



SAARMSTE

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

FIRST ANNOUNCEMENT AND CALL FOR PAPERS

**28TH CONFERENCE OF THE SOUTHERN AFRICAN ASSOCIATION FOR RESEARCH IN
MATHEMATICS, SCIENCE AND TECHNOLOGY EDUCATION**

SAARMSTE 2020

TUESDAY 14 – THURSDAY 16 JANUARY 2020

CONFERENCE THEME:

Fostering delight in mathematics, science and technology education

HOSTED COLLABORATIVELY BY:

RHODES UNIVERSITY AND NELSON MANDELA UNIVERSITY

Port Elizabeth, South Africa

Website: www.saarmste.org/conferences

Email: saarmste2020@gmail.com

SAARMSTE COMMITTEES 2019-2020

SAARMSTE EXECUTIVE

President	Prof Kenneth Ngcoza	Rhodes University
President Elect	Prof Hamsa Venkat	University of the Witwatersrand
Secretary/Treasurer:	Dr Tulsi Morar	Nelson Mandela University
Chapter Representatives:	Prof Washington Dudu	North West University
	Dr Beata Dongwi	Rhodes University, Namibia
AJRMSTE Editor:	Prof Busisiwe Alant	University of KwaZulu-Natal
Research Capacity Building	Dr Audrey Msimanga	Sol Plaatje University, Kimberley
Committee Chair:		
Secretariat (ex-officio):	Ms Carolyn Stevenson-Milln	

SAARMSTE LOCAL CONFERENCE ORGANISING COMMITTEES (LoC) - 2020

LoC – Rhodes University

Conference Chairperson:	Dr Lise Westaway
Conference Deputy Chair:	Prof Ingrid Schudel

Mathematics Coordinator:	Dr Pamela Vale
Science Coordinator:	Ms Zukiswa Kuhlane
Technology Coordinator:	Mr Clement Simuja

Programme Coordinator:	Prof Bruce Brown and RU LoC
-------------------------------	-----------------------------

LoC – Nelson Mandela University

Conference Deputy Chair:	Dr Tulsi Morar
Registration:	Ms Rochelle Thorne
	Ms Sanet Deysel
Events Coordinator:	Ms Carine Steyn
Treasurer and Fundraiser:	Ms Hermione Kemp
Venues and ICT:	Dr Benedict Khoboli

SAARMSTE Secretariat:	Ms Carolyn Stevenson-Milln
------------------------------	----------------------------

Advisors:	Prof Ken Ngcoza
	Prof Marc Schäfer
	Prof Mellony Graven
	Dr Lyn Webb

OBJECTIVES OF THE SAARMSTE CONFERENCE

Three aims of SAARMSTE, according to its constitution, are:

- To promote the advancement of Mathematics, Science and Technology Education (MSTE) in Southern Africa
- To foster a sense of community among researchers in MSTE
- To 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

Fostering delight in mathematics, science and technology education

Motivation:

‘Fostering delight’ is the process of ensuring that learners, teachers and researchers experience joy and excitement in mathematics, science and technology education. It is about creating confidence; recognising the beauty in mathematics, science and technology; and realising that everyone has the capacity to understand, develop and use mathematics, science and technology to understand the world we live in. In a world dominated by test scores and performativity, we appear to have lost focus on other important aspects, such as developing a love for mathematics, science and technology education.

During this conference, we ask ‘Is our research contributing to fostering delight in mathematics, science and technology for all people?’

Keywords: *Fostering delight, joy and excitement, creating confidence, recognising the beauty of mathematics, science and technology education.*

PROGRAMME

Conference proceedings commence on Tuesday morning 14th January with workshops facilitated by invited plenary speakers. The formal opening of the conference and first plenary session commences on Tuesday 14th January. The conference ends directly after the Gala Dinner on Thursday 16th January 2020. Thus, a full three-day conference that consists of various types of presentations, described below and delivered by participating registered delegates.

IMPORTANT FINAL DATES to diarise

Online submission of papers for review: see options below	Wednesday 31 July 2019
Review process completed – advise authors of outcomes	Monday 30 September 2019
Final submission of re-worked long papers	Thursday 31 October 2019
Online conference registration opens	Monday 30 September 2019
Application for conference Writing Clinic closes	Thursday 31 October 2019
Payment of registration fees by all presenters¹	Friday 29 November 2019
Provisional programme released to presenters	Wednesday 4 December 2019

¹ If final arrangements for payment are not processed by Friday 29/11/2019 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 14th January at 10:00 and are 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 optional strands within each of the three categories listed under C. below

Paper Options are:

