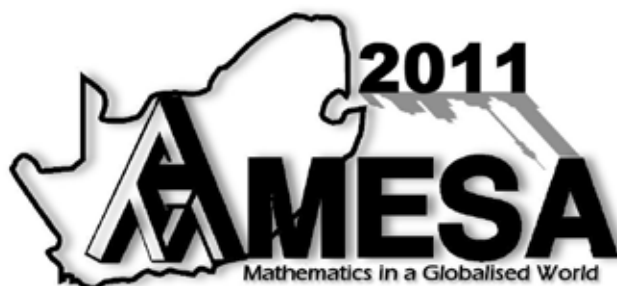


The Association for Mathematics Education of South Africa



17th Annual National Congress

11 July to 15 July 2011

University of the Witwatersrand
Johannesburg

FIRST ANNOUNCEMENT AND CALL FOR PAPERS

Design, printing and postage made possible by:



You are invited to the Seventeenth Annual National Congress of the Association for Mathematics Education of South Africa (AMESA) and to submit contributions around the theme:

Mathematics in a globalised world

VENUE: Wits School of Education Campus, St. Andrews Road, Parktown
University of the Witwatersrand
Johannesburg

DATE: ~~27 June – 1 July 2011~~ **11-15 July 2011**

PROGRAMME:

Participants include an exciting combination of leading mathematics teachers, materials and technology developers, national and international researchers, and government advisers – presenting on policy directions and research findings, and sharing teaching ideas and materials.

The programme will include:

1. **Pre-conference workshops** (~~26 June~~ **10 July**)
2. **Plenary addresses** by invited speakers, including overseas speakers
3. **Panel discussions** on various issues in Mathematics Education
4. **Parallel sessions** presented by participants, in the following areas: Foundation Phase, Intermediate Phase, Senior Phase, FET Phase, Teacher Education.

The following 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)
 - **Posters** (Exhibited on a 1, 2 m x 1, 8 m board, for the duration of the conference. Authors should be available at certain hours, for discussion.)
 - **Workshops** (1 or 2 hours)
5. **Activity centre:** Hands-on practical mathematics activities for participants
 6. **Maths market:** Promotion of their products by commercial vendors
 7. **AMESA Annual General Meeting**

OTHER FEATURES OF CONGRESS 2011:

Photocopying	Transport
Excursions	Child Care Centre
Daily Social Events	Congress Bags
Daily Congress Competitions	Sweat shirts

Note: The Final Announcement and Registration Form will be distributed in February 2011 and will contain full details about the programme, accommodation, costs, transport, etc.

CONTACT DETAILS

Please send all communication about *administrative matters* to:

The Congress Secretariat

C/O Noeline Tomsett
P.O Box 450
WITS
2050

Tel: 011 484 8917

Fax: 011 484 2706

Fax: 086 553 5042

E-mail: congress@amesa.org.za

Congress Director

Lerato Mathenjwa
P.O Box 450
WITS
2050

Tel: 082 858 7762/072 592 0714

Fax: 011 484 2706

Email: lerato@amesa.org.za

Congress website

Please see the congress website for updated relevant information

<http://www.amesa.org.za/AMESA2011>

Gauteng Province

Gauteng (the Sotho word for "Place of Gold"), is the commercial and industrial powerhouse of the country and indeed of Southern Africa. Gauteng is a cosmopolitan, multicultural mix of people from all walks of life and from all corners of the world. Gauteng's main attraction is big business, but there is so much more ... museums, galleries, historical battlefields. Gauteng is also an entertainment playground offering world-class restaurants, shebeens, shopping malls and music venues.

Congress 2011 will be held in Johannesburg, popularly known as Jo'burg, Jozi, or the City of Gold - "Egoli" - a vibrant melting pot of humanity with many cultural and leisure attractions. Johannesburg, "Africa's most cosmopolitan city", is the wealthiest and most entertaining city in South Africa; founded in 1886 with the discovery of gold.

University of Witwatersrand

The University of the Witwatersrand (Wits), established in 1896, is located in Johannesburg - the vibrant, culturally diverse and leading commercial city on the African continent. Over the years Wits has become internationally recognised for its academic excellence and extensive research activities linked to its five Faculties (Commerce, Law & Management, Engineering & the built Environment, Health Science, Humanities; Science) which comprise 34 Schools. The university's vast campuses are spread over 400 hectares in Braamfontein and Parktown. Over 3000 courses are offered to about 18 000 students. Over a third of the student body comprises post graduate students.

