

Research Presentation Sessions Overview

Tuesday 3 July

Research Session 1

Research Papers							
Venue	TR720	TR719	TR718	TR717	TR716	TR715	TR714
Codes	IRP1	IRP2	IRP3	IRP4	IRP5	IRP6	IRP7
10 45 – 11 25	<p>Concept Cartoons as a Way to Elicit Understandings and Encourage Reasoning About Decimals in Year 7</p> <p><i>Samone Davidson</i> <i>Mike Askew</i></p> <p>Chair: Zhu Ying</p>	<p>The Impact of a Professional Learning Intervention Designed to Enhance Year Six Students' Computational Estimation Performance</p> <p><i>Paula Mildenhall</i> <i>Mark Hackling</i></p> <p>Chair: Liang Soon Tan</p>	<p>Projects, Puzzles and Other Pedagogies: Working With Kids to Solve Local Problems</p> <p><i>Margaret Marshman</i></p> <p>Chair: Ngan Hoe Lee</p>	<p>Constructing and Consolidating Mathematical Entities in the Context of Whole-Class Discussion</p> <p><i>Thérèse Dooley</i></p> <p>Chair: Oon Hua Wong</p>	<p>Block Model Approach in Problem Solving: Effects on Problem Solving Performance of the Grade V Pupils in Mathematics</p> <p><i>Niño Jose P. de Guzman</i> <i>Rene R. Belecina,</i></p> <p>Chair: Wai Kwong Cheang</p>	<p>Young Pedestrians' Gendering of Mathematics: Australia and Spain</p> <p><i>Helen Forgasz</i> <i>Gilah Leder</i> <i>Inés M^a Gómez-Chacón</i></p> <p>Chair: Huei Wuan Low-Ee</p>	<p>Influences of Metacognitive and Self-Regulated Learning Strategies for Reading on Mathematical Literacy of Adolescents in Australia and Singapore</p> <p><i>Berinderjeet Kaur</i> <i>Shaljan Areepattamannil</i></p> <p>Chair: Phong Lee Koay</p>
Codes	IRP8	IRP9	IRP10	IRP11	IRP12	IRP13	IRP14
11 30 – 12 10	<p>Mathematics Anxiety in Secondary School Students</p> <p><i>Lay Keow Ng</i></p> <p>Chair: Mike Askew</p>	<p>Profiling Students' Capacities to Link Numbers and Algebra in Years 5, 6 and 7 in Nanjing, China</p> <p><i>Wenbin Xu</i> <i>Max Stephens</i> <i>Qinqiong Zhang</i></p> <p>Chair: Nigel Calder</p>	<p>An Analysis of Students' Representation of Area and Perimeter</p> <p><i>Jeenath Rahaman</i></p> <p>Chair: Marj Horne</p>	<p>Socially Response-able Mathematics Education: Lessons from Three Teachers</p> <p><i>Bill Atweh</i> <i>Kate Ala'i</i></p> <p>Chair: Jodie miller</p>	<p>Student Understanding of Large Numbers and Powers: The Effect of Incorporating Historical Ideas</p> <p><i>Mala S. Nataraj</i> <i>Mike Thomas</i></p> <p>Chair: Kathy Brady</p>	<p>Male Students' Perspectives Concerning the Relevance of Mathematics – Pilot Study Findings</p> <p><i>Michael Easey</i> <i>Elizabeth Warren</i> <i>Vince Geiger</i></p> <p>Chair: Kay Owens</p>	<p>Influences of Self-Perceived Competence in Mathematics and Positive Affect toward Mathematics on Mathematics Achievement of Adolescents in Singapore</p> <p><i>Shaljan Areepattamannil</i> <i>Berinderjeet Kaur</i></p> <p>Chair: Phong Lee Koay</p>
Codes	IRP15	IRP16	IRP17	IRP18	IRP19	IRP20	IRP21
12 15 – 12 55	<p>On Diagnosis and Intervention: Helping Students with Special Needs Learn Fraction Ideas Involving Decimal Numbers</p> <p><i>Rebecca Seah</i></p> <p>Chair: Lay Keow Ng</p>	<p>Mathematics as It Happens: Student-Centred Inquiry Learning</p> <p><i>Chris Brough</i> <i>Nigel Calder</i></p> <p>Chair: Max Stephens</p>	<p>Developing Decimal Understanding: A Grade 5 Classroom Exploration</p> <p><i>Belinda Beaman</i> <i>Marj Horne</i></p> <p>Chair: Jeenath Rahaman</p>	<p>An Exploration into Growing Patterns with Young Australian Indigenous Students</p> <p><i>Jodie Miller</i> <i>Elizabeth Warren</i></p> <p>Chair: Bill Atweh</p>	<p>Stories From the Classroom: The Developing Beliefs and Practices of Beginning Primary Mathematics Teachers</p> <p><i>Kathy Brady</i></p> <p>Chair: Mala S. Nataraj</p>	<p>Identity and Ethnomathematics Projects in Papua New Guinea</p> <p><i>Kay Owens</i></p> <p>Chair: Vince Geiger</p>	<p>The Influence of Gender, Parents, and Background Variables on Perceived Usefulness of Mathematics among Grade 7 Students in Mozambique</p> <p><i>Adelino Murimo</i></p> <p>Chair: Allen Leung</p>