1. LONG PAPERS		
Length	Submission date	Submission date for revisions
Abstract: 100-150 words Full paper: up to 6 000 words	31 July 2019	31 October 2019
<p>Long papers must be as close to, but not exceeding, 6 000 words (including tables, figures and references).</p> <p>Long papers should use a format similar to those required by journals: abstract, (100-150 words), introduction, literature review/conceptual framework, theoretical framework, methodology, findings and conclusion.</p> <p>Author details must be excluded for double blind peer review.</p> <p>Note the process for long paper submissions should be conducted in 2 parts:</p> <ol style="list-style-type: none"> 1. Submit in the text-box online, a copy of the long paper abstract (100 – 150 words) 2. Submit online a copy of the full paper (6,000 words) as an attached word document. 3. Only when both submissions are completed will the paper be sent for reviewing purposes 		
<p>Once feedback has been provided, revisions must be submitted by the 31 October 2019 to the Secretariat at saarmste@gmail.com</p>		
<p>Accepted long papers will appear in the Conference Proceedings and are eligible for DHET subsidy funding.</p> <p>In accepting a long paper for presentation at the SAARMSTE conference, the Review Panel presumes that:</p> <ol style="list-style-type: none"> a. The paper is original and has not been published elsewhere; b. permission has been granted by the author for the accepted long paper to be published in the accredited Conference Proceedings; and c. at least one of the authors will register and attend the conference to present the paper. 		
<p>Long Papers are independently double blind peer reviewed.</p> <p>Should a paper not be accepted for presentation as a long paper, it is possible that the author may be asked to reduce the length of the paper to meet the requirement and deadlines for short papers.</p>		
<p>Authors whose long papers are accepted will present for 30 minutes at the conference. This will be followed by 10-15 minutes of questions and discussion.</p> <p>First authors may only present one long paper at each conference.</p>		

2. SHORT PAPERS		
Length: 1 500 words	Submission date: 31 July 2019	
<p>Short Papers, of no more than 1 500 words (including preliminary findings, tables, figures and references), must be submitted by 31 July 2019.</p> <p>Short papers should use a format similar to those required by journals: abstract (100-150 words), introduction, literature review/conceptual framework, theoretical framework, methodology, findings and conclusion.</p> <p>Short papers should highlight preliminary findings and the significance of the research.</p> <p>Author details must be excluded for the double blind peer review.</p>		
<p>The reviewers might suggest that the authors develop their short paper into an extended paper of 3 600 words. This may be useful for authors who wish to register for the writing clinic and/or submit a paper to a journal.</p> <p>The authors will decide if they would like to accept this opportunity.</p> <p>The extended papers will be published in the conference proceedings, but will not be eligible for the DHET funding subsidy.</p> <p>Extended short paper must be emailed, as an attached Word document, to the Secretariat at saarmste@gmail.com by 31 October 2019.</p>		
<p>Short papers should appear in Conference Proceedings. Short papers are not eligible for DHET subsidy.</p>		
<p>Should a paper not be accepted for presentation as a short paper, it is possible that the author may be asked to submit it as a snapshot or poster. This needs to be submitted between 15 and 30 September 2019.</p>		
<p>Accepted short papers are allocated 20 minutes for presentation at the conference, followed by 10 minutes for questions and discussion.</p>		

3. SNAPSHOTS		
Length: Up to 1 500 words	Submission date: 31 July 2019	No revisions required
<p>Snapshots focus on emerging research (there are not necessarily any results).</p> <p>The purpose is to receive input from an interested audience of like-minded delegates.</p>		
<p>Snapshots should use the format: introduction, literature review, methodology and the way forward.</p>		
<p>Snapshots, of no more than 1 500 words (including preliminary findings, tables, figures and references), must be submitted by 31 July 2019.</p> <p>Snapshots will be “blind reviewed” by two reviewers.</p>		
<p>Snapshots are not eligible for DHET subsidy.</p> <p>Some universities will not provide funding for presenters to attend the conference.</p>		
<p>Feedback is provided by the reviewers.</p> <p>No revisions are required as snapshots are still ‘research in progress’.</p>		
<p>Snapshots are allocated 10 minutes for presentation at the conference, followed by 5 minutes for questions and discussion.</p>		

4. GUIDED POSTERS		
Length: Up to 1 500 words	Submission date: 31 July 2019	No revisions required.
<p>A word document, of no more than 1 500 words (including preliminary findings, tables, figures and references), must be submitted by 31 July 2019.</p> <p>The word document should provide an outline of the content of the poster. The actual poster is not submitted for review, only a word document.</p> <p>Author details must be excluded for a “blind review”.</p>		
<p>The poster should contain a brief outline of the main features of the author’s research, similar to a short paper, which includes a 100-150 word abstract.</p>		
<p>Feedback is provided by the reviewers.</p>		
<p>Posters are not eligible for DHET subsidy.</p> <p>Some universities do not provide funding for poster presenters to attend the conference.</p>		
<p>A one-hour session is allocated to the presentation of all the posters.</p> <p>During this time fellow researchers will circulate in the hall/foyer to read the posters.</p> <p>Fellow researchers will ask questions, encourage discussion and make suggestions (hence the term, ‘guided posters’).</p> <p>Authors are expected to remain with their poster for the full hour.</p>		
<p>Posters should be no smaller than A1.</p> <p>Posters must be brought to the conference.</p>		

