Bakar	Paper
<b>Concurrent Session: Problem Based Learning</b>					
TR 52 1330 - 1530	Day 2	Lee Wei Chai	Learning Newton's 1st Law of Motion through Problem-based learning	2. Ho Boon Tiong	Paper
TR 52 1330 - 1530	Day 2	Zhang Baohui	Using Mobile Learning Technologies for Primary Environmental Education In Singapore schools	2. Nicholas Tan 3. Chee Kit Looi 4. Sen Kee Seow 5. Teck Tiong Oh 6. Wenli Chen 7. Tze Min Chung	Paper
TR 52 1330 - 1530	Day 2	Zhang Baohui	Middle school science students' computer-based models and how they change over time	Nil	Paper
TR 52 1330 - 1530	Day 2	Tan Kok Kim *	Perspectives of Students on Using Problem Based Learning in Teaching Science	Nil	Paper
<b>Concurrent Session: Exploring Different Platforms for Instruction - III</b>					
TR 72 1330 - 1530	Day 2	Fung Sun Wai Leo	Enhancing Teachers' Professional Development in Scientific Investigation through the Uses of Data-loggers	Nil	Paper
TR 72 1330 - 1530	Day 2	Fung Sun Wai Leo	Experience Sharing in Piloting Curriculum Compacting in Hong Kong: Case Study in Teaching Primary Students DNA Concepts as Replacement Activities	Nil	Paper
TR 72 1330 - 1530	Day 2	Shien Chue	Latent Power and Control: The Semiotic Landscape of an Organic Chemistry Classroom in Singapore	2. Lee Yew Jin 3. Daniel Tan Kim Chwee	Paper
TR 72 1330 - 1530	Day 2	Lynn A Bryan *	How Do We Know "What Works"?: Designing an Evidence-Based Approach to Analysis of Teaching Practices Using a Web-Based Video Analysis Tool	2. Art Recesso	Paper

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<b>Concurrent Session: Hands-On &amp; Minds-On Science Learning</b>					
TR 53 1330 - 1500	Day 2	Hye-Gyoung Yoon	Understanding Science Experiments With Science Drama	Nil	Paper
TR 53 1330 - 1500	Day 2	Jon-chao, Hong	A Study of Technological Curiosity through LEGO Hands-on Learning	2. Chi-hung, Tseng	Paper
TR 53 1330 - 1500	Day 2	Shawn K.Y. Lum *	Stepping Out: Inquiry Learning for Biology	2. Tan Beng Chiak	Paper
<b>Concurrent Session: Science Education Research - I</b>					
TR 62 1330 - 1500	Day 2	Yu-Li Chiu	Promoting Learners' Understanding of the Innovative Knowledge of Science and Technology by Workshop about Technical News Development	Nil	Paper
TR 62 1330 - 1500	Day 2	Ravhee Bholah	Action-based research on compost enhances teaching and learning of science	2. Cyparsade M 3. Mathoor K 4. Ramdhinny A 5. Naugah J	Paper
TR 62 1330 - 1500	Day 2	So Wing-mui Winnie *	Building resource-based learning environment for inquiry learning	2. Kong Siu-Cheung	Paper
<b>Concurrent Session: Conceptual Development in Science Education</b>					
TR 54 1330 - 1530	Day 2	Nookorn Pathommapas	The Impact of a Series of Predict-Observe-Explain tasks on Thai University Students' Understanding of Concepts in Electrochemistry	2. David Treagust	Paper
TR 54 1330 - 1530	Day 2	Wong Siu Ling, Alice	Professional training for the teaching of the nature of science – What works best	2. Benny H.W. Yung	Paper
TR 54 1330 - 1530	Day 2	Vina Serevina	Accountability of Education Institute in Indonesia	Nil	Paper
TR 54 1330 - 1530	Day 2	Yap Kueh Chin *	Three decades of research on alternative conceptions in science education, what do we do now?	2. Joseph Philip Riley 3. Wong Chee Leong	Paper
