



SAARMSTE

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

2nd ANNOUNCEMENT AND CALL FOR PAPERS

**27th CONFERENCE OF THE *SOUTHERN AFRICAN ASSOCIATION FOR
RESEARCH IN MATHEMATICS, SCIENCE
AND
TECHNOLOGY EDUCATION***

SAARMSTE 2019

TUESDAY 15 – THURSDAY 17 JANUARY 2019

CONFERENCE THEME:

***Research for inclusive, relevant and equitable quality mathematics, science and
technology education: Promoting research-based opportunities for all***

HOSTED BY:

UNIVERSITY OF KWAZULU-NATAL (UKZN)

**Venue: *Southern Sun Elangeni & Maharaj Hotel*
Durban, South Africa**

SAARMSTE Website: www.saarmste.org/conferences

Email: saarmste2019@gmail.com

SAARMSTE COMMITTEES 2018/2019

SAARMSTE EXECUTIVE

President	Prof Kenneth Ngcoza	Rhodes University
Past President	Dr Lyn Webb	Nelson Mandela University
Secretary/Treasurer	Dr Tulsi Morar	Nelson Mandela University
Chapter Representatives	Dr Audrey Msimanga	University of the Witwatersrand
	Prof Washington Dudu	North West University
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 CCONFERENCE ORGANISING COMMITTEE (LOC) 2019

Conference Chairperson	Prof Nadaraj Govender
Conference Secretary	Dr Tamirirofa Chirikure
Editor of Research Papers	Prof Nadaraj Govender, Dr Ronicka Mudaly, Dr Asheena Singh-Pillay, Dr Themba Mthethwa
Maths Coordinator	Dr Themba Mthethwa
Science Coordinator	Dr Ronicka Mudaly/ Dr Lebala Kolobe
Technology Coordinator	Dr Asheena Singh-Pillay
Fundraiser/Treasurer	Dr Themba Mthethwa
Programme	Dr Angela James
Logistics/Marketing	Dr Zanele Ndlovu
Additional Members	Dr Busisiwe Precious Alant Prof Sarah Bansilal Mr Andy Chebure Mrs Mary-Anne Good Mr Malusi Sigried Hlongwane Dr Lebala Kolobe Mrs Bongeka Mabaso Ms Nozuko Mfaniswa Mr Thokozani Mkhwanazi Mr Justin James Lesedi Molebale Dr Leonard Molefe Mr Merventharan P Moodley Mrs Sebenzile Ngema Mr Benjamin Shongwe Dr Doras Sibanda Mr Sandile Cleopas Zuma

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

Research for inclusive, relevant and equitable quality mathematics, science and technology education: Promoting research-based opportunities for all

Motivation: Recognising that the world has changed dramatically in the past century, we are called to think more critically and to act decisively. Global issues of climate change, social inequality, quality education, gender etc. raises questions of the influence of SMTE/STEAM (where A is ‘Art in Science/Maths/Technology’) in transforming education for educating for the 21st Century competences. New problems from social, climatic, environmental, political, ICT media, and tools, forces us to reflect on the nature, relevance and quality of our learning, teaching and community engagement. Are we promoting quality education where all become literate, (including in mathematics, science and technology), contribute to being economically productive, participate in peace and growth in developing an equitable and just society? Are our theories, methodologies and practices still relevant for quality education in the present climate? Finally, how are we preparing our students for new challenges of the 21st Century?

PROGRAMME

Conference proceedings commence on Tuesday morning 15th January with workshops facilitated by invited keynote speakers. The formal opening of the conference and first plenary session commences on Tuesday 15th January. The conference ends directly after the Gala Dinner on Thursday 17th January 2019, i.e. **a full three-day conference** which consists of various types of presentations, described in the 1st Announcement and delivered by participating delegates.

The invited plenary speakers are:

1. **Dr Busisiwe Alant**, Senior Lecturer in Technology Education at the School of Education, University of KwaZulu-Natal
2. **Prof Robert Berry**, Associate Professor in Curriculum Instruction and Special Education, in the Curry School of Education, University of Virginia. Prof Berry’s discipline is in mathematics education.
3. **Prof Judith Lederman**, Associate Professor and Director of Teacher Education, Department of Mathematics and Science Education at Illinois Institute of Technology, Chicago. Prof Lederman’s discipline is in science education.

IMPORTANT FINAL DATES to diarise

Online submission of papers for review – Extended to	Tuesday 31 July 2018
Online conference registration	Friday 31 August
Final submission of re-worked papers	Sunday 29 September
Application for Post-Conference Writing Clinic	Thursday 31 October
Payment of registration fees by all presenters (*See note below)	Saturday 30 November
Provisional programme released to presenters	Wednesday 4 December
Final programme released to presenters	Wednesday 11 December

Note: *If final arrangements for payment are not processed by Saturday 30/11/18 paper(s) will NOT be included in the conference programme

BOOK OF LONG PAPERS/PROCEEDINGS & 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/Proceedings when processing their registration online, www.saarmste.org/conference (There is a charge for printed hard copies).

