

CONCURRENT SESSIONS GROUPS

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Day-Group refers to the Day of the Conference and the Group of Presenters you have been assigned to.

Day-Group	Name	Paper Title	Additional Presenters Names	Paper
Day 1				
1-A	Dhanapal R.	Visualization of Educational Excellence of Students through Artificial Intelligence	Nil	Paper
1-A	Hwang Sungwon	Knowing and learning in computer-based science laboratory: an embodied dialectic perspective of human-computer interaction	2. Wolff-Michael Roth, University of Victoria, Canada	Paper
1-A	Noor Isham Sanif	Use of PDA Dataloggers in Science Fieldtrips promote critical thinking	2. Lim Choon Hui (Mrs) Princess Elizabeth Primary School	Paper
1-A	Widayah Othman	Science Education for Sec 3: Webquest works!	2. Wong Woei Ling 3. Kiranjeet Kaur Dhot 4. Yue Ee Theng	Paper
1-A	Chia-Ju Liu	The effects of students' emotions on forming representations of Plate Tectonics concepts	2. I-Lin Hou	Paper
1-A	Yashwantrao Ramma	Engaging students to develop conceptual understanding in physics using ICT	2. Jaguthsing Dindyal 3. Anita N Ramdinny 4. Kah Chye Tan	Paper
1-B	Ang Kok Cheng	Exploring the use of reflective MCQ in Primary Science Formative Assessment	1. A/Prof Boo Hong Kwen National Institute of Education	Paper
1-B	Deepa Parkash Nanwani	Reforming Secondary School Curricula for a 'Global Singapore'. Is There a Need for it?	2. Dr Diana Ang Tiong Joo	Paper
1-B	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
1-B	Rekha B Koul	Development, Validation and Application of an Assessment Questionnaire Using Student Perceptions	2. Darrell Fisher Curtin University of Technology	Paper
1-B	Tern Hui Kuan	Teaching Science to Lower Primary	2. Fitri Isnawati Yaacob	Paper
1-C	Ang Poh Qin	Teaching of Science through Inquiry Approach	Nil	Paper
1-C	Grace Chong Se Main	Living the da Vincian Principles	2. Mr Joseph Chong Perng Shyang	Paper
1-C	Jamaliah Mohamad Saleh	Investigating the use of SAIL for the teaching of Lower Secondary Science	2. Tan Teck Nam 3. Teng Siew Lee Compassvale Secondary School	Paper
1-C	Rachel Abadi	Critical and Creative Thinking in Science Education An active model for teaching/learning Comprehensive Understanding	2. Taha Massalha The Academic College for Education In Israel	Paper
1-C	Velicia Foo Wei Tint	Simply Amazing Machines!	1. Ms Noryati Abdul Rahman 2. Ms Genevieve Chow Marymount Convent School	Paper
1-D	Boo Hong Kwen	Primary science examination question setters' misconceptions of life science concepts	Nil	Paper
1-D	Chen Man Yi Geraldyn	Alternative Assessment Modes – Can we stimulate and improve students' motivation and interest towards academic excellence?	2. Chiang Shu Lee Clementi Town Secondary School	Paper
1-D	Chia Puay Hua (Mike)	Formative Assessment for Primary Three Pupils	Nil	Paper
1-D	Iris Chai Hong Lee	What works and what would be in store for the primary science assessment in a Knowledge-based economy	Nil	Paper
1-D	Phillip A Towndrow	Transforming science practical assessment practices in Singapore through innovative departmental planning	2. Tan Aik Ling National Institute of Education, Singapore	Paper
1-E	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
1-E	Cheong Szu Chuang	Engaging Students Using an Adapted Physics by Inquiry (Pbl) Approach in Kinetics	2. Lau Chor Yam 3. Darren Wong	Paper