Research Presentation Sessions Overview

Tuesday 3 July Research Session 2

		Research Papers						Short Communications	
Venue	TR720	TR719	TR718	TR717	TR716	TR715	TR714	TR713	
Codes	2RP22	2RP23	2RP24	2RP25	2RP26	2RP27	2RP28	2SC1	
14 00 – 14 40	14 00 – 14 20	Challenges in Responding to Scaffolding Opportunities in the Mathematics Classroom <i>Sarah Ferguson</i> Chair: Annie Mitchell	Gesture Types for Functions <i>Sandra Herbert</i> Chair: Colin Carmichael	Singapore Students' Performance on Australian and Singapore Assessment Items <i>Siew Yin Ho</i> <i>Tom Lowrie</i> Chair: Khoon Yoong Wong	The Effect of Small-Group Game Play Activities on Number Sense Performance <i>Rashidah Vapumarican</i> <i>Manu Kapur</i> Chair: Rosemary Callingham	The Concept of Generalised Number: Valuable Lessons from the History of Algebra <i>Mala S. Nataraj</i> <i>Mike Thomas</i> Chair: Magnus Österholm	Get Into Vocational Education (GIVE): Motivating Underperforming Students <i>Gillian Kidman</i> <i>Tom Cooper</i> <i>David Nutchey</i> Chair: Noleine Fitzallen	Alternative Starting Point for Teaching Fractions <i>Jose Luis Cortina</i> <i>Jana Visnovska</i> <i>Claudia Zuniga</i> Chair: Wee Tiong Seah	Transforming Children's Mathematical and Scientific Development: A Longitudinal Study <i>Joanne Mulligan</i> <i>Lyn English</i> <i>Michael Mitchelmore</i> <i>Nathan Crevensten</i> Chair: Michael Mitchelmore
	14 25 – 14 40							2SC2 Seeing is Believing: Building Mathematical Knowledge for Teaching Through Demonstration Lessons <i>Louise Hodgson</i> Chair: Michael Mitchelmore	
Codes	2RP29	2RP30	2RP31	2RP32	2RP33	2RP34	2RP35	2SC3	
14 50 - 15 30	14 50 – 15 10	The Four-Three-Four Model: Drawing on Partitioning, Equivalence, and Unit-Forming in a Quotient Sub-construct Fraction Task <i>Annie Mitchell</i> Chair: Sarah Ferguson	Emotions and the Development of Statistical Literacy <i>Colin Carmichael</i> Chair: Sandra Herbert	Nature of an Attitude Towards Learning Mathematics Questionnaire <i>Khoon Yoong Wong</i> <i>Chen Qian</i> Chair: Tom Lowrie	Mathematical Knowledge for Teaching of MERGA Members <i>Rosemary Callingham</i> <i>Kim Beswick</i> <i>Julie Clark</i> <i>Barry Kissane</i> <i>Pep Serow</i> <i>Steve Thornton</i> Chair: Rashidah Vapumarican	Students' Summaries of Mathematical Lectures: Comparing the Discourse of Students with the Discourse of Lectures <i>Magnus Österholm</i> Chair: Mala S. Nataraj	Interpreting Graphs: Students Developing an Understanding of Covariation <i>Noleine Fitzallen</i> Chair: David Nutchey	Chinese Primary Students' Mathematical Task Types Preferences <i>Wee Tiong Seah</i> <i>Anastasios (Tasos) Barkatsas</i> Chair: Jana Visnovska	Developing Computational Fluency in Multi-Digit Multiplication: A Learning Trajectory Approach <i>Kristen Tripet</i> <i>Janette Bobis</i> <i>Jenni Way</i> Chair: Janette Bobis
	15 15 – 15 30							2SC4 Early Childhood Mathematics: The Case of <i>More</i> or <i>Less</i> <i>Mohan Chinnappan</i> <i>Amy Chan</i> Chair: Janette Bobis	

