

CONGRESS PROGRAMME

Legend		
Type of presentation LP = Long Paper SP = Short Paper HIT = 'How I Teach' Paper WS = Workshop MM = Maths Market presentation Dis = Discussion Key = Keynote address Pos = Poster	Level FP = Foundation Phase IP = Intermediate Phase SP = Senior Phase FET = Further Education and Training MTE = Mathematics Teacher Education Gen = General	Venues Hall = HydM Scholtz Hall STBn = Stablis n, where n ∈ {1, 2, 3, 4} CL = Computer Lab LSS = Lower Side of Scholtz Hall USS = Upper Side of Scholtz Hall WDn = Winkie Direko n, where n ∈ {46, 142, 144, 145, 147} MBn = Maths Building n, where n ∈ {113, 114}

MONDAY 29 June 2009 Registration and Opening

08:00 - 09:50	Registration Hall
09:45 - 10:30	Tea/Coffee
10:35 - 11:55	Opening Ceremony Hall

MONDAY 29 June 2009 Session 1 (Plenary 1) : 12:00 - 13:00

12:00 - 13:00	<i>The Special Work of Knowing and Doing Mathematics in Teaching</i> Deborah Ball , QUANTUM guest speaker (Introduced by Alwyn Olivier) Hall
13:10 - 14:10	Lunch

MONDAY 29 June 2009 Session 2 (Parallel session 1) : 14:20 - 16:25

Time	Type	Speaker: Title of Presentation	Chair	Venue	Level
14:20 - 16:20	WS	Michael de Villiers : <i>Investigating balancing points of polygons</i>		CL	FET/MTE
14:20 - 16:20	WS	Paul Laridon : <i>Regression modeling</i>		WD147	FET
14:20 - 16:20	WS	Nelis Vermeulen : <i>Developing Algebraic Thinking in the Primary School</i>		WD144	IP/SP
14:20 - 16:20	WS	Vishnu Naidoo : <i>Mathematics games</i>		WD142	IP/SP/FET
14:20 - 16:20	WS	John Luis : <i>Problem solving using heuristics</i>		WD145	IP/SP
14:20 - 16:20	Pos	Frank Coetzer : <i>Baseline testing of intermediate and senior phase learners in the Overberg region</i>		Foyer in STB	
14:20 - 15:20	Dis	Discussion with Deborah Ball	Alwyn Olivier	MB114	Gen
14:20 - 15:20	LP	Craig Pournara : <i>Two approaches to learning the mathematics of annuities</i>	Stephan du Toit	STB1	MTE
15:25 - 16:25	LP	Siyepu Sibawu : <i>The zone of proximal development in the learning of differential calculus</i>	Lorraine Botha	STB1	MTE
14:20 - 15:20	LP	Caroline Long : <i>From whole numbers to real numbers: applying Rasch measurement to investigate conceptual complexity in Key Concepts</i>	Gawie du Toit	STB2	SP
15:25 - 15:55	SP	Prince Jaca : <i>Mathematics teaching at GET: An explanatory framework - 'Speedometer'</i>	Faaz Gierdien	STB2	IP
14:20 - 15:20	MM	Heinemann Publishers : <i>Maths in 10Ticks</i>		STB3	Gen
14:20 - 15:20	MM	Maskew Miller Longman : <i>My Mobi Pilot Project: Using cellphones for Maths revision</i>		STB4	Gen
15:25 - 16:25	MM	Oxford University Press		STB4	Gen
16:20 - 16:50		Tea/Coffee			

MONDAY 29 June 2009 Session 3 (Regional Meetings) : 17:00 - 18:00

Province	Venue	Province	Venue
Eastern Cape	STB1	Mpumalanga	WD142
Free State	STB2	Northern Cape	WD147
Gauteng	STB3	North-West	WD145
KwaZulu-Natal	STB4	Western Cape	WD144
Limpopo	MB114		