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Day-Group	Name	Paper Title	Additional Presenters Names	Paper
1-E	Kim Nichols	Teaching and learning the new sciences: A case for interdisciplinary inquiry-based learning	2. Jim Davies Australian Science and Mathematics School	Paper
1-E	Pi-Chu Kuo	What students learn in a science camp communicating with unfamiliar language: the interaction between scientific inquiry and English learning	Nil	Paper
1-E	Ravhee Bholah	Use of inquiry methods in teaching science issues connected with health.	2. Bunally Musaphur Faranaz Begum Shrimati Indira Gandhi State Secondary School	Paper
1-F	Karen C Goodnough	Teaching and Learning through Action Research: Generating Knowledge-of-Practice.	Nil	Paper
1-F	Khoo Tse Horng	Learning about the Nature of Science through the History of Science and through Blogging	2. A/P Boo Hong Kwen National Institute of Education, Singapore	Paper
1-F	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
1-F	Yoong Jin Ing	Approaching the Concepts in Acids by "Learning Stations"	2. Ong Mei Sze 3. Wee Suat Hwa Siglap Secondary School	Paper
1-F	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
1-G	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
1-G	Har Hui Peng	Science Project Work: A Platform for Independent Learning	1. Lim Teck Huat Hwa Chong Inst (High School)	Paper
1-G	Jason Tan S C	The Method of the Design Journal – A Case	2. Mr Mohammed Hafiz Guangyang Secondary School 3. Chia Soo Chin (Mdm) CPDD/Sciences Branch/ DT Unit/ Ministry of Education	Paper
1-G	Peter F G Renwick	Understanding expertise in design thinking and design problem structuring.	Nil	Paper
1-G	Wong Yi Lin	Motivation Situation in the subject Design and Technology in Singapore Schools	2. Yau Che Ming National Institute of Education, Singapore	Paper
1-LT1	Jonathan Osborne	Science Curriculum for the 21st Century; Ideas, evidence and argument in science education		Keynote
1-LT1	Wolff-Michael Roth	Learning Science in Informal Settings; Educational Research for Teachers		Keynote
1-LT1	Tsai Chin-Chung	ICT in Science Education		Keynote
1-LT1	Lee Yew Jin Ho Boon Tiong Tan Aik Ling Tan Kim Chwee, Daniel Tan Seng Chee	Educational research for the fainthearted	Group	Symposium
1-LT1	Paul Abbott	Mathematica in Science Education - the Software for creative minds		Talk
1-LT2	Michel Lokhorst	Writing and Publishing for Beginners		Talk
1-LT2	Harmen van Paradijs	Writing and Publishing for Beginners		Talk
1-LT2	David Miklos	DNA Science		Talk
1-POSTER	Goh Ho Laye	Promoting Research Culture Using Interest-Directed Programme	2. Wun Soen Tien 3. Ler Puay Song Jurong Junior College	Poster

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1-POSTER	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
1-POSTER	Hunkoog Jho	A Science Culture In-Service Program for Science Teachers' Professional Development in Korea	2. Eunhyung Kang 3. Jinwoong Song	Poster
1-POSTER	Kyoungdae Kim	Scientifically Gifted Students' Views on the Nature of Science in Korea	2. Soon Min Kang Korea Science Academy 3. Jai-Hang Lim Jang-Young-Sil Science High School	Poster
1-POSTER	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
1-POSTER	Charles Low Soo Peng	Using blogs to enhance the independent learning of Biology	Nil	Poster
1-POSTER	Chui-Im Choi	The Effects of Science Journal Writing on problem-finding and problem-solving skills for scientifically gifted students	2. Miran Chun Seoul National University	Poster
1-POSTER	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
1-POSTER	Jayeong Lee	Nanoscience experience for secondary school students : a case study using atomic force microscopy of dental decay	2. Dongryul Jeon Seoul National University	Poster
1-POSTER	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
1-POSTER	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 Seoul National University 3. Hun-Gi Hong Seoul National University	Poster
1-POSTER	Sukkyoung Seong	Reconsideration of Experiment on Reactivity of Metals in Chemistry II	2. Ji Yun Han 3. Chui Im Choi 4. Dae Hong Seoul National University	Poster
1-BIOLAB	Tan Kok Siang	Student-designed Experiments in Secondary School Science		Workshop (3 hours)
1-SCILAB	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 University of Hertfordshire	Workshop (3 hours)
Day 2				
2-A	I-Wei Lin	A Study of Using the Magic Scientific Toys to Enlighten the Curiosity of Science	Nil	Paper
2-A	Munirah Shaik Kadir	Learning Physics: The "Play-N-Learn" Approach	2. Prof Yau Che Ming	Paper
2-A	Stella Fernandez	Budding Scientists	2. Ms Razinah Abu Bakar Marymount Convent School	Paper
2-B	Erkan Polatdemir	Learning obstacles encountered in the chaos theory in the problem-based learning environment	ae	Paper
2-B	Lee Wei Chai	Learning Newton's 1st Law of Motion through Problem-based learning	2. Dr Ho Boon Tiong National Institute of Education	Paper
2-B	Tan Kok Kim	Perspectives of Students on Using Problem Based Learning in Teaching Science	Nil	Paper
2-C	Fung Sun Wai Leo	Enhancing Teachers' Professional Development in Scientific Investigation through the Uses of Data-loggers	Nil	Paper