Wits exceeds the national norms in terms of enrolments in the Science, Engineering and Technology fields and is also ranked in the top 1% in the world in seven defined fields of research according to the 2007 ISI international rankings. Wits University is home to 14 NRF 'A-rated' scientists, a rating based on a stringent evaluation of an individual scientist's research record over five years.

Local Organising Committee (LOC)

Members of the AMESA 2011 LOC come from a variety of backgrounds and include teachers, subject advisors and university lecturers:

Lerato Mathenjwa	Graeme Evans	Hamsa Venkat	Heather Frankiskos
Jackie Scheiber	John Luis	Anthony Essien	Thobeka Zuma
Lwazi Mosheqane	Khangelani Mdakane	Micky Lavery	Marc Ancilotti
Lindi Tshabalala	Tsakani Chabalala	Simon Malapela	Leigh Pless
Rencia Lourens	Dina Gonzalves	Miriam Mabeba	Betty Mrwebi
Modisaemang Molusi	Marinda Greyling	Johnny Dhlabu	Olatunde Osiyeni
Kerryn Vollmer	Jessica Sherman	Chris Mjijwa	Marietjie Martins

Maths Market

Publishers, entrepreneurs and NGOs are invited to present and promote their commercial products in a special session called *Maths Market*. Research about such products may be presented as an academic paper, but commercial products should not be directly promoted in academic sessions. Please contact the Secretariat for more details.

Call for papers

You are invited to propose one or more contributions to the academic programme. Please note that to ensure a high standard of presentations and broad based participation:

- We will accept no more than two inputs per presenter.
- We will not accept any presentation for the programme unless a full transcript or workshop outline has been submitted for reviewing.
- We will adhere to the due dates for submission as this ensures time for useful and relevant reviews of submissions.

To help you in planning and writing your proposal, we include overleaf-technical guidelines for preparing a paper. An electronic styles template is available on the congress website.

The Presentation Proposal Form (page 9) must be submitted with your proposal by **25 March 2011**.

Call for Reviewers

In order to have a sufficient number of reviewers for submitted papers, we invite AMESA members to volunteer to help with reviewing papers. This review process should take place during April 2011.

You can serve as reviewer if you are a current AMESA member and have presented a reviewed paper (a long or short paper) at previous AMESA congresses, or have published in Pythagoras.

If you qualify and are willing, please fill in the Reviewer Form (page 11) and send it to the Academic Coordinator by **25 February 2011**.

Deadlines

Offer to review papers:	25 February 2011
Submission of papers for reviewing:	25 March 2011
Receive reviewed papers back:	29 April 2011
Application for financial support	29 April 2011
Early registration:	By 13 May 2011
Normal registration:	14 May to 10 June 2011
Late registration:	After 10 June 2011

Start planning for Congress 2011
We look forward to seeing you in Johannesburg, Gauteng!

Guidelines for submission of long papers

Length: 8 – 12 pages

Each long paper will be scheduled a total time of 60 minutes: 40 minutes for oral presentation and 20 minutes for discussion. The following types of papers are suitable for presentation as a long paper:

- 1. Research report** This should include the following:
 - A statement about the focus of the paper or the research questions, and a motivation for the significance of the research;
 - An indication of the theoretical framework of the study reported;
 - A discussion of the related literature;
 - An indication of and justification for the methodology used;
 - Some sample data and findings and a statement of how these help to answer the research questions;
 - What your findings mean for mathematics teaching and learning or further research;
 - List of references.

- 2. The exposition of a piece of mathematics** These papers could have as an objective the presentation of mathematics, relevant to the school curriculum, such as:
 - An innovative way of dealing with a section of mathematics;
 - Alternative proofs for theorems;
 - Interesting mathematics that teachers are conversant with; Mathematics that is new in the proposed curriculum;
 - List of references.

- 3. Theoretical or philosophical essays** These should include the following:
 - A statement about the focus of the paper and a motivation for its significance;
 - An indication of the theoretical or philosophical framework within which the focus or theme of the paper is developed;
 - Reference to related literature;
 - A clearly articulated statement of the author's position on the focus or theme;
 - What your findings mean for mathematics teaching, learning or research;
 - List of references.

Reviewing

Two reviewers, with experience in the area, will review your paper. Specifically reviewers will be asked to comment on the following: mathematical content, theoretical framework and related literature, methodology (if appropriate), statement and discussion of results, clarity and relevance to the AMESA audience. If your paper is not accepted for this category it will automatically be considered as a short paper presentation.