TUESDAY 30 June 2009

Session 4 (Parallel session 2) : 08:00 - 10:05

Time	Type	Speaker: Title of Presentation	Chair	Venue	Level
08:00 - 10:00	Key	Deborah Ball: <i>Developing Teachers' Mathematical Knowledge for Teaching</i>	Erna Lampen	Hall	MTE
08:00 - 10:00	WS	Lyn Pollock: <i>Autograph Graphing and Statistics software</i>		CL	SP/FET/MTE
08:00 - 08:30	HIT	Laurie Butgereit: <i>Using Text adventure games to entice learners to practice arithmetic skills over Mxit</i>	Nina Scheepers	WD142	FET
08:35 - 09:35	WS	Laurie Butgereit: <i>Thing to do with cell phones in a mathematics classroom</i>		WD142	FET
08:00 - 10:00	WS	Kerryn Vollmer: <i>Hors d'oeuvres</i>		WD144	IP/SP
08:00 - 10:00	WS	Marc North: <i>astros? or smarties? astros? or smarties?</i>		WD145	SP/FET
08:00 - 10:00	WS	Jessica Sherman: <i>Unexpected relationships between Shape, Volume and Surface Area</i>		WD147	SP/FET
08:00 - 09:00	LP	Michael de Villiers: <i>From the Fermat point to the De Villiers points of a triangle</i>	Caroline Long	STB1	FET
09:05 - 10:05	LP	Stephan du Toit: <i>The use of metacognitive strategies in the teaching and learning of mathematics</i>	Jackie Scheiber	STB1	FET
08:00 - 08:30	SP	Sunday Faleve & David Mogari: <i>A reflection on the teaching of fluid mechanics in some South African Universities</i>	Robert Mabotja	STB2	MTE
08:35 - 09:05	SP	Sunday Faleve & David Mogari: <i>The effect of Habitual Use of Calculators on the Arithmetic Proficiency of First Year University Students</i>	Robert Mabotja	STB2	MTE
09:10 - 10:05	MM	Numicon: <i>A multisensory approach to teaching number and numeracy</i>		STB2	FP
08:00 - 09:00	Dis	Foundation Phase Curriculum meeting	Lilian Mahtangu	MB113	FP
09:05 - 10:05	Dis	Intermediate Phase Curriculum meeting	Isaiah Shabangu	MB113	IP
08:00 - 09:00	Dis	Senior Phase Curriculum meeting	BJ Mongwe	WD46	SP
09:05 - 10:05	Dis	FET Curriculum meeting	Sipho Vilakazi	WD46	FET
08:00 - 09:00	MM	Heinemann Publishers: <i>Maths Literacy + Spot On = Success</i>		STB3	FET
09:05 - 10:05	MM	Berlut Books: <i>Making the most of maths in the classroom and improving students maths results</i>		STB3	FET
08:00 - 09:00	MM	GeoGenius construction kit (a product of Brombacher and Associates): <i>Studying the properties of and relationships between 2-D shapes and 3-D objects using the GeoGenius construction kit</i>		STB4	Gen
09:05 - 10:05	MM	Maskew Millar Longman: <i>Setting exams using the FOCUS ExamBanks</i>		STB4	Gen
08:00 - 09:00	MM	Oxford University Press		MB114	Gen
09:05 - 10:05	MM	Blue Stallion Technologies: <i>Mathematica - a tool for exploring and teaching mathematics (amongst other things)</i>		MB114	Gen
10:00 - 10:30		Tea/Coffee			

TUESDAY 30 June 2009

Session 5 : 10:35 - 11:55

10:35 - 11:55		AMESA Annual General Meeting		Hall	
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TUESDAY 30 June 2009

Session 6 (Plenary 2) : 12:00 - 13:00

12:00 - 13:00		<i>Mathematics for teaching matters</i> Jill Adler, Zenèx guest speaker (Introduced by Neil Eddy)		Hall	
13:10 - 14:10		Lunch			



TUESDAY 30 June 2009

Session 7 (Panel Discussion 1) : 14:20 - 16:20

14:20 - 16:20		<i>Mathematics is a human activity!</i> Alwyn Olivier (chair) Lekhotla Mokoena, Sandra van Niekerl Roshini Ramnarayan, Adnaan Enderies		Hall	
16:20 - 16:55		Tea/Coffee			

