

The Association for Mathematics Education of South Africa

14th Annual National Congress



Mathematics: A Universal Language

30 June to 4 July 2008

Eastern Cape



North Campus, Port Elizabeth

FINAL ANNOUNCEMENT AND REGISTRATION

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

Mathematics: A Universal Language

Venue: Nelson Mandela Metropolitan University, North Campus, Port Elizabeth, Eastern Cape

Date: 30 June to 4 July 2008

THE PROGRAMME will include:

1. **Pre-conference computer workshop** on Sunday 29 June

This hands-on workshop will be aimed at novice and intermediate computer users, focussing on the skills to use collaboration tools, maths type, sketch-pad 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 on page 9.

2. **Plenary addresses** by invited speakers.

3. **Panel discussions**

- The implementation of the new mathematics curriculum in South Africa: input from various stakeholders.
- Promoting quality mathematics teaching.

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 undertake practical activities that provide opportunities for learners to gain knowledge that will enhance concept formation.

6. **Maths Market:** Publishers, entrepreneurs and NGOs will exhibit or present their products in thirty minute sessions to small groups. For more details contact:

Vince Oliphant: Tel: 041 586 1082 Cell: 083 258 3971
Fax: 041 504 2881 Email: vincentoliphant@hotmail.com

7. **AMESA Annual General Meeting**

OTHER FEATURES OF CONGRESS 2008:

- Excursions
- Daily social events
- Transport
- Photocopying
- Internet facilities
- Daily congress competitions
- Golf shirts
- Conference bags
- Congress jackets (on special request – see order form in Section J)

Eastern Cape Province

The Eastern Cape, lying on the southeastern South African coast, is a region of great natural beauty, particularly the rugged cliffs, rough seas and dense green bush of the stretch known as the Wild Coast. The Province's diverse climate and landscapes range from the dry and desolate Great Karoo to the lush forests of the Wild Coast and the Keiskamma Valley, the fertile Langkloof (renowned for its rich apple harvests) and the mountainous southern Drakensberg region around the town of Elliot. The Eastern Cape's main feature is its spectacular coastline, lapped by the temperate Indian Ocean. With long stretches of unspoilt beaches, rocky coves, secluded lagoons and towering cliffs, it is the Province's main tourist attraction.

At 168 966 square kilometres, the Eastern Cape is roughly the size of Uruguay. It is South Africa's second-largest province after the Northern Cape. Taking up 13,9% of land area and with a mid-2006 population of 6,9 million people. The majority of the people speak isiXhosa, followed by Afrikaans and English.

Congress 2008 will take place in the beautiful city of Port Elizabeth, the largest city in the Eastern Cape. Port Elizabeth is part of Nelson Mandela Bay which incorporates the neighbouring towns of Uitenhage and Despatch.

Nelson Mandela Metropolitan University (NMMU)

NMMU is the largest educational institution in the Eastern and Southern Cape, with some 20 000 students enrolled at seven different campuses or delivery sites – five located in the Nelson Mandela Metropole, and two in the beautiful city of George. The multi-campus structure enables NMMU to be closely involved with, and geographically closer to, the communities it serves.

The main campus of NMMU is situated in Summerstrand, Port Elizabeth. The facilities are spread across seven campuses, and in some cases programmes are duplicated on more than one campus.

Congress 2008 will take place in the North Campus of the NMMU, which is adjacent to the main campus.

Contact details

Address all communication to the Congress Secretariat:

AMESA Congress Secretariat
Govan Mbeki Sasol Mathematics Development Programme
Mathematics Department
PO Box 77000
Port Elizabeth
6031