Guidelines for submission of short papers

Length: 5 – 8 pages

Each short paper presentation will be given a total time of 30 minutes: 20 minutes for oral presentation and 10 minutes for discussion. This kind of presentation is most suitable for work in progress.

- 1. Reflection on teaching or practice:** This is mainly for mathematics educators who would like to share their reflections on their teaching or on their participation in a developmental project or research project. For reflection on teaching you need to specify the following:
 - The grade and class size;
 - The mathematics topic taught;
 - The mathematical goals and purposes;
 - A description of the lesson;
 - What factors contributed to the success of the lesson;
 - What factors tended to hamper success and how you dealt with them.

- 2. For reflection on participation in a mathematics development project** you should specify the following:
 - The duration of the project;
 - Mathematical aspects covered by the project;
 - Practical examples of how participation in the project impacted on your teaching.

- 3. The exposition of a piece of mathematics:** These papers could have as an objective the presentation of mathematics relevant to the school curriculum. For details on this type of presentation, [see \(2\) of the long papers](#).

- 4. Proposals – research or development:** This can be a presentation of a proposal for a research or mathematics education developmental project and should include the following:
 - A description of the focus of the research project or developmental project;
 - Motivation for the study or project;
 - Some indication of the theoretical framework of the study or project;
 - Some discussion of the related literature;
 - How the study or project will be undertaken, including some justification of methodology;
 - Participants and time lines;
 - List of references.

- 5. Initial sharing of data** This is mainly for people who have done research and are still working on their analysis. The paper should include the following:
 - A statement about the focus of the paper or the research questions, and a motivation for the significance of the research;
 - Some aspects of the theoretical framework of the study reported;
 - Some discussion of the related literature;
 - An indication of and justification for the methodology used;
 - Some sample data and initial analysis or description of data;
 - List of references.

Reviewing

Two reviewers, with experience in the area, will review your paper. Specifically, reviewers will be asked to comment on the following: mathematical content, conceptual coherence, clarity and relevance to the AMESA audience.

Guidelines for “How I teach” papers

Length: Minimum 1 page and a maximum of 4 pages.

Critical information to be included:

- **Title:** A heading for your paper e.g. How to use paper folding in geometry.
- **Name:** Your Name and Surname
- **Organisation:** Where you are from e.g. the name of your school.
- **Phase:** The phase your talk is aimed at i.e. foundation, intermediate, senior or FET.
- **Introduction:** Include here a paragraph on what your talk is about. Why you chose to talk about it. What you are going to do in the talk.
- **Content:** You might want to write one or two sentences on your experiences of using such activities in your class and some of the advantages or disadvantages of using the activities. Also provide here a brief conclusion on the talk.
- **References:** Add here any references that you might have used. In other words, if you took the activities from a textbook or from the internet, please acknowledge that.

There may be other headings you want to include (e.g. “teacher tips”) – please feel free to do so.

Reviewing

Your paper will be reviewed. Congress 2011 reserves the right to make minor editing changes. If substantial changes to your work are necessary the paper will be returned to you in order to make the changes.

Guidelines for posters

Poster presentations are available for those whose work is more suitably communicated in a pictorial or graphical format, rather than through an oral presentation. There is no formal oral presentation associated with posters, but a time will be allotted, after sufficient display time, during which presenters will be available at their posters for informal discussion with participants.

A poster (1,2 m x 1,8 m board), can present research projects, software developments, curricula innovations, educational programmes, etc., related to Mathematics Education.

Note the following as you prepare your proposal for a poster:

- Your proposal should describe both the contents of the poster and its particular visual (pictorial or graphical) characteristics.
- Your proposal should be restricted to one page, including references and figures. If accepted, this text will be included in the conference proceedings.
- Type and centre the title (in capitals), author(s) names, and affiliation(s) of the author(s) in this order.

Reviewing

The programme Committee will review the proposals for Poster Presentations. If your proposal is accepted, the Programme Committee will provide further guidance on the preparation of the actual poster itself.

Guidelines for workshop presentations

Note that workshop write-ups and the worksheets will be not be published in the paper Congress Proceedings. It will be included in the CD_ROM Proceedings, and copies of the activities will be duplicated only for the workshop participants.

