

Day One: Thursday, August 19, 2010

Paper Presentation, Session 1 (13.30 – 15.00)	
TSG 1-1	TSG106: Maarten Dolk, Francien Garssen & An te Selle <i>Teachers' Repertoire to Promote the Development of Mathematical Knowledge through Problem Solving</i>
	TSG107: Fang Junbin <i>Three Factors of Effective Inquiry Teaching: Critical Analysis of a Mathematics Lesson Fragment in Lesson Study</i>
	TSG117: Shiqi Li <i>The Structural Characteristics in Teaching: A Case of Geometry Lesson in China</i>
	TSG143: Wanty Widjaja & Maarten Dolk <i>Building, Supporting and Enhancing Teachers' Capacity to Foster Mathematics Learning: Insights from Indonesian Classroom</i>
TSG 1-2	TSG104: Boon Liang Chua & Celia Hoyles <i>Teacher and Student Choices of Generalising Strategies: A Tale of Two Views?</i>
	TSG108: Hajime Hayakawa & Ayumi Nomura <i>Educational Effects of Creating Word Problems through Inquiry-Based Learning</i>
	TSG116: Leung King Man <i>To Foster and Strengthen Student's Cognitive Skills and Mathematical Ability by Using Interactive Tasks and Project Activity in Measures and Statistics Strands</i>
	TSG130: Wee Tiong Seah <i>The Third Wave: Australian Students' Perspectives of Effective Mathematics Learning in Primary Schools</i>
TSG 1-3	TSG124: Melissa Ng Mei Pao <i>Effects of Math Talk on the Mathematical Problem Solving (MPS) Process in Elementary Mathematics Education</i>
	TSG129: Tetsuro Sasaki <i>The Expression Gap between Usual Teaching and Mathematical Activity</i>
	TSG135: Soon Wan Mei Amanda <i>The Teaching of Problems in Modelling Contexts to Engineering Undergraduates</i>
	TSG138: Nisara Suthisung & Kiat Sangaroon <i>The Relation between Real World and Mathematical World through the Process of Abstraction Focusing on Perception, Action and Reflection</i>
TSG 2	TSG202: Sarah K. Bleiler & Denisse R. Thompson <i>Dimensions of Mathematics Understanding: A Longitudinal Analysis of Primary Students' Achievement in the United States</i>
	TSG210: Rumiati & Robert (Bob) Wright <i>Using One-To-One Videotaped Interview-based Assessment to Capture Indonesian Children's Strategies in Solving Addition and Subtraction Problems in the Range 1-100</i>
	TSG211: Denisse R. Thompson, Berinderjeet Kaur & Sarah K. Bleiler <i>Using a Multi-dimensional Approach to Understanding to Assess Primary Students' Mathematical Knowledge</i>
	TSG213: Ka Lok Wong & Carol Lo Cheng <i>Students' Understanding of Parallel Lines and Related Angle Properties in Dynamic Geometry Environment</i>
TSG 3	TSG300: Ma. Louise Antonette N. De Las Peñas & Debbie Marie Bautista <i>On Dynamic Geometry Technology and Student Centered Learning</i>
	TSG301: Chew Cheng Meng & Lim Chap Sam <i>Developing Primary Pupils' Geometric Thinking through Phase-based Instruction Using the Geometer's Sketchpad</i>
	TSG304: Ho Foo Him & Leong Yew Hoong <i>Using Dynamic Geometry Software in Teaching Geometry Proof</i>
	TSG305: Seiya Negami & Yoshiaki Hoshino <i>Designing and Development of "gm for kids", Software Assisting Children to Learn Graph Theory</i>

