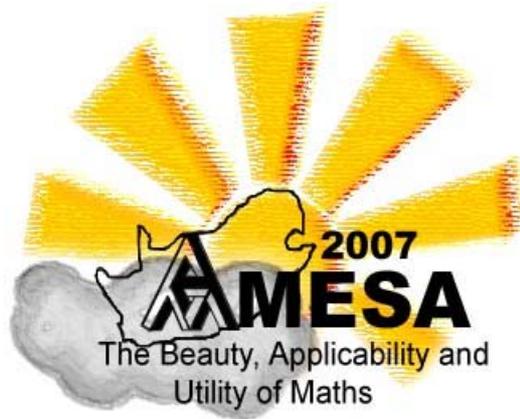


**The Association for Mathematics Education
of South Africa**

13th Annual National Congress



2 to 6 July 2007

Mpumalanga

FINAL ANNOUNCEMENT AND REGISTRATION



Uplands College

On the outskirts of White River close to Nelspruit

You are invited to the Thirteenth Annual National Congress of the Association for Mathematics Education of South Africa (AMESA). The theme of the congress is:

The Beauty, Utility and Applicability of Mathematics

VENUE: Uplands College, White River, Mpumalanga

DATE: 2 July to 6 July 2007

THE PROGRAMME will include:

1. **Pre-congress computer workshop** on Sunday, 1 July
This hands-on workshop is aimed at novice to intermediary computer users, focussing on the skills to use collaboration tools, Equation Editor and spreadsheets in the teaching of mathematics.
The workshop will run from 10:00 to 16:00. Lunch can be purchased at the venue. Booking is essential – see the registration form, page 9.
2. **Plenary addresses** by invited speakers
3. **Panel discussions**
 - Living in the world of numbers – being mathematically literate
 - Large-scale assessments in Mathematics Education
4. **Parallel sessions** presented by participants
These sessions are offered in the following strands: Foundation Phase, Intermediate Phase, Senior Phase, FET Phase, Tertiary and Adult Basic Education

The following presentation formats will be used:
 - Long papers (40 minutes plus 20 minutes discussion)
 - Short papers (20 minutes plus 10 minutes discussion)
 - “How I teach” papers (20 minutes plus 10 minutes discussion)
 - Workshops (1 or 2 hours)
5. **Activity centre:** Participants will participate in practical activities that provides opportunities for learners to gain knowledge that will enhance concept formation.
6. **Maths Market:** Publishers, entrepreneurs and NGO's will exhibit or present their products in thirty minute sessions to small groups. For more details contact:
WHO Makothanyane: Tel: 017 819 3302/3 Cell: 082 682 7031
Fax: 017 819 5268 E-mail: sandra@amesa.org.za
7. **AMESA Annual General Meeting**

OTHER FEATURES OF CONGRESS 2007:

- Excursions
- Daily social events
- Transport
- Photocopying
- Internet facilities
- Daily congress competitions
- Sweatshirts
- Conference bags
- Exhibits

MPUMALANGA PROVINCE

Mpumalanga, the place of the rising sun is one of South Africa's most panoramic provinces. It is steeped in tribal legends and decorated with astonishingly beautiful vistas of mountains, panoramic passes, valleys, rivers, waterfalls and forests. This province is also known for its Big Game and teems with wildlife and birds. The Kruger National Park is world renowned, and close to the conference venue for those who wish for tranquillity and serenity in the African bush.

UPLANDS COLLEGE

Uplands College is an Anglican Co-educational Independent High School located on a picturesque, 110 ha estate near White River in Mpumalanga Province. Here you will find state of the art computer laboratories with Internet access, comfortable classrooms and residential accommodation on campus.