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2-C	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
2-C	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 University of Georgia	Paper
2-D	Hye-Gyoung Yoon	Understanding Science Experiments With Science Drama	Nil	Paper
2-D	Jon-chao, Hong	A Study of Relationships between Technological Curiosity and LEGO/logo Curriculum Activities	2. Chi-hung, Tseng	Paper
2-D	Shawn K.Y. Lum	Stepping Out: Inquiry Learning for Biology	2. Tan Beng Chiak Raffles Girls' Secondary School	Paper
2-E	Park Hyoung Seo	Development of a Mathematics, Science, and Technology Education Integrated Hands-on Program for an Airplane	Nil	Paper
2-E	Yu-Li Chiu	Promoting Learners' Understanding of the Innovative Knowledge of Science and Technology by Workshop about Technical News Development	Nil	Paper
2-E	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
2-E	So Wing-mui Winnie	Building resource-based learning environment for inquiry learning	2. Kong Siu-Cheung The Hong Kong Institute of Education	Paper
2-F	Nookorn Pathommapas	The Impact of a Series of Predict-Observe-Explain tasks on Thai University Students' Understanding of Concepts in Electrochemistry	2. David Treagust Curtin University of Technology	Paper
2-F	Wong Siu Ling, Alice	Professional training for the teaching of the nature of science – What works best	2. Benny H.W. Yung	Paper
2-F	Yap Kueh Chin	Three decades of research on alternative conceptions in science education, what do we do now?	2. Dr Joseph Philip Riley National Institute of Education 3. Wong Chee Leong National Institute of Education	Paper
2-G	Jirakarn Hongchuta	Grade 1 to Grade 6 Student Existing Ideas about Energy	2. Chokchai Yuenyong Khon Kaen University	Paper
2-G	Tan Aik Ling	"But I haven't taught them yet!": Knowledge building perils	2. Tan Seng Chee, National Institute of Education, Singapore	Paper
2-G	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
2-H	Cheng May-Hung May	Teaching Nature of Science in a junior secondary science curriculum	Nil	Paper
2-H	Cheng May-Hung May	Science education in an integrated curriculum at primary level- threats and opportunities	2. Dr So Wing-Mui Winnie The Hong Kong Institute of Education	Paper
2-H	Judy M Morris	Science Education and the English Second Language Learner: Students' and their teachers' struggles with language and science concepts	2. Prof David Treagust Curtin University	Paper
2-I	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
2-I	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 National Taiwan Normal University 4. Te-Jeng Chang P.S.M. International	Paper