Tel: +27 (0)41 504 2548
Fax: +27 (0)41 504 2881
Email: congress@amesa.org.za

Congress website

<http://www.amesa.org.za/AMESA2008/>

Plenary speakers



Douglas Butler. After graduating in Mathematics and Electrical Sciences at Cambridge University and a spell with EMI Records, Douglas specialised in secondary mathematics. He served as Head of Mathematics at Oundle School (Peterborough, UK) and was Chairman of the MEI Schools project, a leading UK curriculum development project, for six years. A keen pianist and dinghy sailor, he is also author of "Using the Internet - Mathematics" (revised July 2005) and a lead author of Autograph (version 3.2, May 2007), and a major contributor to the ICMI technology study in Hanoi (December 2006). He maintains a large web site of educational resources in many subject areas. In 2000 he founded the innovative ICT Training Centre, based at Oundle School, which is now creating new resources for the educational use of computers in mathematics, and running

the TSM (Technology in Secondary/College Mathematics) teacher training events all over the UK and overseas. Douglas's plenary address will be on our theme for AMESA 2008, "*Mathematics: A Universal Language*". Douglas will also be participating in the panel discussion on "*Promoting Quality Mathematics Teaching*". Welcome to AMESA Congress 2008, Douglas!

Prof Mamokgethi Setati is a full Professor of Mathematics Education and Executive Dean of the College of Science, Engineering and Technology at the University of South Africa. She holds a PhD in Mathematics Education from the University of the Witwatersrand. She is a member of the Academy of Science of South Africa (ASSAf), a C1-NRF rated researcher and a much respected mathematics education researcher, both nationally and internationally. Before joining UNISA she was an Associate Professor and Director of the Marang Centre for Maths and Science Education at Wits University. In addition to this she is also professor extraordinaire at the Tshwane University of Technology. Her research focuses mainly on teaching and learning mathematics in multilingual classrooms. She has over 30 reviewed articles published in local and international journals, conference proceedings and book chapters. She has won several awards for her research and community work including the NSTF award for the most outstanding South African young female researcher for 2003. Kgethi, as she is affectionately known, is the immediate past president of AMESA. She led AMESA with distinction from 2002 to 2006 and among her many initiatives she organised accreditation of *Pythagoras*, the research journal of AMESA, and introduced *Learning and Teaching Mathematics*, AMESA's professional journal. It is great to have a person of Kgethi's calibre at AMESA Congress 2008.



Professor Maritz Snyders is currently the Director: Centre for Extended Studies, Nelson Mandela Metropolitan University. He has had a long and distinguished career where he has been involved in mathematics as a high school teacher, college lecturer and as a university academic. He served as executive member of MASA (Eastern Cape) and was an executive member of AMESA (Port Elizabeth), where he served as Vice Chairperson in 1995-1996. He has also been a member of the council of the South African Mathematical Society (SAMS) where he served in the Education portfolio. He has presented papers at various conferences, both on school level mathematics and recently on academic development and access to higher education. He is currently involved in projects related to the implementation of the FET NCS at schools. Welcome to AMESA Congress 2008, Maritz!

Latiefa Bruce. Latiefa is a mathematics teacher at Sancto High School. She has been teaching for 19 years and has taught grade 8 -12. She also serves as a guidance counsellor and events organiser at her school. Besides her formal teaching qualifications, Latiefa has completed a number of short courses (computers, mind power, counselling domestic violence victims). She, is thus, very qualified to assist students, colleagues and community members with both academic and social issues. She is involved in various student support programmes and has done motivational workshops at various schools and companies. She is indeed an all-rounder and a model to all mathematics teachers in our country. Latiefa's plenary is entitled "*Motivational mathematics: motivating mathematics teachers and learners in our schools*". Welcome to AMESA Congress 2008, Latiefa!



Plenary panel discussions will be held on the following topics:

Panel 1: The implementation of the new mathematics curriculum in South Africa: various perspectives

Panellists confirmed for panel 1:

Vincent Oliphant (Department of Education, Port Elizabeth District)
Marc North (St Anne's College, Hilton)
Dumakazi Myemane (Samuel Ntlebi Primary School, Grahamstown)

Panel 2: Promoting quality mathematics teaching

Panellists confirmed for panel 2:

Douglas Butler (ICT Training Centre, Oundle School, UK)
Nomonde Dabula (Department of Education, Eastern Cape Province)
Vishnu Naidoo (Buffelsdale Secondary School, Tongaat)

Provisional programme

Sunday 29 June

10:00 – 16:00 Pre-congress computer workshop at NMMU (South Campus)
14:00 – 20:00 Registration at NMMU (North Campus)
14:00 Veritas (Hostel) at NMMU (South Campus) open