CONTACT DETAILS

Address all communication to the Congress Secretariat:

AMESA Congress Secretariat
Uplands College
Private Bag X1106
White River
1240

Tel: +27 (0)13 751 3925
Fax: +27 (0)13 751 5057
E-mail: congress@amesa.org.za

CONGRESS WEBSITE

<http://www.amesa.org.za/amesa2007/>

LOCAL ORGANISING COMMITTEE

Congress Director: **Sandra van Niekerk**
Tel : +27 (0)13 741 2956
E-mail: sandra@amesa.org.za

Academic Coordinator: **Mamokgethi Setati**
Tel.: +27 (0)11 717 3407
E-mail: Mamokgethi.Setati@wits.ac.za

Committee Coordinators: Frank Mengwai, Hazel Banda, Richard Maziya, John Kirchoff, Annemarie Kalwe, Jethro Gininda, Mumsie Mokgatsane, Mcwa Makotanyane, Richard Maziya and Dolly Tshoma

DEADLINES

Submission of papers for reviewing: 30 March
Receive reviewed papers back: 9 May
Early registration: by 15 May
Late registration: after 15 June
Application for financial support: 1 June
Presenters' equipment arrangement: 1 June
Transport arrangements: 15 June

PLENARY SPEAKERS



Michael de Villiers has taught mathematics and mathematics education at the Universities of Stellenbosch, Durban-Westville and KwaZulu-Natal. He spent sabbaticals in the USA at Cornell University and Kennesaw State University. His main research interests are Geometry and Geometry Education, especially the development of understanding and appreciation of proof using dynamic geometry technology. Other interests include applications and modelling, and the history and philosophy of mathematics. He is vice-chair of the SA Mathematics Olympiad Committee, which sets and organises the SA Mathematics Olympiad. Michael is the editor of the KZN AMESA Mathematics Journal aimed at mathematics teachers and mathematics educators in KwaZulu-Natal.



Marcia Moremedi completed her Ph D in Computational & Applied Mathematics at the University of the Witwatersrand in 2001. She currently is a senior lecturer in the Department of Mathematical Sciences at the University of South Africa. She is actively involved in research on fluid mechanics, differential equations and partial differential equations and has collaborated work in peer reviewed journals. She has been involved in various educational activities, including tutoring engineering, architecture, quantity surveying and science students. She also taught for four years at Promat Colleges. Marcia lectured Applied Mathematics modules for two years to teachers registered with Unisa in a project to improve teachers' qualifications.



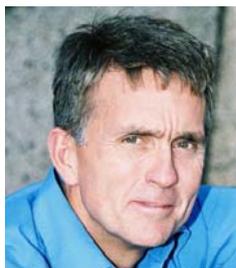
Cathy Seeley is a mathematics educator and change facilitator in K-12 education in the USA. Her diverse experience includes teaching mathematics at the middle and high school levels, working as a district mathematics coordinator, and as state mathematics supervisor in Texas. She served on the writing team for the 1989 NCTM (National Council of Teachers of Mathematics) *Curriculum and Evaluation Standards for School Mathematics*. From 1999 to 2001 she taught mathematics in Burkina Faso as a Peace Corps volunteer – see <http://csinburkinafaso.com/>. In 2006, she completed a two-year term as President of the NCTM. Cathy currently is a Senior Fellow with the Charles A. Dana Center at the University of Texas.



Godfrey Sethole studied at the Universities of North West, Cape Town, Stellenbosch and the Witwatersrand, where he completed his Ph D in 2005. Godfrey taught mathematics at high school level, and worked in curriculum development at RUMEUS (Research Unit for Mathematics Education at the University of Stellenbosch) and in MALATI (Mathematics Learning and Teaching Initiative) before being appointed at the then Technikon North West. He currently is Associate Professor and Head of the Department of Mathematics, Science and Technology at the Tshwane University of Technology. Godfrey has written 20 papers, both locally and internationally, and 9 mathematics textbooks.

PLENARY PANEL SPEAKERS include

Panel 1: Living in the world of numbers – being mathematically literate



Aarnout Brombacher is the former head of the mathematics department at Westerford High School and a Past President of AMESA. In 1996 he won a scholarship for a Masters degree in Mathematics Education at the University of Georgia in the USA. In his thesis he looked at the experience of teachers involved in curriculum change. As the chair of the AMESA Curriculum Committee he takes a special interest in curriculum development in the country. He served on the National Department of Education's Mathematics working group team that developed the Mathematics Subject Statement for the new Revised National Curriculum Statement. Over the last two years he devoted most of his energies to projects related to the implementation of Mathematical Literacy.