TUESDAY 30 June 2009

Session 8 (Parallel session 3) : 17:00 - 18:05

Time	Type	Speaker: Title of Presentation	Chair	Venue	Level
17:00 - 18:00	Key	Andreas Stylianides: <i>Primary School Arithmetic as a Foundation for Algebra Learning</i>	Prince Jaca	Hall	Gen
17:00 - 18:00	WS	Graeme Evans: <i>Problem solving questions in national senior certificate (NSC) mathematics papers</i>		WD147	FET
17:00 - 18:00	LP	Mdumisemi Mabizela: <i>Learners fail mathematics: an argumentative essay on contributing factors</i>	Sunday Faleye	STB1	FET
17:00 - 18:00	LP	Themba Mhethwa: <i>An analysis of mathematical literacy curriculum documents: cohesions, deviations and worries</i>	Paul Laridon	STB2	FET
17:00 - 17:30	HIT	J February: <i>How to interpret the cumulative frequency diagram (the Ogive)</i>	Laurie Butgereit	STB3	FET
17:35 - 18:05	HIT	PK Raadt: <i>Drawing and interpreting cumulative frequency curves (Ogives)</i>	J February	STB3	FET
17:00 - 17:30	SP	Anelize van Biljon: <i>Quartiles and percentiles: which formula?</i>	Mdumisemi Mabizela	STB4	FET
17:35 - 18:05	HIT	Robert Mabotja: <i>How I teach: Finding the equation of a regression line using available technology</i>	Jackie Scheiber	STB4	FET

TUESDAY 30 June 2009

Social Programme : 19:00 - 22:00

19:00 - 22:00		Cultural Dinner Tsosetsetso Secondary School Hall			
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WEDNESDAY 1 July 2009
Session 9 (Parallel session 4) : 08:00 - 10:10

Time	Type	Speaker: Title of Presentation	Chair	Venue	Level
08:00 - 10:00	Key	Jill Adler: <i>Activities that develop learners' mathematical thinking and understanding</i>	Neil Eddy	Hall	SP/FET
08:00 - 10:00	WS	Alwyn Olivier: <i>Excel Developer Activities</i>		CL	FET
08:00 - 10:00	WS	Marc North: <i>Le tour de maths - using a bicycle to teach mathematics</i>		WD142	SP/FET
08:00 - 10:00	WS	Dory Reddy: <i>Exploring graphs through tables</i>		WD144	SP/FET
08:00 - 10:00	WS	Marina van Heyningin & Ramesh Jeram: <i>Functions and inverses in context</i>		WD145	FET
08:00 - 10:00	WS	Lorraine Botha: <i>This is how I teach the enlargement of a three-dimensional object by a factor k and its influence on the surface area and the volume of the object</i>		WD147	FET
08:00 - 10:00	WS	Makgoshi Manyatshe: <i>An introduction to functional relationships</i>		MB114	SP
08:00 - 09:00	LP	Sue Southwood: <i>Plenty of Pythagoras proofs</i>	Anelize van Bijl	STB1	FET
09:05 - 09:35	HIT	Raymond Jonklass: <i>Scatter Plots and Lines of Best Fit</i>	Mamabolo Ntebaleng	STB1	FET
09:40 - 10:10	HIT	Dungile Maponyane: <i>How I teach scatter plots</i>	Thabisa Tikolo	STB1	FET
08:00 - 08:30	HIT	Mamabolo Ntebaleng: <i>Determining probabilities of compound events</i>	Nokwanda Mbusi	STB2	SP
08:35 - 09:05	HIT	Thabisa Tikolo: <i>How I teach tally tables to learners</i>	KM Makopo	STB2	IP
09:10 - 10:10	Dis	Foundations for Learning Campaign	Vishnu Naidoo	STB2	IP/SP
08:00 - 09:00	LP	Roger MacKay: <i>Remarks on the inefficient use of time in the teaching and learning of mathematics in five secondary schools</i>	Themba Mthethwa	STB3	FET
09:05 - 10:05	MM	Dynamic Math Learning Unveiling Sketchpad 5: <i>new tools & opportunities for mathematical explorations</i>		STB3	FET
08:00 - 09:00	MM	CASIO		STB4	Gen
09:05 - 10:05	MM	Advtech's Advanced Mathematics Course		STB4	FET
10:05 - 10:35		Tea/Coffee			