<b>Concurrent Session: Constructivism in Science Education</b>					
TR 56 1330 - 1500	Day 2	Jirakarn Hongchuta	Grade 1 to Grade 6 Student Existing Ideas about Energy	2. Chokchai Yuenyong	Paper
TR 56 1330 - 1500	Day 2	Tan Aik Ling	"But I haven't taught them yet!": Knowledge building perils	2. Tan Seng Chee	Paper
TR 56 1330 - 1500	Day 2	Yong Jae Joung *	What do children do in everyday life to construct their scientific knowledge? : A case study of a 5-year-old's experience	Nil	Paper
<b>Concurrent Session: Curriculum Development in Science Education - I</b>					
TR 58 1330 - 1500	Day 2	Cheng May-Hung May	Teaching Nature of Science in a junior secondary science curriculum	Nil	Paper
TR 58 1330 - 1500	Day 2	Cheng May-Hung May	Implementing Science education in an integrated curriculum at primary level- threats and opportunities	2. So Wing-Mui Winnie	Paper
TR 58 1330 - 1500	Day 2	Judy M Morris *	Science Education and the English Second Language Learner: Students' and their teachers' struggles with language and science concepts	2. David Treagust	Paper

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<b>Concurrent Session: Curriculum Development in Science Education - II</b>					
TR 59 1330 - 1500	Day 2	Rahman Abu Zayed Mohammad Saliqur	A Study of Educational Achievement of Grade 4 and Grade 8 Students of Bangladesh in Science Using TIMSS: Comparison with International Average	Nil	Paper
TR 59 1330 - 1500	Day 2	Pi-shan Hsu	Misconception Changes of Science Knowledge through Science-Related Picture Books and Cooperative Learning--Photosynthesis	2. Jon-Chao Hong 3. Ko-Li Chang 4. Te-Jeng Chang	Paper
TR 59 1330 - 1500	Day 2	T Subahan Mohd Meerah *	Curriculum Model for Malaysian Secondary Science Education: A Scientist Entrepreneurial Approach	2. Lilia Halim 3. Kamisah Osman 4. NorAishah Buang	Paper
<b>Concurrent Session: Design and Technology Education</b>					
TR 60 1330 - 1530	Day 2	Jason Tan S C	Use of SketchBook Pro with Tablet PC as a Design Thinking Tool in the Teaching and Learning of Design & Technology	2. Chia Soo Chin	Paper
TR 60 1330 - 1530	Day 2	Mohammad Hafiz Imran	Real-time Design Journal – a framework for understanding secondary school design-process-facilitation pedagogical content knowledge	2. Quek Wee Siong 3. Chia Soo Chin 4. Tan Seng Chong, Jason	Paper
TR 60 1330 - 1530	Day 2	Peter F G Renwick	Real world contexts and integrative projects: future potential for Design and Technology education.	Nil	Paper
TR 60 1330 - 1530	Day 2	Yau Che Ming *	Technology-n-Design (China) and Design-n-technology (Singapore) in Secondary Schools: Brief comparison	2. Ge Li	Paper
<b>Symposia</b>					
LT 4 1330 - 1500	Day 2	Steve Alsop	Exploring the effects of affect: Contrasting studies and methodological reflections of emotions in and emotions of science education	2. Houn-Lin Chiu 3. Karen Goodnough 4. Chia-ju Liu	Symposium
LT 8 1330 - 1500	Day 2	Lim Choon Huat Bryan	Equal Opportunity for Learning: A Multiple-Intelligence Based Teaching Curriculum	2. Lim Han Hock Jeffrey 3. Ng Wee Hock John 4. Zalinah Sarpai 5. Cheong Yin Yin Adeline 6. Ang Lay Poh Sarah	Symposium
<b>ICT for Classroom Teachers</b>					