Hamsa Venkatakrishnan is currently working as a postdoctoral research fellow in the Marang Wits Centre at the University of the Witwatersrand, focusing on the implementation of Mathematical Literacy in schools. Prior to this, Hamsa was based in London for many years, working initially, as a high school mathematics teacher in London comprehensive schools, before moving into teacher education at the Institute of Education and research in mathematics education at King's College. She obtained her PhD at Kings College London and is the winner of the 2005 British Educational Research Association dissertation award for making the most significant contribution to research in education.



Alwyn Olivier is senior lecturer in Mathematics Education and director of the Research Unit for Mathematics Education at the University of Stellenbosch (RUMEUS), where he is involved with mathematics teacher education of pre-service and in-service teachers, with a special interest in mathematical literacy. He also worked in adult basic education and in the late nineties he was director of the influential MALATI (Mathematics Learning and Teaching) project. He is an NRF (National Research Foundation) rated scientist, currently working on an NRF project on the use of technology tools in mathematics teacher professional development. Alwyn is an honorary member of AMESA.

Panel 2: Large-scale assessments in Mathematics Education



Caroline Long is a researcher at the Centre for Evaluation and Assessment at the University of Pretoria. She previously worked at Wits University, where she taught courses in assessment to B. Sc. Honours students, and general mathematics courses to prospective teachers at undergraduate level. She is currently researching the topic *ratio and proportional reasoning* from different perspectives. On the theoretical side she examines how epistemological and historical factors inform the development of related subtopics within this field and from the empirical side she investigates how Grade 7s, 8s and 9s respond to selected items taken from the TIMSS 2003 study. Caroline has presented regularly at AMESA conferences and published in Pythagoras.



Anil Kanjee is the executive director of the National Education Quality Initiative at the HSRC (Human Sciences Research Council). He obtained his PhD in research and evaluation methods from the University of Massachusetts. His career included lecturing in psychology at the Universities of the Western Cape, Massachusetts, Witwatersrand and Pretoria. He has extensive experience in the technical and practical aspects of assessment. Specific research interests include the development of monitoring and evaluation systems in the education sector, and the use of information from national and international assessments to improve the teaching and learning process.



Michael Kahn is the executive director of the Knowledge Systems unit at the HSRC. He has worked internationally as academic, independent consultant, and adviser to government and higher education. His fields of interest span science and technology and information policy, science education, and the promotion of public communication in these fields. He holds postgraduate degrees in physics, and policy and planning. From 1999 to 2002 he occupied the Chair of Science, Mathematics and Technology Education at the University of Cape Town, and in parallel was adviser to the Minister of Education, in which role he led the development of national strategies for both science and mathematics education.

PROVISIONAL PROGRAMME

Sunday 1 July

- 10:00 – 16:00 Pre-congress computer workshop at Uplands College
14:00 – 20:00 Registration at Uplands College
14:00 Hostels at Uplands College and Rob Ferreira open

Monday 2 July

- 08:00 – 10:00 Registration at Uplands College
10:00 Opening ceremony
17:30 Congress day ends
18:30 Gala dinner and welcome by the Mayor

Tuesday 3 July

- 08:00 Congress day starts
17:30 Congress day ends
18:30 Happy Hour

Wednesday 4 July

- 08:30 Congress day starts
13:00 Excursions*
19:00 Drums: Entertainment at the local Barnyard

Thursday 5 July

- 08:30 Congress day starts
19:00 Cultural dinner and dance

Friday 6 July

- 08:30 Congress day starts
12:15 Closing ceremony
13:00 Congress ends. Lunch will be served.

* Wednesday afternoon, 4 July: Excursions

Choose one out of the following four excursions:

1. A visit to the [Kruger Park](#)
*It is **possible** to see all the classical African big game, including elephant, black and white rhino, hippopotamus, giraffe, zebra, buffalo, warthog and many antelope species. You might even spot a lion, cheetah or a leopard.*
2. A visit to the [Lowveld Botanical Gardens](#)
This garden has an enormous collection of cycads and an African rainforest.
3. A visit to the [Sudwala Caves](#)
Sudwala caves are the oldest dolomite caves in the world.
4. A visit to [Pilgrimsrest](#)
Pilgrimsrest is a quaint town which is a living museum dating back to the hey days of the gold rush.