TSG 4	TSG412: Peter Sullivan <i>The Processes and Principles Underpinning the Development of the New Australian Mathematics Curriculum</i>
	TSG411: Yusuke Shinno <i>Identifying Conceptual Change Situations in Mathematics Curricular Content: on the Development from Rational to Real Numbers</i>
	TSG413: Tomoko Yanagimoto, Yuki Seo & Ken-ichi Iwase <i>A Study on Making Knot Theory into a Curriculum</i>
	TSG414: Bo Yu, Keqiang Xu & Changgen Pei <i>Research on the Implementation and Investigation of the National New Mathematics Curriculum in Southwest China</i>
TSG 5-1	TSG502: Mark Applebaum <i>Development of Critical Thinking in Pre-service Mathematics Teachers</i>
	TSG510: Toshihiro Imai <i>The Effects of Monitoring about Overcoming Fixation in Mathematical Problem-solving on College Students of Prospective Elementary School Teachers in Japan</i>
	TSG520: Maitree Inprasitha, Auijit Pattanajak & Narumol Inprasitha <i>Mathematics Internships Student' Collaboratively Reflection about Kku Mathematics Teacher Education Program</i>
TSG 5-2	TSG505: Chiew Chin Mon & Lim Chap Sam <i>Challenges and Insights Gained in Conducting Lesson Study: A Case in Malaysia</i>
	TSG507: Susie Groves & Brian Doig <i>Adapting and Implementing Japanese Lesson Study: Some Affordances and Constraints</i>
	TSG511: Thanya Kadroon & Maitree Inprasitha <i>Investigating Teachers' Values about Teaching Mathematics in Classrooms Implemented Lesson Study and Open Approach as a Teaching Approach: A Thai Experience</i>
	TSG517: Ewe Gnoh Ong, Chap Sam Lim & Munirah Ghazali <i>Changes in Mathematics Teachers' Questioning Techniques through the Lesson Study Process</i>
TSG 6	TSG602: Tomoko Itoh <i>Precondition to Good Understanding of Probability in Math Classes at Junior High School</i>
	TSG603: Peggy Lynch <i>Mathematisation: The Ability of Irish Students to Transfer Mathematics from the Classroom to Realistic Situations</i>
	TSG606: Keiichi Nishimura, Isao Shimada, Hiroshi Makino, Yoshihiro Kubo, Kazuhiro Igarashi, Shinichiro Matsumoto, Masanori Ushiba, Akira Shimazaki, Yasufumi Hisanaga & Eizo Nagasaki <i>A Study on Connecting Mathematics with the Real World</i>
	TSG608: Teoh Boon Tat, Warabhorn Preechaporon & Leong Chee Kin <i>Problem-Based Learning the 4 Core Areas (PBL4C) in the Search of Excellence in Mathematics Education</i>

Paper Presentation, Session 2 (15.30 – 17.00)	
TSG 1-1	TSG133: Keiichi Shigematsu, Yoshio Katsumi & Nobuhiko Ueda <i>Metacognition: the Role of the "Inner Teacher"(8) Changes in Quality of Students' Metacognition by Teacher's Comments Using Red Pencil on Students' Journal Writing</i>
	TSG137: Ariya Suriyon & Kiat Sangaroon <i>1st Grade Students' Metacognitive Strategies in Open-Ended Problem Solving Situation: Evidence from Students' Written Work</i>
	TSG139: Goro Takai <i>Research on Individual and Collective Perspective in Mathematical Problem Solving Lesson: Relationship among Metacognitive Activity, Beliefs, and Norms</i>
	TSG149: Hitoshi Takahashi <i>Relationships between an Elementary School Student's Making Mathematical Discovery and Indwelling in Learning Proportion</i>
TSG 1-2	TSG120: Yuki Masuda <i>Students' Difficulties in Representing and Interpreting Radian for Angle Measure</i>