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2-I	T Subahan Mohd Meerah	Curriculum Model for Malaysian Secondary Science Education: A Scientist Entrepreneurial Approach	2. Lilia Halim 3. Kamisah Osman 4. NorAishah Buang Universiti Kebangsaan Malaysia	Paper
2-J	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 (Mdm) CPDD/Sciences Branch/ DT Unit/ Ministry of Education	Paper
2-J	Mohammad Hafiz Imran	Real-time Design Journal – a framework for understanding secondary school design-process-facilitation pedagogical content knowledge	2. Quek Wee Siong Ghim Moh Secondary School 3. Chia Soo Chin (Mdm) CPDD/Sciences Branch/ DT Unit/ Ministry of Education 4. Tan Seng Chong, Jason National Institute of Education	Paper
2-J	Peter F G Renwick	Real world contexts and integrative projects: future potential for Design and Technology education.	Nil	Paper
2-J	Yau Che Ming	Technology-n-Design (China) and Design-n-technology (Singapore) in Secondary Schools: Brief comparison	2. Ge Li Qing Dao Polytechnic University, China	Paper
2-LT1	David Treagust	Multiple Representations in Learning Science; Diagnostic Assessment		Keynote
2-LT1	William McComas	Nature of Science in Science Education		keynote
2-LT1	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
2-LT1	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 Innova Junior College	Symposium
2-LT2	Paul Abbott	Mathematica in Science Education - the Software for creative minds	Nil	Talk
2-LT2	Craig Frehlich	Using ICT to Facilitating Assessment for Learning in Science	Nil	Workshop
2-SCILAB	David E Quinn	The Five-Part Lesson: A method for implementing constructivist teaching through science enquiry	2. Lynn Chapman University of Hertfordshire	Workshop (3 hours)
Day 3				
3-A	Teo Chew Lee	Rethinking curriculum integration with an epistemic perspective	Nil	Paper
3-A	Jarina Peer	Examining Shifts in Students' Scientific Epistemology: 'Purpose of Science' in a high-school science classroom	2. A/P Looi Chee Kit, National Institute of Education, Singapore	Paper
3-A	Rosalina M. Makalintal	Personal Characteristics of Biology High School Students With their Attitudes and Scholastic Achievement	Nil	Paper
3-B	Francis Jude Yam Hai Sun	The Men in White; Children's Perceptions about Scientists	Nil	Paper
3-B	May. M. Abonal	Students' Alternative Conceptions on Biotechnology	Nil	Paper
3-B	Ramon S. Morales	Conceptual Change in Physics through Anchored Instruction	Nil	Paper
3-B	Yeo Ai Choo Jennifer	Making Sense of a, b, c's of Science	2. Seng Chee Tan	Paper
3-C	Kamisah Osman	The Application of Generalizability Theory in Measuring Thinking and Problem Solving Skills in Science	Nil	Paper
3-C	Sevgi Kingir	Factors Affecting Science Achievement	Nil	Paper
3-C	Sevgi Kingir	Analysis of Students' Misconceptions in Rate of Reaction	2. Prof. Dr. Ömer Geban Middle East Technical University	Paper