REGISTRATION

Participants will be registered for the AMESA Congress 2007 on receipt of a completed registration form and payment of all costs associated with the Congress. Registration fees include admission to all sessions, a copy of the various volumes of Proceedings of the Congress, a copy of the Congress programme, the Congress bag, morning and afternoon teas as well as lunch from Monday to Friday.

To qualify for the reduced early registration fee your completed registration form must reach the Congress Secretary by 15 May 2007. Preferential rates for AMESA members apply to current *paid up* members (individual or institutional) who are able to produce proof of membership. **Non-members must pay the membership fee for 2007.**

CAMPUS ACCOMMODATION

Congress accommodation will be available:

- In the three hostels on the Uplands College campus, the congress venue. The cost is R700 per person sharing for 5 nights, i.e. from Sunday night 1 July to Friday 6 July lunch time. This includes dinner, bed and breakfast.
- In two hostels on the campus of Rob Ferreira High School. The cost is R700 per person sharing or R950 for a single room for 5 nights, i.e. is from Sunday night 1 July to Friday 6 July lunch time. This includes dinner, bed and breakfast, as well as transport to and from the congress venue.
- If you would like to book for a shorter time the rate is R225 per person per night, dinner, bed and breakfast included.

Note:

- Bookings will be made on a first-come first-served basis.
- We cannot guarantee that accommodation will be available if you register after 15 June.
- You have to bring your own bedding. No bedding and no towels are provided. Mattresses are covered with a fitted sheet.
- Rooms will be cleaned on a daily basis. However you have to make your own beds.
- There is a communal TV lounge with coffee-making facilities.
- No smoking and no alcohol is allowed in the rooms.

ALTERNATE ACCOMMODATION

We provide details of alternate accommodation near to the venue. Please *make your own arrangements – mention the AMESA congress to qualify for AMESA rates.*

Lodge/hotel	Rating - price	# Rooms	Distance	Contact details
LINGA LONGA GUEST HOUSE	**** B & B Single: R410 Double: R300 pp	10 rooms 20 people	2,5 km	Tel: 013 751 1942 E-mail: info@lingalongabb.co.za www.lingalongabb.co.za
WHITE RIVER LODGE	*** B & B Single: R280 Double: R490 per room	52 rooms	3 km	Tel: 013 751 1100 E-mail: res@whiteriverlodge.co.za www.whiteriverlodge.co.za
GREENWAY WOODS RESORT	**** B & B Single: R480 Double: R310 pp	15 chalets 35 rooms	10 km	Tel: 013 751 1094 E-mail: hotel@greenway.co.za www.greenway.co.za
INGWENYAMA RESORT	*** Accommodation only Single: R280 Double: R205 pp	42 rooms	15 km	Tel: 013 751 3493 E-mail: ingwenya@mweb.co.za www.ingwenyama.co.za
BALCONY MANOR	**** B & B R300 pp	11 rooms	3 km	Tel: 013 751 2024 E-mail: reservations@balcony.co.za www.balcony.co.za
PINELAKE INN	*** B & B Single: R580 Double: R850	112 rooms	10 km	Tel: 013 751 5036 E-mail: pinelake@africanskyhotels.com www.africanskyhotels.com
HUEGELINS	**** B & B Single: R300 Double: R600/cottage	5 cottages	6 km	Tel: 013 751 1319 E-mail: admin@heuglins.co.za www.heuglins.co.za/

MEALS

For those staying in the hostels, breakfast and dinner are included in the accommodation costs. Participants not staying in the hostels must arrange their own breakfast and dinner. Lunches from Monday to Friday are included in the registration fee for everybody.

CANCELLATION

Once your registration form has been processed a cancellation fee of 20% of all costs will be charged for cancellations up to **15 June 2007**. Thereafter no refunds will be made for cancellation of complete or partial costs.