LT 2 1330 - 1430	Day 2	Paul Abbott	Mathematica in Science Education - the Software for creative minds	Nil	Talk
LT 2 1430 - 1530	Day 2	Craig Frehlich	Using ICT to Facilitate Ongoing Assessment for Learning in Science Education	Nil	Workshop
<b>Workshop</b>					
Science Lab 1330 - 1530	Day 2	David E Quinn	The Five-Part Lesson: A method for implementing constructivist teaching through science enquiry	2. Lynn Chapman	Workshop
LT 1 1500 - 1600	Day 2	<b>Refreshment Break</b> <i>Please allow sufficient time to return to LT 1A (NTU) for the Roth Singapore Lecture</i>			
<b>Keynote Speaker</b>					
LT 1A 1600 - 1700	Day 2	Wolff-Michael Roth	Roth Singapore Lecture	Nil	Lecture

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<b>Day 3: Friday, 24 November 2006</b>					
<b>Concurrent Session: Science Education Epistemology</b>					
TR 51 0900 - 1030	Day 3	Teo Chew Lee	Rethinking curriculum integration with an epistemic perspective	Nil	Paper
TR 51 0900 - 1030	Day 3	Jarina Peer	Examining Shifts in Students' Scientific Epistemology: 'Purpose of Science' in a high-school science classroom	2. Looi Chee Kit	Paper
TR 51 0900 - 1030	Day 3	Michael A. Linich	Using ICT to Teach the Modern Concept of the Gene	Nil	Paper
TR 51 0900 - 1030	Day 3	Rosalina M. Makalintal *	Personal Characteristics of Biology High School Students With their Attitudes and Scholastic Achievement	Nil	Paper
<b>Concurrent Session: Learners' Perceptions of Science</b>					
TR 52 0900 - 1030	Day 3	Francis Jude Yam Hai Sun	The Men in White; Children's Perceptions about Scientists	Nil	Paper
TR 52 0900 - 1030	Day 3	May M Abonal	Students' Alternative Conceptions on Biotechnology	Nil	Paper
TR 52 0900 - 1030	Day 3	Ramon S. Morales	Conceptual Change in Physics through Anchored Instruction	Nil	Paper
TR 52 0900 - 1030	Day 3	Yeo Ai Choo Jennifer *	Making Sense of a, b, c's of Science	2. Seng Chee Tan	Paper
<b>Concurrent Session: Science Education Research - II</b>					
TR 53 0900 - 1030	Day 3	Sevgi Kingir	Factors Affecting Science Achievements	Nil	Paper
TR 53 0900 - 1030	Day 3	Sevgi Kingir	Analysis of Students' Misconceptions in Rate of Reaction	2. Ömer Geban	Paper
TR 53 0900 - 1030	Day 3	Lucille Lee Kam Wah	Some Difficulties Encountered in Fostering Creativity in Science Education	2. Goh Ngoh Khang 3. Chia Lian Sai 4. Wan Yoke Kum 5. Lee Chui Eng	Paper
TR 53 0900 - 1030	Day 3	Tang Kok Sing *	Constructive Uses of Authoritative Sources for Collaborative Science Learning	2. Jennifer Yeo 3. Tan Seng Chee	Paper
<b>Concurrent Session: Science Teacher Preparation &amp; Development - I</b>					
TR 54 0900 - 1030	Day 3	Benny Hin Wai Yung	Preparing Students for Examination: A Divided View Among Teachers' and Students' Conceptions of Good Science Teaching	2. Fei Yin Lo 3. Siu Ling Wong	Paper
TR 54 0900 - 1030	Day 3	Paul Denley	Defining a progression framework for auditing professional development for science teachers	Nil	Paper
TR 54 0900 - 1030	Day 3	Jinwoong Song	Developing A Model of Science Culture Indicators(SCI):Considering Both Individual-Social Dimensions and Potential-Practical Aspects	2. Jaehyeok Choi 3. Minkyung Jung 4. Heekyong Kim	Paper
TR 54 0900 - 1030	Day 3	Wangsuk Lee *	Secondary School Students' Images of Doing-Science-Well: Its Types and Situations	2. Heekyung Kim 3. Jinwoong Song	Paper