Your proposal should include:

1. **Motivation for running workshop.** This is for reviewing and should include:
 - **Title of the workshop**
 - **Name of presenter(s)**
 - **Institution where you are employed**
 - **Target audience:** The phase your workshop is aimed at e.g. intermediate.
 - **Duration:** There will be 1-hour or 2-hour workshop slots. Please ensure that you choose an appropriate length slot.
 - **Maximum no. of participants:** You may limit the number of participants in your workshop. Workshop presenters should attempt to cater for at least 30 participants.
 - **Motivation for the workshop:** Why is this workshop important and how will it help participants?
 - **Description of content of workshop**
What will be done in the workshop? How will the time slot be broken up?
 - **The activities and worksheets to be used in the workshop** (maximum 8 pages)
2. **An abstract describing the level, nature and content of the workshop** (200 words)
Note: Only this abstract will be published in the Congress Proceedings or Programme.

Note:

- Workshops need to be **hands-on sessions** where participants are **actively involved** in doing the activities that you provide. Usually these activities will be done in groups, consisting of 3 – 5 participants. There should also be ample time for discussions (approximately 25% of your time is suggested).
- If you have used ideas from other sources, it is essential that you acknowledge these sources. We will *not* accept any submissions where more than 2 pages have been copied directly from another source.

Reviewing

The Programme Committee will review the proposals for Workshop Presentations.

Technical guidelines for preparing manuscripts

We are endeavouring to work towards a uniform appearance for all papers in the congress proceedings. An electronic template and guidelines will be available from the congress website. Please use the template as the basis for your paper.

Please adhere to these guidelines:

- Restrict your paper to the maximum number of pages as specified for the type of presentation, including references, figures, and appendices.
- Write the paper in English.
- Type and centre the title (in capitals), author(s) name(s), and affiliation(s) of the author(s), in this order.
- Underline the name of the presenting author(s).
- Begin the paper with an abstract of up to ten lines, single-spaced, preferably in italics.
- Use a 14-point type (Times New Roman recommended), a 16-point line space, and 6 points between paragraphs, occupying a frame of 170 by 247 mm. Please use exact dimensions, and fill the entire frame. Remember that the original text will be reduced in the Proceedings.
- Give references in the APA style.
- **Do not number the pages**
- E-mail the paper as an attachment to the Academic Coordinator by 25 March 2011.
Fax copies will not be accepted.

TABLE OF PRESENTATION CATEGORIES

This page is for your reference when completing the Reviewer Form or the Presentation Proposal Form.

Reviewers will receive proposals for review according to their preferred categories that they mark in their Reviewer Form.

The proposals will be sent to reviewers according to the presentation categories that authors have marked in their Presentation Proposal Form.

PRESENTATION CONTENT DOMAINS

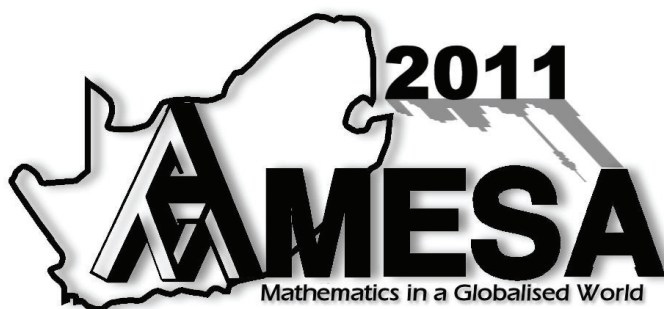
1. Affective factors	12. Geometrical and spatial thinking
2. Algebra and algebraic thinking	13. Language and mathematics
3. Assessment and evaluation	14. Measurement
4. Beliefs	15. Metacognition
5. Computers, calculators and other technological tools	16. Numeracy (numbers and operations)
6. Conjecturing (proofs and explanations)	17. Probability and combinatorics
7. Data handling (statistics)	18. Problem solving and mathematical modeling
8. Financial mathematics	19. Socio-cultural studies
9. Fractions, rational numbers and proportion	20. Teacher education and professional development
10. Functions and graphs	21. Theories of learning
11. Gender issues	22. Other (indicate)

EDUCATIONAL LEVEL:

23. Foundation Phase	26. Further Education and Training (FET)
24. Intermediate Phase	27. Teacher Education (pre- & in-service training)
25. Senior Phase	

IN THE CASE OF RESEARCH, THE TYPE OF RESEARCH:

28. Empirical / Experimental	31. Ethnographic / Interpretative
29. Statistical	32. Theoretical / Philosophical
30. Case study	