TRANSPORT

All delegates arriving by bus, train or plane will be transported to the venue by the organising committee. *To use this transport you must supply your details to Marina Alford by 15 June 2007.*

Email: malford@uplandscollege.org Fax: + 27 (0)13 751 3850

FUNDING

A certain amount of funding is available to assist those participants who would otherwise be unable to attend the Congress. The application form is in this booklet and also available on the website. *Applications must be submitted by 1 June 2007.*

EQUIPMENT FOR PRESENTERS

Data projectors, overhead projectors, computer laboratories and other forms of equipment needed by presenters need to be booked with the Campus Manager, Albert Pienaar. All presenters must please *ensure that their requests are with the Campus Manager by 1 June 2007.*

Email: apienaar@uplandscollege.org Fax: + 27 (0)13 751 3850

WHITE RIVER WEATHER IN JUNE

Please remember that it will be winter in White River in July. The average day temperatures are mild. For those who feel the cold, an extra blanket and layered clothing would be advisable as it is quite chilly in the mornings and late afternoons. *No central heating is available in the hostels.*

SOME USEFUL INFORMATION

Doctors

In case of an emergency the following doctors can be contacted at Macadamia clinic:

Dr Absalom 013 751 1801

Dr Erasmus 013 751 3881

Dr Reinecke 013 751 2987

Pharmacists

Danie Malan Pharmacy in White River in the Pick and Pay Centre.

Tel: 013 751 2267

Cell: 083 3151057

HOW TO GET THERE

By train

A train leaves from Johannesburg Station daily at 18:10 and arrives in Nelspruit at 04:00. More information is available at the following website:

<http://www.spoornet.co.za/ShosholozaMeyl/index.jsp?link=timetable&routeid=23>

By plane

There are direct flights from Cape Town, Durban and Johannesburg to the Kruger Mpumalanga International Airport, Nelspruit. See these websites:

<http://www.kmiairport.co.za>

<http://www.sairlink.co.za/>

<http://www.flynationwide.co.za>

By bus

Greyhound, Translux and Intercape offer daily trips from Johannesburg to Nelspruit.

More information regarding these services is available on the following websites:

<http://www.greyhound.co.za>

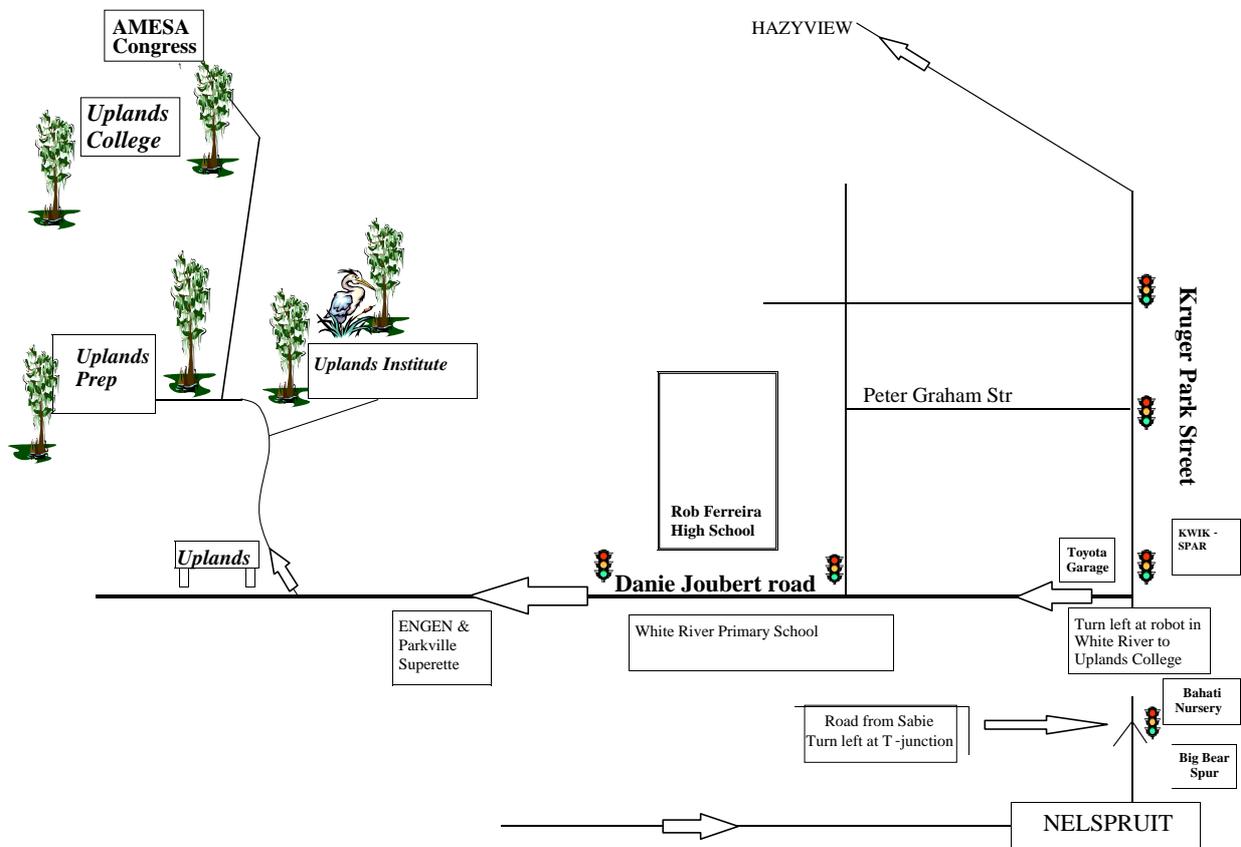
<http://www.intercape.co.za>

<http://www.translux.co.za>

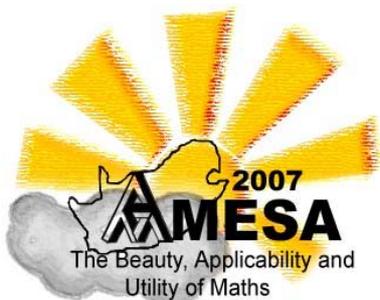
By car

Follow the route from your departure point to Nelspruit. Nelspruit is about 360 km from Johannesburg. From Nelspruit to White River and Uplands College you can follow the directions using this map:

MAP TO UPLANDS COLLEGE



Witbank —Nelspruit N4 . At the first main crossroad (robot intersection) in Nelspruit, there is a sign to White River – turn left onto the R40, keep going straight for about 20 km.



REGISTRATION FORM

AMESA CONGRESS 2007

Please complete in full and in capital letters and return to the Congress Secretary.
 You can download an electronic registration form at <http://www.amesa.org.za/amesa2007/>

SECTION A: PERSONAL DETAILS

Surname:	First name:	Title:	
Postal address:			
Code:			
Institution:			
Telephone (home): ()	Telephone (work): ()	Fax: ()	Cell:
E-mail:			

PRE-CONFERENCE WORKSHOP

To book a place for the pre-congress computer workshop on 1 July, tick on YES: YES

SECTION B: REGISTRATION FEE

If you are a **paid-up AMESA member**, you do *not* have to add the membership fee below.

In that case, please provide your AMESA membership number: _____

If you are **not a current AMESA member**, you must add the following membership fee for 2007:
 For South Africans: R100; Other African countries: ZAR120; Non-African countries: USD55
 Please complete and include the AMESA membership application form (Section I).

	Tick	Amount (R)
Early registration: R550 + membership fee (by 15 May)		
Normal registration: R600 + membership fee (16 May to 15 June)		
Late registration: R750 + membership fee (after 15 June)		

OR

	Mo	Tu	We	Th	Fr	Amount (R)
Day visitor (please tick appropriate days) @ R225 per day						

Note: Congress materials will be available for day visitors at an additional cost of R250.

SECTION C: HOSTEL ACCOMMODATION

The bookings below are for hostel accommodation only – refer to page 6.
For all other accommodations you have to make your own booking – refer to pages 6.