PROGRAMME PRESENTATIONS

Refer 1st Announcement for:

- A. Invited Presentations
 1. Plenary Sessions
 2. Plenary Speaker Workshops
- B. Submitted Peer Reviewed Paper Presentations
 1. Long paper
 2. Short paper
 3. Symposium / panel paper
 4. Snapshot paper
 5. Guided Post session

Criteria for submitting the above presentation options and format

NB. In addition to the above details found in the 1st Announcement it should be noted that:

- 1. Long Papers:** In accepting a Long Paper for presentation at the SAARMSTE conference, the Review Panel presumes that:
 - a. The paper is original and has not been published elsewhere
 - b. Permission will be granted by the author for the accepted long paper to be published in the accredited Book of Proceedings

- c. At least one of the authors will register and attend the conference to present the paper
- d. First authors may only present one long paper at each conference

Long papers are fully peer reviewed and thus attract DHET subsidy

2. **Short Papers:** After acceptance of the 1 500 word short paper, authors may elect to develop their research further into a 3 600 word paper which will NOT be reviewed but, after consultation with the editors, could be published in the Book of Short Papers, but will not attract subsidy

POST-CONFERENCE WRITING CLINIC

Immediately following the Conference (Friday 18th January), a Writing Clinic is scheduled to take place to develop draft manuscripts and/or short papers into articles for journal submission. The Chief-Editor of AJRMSTE (**Professor Fred Lubben**), together with members of the Editorial Team, facilitate the Writing Clinic.

NB. For short paper authors, there is the potential for feedback, which may be turned into Journal article(s) in the AJRMSTE or other recommended and accredited Journals within MSTE.

Who should attend?

1. Those who submit long papers but are advised that a short paper is more appropriate
2. All those who submit, and have accepted, a short paper for participation in the conference

NB. 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 2018

NB. 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

Those interested in attending the 2019 SAARMSTE Conference should register online through www.saarmste.org/

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: Members constitute those who attended and participated in the SAARMSTE 2018 Conference and/or those individuals who have paid their membership fee up to and including the year 2018.

MEMBERSHIP STATUS	EARLY BIRD Payment no later than 31 October 2018	LATE PAYMENT Payment between 1 and 30 November 2018
Valid 2018 paid up member Discounted conference fee includes 2018 membership fee	R3700	R3900
Non-members and/or lapsed member.	R4150	R4450
Retired SAARMSTE members (over 65 years)	R3700	R3700

NB: WHEN PROCESSING PAYMENT KINDLY use ref: **delegate name, or invoice number.**

Payments from outside South Africa

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

CANCELLATION OF REGISTRATION

The following cancellation penalties apply:

Before 31 October 2018: full refund
Between 31 October and 15 December 2018: 40% refund
After 15 December 2018: no refund
Refunds should be paid into the account from which the registration fee emanates

SAARMSTE CORRESPONDENCE DETAILS

Please address your SAARMSTE CONFERENCE correspondence to

Ms Carolyn Stevenson-Milln
SAARMSTE Secretariat

Cell: +27 (0)82 977 9858
Email: saarmste2019@gmail.com

General SAARMSTE queries should be addressed to the SAARMSTE Secretariat

Ms Carolyn Stevenson-Milln
SAARMSTE Secretariat

Cell: +27 (0)82 977 9858
Email: saarmste@gmail.com

CONFERENCE BURSARIES

Three bursaries are available to assist financially strapped delegates whose institutions do not provide financial support, who under these circumstances would be otherwise unable to attend the conference. Such a bursary covers conference registration fees and accommodation in student residences for four 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 of the paper, and must be the presenting author
- The applicant must be unable to obtain funding from their institution

For those who are interested in applying for a bursary kindly 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

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 a 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 ratification by SAARMSTE's Executive Committee.

Awards are not necessarily given on an annual basis; i.e. they are awarded 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

This award is in acknowledgement of 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, (accompanied by a letter of motivation), should be sent to the Association Secretariat at: saarmste@gmail.com **The deadline for nominations: 31 October 2018 for the 2019 awards.**

CONFERENCE ACCOMODATION and OTHER INFORMATION

Accommodation - Durban. Kindly direct bookings and/or queries to the supplier of your choice