Research Presentation Sessions Overview

Tuesday 3 July

Research Session 3

Research Papers								Round Table		Short Communications	
Venue	TR720	TR719	TR718	TR717	TR716	TR715	TR714	TR711	TR710	TR712	
Codes	3RP36	3RP37	3RP38	3RP39	3RP40	3RP41	3RP42	3RT1	3RT2	3SC6	
16 00 – 16 40	16 00 – 16 20	Steps in Developing a Quality Whole Number Place Value Assessment for Years 3-6: Unmasking the “Experts” <i>Angela Rogers</i> Chair: Colin Carmichael	The Development of an Assessment Tool: Student Knowledge of the Concept of Place Value <i>Karen Major</i> Chair: Yuan Ting Nai	Young Children's Metarepresentational Competence in Data Modelling <i>Lyn English</i> Chair: Paul Shulter	Mathematical Modelling for Singapore Primary Classrooms: From a Teacher's Lens <i>Cynthia Seto Mary Magdalene Thomas Kit Ee Dawn Ng Chun Ming Eric Chan Wanty Widjaja</i> Chair: Kit Ee Dawn Ng	The Effects of Creating Rich Learning Environments for Children to Measure Mass <i>Jill Cheeseman Andrea McDonough Sarah Ferguson</i> Chair: Sarah Ferguson	Problem Categorisation in Ratio – A Closer Look <i>Norhuda Musa John Malone</i> Chair: John Malone	Developing Pedagogical Strategies to Promote Structural Thinking in Early Mathematics <i>Joanne Mulligan Michael Mitchelmore</i> Chair: Boon Liang Chua	Developing Self-Regulated Teacher Learners to Improve Student Outcomes in Mathematics <i>Janette Bobis Jenni Way Judy Anderson</i> Chair: Judy Anderson	Students' Conceptions of Equality <i>Megan Anakin Chris Linsell Jeffrey Smith</i> Chair: Chris Linsell	Translation of Word Problems for Year 6 Lower Ability Students: An Action Research Project <i>Min Chern Lim Kai Kow Joseph Yeo</i> Chair: Kai Kow Joseph Yeo
	16 20 – 16 40										3SC7 Examining Opportunities and Constraints in the Use of Context Based Experiences for Engaging Indigenous Australian Students in the Learning of <i>Numeracy</i> <i>Kate Naughtin</i> Chair: Kai Kow Joseph Yeo

Tuesday 3 July 2012 & Thursday 5 July 2012	Posters	13 20 – 14 00	Venue: Outside LT1
A Longitudinal Study Preparing Preservice Teachers to Learn and Teach Mathematics with Technology <i>Leah A. Nillas</i>			
Problem@Web: A Project Around an On-line Problem Solving Mathematical Competition in Portugal <i>Susana Carreira Hélia Jacinto Isa Martins Jaime Silva Juan Rodriguez Nélia Amado Nuno Amaral Rosa Tomás Ferreira Sandra Nobre Sílvia Reis</i>			
An Analysis of Students' Strategies for Area Measurement and its Curricular Implications <i>Jeenath Rahaman</i>			
Do not Call on Me: Mathematics Anxiety among Students with Learning Differences <i>Michelle LW Bower Suriza van der Sandt</i>			