The Academic Coordinator
 Hamsa Venkat
 Marang Centre for Mathematics and
 Science Education
 Wits School of Education
 Tel: 011 717 3742
 Fax2 email: 0865088324
 E-mail: hamsa@amesa.org.za

PRESENTATION PROPOSAL FORM – AMESA 2011

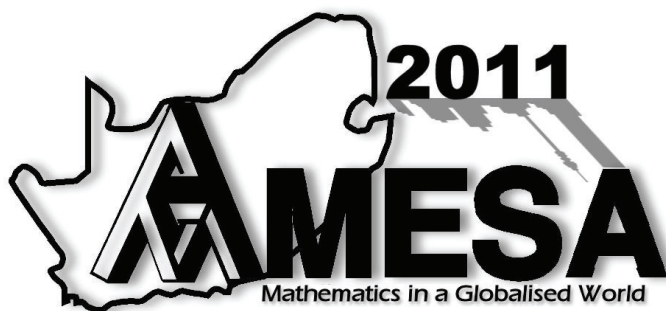
This form must be completed and submitted with every presentation proposal.

Note: You may prefer to complete the electronic form on the congress website.

DEADLINE: 25 March 2011

PLEASE TYPE OR HAND-WRITE BY USING ONLY CAPITAL LETTERS

<p>Type of Presentation (mark one):</p> <p>Long paper <input type="checkbox"/> Short paper <input type="checkbox"/> How I teach <input type="checkbox"/> Poster <input type="checkbox"/> Workshop <input type="checkbox"/></p>
<p>Title of Presentation:</p>
<p>Author(s):</p>
<p>Presenting Author(s):</p>
<p>Contact Details: The following information should be completed only for a Presenting Author:</p> <p>Postal Address:</p> <p>City: _____ Postal Code: _____</p> <p>Telephone no: _____</p> <p>Cell no: _____</p> <p>Fax no: _____</p> <p>E-mail: _____</p>
<p><i>Complete to assist the Programme Committee in finding you an appropriate reviewer</i></p> <p>Presentation categories (choose relevant numbers from the Table on page 8):</p> <p>Content Domains (mark at most three numbers from 1 to 22): ____ ____ ____</p> <p>Educational Level (from 23-27): ____</p> <p>Type of Research if applicable (from 28-32): ____</p>



The Academic Coordinator
 Hamsa Venkat
 Marang Centre for Mathematics and
 Science Education
 Wits School of Education
 Tel: 011 717 3742
 Fax2 email: 086 508 8324
 E-mail: hamsa@amesa.org.za

REVIEWER FORM

Please complete this form if you are prepared to help review submitted papers for the congress.

To qualify as a reviewer, you must be a current AMESA member and have presented a reviewed paper (a long or short paper) at previous AMESA congresses, or have published in Pythagoras or another reviewed journal.

DEADLINE: 25 February 2011

Note: You may prefer to complete the electronic form on the congress website.

PLEASE TYPE OR HAND-WRITE BY USING ONLY CAPITAL LETTERS

Contact Details:

Name:

Institution:

Postal Address:

City:

Postal Code:

Telephone no:

Cell no:

Fax no:

E-mail

Complete to assist the Programme Committee to match you to appropriate submissions

Presentation categories (choose relevant numbers from the Table on page 8):

Please choose at most four **Content Domains** (numbers 1 to 22):

Please choose your preferred **Educational Levels** (numbers 23 to 27):

Please choose your preferred **Types of Research** (numbers 28 to 32):



Congress Secretariat
 P.O. Box 450
 WITS
 2050
 Fax: 011 484 2706
 Email: congress@amesa.org.za

Application for financial support: AMESA Congress 2011

Note: Closing date is 29 April 2011

I,, would like to apply for financial support to attend AMESA Congress 2011.

Surname:

First names:

Postal address:

.....

Postal code:

Institution:

Area of interest: (Primary / Secondary / Tertiary)

Tel: (Home) (Work) Fax:

E-mail:

Complete 1 and 2 below and take note of 3:

1. I am an AMESA member: YES / NO Membership number:
2. I am able to contribute R..... of the projected R..... costs for my attendance.
3. I undertake to write an article/report on AMESA Congress 2011 which may be published in *AMESA News*.

Signature: **Date:**

Note:

- A typed ½ to 1 page motivation, as well as a detailed budget must accompany this application. The application will not be considered without a detailed budget.
- Preference for funding will be given to paid-up AMESA members who will be participating in the congress programme.