Monday 30 June

08:00 – 10:00 Registration at NMMU (North Campus)
10:00 Opening ceremony
17:30 Congress day ends
18:30 Gala dinner and welcome by the Mayor

Tuesday 1 July

08:00 Congress day starts
17:30 Congress day ends
18:30 Cultural evening

Wednesday 2 July

08:30 Congress day starts
13:00 Excursions (see page 5)
19:00 Evening off/own sightseeing

Thursday 3 July

08:30 Congress day starts
17:30 Congress day ends
19:00 Congress Dinner & Dance

Friday 4 July

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

Local Organising Committee

Congress Director: **VG Govender (Nico)**
Tel: +27 (0)41 504 1393
Email: nico@amesa.org.za

Academic Coordinator: **Hennie Boshoff**
Tel: +27 (0)41 504 2637
Email: hennie@amesa.org.za

Committee Coordinators: Mzwakhe Sokutu; Vincent Oliphant; Cosmo Baartman; Dave Harper; Latiefa Bruce; David van Rooyen; Martin Dyani; Josef Venter; Werner Olivier; Zanele Mofu; Lulama Yoyo.

Deadlines

Offer to present paper(s):	15 February 2008
Submission of papers for reviewing:	28 March 2008
Receive reviewed papers back:	28 April 2008
Early registration:	16 May 2008
Application for financial support:	1 May 2008
Late registration:	15 June 2008 onwards

Excursions

Wednesday 2 July, afternoon

Choose one out of the following two excursions:

1. A visit to the Bayworld Museum and Hobie Beach

Since you are at the coast, why not visit the Bayworld Museum and then see various sea creatures, followed by a trip to our famous Hobie Beach.

2. A visit to the Red Location Museum

Visit the latest addition to the museums in South Africa. This museum is located near the historical New Brighton township and covers South Africa's struggle of the past. Have a look at historical pictures, exhibits and writings of our struggle heroes.

Registration

Participants will be registered for the AMESA Congress 2008 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 16 May 2008. 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 2008.**

Campus accommodation (hostel)

Congress accommodation will be available at the NMMU (South Campus) Veritas Hostel which accommodates a maximum of 300 people.

- The cost is R205 per night. Thus, for 5 nights the cost is R1025. This includes dinner, bed and breakfast.
- 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.
- Bedding is included. It consists of 1 x sheet; 2 blankets or 1 duvet (depending on what is available); 1 pillow and pillow case per bed. Guests are advised to bring their own extra bedding in case of bad weather.
- Rooms will be cleaned on a daily basis. However you have to make your own beds.
- There is a communal TV lounge.
- No smoking and no alcohol is allowed in the rooms.

Alternative accommodation

We provide details of alternative accommodation near to the venue. Please **make your own arrangements**.