Research Presentation Sessions Overview

Wednesday 4 July Research Session 4

		Research Papers						Short Communications	
Venue	TR720	TR719	TR718	TR717	TR716	TR715	TR714	TR713	
Codes	4RP43	4RP44	4RP45	4RP46	4RP47	4RP48	4RP49	4SC8	
14 00 – 14 40	14 00 – 14 20	Does Knowing More Advanced Mathematics Ensure Effectiveness of Working Towards Demonstrating Specialised Mathematical Content Knowledge of Second-Year Pre-Service Teachers? <i>Sharyn Livy</i> Chair: Michael Cavanagh	Developments in Pre-service Teachers' Mathematics for Teaching of Fractions <i>Mohan Chinnappan Tricia Forrester Elise Thurtell-Hoare</i> Chair: Ban Heng Choy	Australian Pre-Service Teachers Overseas Tour: Implications for Mathematics Teaching and Learning <i>Allan Leslie White</i> Chair: Wee Tiong Seah	Insights into Ways that Teachers Plan their Mathematics Teaching <i>Peter Sullivan David Clarke Doug Clarke Peter Gould David Leigh-Lancaster Gerard Lewis</i> Chair: Berinderjeet Kaur	A Revolving Model of Pre-service Teacher Development in Mathematics <i>Susanna Wilson</i> Chair: Lens Sparrow	Using Classroom Episodes to Foster Prospective Teachers' Didactical Knowledge: Issues for Teacher Education <i>Rosa Tomás Ferreira Luís Menezes Maria Helena Martinho</i> Chair: Michelle LW Bower	Teacher Subject Matter Knowledge of Number Sense <i>Hannah Briand-Newman Monica Wong David Evans</i> Chair: Monica Wong	Teachers' Perceptions of Student Engagement and Disengagement in Mathematics <i>Karen Skilling Janette Bobis Andrew Martin Judy Anderson Jenni Way</i> Chair: Jenni Way
	14 25 – 14 40								

Wednesday 4 July Research Session 4

Research Papers							Short Communications		Symposium		
Venue	TR720	TR719	TR718	TR717	TR715	TR714	TR713	TR712	TR716		
Codes	4RP50	4RP51	4RP52	4RP53	4RP54	4RP55	4SC10	4SC12	4SYM1		
14 50 - 15 30	14 50 - 15 10	Strategies Used by Students to Compare Two Data Sets <i>Robyn Reaburn</i> Chair: Zhu Ying	Mathematics Knowledge for Teaching: Evidence from Lesson Study <i>Mohan Chinnappan</i> <i>Ui Hock Cheah</i> Chair: Kathy Brady	Predictive Validity of Numeracy Entry Requirements for University: Pre-service Teachers' Mathematics Knowledge and Attitudes <i>Jenny Young-Loveridge</i> <i>Brenda Bicknell</i> <i>Judith Mills</i> Chair: Brenda Bicknell	Supporting Teachers in Choosing and Using Challenging Mathematics Tasks <i>Peter Sullivan</i> <i>Doug Clarke</i> <i>Debbie Michaels</i> <i>Angela Mornane</i> <i>Anne Roche</i> Chair: Berinderjeet Kaur	Teachers' Knowledge and Attitudes: Causes and Consequences of Mechanics Phobia <i>Hemant Bessoondyal</i> <i>Ajay Ramful</i> Chair: Robyn Pierce	Teaching Algebra Conceptually: The Process of Bringing Research to Practitioners <i>Megan Anakin</i> <i>Ayelet Lazarovitch</i> Chair: Vicki Steinle	Alleviating Maths Anxiety Through Mentoring in an Emotional Intelligence Framework <i>Timothy Perkins</i> Chair: Theodosia Prodromou	Developing Statistical Literacy: Student Learning and Teacher Education <i>Hélia Oliveira</i> <i>Rosa Tomás Ferreira</i> <i>Ana Henriques</i> <i>João Pedro da Ponte</i> <i>Carolina Carvalho</i> <i>Ana Paula Canavarro</i> <i>Susana Colaço</i> Chair: Magnus Österholm	14 00 - 15 30	Improving First Year University Mathematics Teaching: An Action Research Approach Chair: <i>Shaun Belward</i> <i>Jo Balatti</i> <i>Patrick Higgins</i> <i>Wayne Read</i>
		15 15 - 15 30						4SC11	4SC13		Using Students' Algebraic Thinking to Support Teacher Learning <i>Shikha Takker</i> Chair: Theodosia Prodromou