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3-C	Lucille Lee Kam Wah	Some Difficulties Encountered in Fostering Creativity in Science Education	2. Goh Ngho Khang 3. Chia Lian Sai 4. Wan Yoke Kum Nanyang Technological University 5. Lee Chui Eng Tanjong Katong Secondary School	Paper
3-C	Tang Kok Sing	Constructive Uses of Authoritative Sources for Collaborative Science Learning	2. Jennifer Yeo 3. Tan Seng Chee	Paper
3-D	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
3-D	Paul Denley	Defining a progression framework for auditing professional development for science teachers	Nil	Paper
3-D	Song, Jinwoong	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
3-D	Wangsuk Lee	Secondary School Students' Images of Doing-Science-Well: Its Types and Situations	2. Heekyung Kim 3. Jinwoong Song	Paper
3-E	Chatree Faikhamta	Exploring Pre-Service Science Teachers' Chemistry Content Knowledge	2. Vantipa Roadrangka Faculty of Education, Kasetsart University 3. Pensri Bunsawansong Faculty of Science, Kasetsart University	Paper
3-E	Sule Bayraktar	Misconceptions of Turkish Pre-Service Teachers About Force and Motivation	Nil	Paper
3-E	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
3-F	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 National Kaohsiung Normal University	Paper
3-F	Joseph Riley	Physical Science Misconceptions: from Identification to Intervention	2. Yap Kueh Chin 3. Toh Kok-Aun 4. Boo Hong Kwen 5. Ho Boon Tiong	Paper
3-F	Teresita Dinal-Taganahan	Epistemological Beliefs and Conceptual Understanding of Force and Motion in an Active-Learning Classroom and with Self-Reflections	Nil	Paper
3-G	Bruce Etherington	Communicating the Excitement of Science: Linking Practising Scientists with Schools to Enhance Curriculum and Teacher Development		Paper
3-G	Diana T J Ang	Mentoring for career development	Nil	Paper
3-G	Nur'ashikin Hassan	Science Education Reforms Pertinent to the Singapore Education System.	2. Dr Diana Ang Tiong Joo	Paper
3-G	Vina Serevina	Accountability of Education Institute as Teacher Producer in Indonesia	Nil	Paper
3-H	Chokchai Yuenyong	Teaching and Learning about Energy in Thailand: Science, Technology and Society (STS) Approach.	2. Alister Jones University of Waikato 3. Sunan Sung-ong Kasetsart University 4. Naruemon Yutakom Kasetsart University 5. Mike Forret University of Waikato	Paper
3-H	Pongprapan Pongsophon	The Development of Evolution Learning Unit for Thai High School Students	2. Vantipa Roadrangka Kasetsart University 3. Alister Jones University of Waikato	Paper

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3-H	Taha Massalha	Study of Teachers and Student's Perceiving Mass, Size and Distance In the Atomic World and The Astronomic World	2. Dr Rachel Abadi Levinsky College for Education	Paper
3-H	Tan Seng Chee	"Because the light brightens the tree" – Building on pupils' naive conceptions	2. Lee Chwee Beng	Paper
3-I	Achara Jinvong	The use of a constructivist approach to change misconception about AIDS: A Case Study in Thailand	2. Prof. Dr. Darrell L Fisher Curtin University of Technology	Paper
3-I	Nantarat Puengpang	First Year Science Student Teachers' Conceptions in Biology	Nil	Paper
3-I	Sukanya Sootapan	Learning Outcome of Instruction Using CIPPA Model Lesson Plan of Undergraduate Students in the Biology for Teacher	2. Wimol Sumranwanich Khon Kaen University 3. Janjira Singhamat Khon Kaen University Demonstration School (Modindaeng) 4. Soawanee Sangkakee Khon Kaen University Demonstration School (Modindaeng) 5. Napapan Aemsamang Khon Kaen University Demonstration School (Modindaeng)	Paper
3-I	Thasaneeya Ratanaroutai	A Case Study of Conceptual Development in Genetics of Disadvantaged Thai High School	2. Naruemon Yutakom Kasetsart University 3. Gunjana Theeragool Kasetsart University	Paper
3-J	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
3-J	Wimol Sumranwanich	The Effect of the Student Centered Approaches on Students' Learning in the Nature of Science	Nil	Paper
3-J	Ong Saw Lan	Comparing Acquisition of Science Process Skill and Science Achievement Using Moden Test Theory	Nil	Paper
3-J	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 National Changhua University of Education 3. Shu-Chen Kuo National Hualien University of Education	Paper
3-K	Teh Yun Ling	Chemistry Education at Undergraduate Level: An Exploratory Study of Tertiary Chemistry Students' Conceptual Knowledge	Nil	Paper
3-K	Teo Tang Wee	Junior College Students' Alternative Conceptions of Redox Processes in Electrochemistry	2. Daniel K.C. Tan	Paper
3-K	Zeynep Bak	The Effect Of Multiple Intelligences Theory Based Guide Materials On Chemistry Achievement	2. Prof. Alipasa Ayas Black Sea Technical University	Paper
3-L	Mageswary Karpudewan	Greening the High School Chermistry Curriculum to Address Education for Sustainable Development	2. Norita Mohamed Universiti Sains Malaysia 3. Zurida Hj Ismail Universiti Sains Malaysia	Paper
3-L	Mashita Abdullah	Secondary School Teachers Feedback on Microscale Chemistry Experimentation	2. Norita Mohamed Universiti Sains Malaysia 3. Zurida Hj Ismail Universiti Sains Malaysia	Paper
3-L	Shien Chue	Multimodality in Teaching Organic Chemistry	2. Daniel Tan Kim Chwee 3. Lee Yew Jin	Paper