Name of establishment	Category: Hotel/B&B	No of rooms	Rates per day (including breakfast)		Distance from North Campus	Phone (code: 041)	Fax (code: 041)	Email/website
			Single	Double				
Admirals's Lodge	B&B	6	R430	R580	800m	583 1894	583 1894	www.admiralslodge.co.za
Al Beit Lodge	B&B	6	R450	R550	800m	583 6415	583 6415	www.al-beitlodge.co.za
Lange's Guest House	B&B	8	R425	R580	1.5km	583 3511	583 3511	www.langehouse.co.za
Ballina-Gael	B&B	5	R300	R400	1.5km	Cell 0825769429		www.ballinagael.co.za
Kaliza's Place	B&B/self cat.	6	R400	R500	1km	583 1403		kalizasplace@absamail.co.za
Avocet Guest House	B&B	5	R425	R550	700m	533586	0880415836106	marilyn@avocetguesthouse.com
Tha Palace Guest House	B&B	6	R400	R500	1.5km	583 3170	583 5245	www.thepalace.co.za
Kieskama	B&B	5	R300	R400	1.5km	583 5301	484 6441	www.keiskamabnb.co.za
80 on Brighton	B&B	6	R450	R550	1.7km	583 4438	583 4438	www.brighton80.co.za
Endless Summer G/H	B&B	5	R300	R400	2.5km	583 3052	583 4771	colleen@endlesssummergh.co.za
Palm Beach G/H	B&B	6	R400	R500	1.8km	583 2493	583 6847	www.palmbeachguesthouse.net
Wilmot Cottages	B&B	6	R450	R550	2km	583 1770	583 1770	www.wilmotcottages.co.za
Kasama Logde	B&B	5	R400	R500	2km	582 4579		www.kasamalodge.co.za
Blu-be Guest Suits	B&B	6	R350	R450	2.5km	583 7700	583 2336	www.blu-be.com
Beach****	Hotel	58	R460	R550	3 km	5832161	5836220	gmbeach@pehotels.co.za
Paxton****	Hotel	79	R457	R598	3 km	5859655	5859640	paxtonmg@iafrica.co.za
Protea****	Hotel	73	R710	R890	2.5 km	5832101	5832076	gmprotea@pehotels.co.za
Garden Court***	Hotel	283	R569	R799	3.2 km	5823720	5855754	danies@southernsun.com
Summerstrand Inn***	Hotel	237	R500	R630	1.2 km	5833131	5058210	info@hotsummer.co.za
Humewood***	Hotel	66	R325	R430	2.3 km	5858961	5851740	gm@humewoodhotel.co.za
Kelway****	Hotel	62	R850	R950	3 km	5840638	5840637	reservations@thekelway.co.za
City Lodge	Hotel	148	R475	R600	3 km	5863322	5863374	clpegm@citylodge.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 2008**. Thereafter no refunds of complete or partial costs will be made for cancellation.

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 Josef Venter (Attie) by 15 June 2008.*

Email: venterja@telkomsa.net Tel: +27 (0)41 403 4516
Fax: +27 (0)41 403 4503

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 May 2008.*

Equipment for presenters

Data projectors, overhead projectors, computer laboratories and other forms of equipment needed by presenters need to be booked with our AMESA LOC member, Dave Harper. All presenters must please *ensure that their requests are with him by 1 June 2008.*

Email: dave.harper@nmmu.ac.za Fax: + 27 (0)41 504 2583

Port Elizabeth weather in June/July

Please remember that it will be winter in June/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

Health Clinic

The university has a Health Clinic which is operational during office hours. Contact Sister Antoinette Goosen at 041 504 2174.

Doctors

In case of an emergency the following doctors can be contacted at Bay Medical Centre, 9th Avenue, Summerstrand:

Dr Andre Loots/Dr Andre Killian 041 583 2121
Dr Fritz Claasen (dentist) 041 583 1122
After hours, contact PE GP at 041 365 3004.

Pharmacists

The nearest pharmacy to the North Campus is Beach Pharmacy in 8th Avenue, Summerstrand. Tel: 041 583 4000.

How to get there

By plane

There are direct flights from Cape Town, Durban and Johannesburg to Port Elizabeth airport. Check <http://ww3.flysaa.com/>