Research Presentation Sessions Overview

Wednesday 4 July Research Session 5

Research Papers								Round Table	
Venue	TR720	TR719	TR718	TR717	TR716	TR715	TR714	TR711	TR710
Codes	5RP56	5RP57	5RP58	5RP59	5RP60	5RP61	5RP62	5RT3	5RT4
(16 00 – 16 40)	<p>Students' Ways of Knowing and Learning Mathematics and Their Ways of Interacting with Advanced Calculators</p> <p>Hazel Tan</p> <p>Chair: Joseph B. W. Yeo</p>	<p>Developing Teacher Understanding of Early Algebraic Concepts using Lesson Study</p> <p>Jodie Hunter</p> <p>Chair: Bob Perry</p>	<p>Investigating Pre-Service Teachers' Mathematics Anxiety Using the Revised Mathematics Anxiety Scale (RMARS)</p> <p>Sue Wilson</p> <p>Chair: Janeen Lamb</p>	<p>Supporting Secondary Novices' Efforts to Implement Student- and Discourse-Centred Pedagogical Practices</p> <p>Gary Lewis</p> <p>Chair: Hurryramsingh Hurchand</p>	<p>An Experienced Teacher's Conceptual Trajectory for Problem Solving</p> <p>Barbara Butterfield</p> <p>Chair: Allen Leung</p>	<p>The Hammer-and-Nail Phenomenon in Mathematics Education</p> <p>Kien H. Lim</p> <p>Chair: Bill Atweh</p>	<p>I'm Not a Maths Lover, I Push Literacy: Developing Teacher Knowledge and Practice in Mathematics Teaching</p> <p>Len Sparrow Chris Hurst</p> <p>Chair: Joanne Mulligan</p>	<p>Professional Conversations among Mathematics Educators</p> <p>Rosemary Callingham Kim Beswick Helen Chick Julie Clark Merrilyn Goos Barry Kissane Pep Serow Steve Thornton</p> <p>Chair: Kim Beswick</p>	<p>Teachers' Mathematical Knowledge and Practice</p> <p>Mohan Chinnappan</p> <p>Chair: Cynthia Seto</p>
(16 50 – 17 30)	<p>Problem Posing in Mathematical Investigation</p> <p>Joseph B. W. Yeo</p> <p>Chair: Hazel Tan</p>	<p>Improving First Year Mathematics Teaching Through Making Connections: An Action Research Approach</p> <p>Jo Balatti Shaun Belward</p> <p>Chair: Jodie Hunter</p>	<p>What Factors Support Teachers' Promotion of Powerful Positive Affect? Professional Learning Groups: A Way Forward</p> <p>Shaileigh Page Julie Clark</p> <p>Chair: Sue Wilson</p>	<p>In-Service Mauritian Teachers' Conceptions of Creativity and Readiness to Teach for Creativity in Secondary School Mathematics</p> <p>Hurryramsingh Hurchand Ajeevsing Bhola Vijaysing Bundhoo</p> <p>Chair: Gary Lewis</p>	<p>Variation and Mathematics Pedagogy</p> <p>Allen Leung</p> <p>Chair: Barbara Butterfield</p>	<p>Developing Mathematical Knowledge through Social Justice Pedagogy with Young Adult Arab Women</p> <p>Mohammed Goma Tanko Bill Atweh</p> <p>Chair: Kien H. Lim</p>	<p>Professional Learning for Teacher Assistants and its Effect on Classroom Roles</p> <p>Chris Hurst Len Sparrow</p> <p>Chair: Joanne Mulligan</p>		