WEDNESDAY 1 July 2009
Session 10 (Parallel session 5) : 10:40 - 11:45

Time	Type	Speaker: Title of Presentation	Chair	Venue	Level
10:40 - 11:40	WS	Sonia Abrahams: <i>Add the angle to the 2- and 3- dimensions</i>		WD142	IP
10:40 - 11:40	WS	Sue Southwood: <i>The number system box</i>		WD145	SP/FET
10:40 - 11:40	WS	Shanba Govender: <i>Data handling in the foundation phase</i>		WD147	FP
10:40 - 11:40	Dis	Discussion with Jill Adler	Neil Eddy	MB114	Gen
10:40 - 11:40	LP	Faiz Gierdien & Alwyn Olivier: <i>When pre-service teachers learn to function using spreadsheet-based algebraic approaches</i>	Karen Junquiera	STB1	SP/FET/MTE
10:40 - 11:10	SP	Lovemore Nyaumwe: <i>Primary school teachers' mathematical content knowledge on</i>	Patrick Mnisi	STB2	FP
11:15 - 11:45	HIT	Patrick Mnisi: <i>How I teach math using virtual manipulative</i>	Robert Mabotja	STB2	SP
10:40 - 11:10	HIT	Rebecca Seagisho: <i>Organising data using a stem-and-leaf diagram</i>	PK Raadt	STB3	SP/FET
11:15 - 11:45	HIT	Peggy Govender: <i>How to create and read box-and-whisker plots</i>	Aaron Ntsieni	STB3	FET
10:40 - 11:10	HIT	Aaron Ntsient: <i>Misleading averages (measures of central tendency)</i>	Sunday Faleye	STB4	FET
11:15 - 11:45	HIT	Nina Scheepers: <i>Sampling</i>	Raymond Jonklass	STB4	FET

WEDNESDAY 1 July 2009
Session 11 (Plenary 3) : 12:00 - 13:00

12:00 - 13:00		<i>Towards a more comprehensive "knowledge package" for teaching proof</i> Andreas Stylianides, Zenèx guest speaker (Introduced by Prince Jaca) Hall			
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WEDNESDAY 1 July 2009
Social Programme : 13:10 - late afternoon