5. SYMPOSIA / PANEL DISCUSSION		
Length: 1 500 words	Submission date: 31 July 2019	No revisions required
<p>These are discussions around a central theme or issue where different points of view, approaches, debates or analysis of the same problem are presented.</p> <p>90-minute is allocated for each symposia/panel discussion to enable audience involvement.</p>		
<p>A 1500 word paper (including an abstract of 100-150 word and references) must provide a short outline of the whole symposium, details of each speaker’s contribution and how these come together to create a forum for discussion and debate.</p>		
<p>Reviewers will provide feedback, but no revisions are required.</p> <p>Symposia are not eligible for DHET subsidy.</p>		

ROUNDTABLE COLLABORATIVE DISCUSSION		
Length: Not applicable	Submission date: Not applicable	No revisions: Not applicable
<p>The Roundtable Collaborative Discussion is a new initiative.</p> <p>It will take place before the Gala Dinner on Thursday 16 January.</p> <p>After the papers have been reviewed, presenters who are working in similar fields will be invited by the LoC to share their research with each other.</p> <p>The focus of these sessions is to encourage deeper engagement and open-up possibilities for collaboration.</p> <p>Presenters will not re-present their papers, but will share further aspects/questions relating to their research.</p> <p>Delegates, who are not invited to participate in the roundtable discussion, but who may be interested in similar research, or the possibility of future collaboration, may join the roundtable discussions to ask questions.</p> <p>60 minutes is allocated for the Roundtable Collaborative Discussions.</p>		

C. Paper Presentations *should fall within one of the following Subject Strands:*

Mathematics	Science	Technology
Mathematical Literacy	Natural Sciences	Information & Communication Technology (ICT)
Mathematics	Biology	Engineering
	Chemistry	
	Physics	

Within one of the following Area Strands:

Primary education	Initial teacher education
Secondary education	Continuous teacher education
Tertiary education	Out-of-school education

Criteria for submitting the presentation options are:

Submission Deadline for all options above: Wednesday 31 July 2019

Submission Format:

1. Submit online <https://www.saarmste.org>
2. Click on the green box, on the Home page, labelled ‘SAARMSTE 2020 Paper Submission’
3. Register to submit (everyone, including members need to register).
4. Once registered, a password will be sent to your email address.
5. Login to submit your paper.

Put the title of paper together with author and presenter details in the online presentation information page. Ensuring that the body of the paper has **no identifying information**, (i.e. names of authors, institutions or reference to geographical areas). This is necessary for the blind review process.

Each submission should include an attached Word in Docx format of their paper, (with **NO** identifying information, namely blind paper), to ensure images / tables etc. are seen for reviewing purposes.

Format of paper:

1. Title: bold in capitals 14pt
2. Sub headings bold, sentence case 12pt
3. Body of paper: Times New Roman, 12pt and 1.15 single spacing.

Papers not formatted in accordance with the template will not be included in the review process.

CONFERENCE WRITING CLINIC

The Annual Conference Writing Clinic is planned to develop draft manuscripts and/or short papers into articles for journal submission. The Chief-Editor of AJRMSTE facilitates the Writing Clinic together with members of the Editorial Team.

For short paper authors there is a potential for feedback and the development of a journal article for AJRMSTE or other recommended and accredited journals within Mathematics, Science and Technology Education.

IMPORTANT NOTE: Spaces in the Writing Clinic are limited.

Applications and a DRAFT PAPER must be submitted directly to: Professor Busisiwe Alant, the Chief-Editor of AJRMSTE by 31 October 2019 at Alantb@ukzn.ac.za

DELEGATE REGISTRATION TO ATTEND THE CONFERENCE

All those interested in attending the 2020 SAARMSTE Conference should register online through <https://www.saarmste.org>.

REGISTRATION FEES

There are three different levels of registration fees: member of SAARMSTE (fees have been paid), not a member of SAARMSTE, and over 65 years of age.

Note: If you did not attend the SAARMSTE 2019 Conference, or have not paid membership fees since then, you are not a paid-up member

MEMBERSHIP STATUS	EARLY BIRD (payment received before/on 31 October 2019)	LATE PAYMENT (payment received after 31 October 2019)
Valid 2019 paid up members Discounted conference fee includes 2019 membership fee	R3 800.00 (includes 2020 membership)	R4 100.00 (includes 2020 membership)
Non-members and lapsed members.	R4 350.00 (includes 2020 membership)	R4 650.00 (includes 2020 membership)
Valid 2019 members and over 65 years of age	R1 900.00 (includes 2020 membership)	R1 900.00 (includes 2020 membership)
Daily rate – excludes membership	R1 740.00	R1 860.00

NB: When processing payment, kindly include delegate name and invoice number.

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 EFT or Bank Transfer. Payment by credit card is **not** accepted.

CANCELLATION OF REGISTRATION - The following cancellation penalties apply:

Before 31 October 2019: full refund

Between 31 October and 15 December 2019: 40% refund

After 15 December 2019: 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 the Local organising Committee

Ms Carine Steyn LoC General Enquiries	<i>Email:</i> saarmste2020@gmail.com
--	--

General SAARMSTE queries should be addressed to the SAARMSTE Secretariat

Ms Carolyn Stevenson-Milln SAARMSTE Secretariat	<i>Cell:</i> +27 (0)82 977 9858 <i>Email:</i> saarmste@gmail.com
--	---