

Maths Week

4 - 6 September 2007



Info and booking: Contact Catherine Harrison:

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3 - 7 September is Mathematics Week!! with Technology!!!

This is an opportunity for the mathematics education community to intensify debate and reflection on the teaching and learning of mathematics, share struggles, questions, lessons and successes; an opportunity for sharing ideas and enthusiasm!

The **Association for Mathematics Education of South Africa (AMESA)** will run inspirational mathematics activities for teachers and learners during Maths week.

An **IT-Mathematics** theme will drive the program on the afternoons of the 4th, 5th and 6th September, from 2 pm to about 6 pm.

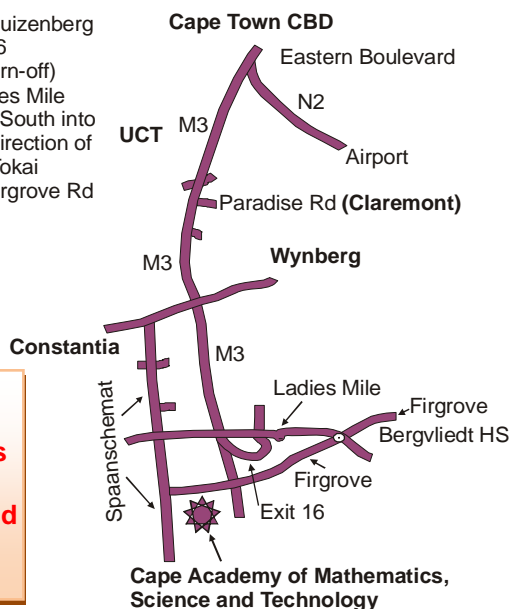
The venue is the **Cape Academy for Mathematics, Science and Technology in Constantia**.

While the focus will be mathematics, the theme will be around mathematics and (information) technology. Because our theme will explore learning opportunities in mathematics with (information) technology, it means that both hardware devices such as computers, iPods, interactive white boards as well as software/programs will have a role in the event.

Join us for collaborative thinking between experts in technology and education. Visit interesting exploration stalls, workshops and presentations during this 3-day Maths Week focus on Maths with Technology (in teaching and learning). Explore e-learning opportunities.

Visit the **Mathematics- with-Technology Expo of educational programs, products, software, Apple computers and iPods, Podcasting, Adobe Education, graphing calculators, Mxit (in education), textbook publishers, Excel-and-mathematics, Casio simulators, Smart boards/interactive white boards, slates, Geometer's Sketchpad, Autograph, Geogebra and much more!**

1. M3 South to Muizenberg
2. Left into exit 16 (Ladies Mile turn-off)
3. Right into Ladies Mile
4. At traffic circle South into Firgrove Rd, Direction of Sweet Valley/Tokai
5. 2,5km down Firgrove Rd



Cami Maths
MasterMaths
Textbook and resources Publishers

iMaths Week Programme

4 Sept. Tues

2 - 6pm: 30 - 60 min sessions on Maths with Technology:

- iWork '08 - Numbers: Apple
- License to Learn: Adobe
- Geogebra and freeware - Khanya, WCED
- Excel - Stellenbosch University
- Sketchpad - Functions and Geometry, UCT, Key Curriculum
- Autograph - Creative Learning systems
- Interactive Whiteboards
- Podcasting and iPods
- Casio Simulator and calculators
- 2Simple - interactive material
- Evalunet XT revision software,
- Micro Edit with Data Loggers Remotes & e-slides

5 Sept. Wed: AMESA Regional Conference & AGM

- 2 - 3:30 pm Maths with Technology sessions as on Tuesday
- 3:30 - 4 pm AMESA AGM
- 4 - 5 pm Plenary: **Dr David Gay, UCT Maths Dept**
The Mathematics of knots: *A talk about some of the history of knot theory, illustrating some entertaining and educational activities related to knot theory, and something about what is happening at the cutting edge of research in knot theory today, including connections between knot theory, biology and physics.*
- 5 - 6 pm: Workshops for all phases - click for programme

FP: Number sense intervention program

FP: MST kit integrated with Tec

IP/SP: Probability with Tinkerplot

IP/SP: Practical Stats

IP - FET: Web-based & interactive e-learning

IP - FET: Data handling + Interactive Whiteboard & calculator

SP/FET: Maths in Astronomy by Academy learner

SP/FET: Maths and Technology - some issues

FET: Mathematical modelling

FET: Maths - more than just numbers

6 Sept. Thurs: Above Expo + more for learners!! 2 - 6pm:

- ❖ Combination of above session with special focus on learner activities
- ❖ Maths games with Technology
- ❖ Competitions & challenges
- ❖ Paper folding geometry
- ❖ Talent learner lectures & presentations

Hip2B² TV
will be there!

PRIZES!! PRIZES!! PRIZES!! PRIZES!! PRIZES!! PRIZES!!

iMaths Week: Wednesday, 5 September 2007 Program

| Wednesday 5 September 2007 iMaths with Technology sessions and Expo | | | | | | | | | | | |
|--|---|---|---|--|---|--|--|--|---|--|---------------|
| 14:00 – 18:00 | | | | | | | | | | | |
| 14:30 – 15:00 | Geogebra & application of various freeware Lorraine Burgess | iWork '08 Numbers for Data analysis, graphs, charts, spreadsheets Podcasting and e-learning, iMovie Apple Centre Project 3 | Excel activities Faaz Gierdien | Geometer's Sketchpad Geometry and graphs | Autograph Lynn Pollock | 2Simple interactive material | Evalunet XT High School Maths revision software | Cami – Assessment software alignment to NCS and Maths literacy | MicroEdit Electronic Whiteboard, Slates, Remotes, Data loggers | | |
| 15:00 – 15:20 | | | | | | | | | | | |
| 15:30 – 16:00 | Welcome and AMESA AGM 2007 | | | | | | | | | | |
| 16:00 – 17:00 | Plenary by Dr David Gay Mathematics Department, University of Cape Town <h3 style="text-align: center;">THE MATHEMATICS OF KNOTS</h3> A talk about some of the history of knot theory, illustrating some entertaining and educational activities related to knot theory, and something about what is happening at the cutting edge of research in knot theory today, including connections between knot theory, biology and physics. | | | | | | | | | | |
| | FP | FP | IP/SP | IP/SP/FET | SP/FET | SP/FET | SP/FET | SP/FET | FET | FET | Across Phases |
| 17:10 – 18:10 | Intervention program for FP learners' number sense Adel Engelbrecht | MST kit integrated with Technology Beverley Job-Beziek | Practical approach to teaching Stats Desiree Timmet | Web-based & interactive e-learning and teaching Mike Thiem Tinkerplots Natalie, Zuki & Tutu | Mathematical modelling activity Alwyn Olivier | The mathematics in Astronomy by grade 11 Academy learner Dineo Grove | Orientations in thought and the objects of school mathematics Zain Davis & Yusuf Johnson | Casio Emulator & calculators, Stats, Graphs, geometry & interactive e-whiteboard Biddy Cameron with Aletta | Mathematics more than just numbers Sheena Rughabar | Whiteboard & calculator utilisation for teaching data handling & probability Michael Cornelius | |