<b>Concurrent Session: Pre-Service Teacher Education</b>					
TR 56 0900 - 1030	Day 3	Chatree Faikhamta	Exploring Pre-Service Science Teachers' Chemistry Content Knowledge	2. Vantipa Roadrangka 3. Pensri Bunsawansong	Paper
TR 56 0900 - 1030	Day 3	Sule Bayraktar	Misconceptions of Turkish Pre-Service Teachers About Force and Motion	Nil	Paper
TR 56 0900 - 1030	Day 3	Ruth Lebes-Gelvezon *	MSPACE- Parents' Engagement with Kids' Science and Mathematics Learning in School: Implications to Elementary Teacher Preparation	2. Genesis Camarsita 3. Jonathan C. Glorial 4. Myra Angelie de los Santos 5. Arturo Souribio	Paper

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<b>Concurrent Session: Science Education Research - III</b>					
TR 58 0900 - 1030	Day 3	Brady Michael Jack	Five Factors that Indicate Whether Taiwan In-Service Elementary Science Teachers Lean Towards a Meaningful or Cookbook-Science Style of Instruction	2. Chia-Ju Liu	Paper
TR 58 0900 - 1030	Day 3	Joseph Riley	Physical Science Misconceptions: Moving from Identification to Intervention	2. Yap Kueh Chin 3. Toh Kok-Aun 4. Boo Hong Kwen 5. Ho Boon Tiong	Paper
TR 58 0900 - 1030	Day 3	Teresita Dinal-Taganahan *	Epistemological Beliefs and Conceptual Understanding of Force and Motion in an Active-Learning Classroom and with Self-Reflections	Nil	Paper
<b>Concurrent Session: Science Education Research - IV</b>					
TR 59 0900 - 1030	Day 3	Bruce Etherington	Communicating the Excitement of Science: Linking Practising Scientists with Schools to Enhance Curriculum and Teacher Development	Nil	Paper
TR 59 0900 - 1030	Day 3	Jon-chao Hong	A Study of Using the Magic Scientific Toys to Enlighten the Curiosity of Science	2. I-Wei Lin	Paper
TR 59 0900 - 1030	Day 3	Panwilai Chomchid *	Using 3D Visualization and Hands-on Dynamic VAST-Models and Animations to Enhance Instruction for Atomic Structure and the Periodic Table	2. Norman Thomson	Paper
<b>Concurrent Session: Science Misconceptions Research</b>					
TR 60 0900 - 1030	Day 3	Chokchai Yuenyong	Teaching and Learning about Energy in Thailand: Science, Technology and Society (STS) Approach.	2. Alister Jones 3. Sunan Sung-ong 4. Naruemon Yutakom 5. Mike Forret	Paper
TR 60 0900 - 1030	Day 3	Pongprapan Pongsophon	The Development of Evolution Learning Unit for Thai High School Students	2. Vantipa Roadrangka 3. Alister Jones	Paper
TR 60 0900 - 1030	Day 3	Taha Massalha	Study of Teachers and Student's Perceiving Mass, Size and Distance In the Atomic World and The Astronomic World	2. Rachel Abadi	Paper
TR 60 0900 - 1030	Day 3	Tan Seng Chee *	"Because the light brightens the tree" – Building on pupils' naïve conceptions	2. Lee Chwee Beng	Paper
<b>Concurrent Session: Biology Education in Thailand</b>					
TR 62 0900 - 1030	Day 3	Achara Jinvong	The use of a constructivist teaching approach to change misconception about AIDS	2. Darrell L Fisher	Paper
TR 62 0900 - 1030	Day 3	Nantararat Puengpang	First Year Science Student Teachers' Biology Concepts	Nil	Paper
TR 62 0900 - 1030	Day 3	Sukanya Sootapan	Learning Outcome of Instruction Using CIPPA Model Lesson Plan of Undergraduate Students in the Biology for Teacher	2. Wimol Sumranwanich 3. Janjira Singhamat 4. Soawanee Sangkakee 5. Napapan Aemsamang	Paper