	<p>TSG145: Toyoko Yamanoshita <i>How to Nurture the Recognition of Quantities to Confront Real Problems in Elementary Schools</i></p> <p>TSG134: Pu Shuping <i>Fraction Instruction in China under the Perspective of HPM</i></p> <p>TSG142: Wang Xiong & Fang Yanping <i>The Classroom-based Analysis as a Key Reflection on the Approaches to Equivalent Fractions</i></p>
TSG 1-3	<p>TSG101: Maxima J. Acelajado <i>Blended e-Learning: A Strategy for Improving the Mathematics Achievement of Students in a Bridging Program</i></p> <p>TSG132: Nagisa Shibuya <i>Relationship between Teaching and Learning in Grade 6 Lessons in the Process of the Adaptation of Substantial Learning Environment in Zambia</i></p> <p>TSG147: Yan Zhu <i>Mathematics Teaching in Hong Kong Secondary Schools from 1990s to 2000s</i></p> <p>TSG119: Naomichi Makinae <i>The Origin of Lesson Study in Japan</i></p>
TSG 2	<p>TSG205: Pang Wai-Kit Alwyn & Jaguthsing Dindyal <i>Students' Errors in Mathematics at the Junior College Level</i></p> <p>TSG208: Matthias Ludwig & Binyan Xu <i>Blockages and Barriers in Students Work on Modelling Tasks</i></p> <p>TSG212: Yung Wing Yee Angela <i>A Hong Kong Mathematics Teacher's Mindset for Alternative Assessment Via the Concerns-Based Adoption Model</i></p>
TSG 3	<p>TSG302: Kyeong-Sik Choi <i>Learning Mathematics in Student-centered Class Using GeoGebra</i></p> <p>TSG303: Hajime Hayakawa, Tadayuki Ishida & Hiroshi Okano <i>Effectiveness of a RME Java Program for Increasing Calculation Skills Motivation</i></p> <p>TSG306: Toshimitsu Miyamoto <i>Effective Knowledge Sharing Based on Symbiotic Computing and Its Application to Networked Cooperative Group Learning for Arithmetical Education</i></p>
TSG 4	<p>TSG401: Yoshitaka Abe <i>Curriculum Constructing Principle for Fostering Mathematical Literacy</i></p> <p>TSG402: Takuya Baba <i>Socially Open-End Approach and Critical Mathematics Education</i></p> <p>TSG407: Toshikazu Ikeda, Max Stephens & Yoshihisa Tanaka <i>Mathematical Modelling Giving Meaning to Mathematics: A Case Study of Japanese Textbooks Seventy Years Ago</i></p>
TSG 5-1	<p>TSG501: Miyo Akita & Noboru Saito <i>Study on Improving the Class Practice Power for Students of University of Education: Developing an Evaluation Sheet and Its Application</i></p> <p>TSG515: Ida Ah Chee Mok <i>Researching Mathematics Learning Task Events: A Project for Mathematics Student Teachers in Hong Kong</i></p> <p>TSG522: Koji Takahashi <i>Analysis on the Issues around the Preservice Teacher Training Curriculum in Primary Math Education in Cambodia</i></p> <p>TSG523: Wun Thiam Yew & Sharifah Norul Akmar Syed Zamri <i>Preservice Teachers' Knowledge of Area Formulae: A Case Study</i></p>
TSG 5-2	<p>TSG512: Berinderjeet Kaur <i>The EPMT Project: A Harbinger for Teachers' Meaningful Production of Pedagogical Knowledge</i></p> <p>TSG525: Aida I. Yap <i>Developing Mathematics Teaching Practice through Collaborative Lesson Research and Development</i></p> <p>TSG514: Yunpeng Ma & Dongchen Zhao <i>Similarities and Differences between "Excellent" Lessons: A Comparative Analysis of Two Exemplary Mathematics Lessons in China</i></p>

TSG 6	TSG601: Hajime Sato <i>Mt. Fuji and Mathematics</i>
	TSG604: Marita S. Magat <i>Functionality of Teaching and Learning Plane Trigonometry</i>
	TSG605: Gerardo C. Malab <i>Effectiveness and Acceptability of the Malabsky's Formula in Solving Thermometric Problems</i>
	TSG607: Kazuhisa Takagi <i>A Close Look at Poisson's Theorem and the Birthday Problem</i>