13:10 - late afternoon		Packed Lunch and Excursions			
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THURSDAY 2 July 2009					
Session 12 (Parallel session 6) : 08:00 - 10:10					
Time	Type	Speaker: Title of Presentation	Chair	Venue	Level
08:00 - 10:00	Dis	Mathematics Teacher Education Curriculum meeting	Erna Lampen	MB113	MTE
08:00 - 10:00	WS	Lyn Pollock: The Geometer's Sketchpad		CL	SP/FET/MTE
08:00 - 10:00	WS	Jackie Scheiber: <i>The interpretation of quartiles and percentiles in maths literacy</i>		WD142	FET
08:00 - 10:00	WS	Delia Morris: <i>Teaching and assessing space and shape in the foundation phase</i>		WD144	FP
08:00 - 10:00	WS	Marionette Maart: <i>The versatile use of pattern blocks in the classroom</i>		WD145	IP
08:00 - 10:00	WS	Mary Mei: <i>Beadwork and mathematics: patterns, functions and algebra</i>		WD147	SP
08:00 - 10:00	WS	Hannelie Quass & Anne-Mari Dicker: <i>Ideas and activities to make you a dynamic numeracy/mathematics teacher</i>		MB114	FP/IP/SP
08:00 - 10:00	Pos	Frank Coetzer: <i>Baseline testing of intermediate and senior phase learners in the Overberg region</i>		Foyer in Stablis	
08:00 - 09:00	Dis	Olympiads Meeting: Junior (Grades 1 - 7)	Vishnu Naidoo	WD46	FP/IP
09:05 - 10:05	Dis	Olympiads Meeting: Senior (Grades 8 - 12)	Vishnu Naidoo	WD46	SP/FET
09:30 - 10:00	SP	Helena Miranda: <i>Mathematics Teacher Professional Development: A Reflection</i>	Bridget Cameron	STB1	FET
08:00 - 09:00	LP	Anthea Roberts: <i>Impact of language on the constitution of mathematics in pedagogic contexts: a case drawn from a research and development project</i>	Roger Mackay	STB2	FET/MTE
09:05 - 09:35	HIT	Ian Atteridge: <i>Mathematical modeling - Finding and using Tn</i>	Dungile Maponyane	STB2	FET
09:40 - 10:10	HIT	Ian Atteridge: <i>Sketching a cubic function - Traditional methods vs using Technology</i>	Dungile Maponyane	STB2	FET
08:00 - 09:00	LP	Shaheeda Jaffer: <i>Breaking up and making up: A feature of school mathematics pedagogy</i>	Alwyn Olivier	STB3	SP
09:05 - 09:35	HIT	KM Makopo: <i>Teaching probability through play</i>	Rebecca Seagisho	STB3	SP/FET
09:40 - 10:10	HIT	Nokwanda Mbusi: <i>A statistical investigation into human behaviour</i>	Tshililo Mukhaninga	STB3	SP/FET
08:00 - 09:00	MM	SHARP Electronics		STB4	Gen
09:05 - 10:05	MM	NASOU via AFRIKA		STB4	Gen
10:05 - 10:35		Tea/Coffee			
THURSDAY 2 July 2009					
Session 13 (Parallel session 7) : 10:40 - 11:45					
Time	Type	Speaker: Title of Presentation	Chair	Venue	Level
10:40 - 11:40	Dis	Discussion with Andreas Stylianides	Prince Jaca	MB114	Gen
10:40 - 11:40	LP	Sheila Matoti & Karen Junqueira: <i>Assessing the academic behavioural confidence (ABC) of first-year students at the Central University of Technology, Free State</i>	Anthea Roberts	STB1	FET
10:40 - 11:40	LP	Anthony Essien: <i>From context to concept? An analysis of the introduction of the equal sign in three grade 1 textbooks</i>	Sue Southwood	STB2	FP
10:40 - 11:10	HIT	Thabani Mkhize: <i>Measures of central tendency</i>	Marionette Maart	STB3	SP/FET
11:15 - 11:45	HIT	Desiree Timmit: <i>A practical approach to teaching tree diagrams</i>	Mamoshubudi Mabale	STB3	SP
10:40 - 11:40	MM	Dynamic Math Learning: <i>Unveiling Stetchpad 5: new tools & opportunities for mathematical explorations</i>		STB4	FET
10:40 - 11:40	MM	Cambridge University Press		WD144	Gen
10:40 - 11:40	MM	The Answer		MB113	Gen
THURSDAY 2 July 2009					
Session 14 (Plenary 4) : 11:50 - 12:50					
11:50 - 12:50		<i>When language is transparent: Supporting mathematics learning multilingual contexts</i> Mamokgethi Setati, Zenèx guest speaker (Introduced by Elispeth Khembo) Hall			
13:10 - 14:10		IDC - Lunch			
		 			
THURSDAY 2 July 2009					
Session 15 (Panel Discussion 2) : 14:20 - 16:20					
14:20 - 16:20		<i>What does it mean to do mathematics?</i> Aarnout Brombacher (chair) Menare Setati, Cally Kühne Hall			
16:20 - 16:55		Tea/Coffee			
THURSDAY 2 July 2009					
Session 16 (Parallel session 8) : 17:00 - 18:05					
Time	Type	Speaker: Title of Presentation	Chair	Venue	Level
17:00 - 18:00	WS	Lyn Pollock: <i>Ideas for Math remedial teaching, on and away from the computer</i>		CL	FP/IP
17:00 - 18:00	Dis	Discussion with Mamokgeti Setati	Eispeth Khembo	MB114	Gen
17:00 - 18:00	Dis	National Mathematics Week	Vishnu Naidoo	STB1	Gen
17:00 - 17:30	SP	Bridget Cameron: <i>Reflections of South African teachers on teaching math in the USA</i>	Anthony Essien	STB2	FET
17:35 - 18:05	SP	Gawie du Toit: <i>Effective learning of algebra at school</i>	Shaheeda Jaffer	STB2	FET
17:00 - 17:30	HIT	Tshililo Mukhaninga: <i>Misleading bar graphs</i>	Sonia Abrahams	STB3	FET
17:35 - 18:05	HIT	Mamoshubudi Mabale: <i>The biased interpretation of data using measures of central tendencies</i>	Sonia Abrahams	STB3	FET
THURSDAY 2 July 2009					
Social Programme : 19:00 - 22:00					
19:00 - 22:00		Congress Dinner Tsosetseto Secondary School Hall			