TR 62 0900 - 1030	Day 3	Thasaneeya Ratanaroutai *	A Case Study of Conceptual Development in Genetics of Disadvantaged Thai High School Students	2. Naruemon Yutakom 3. Gunjana Theeragool	Paper

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Venue and Time	Day	Name	Paper Title	Additional Presenters Names	Paper
<b>Concurrent Session: Knowledge, Skills and Attitudes in Science</b>					
TR 63 0900 - 1030	Day 3	Lay Yoon Fah	The Influence of Science Process Skills, Logical Thinking Abilities, Attitude Towards Science, and Locus of Control on Science Achievement Among Form 4 Students in the Interior Division of Sabah, Malaysia	Nil	Paper
TR 63 0900 - 1030	Day 3	Wimol Sumranwanich	The Effect of the Student Centered Approaches on Students' Learning in the Nature of Science	Nil	Paper
TR 63 0900 - 1030	Day 3	Ong Saw Lan	Comparing Acquisition of Science Process Skill and Science Achievement Using Modern Test Theory	Nil	Paper
TR 63 0900 - 1030	Day 3	Yen Hung-Chih *	Investigating the effect of social constructivist science teaching on the fifth graders' perception of learning environment, motivation, and science learning strategies	2. Hsiao-Lin Tuan 3. Shu-Chen Kuo	Paper
<b>Concurrent Session: Chemistry Education - I</b>					
TR 64 0900 - 1030	Day 3	Teh Yun Ling	Chemistry Education at Undergraduate Level: An Exploratory Study of Tertiary Chemistry Students' Conceptual Knowledge	Nil	Paper
TR 64 0900 - 1030	Day 3	Teo Tang Wee	Junior College Students' Alternative Conceptions of Redox Processes in Electrochemistry	2. Daniel K.C. Tan	Paper
TR 64 0900 - 1030	Day 3	Zeynep Bak *	The Effect Of Multiple Intelligences Theory Based Guide Materials On Chemistry Achievement	2. Alipasa Ayas	Paper
<b>Concurrent Session: Chemistry Education - II</b>					
TR 65 0900 - 1030	Day 3	Mageswary Karpudewan	Greening the High School Chermistry Curriculum to Address Education for Sustainable Development	2. Norita Mohamed 3. Zurida Hj Ismail	Paper
TR 65 0900 - 1030	Day 3	Mashita Abdullah	Secondary School Teachers Feedback on Microscale Chemistry Experimentation	2. Norita Mohamed 3. Zurida Hj Ismail	Paper
TR 65 0900 - 1030	Day 3	Shien Chue *	Multimodality in Teaching Organic Chemistry	2. Daniel Tan Kim Chwee 3. Lee Yew Jin	Paper
<b>Concurrent Session: Early Years Science Education - I</b>					
TR 66 0900 - 1030	Day 3	Ghazala Niaz	First Revision of Constructivist Learner Scale (CLS) for Elementary School Science Students: Equipping Science Teachers for Better Understanding of Learners	Nil	Paper
TR 66 0900 - 1030	Day 3	Noraini Abbas	Closing the Gap: Bridging early childhood science to primary science education	Nil	Paper
TR 66 0900 - 1030	Day 3	Pattamaporn Pimthong *	Teaching and Learning About Matter in Grade 6 Classrooms: A Conceptual Change Approach	2. Naruemon Yutakom 3. Vantipa Roadrangka 4. Bronwen Cowie 5. Berverly Cooper	Paper

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<b>Concurrent Session: Physics Education</b>					
TR 11 0900 - 1030	Day 3	Heeraman R Sookraj	The effectiveness of multiple teaching tasks on changing students' conceptual understanding in Physics	Nil	Paper