Day Three: Saturday, August 21, 2010

Paper Presentation, Session 3 (13.30 – 15.00)	
TSG 1-1	TSG114: Hiroyuki Kumakura & Hideyuki Umeda <i>Teaching Students to Appreciate the Significance of Learning Trigonometry: Focusing on the Introduction</i>
	TSG111: Yuka Koizumi <i>An Investigation of Teacher's Questioning in the Mathematics Classrooms in Germany and Japan</i>
	TSG118: Rachel Lui Ka Wai <i>Mathematics Classrooms in Berlin and Hong Kong: Exploratory vs. Directive Teaching</i>
	TSG144: Lihua Xu, David Clarke & May Ee Vivien Wan <i>Meta-discursive Rules and the Introduction of New Content in Mathematics Classrooms in Seoul, Shanghai and Tokyo</i>
TSG 1-2	TSG103: Suttharat Boonlerts & Maitree Inprasitha <i>How to Teach Multiplication In Thailand, Japan And Singapore: A Comparison of Textbooks</i>
	TSG127: Suwarnnee Plianram & Maitree Inprasitha <i>Using Japanese Mathematics Textbooks for Lesson Study in Thai Context</i>
	TSG113: Liew Kee Kor, Chap Sam Lim & Saw Fen Tan <i>The Third Wave: What Malaysian Chinese Primary School Pupils Value in an Effective Mathematics Lesson: A Pilot Study</i>
	TSG115: Huk Yuen Law, Ngai Ying Wong & Ngar Yin Louis Lee <i>The Third Wave: Regional and Cross-regional Studies of Values in Effective Mathematics Education: Hong Kong</i>
TSG 1-3	TSG102: Anastasios (Tasos) Barkatsas & Jiesi Guo <i>Investigating Student-related Factors as Predictors of Hong Kong Year 8 Students' Mathematics Achievement in the 2007 Trends in Mathematics and Science Study [TIMSS]</i>
	TSG105: Rui Ding & Ngai-Ying Wong <i>Relationship between Mathematics Classroom Environment and Students' Performance under the Chinese Curriculum Reform</i>
	TSG136: Sun Xiaotian <i>Some Daily and Typical Features That Related to the High Achievements of Chinese Students in Mathematics</i>
	TSG146: Xiaoxia Zhang & Yeping Li <i>Chinese Student Computation Skills in the Context of School Mathematics Reform</i>
TSG 1-4	TSG109: Kazuhito Imai <i>Forming the Principles of the Introductory Setting Design of Creating Students' Mathematical Activity in the Classroom</i>
	TSG112: Yanin Kongthip, Maitree Inprasitha & Sasitorn Pasjuso <i>Communicating Students' Ideas by Gestures in Open Approach</i>
	TSG128: Noboru Saito & Miyo Akita <i>Performance of the Mountain Climbing Learning Method to Activate Students' Creative Thinking and Its Effects</i>
	TSG150: Kawissara Sansanoh, Maitree Inprasitha & Noboru Saito <i>Study of Creativity in Mathematics Learning: For Students of Primary School</i>

TSG 2	TSG203: Boey Kok Leong & Jaguthsing Dindyal <i>Singapore Students' Trend in the Performance in Mathematics by Gender in TIMSS 2003 and 2007</i>
	TSG204: Kimiho Chino, Taro Fujita, Kotaro Komatsu, Tomohiko Makino, Takeshi Miyakawa, Mikio Miyazaki, Naohito Mizutani, Hiroyuki Nakagawa, Shintaro Otsuka & Yosuke Tsujiyama <i>An Assessment Framework for Students' Abilities/Competencies in Proving</i>
	TSG206: Chunlian Jiang <i>Hierarchical Levels of Speed Word Problems: A Study Conducted in Singapore and China</i>
TSG 4	TSG406: Koay Phong Lee & Ho Siew Yin <i>Fraction Division in the Singapore Mathematics Curriculum</i>
	TSG410: Nanae Matsuo <i>Geometrical Education for Preschool Children and Early Graders in Primary School: Focus on Disembedding of Shapes</i>
	TSG409: Lee Ngan Hoe <i>The Role and Nature of Curriculum Frameworks in Mathematics Curriculum Development Initiatives</i>
	TSG405: Keiko Hino <i>Researching and Conducting Mathematics Lessons: An Attempt to Adopt Lesson Study in a Graduate Course</i>
TSG 5-1	TSG506: Gonzalez Orlando & Masami Isoda <i>Survey on Japanese Senior High School Teachers' Statistical Literacy: Focusing on Variability</i>
	TSG508: Rongjin Huang, Xuemei Chen, Yeping Li & Jianyue Zhang <i>Chinese High School Teachers' Knowledge for Teaching Algebra: An Exploratory Study</i>
	TSG526: Qiao-Ping Zhang & Ngai-Ying Wong <i>Mathematics Teachers' Professional Knowledge, Beliefs and Their Implications on Their Teaching</i>
	TSG527: Ofelia B. Chua & Meriam V. Dela Cruz <i>Characteristics and Behavioral Patterns of Teachers in Relation to the Performance of Engineering Students in Differential Calculus at TIP Manila</i>
TSG 5-2	TSG516: Ng Kit Ee Dawn <i>Collective Reasoning and Sense Making Processes During a Real-world Mathematical Project</i>
	TSG518: Ann O'Shea & David Wraith <i>A Problem Solving Course for Out-of-field Mathematics Teachers</i>
	TSG524: Toshiaki Yabe & Tatsuya Mizoguchi <i>Process of Problem Solving Learning in New Era: Focus on "Academic Skills"</i>

