



SAARMSTE

Southern African Association for Research in
Mathematics, Science and Technology Education

FIRST ANNOUNCEMENT AND CALL FOR PAPERS

**26TH CONFERENCE OF THE *SOUTHERN AFRICAN ASSOCIATION FOR
RESEARCH IN MATHEMATICS, SCIENCE AND TECHNOLOGY
EDUCATION***

SAARMSTE 2018

TUESDAY 16 – FRIDAY 19 JANUARY 2018

CONFERENCE THEME:

*Pursuing sustainable and inclusive quality education through research
informed practice in Mathematics. Science and Technology*

HOSTED BY:

UNIVERSITY OF BOTSWANA

Gaborone, Botswana

Website: www.saarmste.org/conferences

Email: saarmste2018@gmail.com

SAARMSTE COMMITTEES 2017/2018

SAARMSTE EXECUTIVE

| | | |
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| President | Dr Lyn Webb | Nelson Mandela Metropolitan University |
| President Elect | Prof Kenneth Ngcoza | Rhodes University |
| Secretary/Treasurer: | Dr Tulsi Morar | Nelson Mandela Metropolitan University |
| Chapter Representatives: | Prof Mike Mhlolo | Central University of Technology |
| | Dr Audrey Msimanga | University of the Witwatersrand |
| AJRMSTE Editor: | Prof Fred Lubben | Cape Peninsula University of Technology & University of York |
| Research Capacity Building Committee Chair: | Prof Hamsa Venkatakrisnan | University of the Witwatersrand |
| Secretariat (ex-officio): | Ms Carolyn Stevenson-Milln | |

SAARMSTE LOCAL CONFERENCE ORGANISING COMMITTEE (LOC) - 2018

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| Conference Chairperson: | Dr A A Nkhwalume | University of Botswana |
| Conference Secretary: | Dr L. Tawana | University of Botswana |
| Editor of Research Papers: | Prof K.G. Garegae | University of Botswana |
| Maths Coordinator: | Mr O. Pitso | University of Botswana |
| Science Coordinator: | Dr K.M. Mphale | University of Botswana |
| Technology Coordinator: | Mr E. Zimudzi | University of Botswana |
| Fundraiser: | Dr P. Chakalisa | University of Botswana |
| Marketing: | Mr M.V. Lanka Mr M. Masole | University Botswana Tlokwen College of Education |
| Treasurer: | Dr S.M. Suping | University of Botswana |
| Programme: | Dr K. Kesianye | University of Botswana |
| Logistics: | Ms S. Mogotsi & C Kealeboga | University of Botswana |
| Additional Members: | Prof. L. Narasimhan (CS) | University of Botswana |
| | Prof. Prakash (Maths) | University of Botswana |
| | Mr E. Salani (DPE) | University of Botswana |
| | Mr G. Bagwasi | Curriculum Development & Evaluation |
| | Ms K.M. Matongo | University of Botswana |
| | Ms T. Mokoka | Moselewapula JSS |
| | Mr R. Polelo | University of Botswana |
| | Ms E. Tshukudu | University of Botswana |
| | Ms K.O. Obakeng | Nanogang JSS |
| | Dr M. Motswiri | University of Botswana |
| | Dr D. Gaotlhobogwe | University of Botswana |

OBJECTIVES OF THE SAARMSTE CONFERENCE

Among the aims of SAARMSTE, according to its constitution, are to:

- promote the advancement of Mathematics, Science and Technology in Education (MSTE) in Southern Africa
- foster a sense of community among researchers in MSTE
- promote research to improve and develop MSTE programmes in response to current and future needs

The Annual SAARMSTE Conference is an important vehicle to address these aims.

CONFERENCE THEME

Pursuing sustainable and inclusive quality education through research informed practice in Mathematics, Science and Technology

The theme is founded on the 2030 Agenda for Sustainable Development and its 17 Sustainable Development Goals, in particular SDG 4: *Ensure inclusive and quality education for all and promote lifelong learning*. It can be argued that obtaining quality education is the foundation for the improvement of people's lives and sustainable development. When students receive quality education, inequalities are reduced such as poverty, gender, etc. Education empowers people to live more sustainable lives while contributing to societal efforts in building a better world with no one left behind.

Research in mathematics, science and technology is crucial to foster informed based practice in STEM education. Teachers, teacher educators and others with an interest in STEM education should continuously utilize research in their practice in pursuance to sustainable and inclusive quality education.

Our theme is intended to drive home the need for practice based on research in an effort to qualitatively contribute to human equality as envisaged in the SDGs.

PROGRAMME

Conference proceedings commence on Tuesday morning 16th January with workshops facilitated by invited keynote speakers. The formal opening of the conference and first plenary session commences on Tuesday afternoon. The rest of the conference (until noon of Friday 19 January), consists of various types of presentations, described below and delivered by participating delegates.