Research Presentation Sessions Overview

Thursday 5 July

Research Session 6

Research Papers							
Venue	TR720	TR719	TR718	TR717	TR716	TR715	TR714
Codes	6RP70	6RP71	6RP72	6RP73	6RP74	6RP75	6RP76
(10 45 – 11 25)	<p>Exploring the Use of iPads to Engage Young Students with Mathematics</p> <p><i>Catherine Attard Christina Curry</i></p> <p>Chair: Christina Curry</p>	<p>Teaching Algebra Conceptually: Student Achievement</p> <p><i>Chris Linsell Lynn Tozer Megan Anakin Anna Cox Rachel Jones Eric McAuslan Donna Smith Garry Turner</i></p> <p>Chair: Megan Anakin</p>	<p>Mathematical Proficiency and the Sustainability of Participation: A New Ball Game Through a Poststructuralist Lens</p> <p><i>Mary Klein</i></p> <p>Chair: Wai Kwong Cheang</p>	<p>Auditing the Numeracy Demands of the Australian Curriculum</p> <p><i>Merrilyn Goos Shelley Dole Vince Geiger</i></p> <p>Chair: Shelley Dole</p>	<p>Let's Count: Evaluation of a Pilot Early Mathematics Program in Low Socioeconomic Locations in Australia</p> <p><i>Bob Perry Ann Gervasoni Sue Dockett</i></p> <p>Chair: Ann Gervasoni</p>	<p>Diffusion of the Mathematics Practical to Mainstream Secondary Schools in Singapore</p> <p><i>Yew Hoong Leong Pee Choon Toh Jaguthsing Dindyal Foo Him Ho Eng Guan Tay</i></p> <p>Chair: Eng Guan Tay</p>	<p>Mathematics Teaching as a Discipline</p> <p><i>Ban Heng Choy</i></p> <p>Chair: Zhu Ying</p>
Codes	6RP77	6RP78	6RP79	6RP80	6RP81	6RP82	6RP83
11 30 – 12 10	<p>Coordinating Known and Unknown Quantities in a Multiplicative Context: Problem Conceptualization, Affordances and Constraints</p> <p><i>Ajay Ramful</i></p> <p>Chair: Cris Edmonds-Wathen</p>	<p>Evaluating Middle Years Students' Proportional Reasoning</p> <p><i>Annette Hilton Geoff Hilton Shelley Dole Merrilyn Goos Mia O'Brien</i></p> <p>Chair: Geoff Hilton</p>	<p>Virtual Mathematics Education: Using Second Life to Model and Reflect Upon the Teaching of Mathematics</p> <p><i>Tracey Muir</i></p> <p>Chair: Helen Forgasz</p>	<p>Curriculum Leadership: Reforming and Reshaping Successful Practice in Remote and Regional Indigenous Education</p> <p><i>Robyn Jorgensen</i></p> <p>Chair: Tom Lowrie</p>	<p>The Progress of Grade 1 Students Who Participated in an Extending Mathematical Understanding Intervention Program</p> <p><i>Ann Gervasoni Linda Parish Teresa Hadden Carole Livesey Kate Bevan Melissa Crosswell Kathie Turkenberg</i></p> <p>Chair: Steve Thornton</p>	<p>Diffusion of the Mathematics Practical Paradigm in the Teaching of Problem Solving: Theory and Praxis</p> <p><i>Khiok Seng Quek Yew Hoong Leong Eng Guan Tay Tin Lam Toh Jaguthsing Dindyal</i></p> <p>Chair: Eng Guan Tay</p>	<p>Teachers' Response to Peer Group Learning in First Year Mathematics – an Analysis Using Transformative Learning Theory</p> <p><i>Shaun Belward Jo Balatti</i></p> <p>Chair: Oon Hua Wong</p>
Codes	6RP84	6RP85	6RP86	6RP87	6RP88	6RP89	6RP90
12 15 – 12 55	<p>Spatial Metaphors of the Number Line</p> <p><i>Cris Edmonds-Wathen</i></p> <p>Chair: Ajay Ramful</p>	<p>Teaching for Abstraction: Collaborative Teacher Learning</p> <p><i>Paul White Sue Wilson Michael Mitchelmore</i></p> <p>Chair: Dong Sheng Zhao</p>	<p>K-2 Make It Count Students' Views of Mathematics</p> <p><i>Gilah Leder Helen Forgasz</i></p> <p>Chair: Tracey Muir</p>	<p>Digital Games for Learning Mathematics: Possibilities and Limitations</p> <p><i>Robyn Jorgensen (Zevenbergen) Tom Lowrie</i></p> <p>Chair: Robyn Jorgensen (Zevenbergen)</p>	<p>Developing Mathematical Resilience Among Aboriginal Students</p> <p><i>Steve Thornton Joanne Statton Sophie Mountzouris</i></p> <p>Chair: Melissa Crosswell</p>	<p>Use of Practical Worksheet in Teacher Education at the Undergraduate and Postgraduate Levels</p> <p><i>Pee Choon Toh Tin Lam Toh Foo Him Ho Khiok Seng Quek</i></p> <p>Chair: Khiok Seng Quek</p>	<p>Using Codes To Facilitate Metacognition</p> <p><i>Oon Hua Wong</i></p> <p>Chair: Shaun Belward</p>