TR 11 0900 - 1030	Day 3	Hye-eun Chu	Progression of students' conceptual development in an introductory university physics course: A case study of learning outcomes of naïve physics learners	2. David F. Treagust 3. A. L. Chandrasegaran	Paper
TR 11 0900 - 1030	Day 3	Sompong Mabout	The Use of a Predict-Observe-Explain sequence in the Laboratory to Improve Students' Conceptual Understanding of Motion in Tertiary Physics in Thailand	2. David Treagust	Paper
TR 11 0900 - 1030	Day 3	Tussatrin Kruatong *	Learning and Teaching Heat and Thermodynamics in Thai High Schools	2. Jones, A. 3. Wilf Malcolm	Paper
<b>Concurrent Session: Early Years Science Education - II</b>					
TR 13 0900 - 1030	Day 3	Audrey Liaw S P	An Interview Study on Primary School Pupils' Conceptions and Misconceptions of the Changes of State of Water – Comparison Across Levels	2. Boo Hong Kwen	Paper
TR 13 0900 - 1030	Day 3	Jie Yang	Fostering primary science learning in China through inquiry-based curriculum design	2. Jinghua Hao 3. BaoHui Zhang	Paper
TR 13 0900 - 1030	Day 3	Shu-chen Chien *	A Study of Young Children's Science-Related Concepts Regarding "Sinking and Floating"	Nil	Paper
<b>Concurrent Session: History &amp; Philosophy in Science Education</b>					
LT 1 0900 - 1030	Day 3	Hwang SungWon	Double Ascension of Abstract and Concrete in Reading Graph: A Dialectical Approach to Scientific Thinking	2. Wolff-Michael Roth	Paper
LT 1 0900 - 1030	Day 3	Pee Li Leslie Toh	An Investigation of the Use of History of Science to Teach a Biological Concept	2. Yin Kiong Hoh	Paper
LT 1 0900 - 1030	Day 3	Wong Chee Leong *	The Physics of Ghost: Debunking pseudoscience through critical thinking and scientific skepticism	2. Yap Kueh Chin	Paper
<b>Concurrent Session: Thinking &amp; Questioning in Science</b>					
LT 2 0900 - 1030	Day 3	Christine H L Chin	Teacher Questioning in Science Classrooms: What Approaches Stimulate Productive Thinking?	Nil	Paper
LT 2 0900 - 1030	Day 3	Tan Aik Ling	'Let's think like a scientist!': Issues of school science	2. Seah Lay Hoon 3. Tan Beng Chiak	Paper
LT 2 0900 - 1030	Day 3	Tan Kok Siang *	Reflective Practices in Secondary School Science	2. Ho Boon Tiong	Paper
<b>Concurrent Session: Science Teacher Preparation &amp; Development - II</b>					
LT 4 0900 - 1030	Day 3	Chia-Ju Liu	The Opinions of In-service Science Teachers and Pre-service Teachers about Teaching Abilities of Pre-service Teachers	2. Chin-Fei Huang 3. Hsin-Min Chen	Paper
LT 4 0900 - 1030	Day 3	Foong See Kit	Some New Physics Experiments for Pre-University Students	2. Ho Boon Tiong 3. Ho Shen Yong 4. Loganantham Kuppan 5. Lim Chim Chai 6. Lin Kai 7. Jose Martinez 8. Darren Wong 9. Terence Yeo	Paper
LT 4 0900 - 1030	Day 3	Nilda W Balsicas *	Teaching Practices of Excellent Biology Teachers	Nil	Paper

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LT 1 Foyer 1030 - 1100	Day 3	<b>Refreshment Break</b>			
<b>Keynote Speaker</b>					
LT 1 1100 - 1200	Day 3	David Treagust	Treagust Singapore Lecture	Nil	Lecture
LT 1 Foyer 1200 - 1330	Day 3	<b>Lunch</b>			
LT 1 1330 - 1430	Day 3	Panel Discussion William McComas, Chin-Chun Tsai & Poon Chew Leng  Closing			
LT 1 1430 - 1500	Day 3	Briefing for NSSE Open House			
LT 1 1500 - 1800	Day 3	NSSE Open House			