



SAARMSTE

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

2nd 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

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 Venkatakrishnan	University of the Witwatersrand
Secretariat (ex-officio):	Ms Carolyn Stevenson-Milln	

SAARMSTE LOCAL CONFERENCE ORGANISING COMMITTEE (LOC) - 2018

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 the 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.

The invited plenary speakers are:

1. **Prof Kgomotso Garagae**, HOD Mathematics and Science Education, University of Botswana
2. **Prof Merrillyn Goos**, currently Professor of Education at the University of Queensland, Australia. In October 2017 she will take up the position of Professor of STEM Education and Director of the National Centre for STEM Education at the University of Limerick, Ireland.
3. **Prof Fred Lubben**, Senior Research Fellow in the Centre for Innovation and Research in Science Education (CIRSE) at the University of York; Professor in Education at the Cape Peninsula University of Technology, and holds honorary Research Associate appointments at UCT and Wits; Chief-editor of the African Journal of Research in Mathematics, Science and Technology Education

4. **Dr Saranjeet Shan**, Executive Director of Maths Centre: A Johannesburg based non-profit striving to improve maths, science and technology education in South Africa.

IMPORTANT FINAL DATES to diarise

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) cannot be included in the conference programme

For further information about paper submissions see the SAARMSTE Conference First Announcement on the SAARMSTE website

BOOK OF LONG PAPERS & MEMORY STICK

- A Book of Long Papers/Proceedings (with ISBN number, publication date and review procedures) is compiled from all accepted Long Papers. These Long Papers are FULLY peer reviewed and may attract DHET subsidy
- A Memory Stick of all presented papers is compiled from accepted Long and Short Papers, Snapshots, Round table and Symposia. (Please note that Short Papers are NOT fully peer reviewed and thus do not attract subsidy).
- Short Papers, Snapshots, Roundtables, Symposia and Posters together with the Book of Long Papers and Conference Programme will be available on a memory stick and on the conference website.

Delegates may *pre-order* the hard copy printed and bound Book of Long Papers when processing their registration online, www.saarmste.org/conference. (There is a charge for printing hard copies).

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.

Who should attend?

1. Those who submit long papers but have been told that a short paper is more appropriate
2. All those who have submitted a short paper abstract that has been accepted

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

N.B. Those who are accepted to take part in the writing clinic should make their own accommodation arrangements for the additional night(s).

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.	R3870	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:

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

CONFERENCE BURSARIES

Three bursaries are available to assist financially needy delegates who reside in regions of particular stress and turmoil, who under these circumstances would be otherwise unable to attend the conference. The bursaries cover conference registration fees and accommodation in student residences for five nights only. Any additional costs (such as travel) must be covered by the delegate. The following criterion applies:

- The applicant must be attending the SAARMSTE conference for the **first** time
- The applicant must present a paper (either a short paper or a long paper)
- The applicant must be the first author on the paper, and must be the presenting author
- The applicant must not be able to apply for research funds from their institution

For those who are interested in applying for a bursary please complete the application form at the end of this Announcement or refer to the Conference website: www.saarmste.org/conferences

SAARMSTE AWARDS

Two awards may be awarded at the Gala Conference Dinner of the Annual Conference. These are:

1. SAARMSTE EARLY CAREER PUBLICATION AWARD

In order to encourage new researchers in mathematics, science and technology education, SAARMSTE offers an award for the best article published in the previous year by an emerging researcher. This award is given to an author in the early part of her/his career. The award, for publishing a remarkable and excellent report in the *African Journal of Research in Mathematics, Science and Technology Education (AJRMSTE)* on a piece of mathematics, science or technology education research.

Eligibility

Only candidates who satisfy the following criteria will be considered. They must:

1. be a current SAARMSTE member
2. have attained the PhD degree five or less years ago.
3. have published a remarkable and excellent paper in AJRMSTE during the year preceding the relevant SAARMSTE Conference.
4. be the sole or main author of the paper concerned.

Judging

- The award is made on the basis of evidence that the paper makes a significant, relevant and original contribution to the field of Mathematics, Science or Technology Education.
- The evidence is assessed through interrogating the quality of the qualifying papers identified, the supporting documentation (CV and letter describing the process of the paper development)..
- The AJRMSTE Editorial Team proposes candidates for the SAARMSTE Early Career Publication Award, for decision by the SAARMSTE Executive Committee.