Research Presentation Sessions Overview

Thursday 5 July Research Session 7

Research Papers								Short Communications		
Venue	TR720	TR719	TR718	TR717	TR716	TR715	TR714	TR713	TR712	
codes	7RP91	7RP92	7RP93	7RP94	7RP95	7RP96	7RP97	7SC14	7SC16	
14 00 – 14 40	14 00 – 14 20	Pedagogical Content Knowledge in Mathematical Modelling Instruction <i>Liang Soon Tan</i> <i>Keng Cheng Ang</i> Chair: Keng Cheng Ang	How Does Teacher Knowledge in Statistics Impact on Teacher Listening? <i>Tim Burgess</i> Chair: Theodosia Prodromou	Designing Opportunities for Prospective Teachers to Facilitate Mathematics Discussions in Classrooms <i>Roberta Hunter</i> <i>Glenda Anthony</i> Chair: Shikha Takker	Online Quizzes: How Effective Are They for Mastering Complex Algebra? <i>Wayne Read</i> <i>Patrick Higgins</i> Chair: Patrick Higgins	Financial Literacy Education: A Critical Review of the Literature <i>Carly Sawatzki</i> Chair: Robert Wolffe	More Talk in Mathematics Service Units by Students Rather Than the Lecturer? <i>Anne D'Arcy-Warmington</i> Chair: Jane Watson	Reinventing the Wheel: Historical Perspectives on Theories for Interpreting Discourse Patterns in Mathematics Classrooms <i>Nerida F. Ellerton</i> <i>Pongchawee Vaiyavutjamai</i> <i>M. A. (Ken) Clements</i> Chair: Pongchawee Vaiyavutjamai	iMPaCT-Math: Programming as a Means to Motivate Exploration of Foundational Algebraic Concepts <i>Kien H. Lim</i> <i>Eric Freudenthal</i> <i>Art Duval</i> <i>Amy Wagler</i> Chair: Bernadette Long	Classroom Goal Structure, Achievement Goals, and Achievement: A Multilevel Mediation Analysis of Longitudinal Data <i>Wenshu Luo</i> <i>David Hogan</i> Chair: Kwee Gek Chua
		14 25 – 14 40							7SC15	7SC17
								Developing an Intervention Program for Students At Risk Drawing on the Strengths of Successful Existing Programs <i>Bernadette Long</i> Chair: Kien H. Lim	Critical Reflection as an Important Pathway to Pre-service Teachers' Development (A Snapshot) <i>Kwee Gek Chua</i> Chair: Wenshu Luo	