Venue	Rating (google rating)	Telephone	Single Room	Double-sharing	Further information	Website
Southern Sun Elangeni & Maharani (Conference Venue)	4 star	+27 (0)31 362 1300	R1450.00 bed and breakfast	R1825.00 per room, per night includes breakfast		https://www.tsogosun.com/southern-sun-elangeni-maharani
Garden Court	3 star	+27 (0)31 337 3341	R1245.00 bed and breakfast	R1520.00 per room, per night includes breakfast		
Pavilion Hotel (conference price) Book by 15th Nov 2018	3 star (3.8)		R803.00 (extra: breakfast at R130 pp - buffet)	R 904.00 (double bed /twin) (extra: breakfast at R130 pp)	2/3/4 sleeper rooms with single beds	
Parade Hotel	2 (3.7)	+27 (0)31 3374565	R600.00 per night per person Includes breakfast			https://www.hotelscombined.co.za/Hotel/Parade_Hotel_Durban.htm
Beach Hotel	3 (3.7)		R904.00 Includes breakfast Single bed for sharing	R1200.00 twin bed, Includes breakfast	4/ 6 sleepers with self-catering services	
Tropicana	3 (3.7)	+27(0)31 368 1511	R1100.00 Single Includes breakfast	R1400.00 sharing per room Includes breakfast		
Coastlands (Musgrave hotel)	3-4	+27(0)31 271 8 271	R950.00 Includes breakfast	R1100.00 Includes breakfast		www.coastlands.co.za
Royal Hotel	3-4	+27(0)31 271 8271	R800.00 Includes breakfast	R950.00 Includes breakfast		
Coastland Hotel and self-catering (conference price)	3-4	+27(0)31 271 8271		R 750.00 two persons sharing R990.00 4 persons sharing	Self - catering	

Venue	Rating (google rating)	Telephone	Single Room	Double-sharing	Further information	Website
SUN F1	1 (3.5)	+27(0)31 301 1551		R550.00 per room (3 max-double bed and a bunker) Extra: R55 breakfast pp.		Durban@tsogosun.com
NB. University Residence Accommodation – is NOT available for this conference						

The 27th SAARMSTE conference, in 2019, is scheduled to be hosted at the Southern Sun Elangeni & Maharani in Durban, South Africa where the conference organisers have negotiated a reasonable conference package along with accommodation (based on availability of rooms. Early booking is recommended), at the indicated approximate rates per night for some hotels. *Prices subjected to change.*



"Located on the spectacular Durban beachfront, (as indicated above), Southern Sun Elangeni & Maharani is undoubtedly the brightest star on the Golden Mile. Overlooking some of the best beaches in KwaZulu-Natal, the hotel complex is just metres from the vibrant boardwalk and many other local attractions."

For more information on the venue, please visit the Southern Sun Elangeni & Maharani website <https://www.tsogosun.com/southern-sun-elangeni-maharani>

Telephone +27 (0)31 362 1300

Physical Address 63 Snell Parade
Durban
South Africa

GPS Co-ordinates -29.846559, 31.034663

Parking: Enquiries should be directed to the Hotel of your choice

INTERNATIONAL AIRPORT

The closest commercial airport: King Shaka International Airport (DUR), to KwaZulu-Natal is located 32 kms form the city centre.

TAXIS, SHUTTLES AND CAR HIRE

Many hotels provide a shuttle service to and from the Airport, in addition the following options are available at King Shaka International Airport: [approx. rate R12-15 per km]

UBER Durban +27 (0)79 577 6903

Neelsie's Shuttle service

+27 (0)83 320 8479

info@neelsieshuttles.co.za

(approx. R420 for two people, special car-conference rate)

EZSHUTTLE +27 (0)86 139 7488 or e-mail info@ezshuttle.co.za

Airport BUS Shuttle: Operating Hours: 5:00am - 8:00pm

Tel: +27 (0)31 465 5573 / +27 (0)31 465 1660 / +27(0)82 340 9990

Email: airportbus@mweb.co.za



APPLICATION FOR FINANCIAL SUPPORT

I would like to apply for financial support to attend SAARMSTE 2019 hosted by the University of KwaZulu-Natal

Eligibility Criteria*

Are you a SAARMSTE member as at 2018?	Yes/No
Will this be your first attendance at a SAARMSTE Conference?	Yes/No
Have you submitted a Long or Short paper for the Conference? Please attach submission	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.

Are you a full time/part time registered student at a University? If so please provide details: <ul style="list-style-type: none"> • Name of University • Degree for which registered • Year of study • Name and contact details of supervisor 	Yes/No
Are you a full time/part time academic member of staff of a university? If so please provide details: <ul style="list-style-type: none"> • Name of University • Department • Number of years at university • Name and contact details of Head of Department 	Yes/No

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 four 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 2019, which may be published on the SAARMSTE website.

MOTIVATION - Maximum ¾ page please.

- Please attach a signed letter from your supervisor or Head of Department which includes a statement of adequate progress in your studies/ employment and a declaration that there are no other avenues for financial support from your university.
- Please attach a copy of your paper submission for SAARMSTE 2019

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

Signature

Date

Deadline for Conference Application in regard to Financial Support submissions:
30 October 2018

Please send completed application form to: the SAARMSTE Secretariat, as an email attachment to saarmste@gmail.com