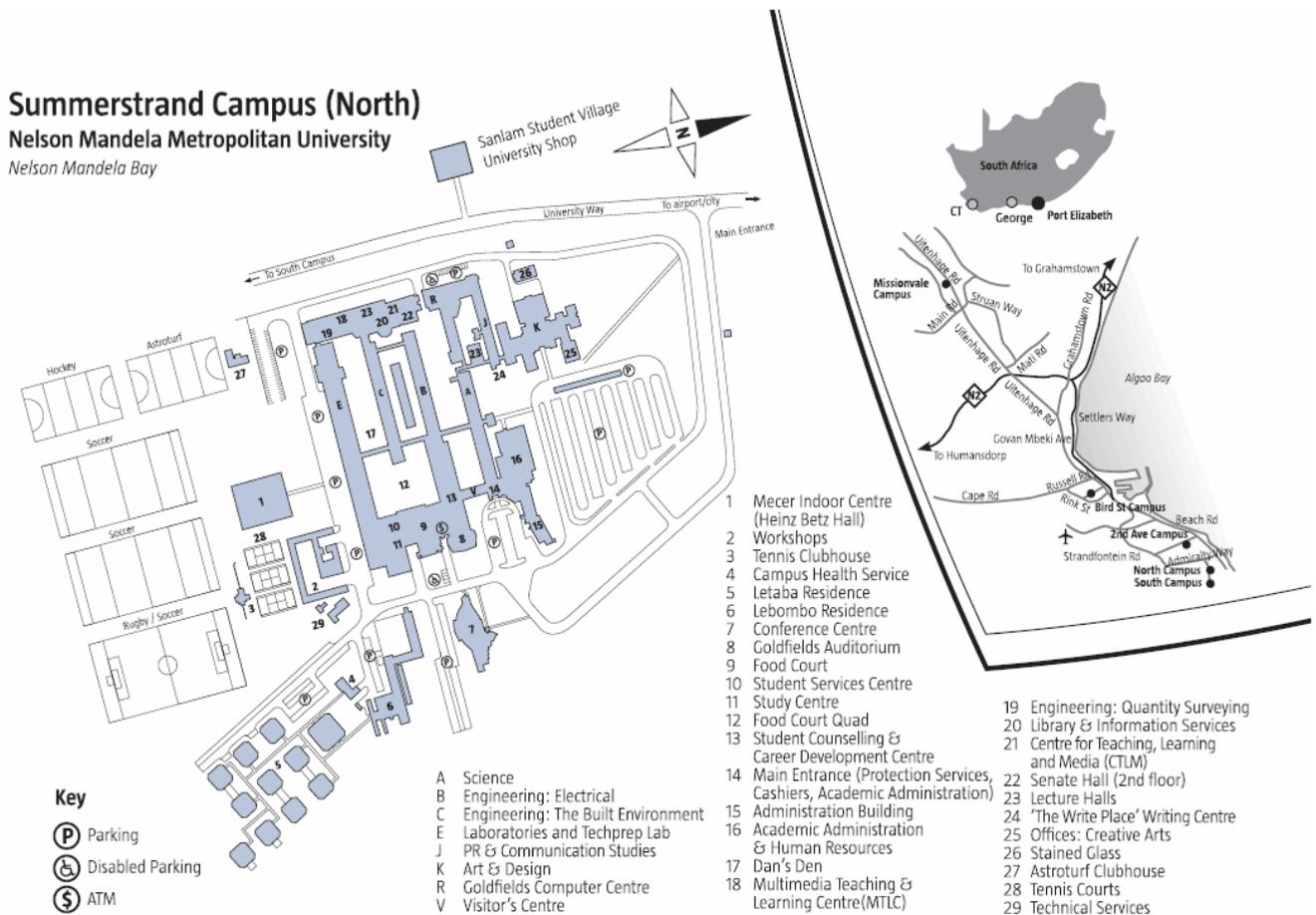
By bus

Greyhound, Translux, Intercap and Roadlink offer daily trips from to Port Elizabeth from most centres in South Africa. More information regarding these services is available on the following websites:

- www.greyhound.co.za
- www.intercape.co.za
- www.translux.co.za
- www.roadlink.co.za

By car

Port Elizabeth is about 1100 km from Johannesburg, 800 km from Cape Town and 920 km from Durban. Access roads to Port Elizabeth are fairly good. The NMMU (North Campus) is located in the southern part of Port Elizabeth.



REGISTRATION FORM

AMESA CONGRESS 2008

Please complete in full and in capital letters and return to the Congress Secretary.
 Note: You can download an electronic registration form at <http://www.amesa.org.za/amesa2008/>

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 29 June, tick on YES: YES

CONGRESS GOLF SHIRT

Would you like to buy a congress golf shirt for approximately R75: (you **only pay** at congress) YES

Please indicate your size: **S M L XL XXL XXXL** : **Your size**

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 2008:
 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: R580 + membership fee (by 15 May)	<input type="checkbox"/>	
Normal registration: R630 + membership fee (16 May to 15 June)	<input type="checkbox"/>	
Late registration: R780 + membership fee (after 15 June)	<input type="checkbox"/>	

OR

	Mo	Tu	We	Th	Fr	Amount (R)
Day visitor (please tick appropriate days) @ R300 per day	<input type="checkbox"/>					

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 page 6.