FRIDAY 3 July 2009

Session 17 (Parallel session 9) : 08:00 - 10:05

Time	Type	Speaker: Title of Presentation	Chair	Venue	Level
08:00 - 10:00	WS	Maggie Verster: <i>MWEB 2.0 Tools in the classroom - Using social networks, bookmarking, RSS, POD/Video-casts, Wikis, blogs and twittering in the maths/mathematical literacy classroom for interactive and collaborative learning and teaching</i>		CL	Gen
08:00 - 10:00	WS	Hamsa Venkat & Arnout Brombacher: <i>Questions NOT to ask in a Maths Literacy lesson</i>		WD142	FET
08:00 - 10:00	WS	Vishnu Naidoo: <i>Problem solving - Foundation phase mathematics</i>		WD144	FP
08:00 - 10:00	WS	Jackie Scheiber: <i>Setting a maths literacy examination</i>		WD145	FET
08:00 - 10:00	WS	Stanley Adendorff & Bertus van Etter: <i>Investigating 3-D shapes: analysing relationships among edges, faces and vertices</i>		WD147	IP/SP
08:00 - 10:00	WS	Annari Milne: <i>Use of mathematical games as an alternative, informal teaching method</i>		MB114	SP/FET
08:00 - 10:00	Dis	National Senior Certificate Mathematics	Sipho Vilakazi	STB1	SP/FET
09:30 - 10:00	SP	Robert Mabotja: <i>Learners' thinking and reasoning about the concepts area and perimeter of two-dimensional shapes</i>	Helena Miranda	STB2	IP/SP/FET
08:00 - 09:00	MM	Macmillan: <i>Tools to make you an expert teacher</i>		STB4	Gen
09:05 - 10:05	MM	Pearson Education		STB4	Gen
10:00 - 10:35		Tea/Coffee			

FRIDAY 3 July 2009

Session 18 (Plenary 5) : 10:45 - 11:45

10:45 - 11:45		<i>Thinking outside the box</i> Johan Meyer (Introduced by Vishnu Naidoo) Hall			
11:50 - 13:00		Closing Ceremony Hall			

PROGRAMME TEMPLATE

Use this to write down the details of your programme choices

Monday	Tuesday	Wednesday	Thursday	Friday
08:00 Registration	08:00 Parallel session 2	08:00 Parallel session 4	08:00 Parallel session 6	08:00 Parallel session 9
09:45 Tea/Coffee	10:00 Tea/Coffee	10:05 Tea/Coffee	10:05 Tea/Coffee	10:00 Tea/Coffee
10:35 Opening Ceremony	10:35 AGM	10:40 Parallel session 5	10:40 Parallel session 7	10:45 Plenary: Meyer
12:00 Plenary: Ball	12:00 Plenary: Adler	12:00 Plenary: Stylianides	11:50 Plenary: Setati	11:50 Closing Ceremony
13:10 Lunch	13:10 Lunch	13:10 Packed Lunch and Excursions	13:10 Lunch	13:10 Lunch
14:20 Parallel session 1	14:20 Panel : Olivier		14:20 Panel : Brombacher	
16:20 Tea/Coffee	16:20 Tea/Coffee		16:20 Tea/Coffee	
17:00 Regional Meetings	17:00 Parallel session 3		17:00 Parallel session 8	
18:00	18:00		18:00	
	19:00 Cultural Dinner		19:00 Congress Dinner	