Paper Presentation, Session 4 (15.30 – 17.00)	
TSG 1-1	TSG131: Supot Seebut, Utith Inprasit & Hathaikarn Wattanatnweekul <i>A Collaborative Problem Solving in Mathematics Courses</i>
	TSG140: Sampan Thinwiangthong, Suladda Loipha & Sasitorn Pasjuso <i>Triad Feedback: Unit of Analysis of Small-group Mathematical Communication to Understand Mathematical Learning Process</i>
	TSG148: Aihui Peng & Mikaela Nyroos <i>Differences and Similarities of Different Group Students' Values in Effective Mathematics Lessons</i>
	TSG110: Wasukree Jaijan, Suladda Loipha & Nongkhran Sasom <i>Exploring Thai Students' Mathematical Connections among Content Areas in Open-Ended Problem Situation</i>
TSG 1-2	TSG141: Yosuke Tsujiyama <i>Argumentative Aspects of Geometrical Proofs: An Approach to the Notion of Proving in School Mathematics</i>
	TSG123: Mikio Miyazaki & Taro Fujita <i>Students' Understanding of the Structure of Proof: Why Do Students Accept a Proof with Logical Circularity?</i>
	TSG125: Masakazu Okazaki <i>Development of Reasoning Ability towards Proof Using Seventh Grade Plane Geometry</i>
TSG 1-3	TSG121: Shinichiro Matsumoto <i>Statistical Way of Thinking of First Graders</i>

	<p>TSG122: Akio Matsuzaki & Takashi Kawakami <i>Situation Models Reformulation in Mathematical Modelling: The Case of Modelling Tasks Based on Real Situations for Elementary School Pupils</i></p> <p>TSG126: Oyunaa Purevdorj <i>Transformation of Mathematics Subject Matter Knowledge into Classroom Teaching: A Case Study</i></p>
TSG 2	<p>TSG201: Cesar B. Bermundo & Alex B. Bermundo <i>Test Checker and Item Analyzer with Statistics</i></p> <p>TSG207: Leung Chi Keung Eddie, Cai Jinfa & Tong Wai Shan Peggy <i>Is Attribution a Component of Metacognition in Mathematics? A Validation Study</i></p> <p>TSG209: Shintaro Otsuka <i>An Analysis of Factors in the Difficulties in Explanation of False Statements: Focusing on Learner's Interpretations of Proposition</i></p>
TSG 4	<p>TSG403: Anna Mei-Yan Chan, Ngai-Ying Wong & Chi-Chung Lam <i>In Search of Effective Mathematics Teaching and Learning in Hong Kong Primary Schools: The Impact of Spiral Bianshi Mathematics Curriculum on Students' Cognitive and Affective Outcomes</i></p> <p>TSG404: Tung-Ping Cheung & Shi-Pui Kwan <i>Mouhefanggai: a Page in Ancient Chinese Mathematics</i></p> <p>TSG408: Lai Mun Yee <i>An Exploratory Study into Chinese and English Speaking Children's Visual Perception</i></p>
TSG 5-1	<p>TSG503: Narumon Changsri, Maitree Inprasitha & Kanokporn Changtong <i>A Study of Teachers' Perceived Beliefs Regarding Teaching Practice</i></p> <p>TSG509: Xingfeng Huang, Jinglei Yang, Bingxing Tang, Lingmei Gong & Zhong Tian <i>An Experienced Chinese Teacher's Strategies in Teaching Mathematics Ground on Curriculum Innovation: a Case of Translation on Quadratic Function</i></p> <p>TSG519: Shaileigh Page & Julie Clark <i>How Do Teachers' Experiences Shape Pedagogical Decisions in the Primary Mathematics Classroom?</i></p>
TSG 5-2	<p>TSG504: Yuelan Chen & Qian Tian <i>On the Feasibility of Teachers' University Curriculum from Teaching Practice Perspective</i></p> <p>TSG513: Issic K. C. Leung, Hee-Chan Lew & Tae Soen Cheon <i>Comparison on the Students' Ability of Presenting Counter Examples and Prospective Teachers' Ability of Treating Counter Examples: A Pilot Study in Korea and Hong Kong</i></p> <p>TSG521: Akihiko Takahashi & Brian Fu <i>Replicating Exemplary Practices in Mathematics Education among APEC Economies</i></p>