Tick your choice of hostel accommodation:	Tick	Amount (R)
NMMU (South Campus) Veritas Hostel R1025 per person <i>sharing</i>		

Note: Please provide the name of your *preferred roommate*:

OR

Complete here if you are staying for fewer than 5 nights: (subject to availability) (at R225 per night)	Tick	Amount (R)
Veritas Hostel (South Campus) ___ nights, from ___ June/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)
Monday: 30 June 2008 Mayor's Reception (only first 300 delegates)		NIL
Tuesday 1 July: Cultural evening		NIL
Thursday 3 July: Congress dinner and dance @ R80 per person		
Wednesday 2 July: Excursions (tick not more than one)		
A visit to the Bayworld Museum and Hobie Beach @ R70 per person		
A visit to the Red Location museum @ R70 per person		
Sub-total for excursions and functions:		

SECTION F: SPECIAL NEEDS

Special needs requirements (wheelchair entrance, etc.):

SECTION G: TOTAL PAYMENT

Please carry over the costs here to calculate the total cost:

	Amount (R)
Registration fee (Section B)	
Campus accommodation (Section C)	
Excursions and functions (Section E)	
Congress Jacket (Section J) Tick off in Block	
PADDED R370 <input type="checkbox"/> Please post/fax page 13 section J as well - before 15 May 2008	
UNPADDED R250 <input type="checkbox"/>	
Grand total:	

SECTION H: METHOD OF PAYMENT

Note: Your registration is not complete until we receive your **full** payment.

Please tick the appropriate box:

DIRECT DEPOSIT

Bank: ABSA BANK
 Account type: Cheque
 Account Name: AMESA 2008
 Account No: 4069655242
 Branch: NEWTON PARK

Clearly *enter your name* in the reference section in the bottom right hand corner.
 Proof of payment must accompany this registration form, **or fax it to 041 504 2881**.
The onus is on you to ensure that we receive the relevant information.

BY CHEQUE OR POSTAL ORDER MADE OUT TO AMESA 2008

We regret that no credit card payments are possible.

Please return the completed registration form with (proof of) payment:

by post to: Linda Heymans
 AMESA CONGRESS 2008
 Department of Mathematics and Applied Mathematics
 Nelson Mandela Metropolitan University
 Port Elizabeth
 77000

or by fax to: 041 504 2881 only if you are not paying by cheque.

SECTION J: PURCHASE OF CONGRESS JACKET (OPTIONAL)
AMESA Congress 2008

This section is to be completed only by those delegates who want to purchase a congress jacket.



Mathematics: A Universal Language

AMESA Congress Secretariat
 Govan Mbeki Sasol Mathematics
 Development Programme
 Mathematics Department
 PO Box 77000
 Port Elizabeth
 6031

Tel: +27 (0)41 504 2548
 Fax +27 (0)41 504 2881
 Email: congress@amesa.org.za

Two types of jackets are available:

- i. Padded jackets at R370 each
- ii. Unpadded jackets at R250 each

Note: This request will only be processed if **payment is made before 15 May 2008.**

I would like to purchase the 2008 AMESA Congress jacket.

Surname:

First names:

Postal address & code:

.....

.....

Institution:

Tel: (home) (work)

Email:

TYPE OF JACKET REQUESTED

Mark one, and then include the amount in your total payment (section G)

- PADDED R370
- UNPADDED R250

Please indicate your size: **S M L XL XXL XXXL** : Your size

Signature: Date:

NB: Fax this page with your payment to 041 504 2881 (before 15 May 2008) or post with your registration to reach the office before 15 May 2008.



Mathematics: A Universal Language

AMESA Congress Secretariat
Govan Mbeki Sasol Mathematics
Development Programme
Mathematics Department
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6031

Tel: +27 (0)41-504 2548
Fax +27 (0)41-504 2881
E-mail: congress@amesa.org.za

Application for financial support AMESA Congress 2008

Note: Closing date is 1 May 2008

I would like to apply for financial support to attend AMESA Congress 2008.

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 2008 which may be published in AMESA News.

I declare that I also receive or applied for financial assistance from the following sources:
(state amount):

.....

Signature: Date:

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