Awards are not necessarily given on an annual basis; i.e. they are given only where candidates are considered deserving of the award. The decision of the SAARMSTE Executive Committee is final.

Acknowledgement: The above award is adapted from the MERGA Early Career research award.

2. SAARMSTE SERVICE AWARD - is an acknowledgement to a SAARMSTE member who is found to have made a substantive contribution to a range of SAARMSTE activities and to SAARMSTE as an organisation

Nominations for either award (with a motivation letter) should be sent to the Association Secretariat at: saarmste@gmail.com

The deadline for nominations is 31 October 2017 for the 2018 awards.

CONFERENCE ACCOMMODATION and OTHER ISSUES

Accommodation – Hotels close to the University of Botswana (walking distance)

Hotel	Bed & Breakfast	Dinner	Discount packages
AVANI GABORONE RESORT & CASINO Chuma Drive, Gaborone Tel +267 361 600/ 7361 6000 Gaborone@avanihotels.com	P1295.00	P270.00	Yes
Indaba Lodge, Gaborone Plot 61916, Tlokweng Road, Gaborone Tel +267 399 9500 Email: gm@indabagaborone.co.bw	P1005.00	P250.00	Yes
Hotel Woodlane, Gaborone Plot 54515 Riverwalk, Riverwalk Mall Gaborone	Standard P899.00 Executive P1599.00	P180.00	Yes
Peermont Mondior, Gaborone Plot 21117 Corner Mobuto & Maratadiba Road 1000	Standard P1290.00 Executive P1575.00	P250.00	Yes
Botswana National Productivity Centre (30 rooms)	Double room P375.00 Single room P325.00		
TSA Lodge (11 rooms)	Double room P450.00 Single room P350.00		
Regent Select Hotel (30 rooms)	P1250.00	R250.00	

Alternative accommodation

Apart from the hotels there are smaller lodges and guest houses within the vicinity of the University of Botswana offering cheaper accommodation than hotels

NB:

1. Arrangements for the above accommodation should be booked and paid by the delegate separate to the Conference Registration fees
2. The above are 2017 rates. It is unknown at this stage the % increase for January 2018

University Residence Accommodation – book and pay when registering to attend the conference on <http://www.saarmste.org>

Student rooms

R330.00 per person sharing or single

GABORONE SIR SERETSI KHAMA INTERNATIONAL AIRPORT

The main international airport in Botswana is located 15 kms from the city centre. A special conference one-way fare of P30.00 per person should be arranged through the LOC

SAARMSTE CORRESPONDENCE DETAILS

Please address your SAARMSTE correspondence to the SAARMSTE LOC in Botswana

LOC Logistics: Ms Salome Mogotsi

Email: saarmste2018@gmail.com

LOC Secretary: Dr Lesepo Tawana

Email: saarmste2018@gmail.com

APPLICATION FOR FINANCIAL SUPPORT

I would like to apply for financial support to attend SAARMSTE 2018 at the University of Botswana in Gaborone, Botswana

Eligibility Criteria*

Do you reside in a region of particular stress and turmoil?	Yes/No
Are you a SAARMSTE member?	Yes/No
Will this be your first attendance at a SAARMSTE Conference?	Yes/No
Are you presenting a Long/Short paper at the Conference?	Yes/No
Are you the first author who is presenting the paper at the Conference?	Yes/No
Are you unable to obtain funding from your institution to attend the Conference?	Yes/No

* You must have answered "Yes" to all criteria to be eligible to apply. Delete inapplicable.

Applicant Details

Surname	Name(s)
Institution/ Organisation	
Postal Address	
Telephone	
Cell	
Email	
Supervisor's name (if applicable)	

I, name surname, understand that this bursary only covers the conference registration fees and basic accommodation for five nights, and that all other expenses will be for my own account. I also undertake to write a ~10-15 line article/report on the Conference by the end of January 2018, which may be published in the SAARMSTE Newsletter.

MOTIVATION - Maximum $\frac{3}{4}$ page please.

I hereby declare that all of the information supplied in this application is true and correct.

Signature

Date

Deadline for Conference Bursary application submissions: 30 September 2017

Please send completed application form to:

The SAARMSTE2018 Local Organising Committee, as an email attachment to
saarmste2018@gmail.com