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3-M	Ghazala Niaz	First Revision of Constructivist Learner Scale (CLS) for Elementary School Science Students: Equipping Science Teachers for Better Understanding of Learners	Nil	Paper
3-M	Noraini Abbas	Closing the Gap: Bridging early childhood science to primary science education	Nil	Paper
3-M	Pattamaporn Pimthong	Teaching and Learning About Matter in Grade 6 Classrooms: A Conceptual Change Approach	2. Naruemon Yutakom 3. Vantipa Roadrangka Kasetsart University 4. Bronwen Cowie 5. Berverly Cooper University of Waikato	Paper
3-N	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
3-N	Foong See Kit	Inquiry-based 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
3-N	Nilda W Balsicas	Teaching Practices of Excellent Biology Teachers	Nil	Paper
3-N	Sarojiny Saddul-Hauzaree	Linking Classroom Practice of Inquiry to Pre-service Teacher Preparation	Nil	Paper
3-N	Supriyadi	Resource-Based Information-Mapping Media for Secondary School Teacher of Physics	Nil	Paper
3-O	Michael A. Linich	Using ICT to Teach the Modern Concept of the Gene	Nil	Paper
3-O	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 University of Georgia	Paper
3-O	Zhang Baohui	Middle school science students' computer-based models and how they change over time	Nil	Paper
3-P	Heeraman R Sookraj	The effectiveness of multiple teaching tasks on changing students' conceptual understanding in Physics	Nil	Paper
3-P	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 Curtin University of Technology 3. A. L. Chandrasegaran Curtin University of Technology	Paper
3-P	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, Curtin University of Technology	Paper
3-P	Tussatrin Kruatong	Learning and Teaching Heat and Thermodynamics in Thai High Schools	2. Jones, A. 3. Wilf Malcolm University of Waikato, New Zealand	Paper
3-Q	Audrey Liaw S P	An Interview Study on Primary School Pupils' Conceptions and Misconceptions of the Changes of State of Water – Comparison Across Levels	AP Boo Hong Kwen	Paper
3-Q	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
3-Q	Jie Yang	Fostering primary science learning in China through inquiry-based curriculum design	2. Jinghua Hao Nanjing Normal University, China 3. BaoHui Zhang National Institute of Education Singapore	Paper

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3-Q	Shu-chen Chien	A Study of Young Children's Science-Related Concepts Regarding "Sinking and Floating"	Nil	Paper
3-LT1	Hwang SungWon	Double Ascension of Abstract and Concrete in Reading Graph: A Dialectical Approach to Scientific Thinking	2. Wolff-Michael Roth University of Victoria	Paper
3-LT1	Pee Li Leslie Toh	An Investigation of the Use of History of Science to Teach a Biological Concept	2. Yin Kiong Hoh National Institute of Education Singapore	Paper
3-LT1	Wong Chee Leong	The Physics of Ghost: Debunking pseudoscience through critical thinking and scientific skepticism	2. Dr Yap Kueh Chin	Paper
3-LT2	Christine H L Chin	Teacher Questioning in Science Classrooms: What Approaches Stimulate Productive Thinking?	Nil	Paper
3-LT2	Tan Aik Ling	'Let's think like a scientist!': Issues of school science	2. Seah Lay Hoon National Institute of Education, 3. Tan Beng Chiak, Ministry of Education, Singapore	Paper
3-LT2	Tan Kok Siang	Reflective Practices in Secondary School Science	2. Ho Boon Tiong	Paper