Tick your choice of hostel accommodation:	Tick	Amount (R)
Uplands Campus @ R700 per person <i>sharing</i>		
Rob Ferreira Campus @ R700 per person <i>sharing</i>		
Rob Ferreira Campus @ R950 per person <i>single</i>		

Note: If you wish to *share*, please provide the name of your *preferred roommate*:

OR

Complete here if you are staying for fewer than 5 nights:	Tick	Amount (R)
Uplands Campus @ R225 per person per night ___ nights, from ___ July to ___ July		
Rob Ferreira Campus @ R225 per person per night ___ nights, from ___ July to ___ July		

SECTION D: MEALS

Breakfast and dinner are included in the hostel accommodation fee. Participants not staying in the hostels must make their own arrangements for breakfast and dinner.

All lunches from Monday to Friday are included in the registration fee.

Dietary requirements: (please tick or specify)	Halaal	Kosher	Vegetarian	Other: Please specify:
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SECTION E: EXCURSIONS AND FUNCTIONS

	Tick	Amount (R)
Wednesday 4 July: Drums: entertainment at the Barnyard @ R50 per person		
Thursday 5 July: Cultural Dinner and Dance @ R80 per person		
Wednesday 4 July: Excursions (tick not more than one)		
A visit to the Kruger Park @ R50 per person		
A visit to The Botanical Gardens @ R30 per person		
A visit to the Sudwala Caves @ R75 per person		
A visit to Pilgrimsrest @ R50 per person		
Sub-total for excursions and functions:		

SECTION F: SPECIAL NEEDS

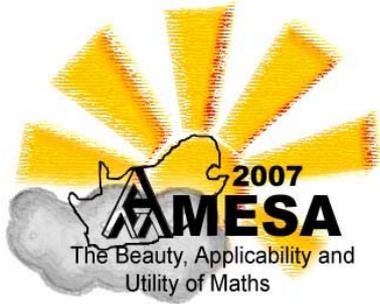
Special needs requirements (wheelchair entrance, etc.):

SECTION I: AMESA MEMBERSHIP APPLICATION FORM

*If you are not a current paid-up AMESA member, you need to complete this section.
You should add the relevant membership fee to the registration fee in Section B.*

Please complete in full and in capital letters

1. **Membership No** (if renewal): _____
2. **Region:** _____ **Branch:** _____ (if known)
3. **Membership type:** Individual Institutional Associate (e.g. full-time student)
4. **Field of Interest:** Primary Secondary Tertiary
5. **For Individual and Associate members only:**
Surname: _____ **First Name:** _____ **Title:** _____
Postal address: _____ **Postal Code:** _____
Tel. no: (____) _____ **Fax:** (____) _____ **E-mail:** _____
6. **For Institutional members only:**
Designation of person to whom correspondence should be addressed
(e.g. The HOD Mathematics / Librarian): _____
Name of Institution: _____
Postal address: _____ **Postal Code:** _____
Tel. no: (____) _____ **Fax:** (____) _____ **E-mail:** _____
7. **For student members only:** I hereby declare that I am a full-time, pre-service student at the following institution: _____ Signature: _____
Please include proof of registration at tertiary institution with your application.
8. **Membership subscription fee:**
Mark one, and then include the amount in your registration fee (section B)
 South Africa, Individual: R100
 South Africa, Institutional: R280
 South Africa, Associate: R25
 Other African countries, individual: ZAR120
 Non-African countries, individual: USD55



AMESA Congress Secretariat
Uplands College
Private Bag X1106
1240 White River

Tel: +27 (0)13 751 3925
Fax: +27 (0)13 751 5057
E-mail: congress@amesa.org.za

Application for financial support AMESA Congress 2007

Note: Closing date is 1 June 2007

I would like to apply for financial support to attend AMESA Congress 2007.

Surname:

First names:

Postal address & code:

.....
.....

Institution:

Area of interest (Primary/Secondary/Tertiary):

Tel: (home) (work)

E-mail:

I am an AMESA member: YES/NO Membership number:

I am able to contribute R of the projected R costs for my attendance.

I undertake to write an article/report on Congress 2007 which may be published in AMESA News.

I declare that I also receive or applied for financial assistance from the following sources:

.....

Signature: Date:

Note: Preference for funding will be given to paid-up AMESA members who will be participating in the congress programme.