Thursday 5 July Research Session 7

Research Papers						
Venue	TR720	TR719	TR718	TR717	TR716	TR715
Codes	7RP98	7RP99	7RP100	7RP101	7RP102	7RP103
14 50 – 15 30	Empirical Evidence for Niss' Implemented Anticipation in Mathematising Realistic Situations <i>Gloria Stillman</i> <i>Jill Brown</i> Chair: Jill Brown	The Classicist and the Frequentist Approach to Probability Within a TinkerPlots2 Combinatorial Problem <i>Theodosia Prodromou</i> Chair: Tim Burgess	Teacher Anticipation and Reflection as Tools for Teacher Learning <i>Shikha Takker</i> Chair: Glenda Anthony	Increasing the Learning Value of First Year University Mathematics Tutorials <i>Patrick Higgins</i> <i>Wayne Read</i> Chair: Wayne Read	Problems in Our Math Education Program: This Is Good! <i>Patricia Nugent</i> <i>Robert Wolffe</i> <i>Jean Marie Grant</i> Chair: Carly Sawatzki	Trialling a Professional Statistical Literacy Hierarchy for Teachers <i>Robyn Pierce</i> <i>Helen Chick</i> <i>Jane Watson</i> <i>Michael Dalton</i> <i>Magdalena Les</i> Chair: Helen Chick

Research Presentation Sessions Overview

Thursday 5 July

Research Session 8

		Research Papers						Round Table		Short Communications	
Venue		TR720	TR719	TR718	TR717	TR716	TR715	TR714	TR711	TR710	TR713
Codes		8RP104	8RP105	8RP106	8RP107	8RP108	8RP109	8RP110	8RT5	8RT6	8SC18
16 00 – 16 40	16 00 – 16 20	Exploring Student Reflective Practice during a Mathematical Modelling Challenge <i>Trevor Redmond Raymond Brown Joanne Sheehy Harry Kanasa</i>	Teaching Mathematics in a Project-Based Learning Context: Initial Teacher Knowledge and Perceived Needs <i>Kim Beswick Rosemary Callingham Tracey Muir</i>	Average Revisited in Context <i>Jane Watson Helen Chick</i>	Identifying Stages in a Learning Hierarchy for Use in Formative Assessment – the Example of Line Graphs <i>Kaye Stacey Beth Price Vicki Steinle</i>	Developing a Culture of Collaboration <i>Janeen Lamb Jana Visnovska</i>	Impulsive-Analytic Disposition in Mathematical Problem Solving: A Survey and a Mathematics Test <i>Kien H. Lim Amy Wagler</i>	Characteristics of Problem Posing of Grade 9 Students on Geometric Tasks <i>Puay Huat Chua Khoon Yoong Wong</i>	Models and Modelling for the Future <i>Lyn D. English Richard Lesh Kit Ee Dawn Ng Gloria Stillman</i>	Teaching Mathematics Respectfully: Preparing Culturally Responsive Mathematics Teachers <i>Robin Averill Megan Clark</i>	Harnessing the Power of Cloud Computing for Mathematical Modelling in Two High Performing Schools from Singapore and Australia <i>Bock Boon Lim Mei Chuen Chen Trevor Redmond Joanne Sheehy</i> Chair: Kum Fong Foo
	16 20 – 16 40	Chair: Annette Hilton	Chair: Rosemary Callingham	Chair: Peter Sullivan	Chair: Vicki Steinle	Chair: Jana Visnovska	Chair: Cris Edmonds-Wathen	Chair: Khoon Yoong Wong	Chair: Kit Ee Dawn Ng	Chair: Roberta Hunter	8SC19 The Use of Open-Ended Tasks as an Instructional and Assessment Tool <i>Kum Fong Foo Leng Low Yen Ping Pang Wai Leng Lye Cherng Ginn Kenneth Lui</i> Chair: Bock Boon Lim