IMPORTANT FINAL DATES to diarise

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| Online submission of papers for review: see options below | Monday 31 July |
| Final submission of re-worked papers | Friday 29 September |
| Online conference registration | Friday 29 September |
| Application for Post-Conference Writing Clinic | Tuesday 31 October |
| Payment of registration fees by all presenters (*See note below) | Thursday 30 November |
| Provisional programme released to presenters | Monday 4 December |
| Final programme released to presenters | Monday 11 December |

Note: *If final arrangements for payment have not been processed by Thursday 30/11/17 paper(s) will not be included in the conference programme

PROGRAMME PRESENTATIONS

A. Invited Presentations

1. Plenary Sessions

These are addresses revolving around key MSTE issues; related to the conference theme and delivered by invited speakers who are specialists in their field.

2. Plenary Speaker Workshops

Research-focused workshops take place on Tuesday 16th January presented by the invited plenary speakers. Emphasis is on intensive discussion and hands-on experiences around aspects of the speakers' main research interests and activities.

B. Submitted Peer Reviewed Paper Presentations – See SAARMSTE website for type and categories.

Options are:

1. **Long paper** of up to 6000 words, (including references), for a 30 minute presentation followed by 15 minutes Q&A. Long papers attract DHET subsidy; are equivalent to journal publications utilising the same criteria as AJRMSTE articles; and are reviewed accordingly
2. **Short paper** of 1500 words, (including references), for a 20 minute presentation followed by 10 minutes Q&A. Short papers should highlight preliminary findings and significance of the research. Short paper submissions could be the first draft of a journal article consisting of: abstract, introduction literature review, methodology, results and conclusions. Authors are encouraged to submit short papers for development of an article at the post conference workshop. NB – short papers do **not** attract DHET subsidy
3. **Snapshot paper** of 1000 words, (including references), for a 10 minute presentation followed by 5 minutes Q&A. Snapshot papers should be based on emerging research, not necessarily with results but with a framework of: abstract, introduction, literature review, methodology and the way forward
4. **Symposium and Round Table / panel paper** of 1500 words, (including references), for a 90 minute team discussion around issues where different points of view, approaches, debates or analysis of the same problem are presented. The paper should contain details of each speaker's contribution and how these come together to create a forum for debate.
5. **Guided Poster session** of 1000 words, (including references for presenters to discuss their posters with fellow researchers. The paper / poster should contain a brief outline of the main features of the speaker's research

Criteria for submitting the presentation options are:

Submission Deadline for all options above: Monday 17 July 2017

Submission Format: Submit online www.SAARMSTE.org/conferences completing title of paper together with author and presenter details in the accompanying presentation information sheet and ensuring that the body of the paper has no identifying information, (i.e. name(s) of author(s), institution or reference to geographical area), ensuring a **blind** review of the actual paper by the reviewers. NB: each submission should include an attached Word Docx of their paper, (with **NO** identifying information), to ensure images / tables etc. are seen for reviewing purposes.

Format of paper is:

- I. Title: bold in capitals 14pt
- II. Sub headings bold, sentence case 12pt
- III. Body of paper: Times New Roman, 12pt and 1.5 spacing.

POST-CONFERENCE WRITING CLINIC

Immediately following the Conference (Friday 19th and Saturday 20th January), a Writing Clinic is organised to develop draft manuscripts and/or short papers to articles for journal submission. The Chief-Editor of AJRMSTE (Professor Fred Lubben) facilitates the Writing Clinic together with some members of the Editorial Team.

IMPORTANT NOTE: Spaces in the Writing Clinic are limited.

Applications, ACCOMPANIED BY A DRAFT PAPER, should be submitted directly to Prof Fred Lubben: fred.lubben@york.ac.uk by 31 October 2017

DELEGATE REGISTRATION TO ATTEND THE CONFERENCE

All those interested in attending the 2018 SAARMSTE Conference should register online through www.saarmste.org/conferences

REGISTRATION FEES

There are TWO different levels of registration fees, depending on whether the delegate is a paid up member of SAARMSTE or not.

Note: If you did not attend the SAARMSTE 2017 Conference or have not paid membership fees since then, you are NOT a paid up member

| MEMBERSHIP STATUS | EARLY BIRD Payment no later than 31 October 2017 | LATE PAYMENT Payment between 1 and 30 November 2017 |
|--|---|--|
| Valid 2017 paid up members Discounted conference fee includes 2018 membership fee | R3320 | R3520 |
| Non-members and lapsed members. | R3770 | R4070 |

NB: WHEN MAKING PAYMENT, PLEASE include delegate names and institution name.

Payments from outside South Africa

Registration fees paid from outside South Africa and cash payments must include a bank charge of R200

Details of methods of payment should be found in the 2nd Announcement e.g. South African bank, PayPal and possible SADC options

CANCELLATION OF REGISTRATION

The following cancellation penalties apply:

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| Before 31 October 2017: | full refund |
| Between 31 October and 15 December 2017: | 40% refund |
| After 15 December 2017: | no refund |

Refunds should be paid into the account from which the registration fee emanates

SAARMSTE CORRESPONDENCE DETAILS

Please address your SAARMSTE correspondence to the SAARMSTE Secretariat

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SAARMSTE Secretariat

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