



Strengthening Mathematics and Science Education in Africa (SMASE-Africa)



Ministry of Education,
Kenya



CEMASTEA



**17th Conference on Mathematics, Science and Technology Education in Africa
[COMSTEDA 17] and Annual SMASE-Africa Delegates Meeting**

DECEMBER 16th – 20th 2019 IN NAIROBI, KENYA

Theme: *Teacher Professional Development in Africa: Knowledge, Skills and Values in STEM Learning Environments*

ABOUT COMSTEDA

This is a continental platform for educators to share innovative ideas, best practice, and interrogate issues relating to teaching and learning mathematics and science. The aim is to strengthen the capability of youth in Science, Technology, Engineering and Mathematics (STEM) subjects for 21st century living. It brings together educators, policy makers, researchers, teachers, NGOs, and public / private sector stakeholders to present papers, posters, exhibitions and workshop concepts.

ABOUT AUC CESA STEM CLUSTER

The demand to enhance Science, Technology, Engineering and Mathematics (STEM) Education in Africa continues to grow with a view to achieve Sustainable Development Goals (SDGs). CESA is AUC's revolutionary approach for implementing Agenda 2063 & SDG 4 on education. The STEM cluster was launched in 2016 hosted by Kenya with mandate to operationalize CESA Strategic Objective Seven. SMASE-Africa is a member of the cluster. The STEM cluster is co-coordinated by CEMASTE, African Institute for Mathematical Sciences (AIMS) & African Academy of Sciences (AAS). The cluster serves to consolidate information on STEM education in Africa for peer learning, enhance alignment and harmony to facilitate identification and creation of synergies for efficiency and effectiveness. You are invited to join the STEM cluster & the meeting to be held during COMSTEDA 17 forum.

Conference Strands

STRAND ONE

Teacher Professional Development in Africa: Developing Knowledge, Skills, and Values in STEM learning/teaching engagements

1. School-based Teacher Professional Development: Policy, Strategies and Practices
2. Teacher Professional Development for Competency Based Education
3. Promising Approaches in Teacher Professional Development

STRAND TWO

Role of Professional Associations in STEM Teaching and Learning

1. STEM and Professional Organizations
2. Promoting STEM education through linkages with Professional Associations

STRAND THREE

School Culture and Learning in STEM

1. Leadership for Learning: Case Studies on Support and Supervision
2. Creating Space for in / out of school STEM Learning and application
3. Equity and Access in STEM Education
 - a. Gender-based STEM Education
 - b. Inclusive STEM Education for Learners with Special Needs
 - c. Increasing STEM Learning Outcomes for Vulnerable Children

STRAND FOUR

STEM Curriculum Development Implementation and Assessment

1. Learner Engagement: Evidence-based Lessons on STEM / STEAM Education
2. Pre-Service Teacher Development: Abilities, Skills and Values

Key Dates

3rd call for papers: 10th July, 2019
 Final call for papers: 5th August, 2019
 Submission of full papers & registration deadline: 13th September, 2019
 Pre-Conference Events: 16th December, 2019
 Conference dates: 16th – 20th December, 2019

STRAND FIVE

ICT Integration in STEM Education

1. Resources and Solutions for STEM Learning
2. Fun Learning STEM through Games and Robotics
3. Link School and Industry on STEM Education

Session Format

- **Paper:** 20 minutes presentation & 10 minutes QA
- **Poster** presentation includes a graphic presentation of a research study on visual display.
- **Workshops:** In-depth training or learning experiences. Presenters to pre-register for a workshop by submitting a one-page workshop concept note.
- **Innovations:** STEM-based innovations. Show case and exhibit at the conference

Instructions to Authors

- **Paper Abstract:** 250 words: Indicate Strand & Sub-Strand
- **Full paper: Language:** English; **Margins:** 25 mm margins all around; **Line spacing:** 1.15; **Justification:** Full; **Font,** Times New Roman 12; **Referencing,** APA style.
- **Authors:** First name, initials, surname, affiliations and e-mail address.
- **File:** "your name_country.doc". (No PDF)
- **Images:** High resolution Joint Photographic Experts Group (JPEG or JPG) format.
- **Papers:** that meet the above criteria will be published in the Journal on STEM Education in Africa (ISSN2617-6300)

Conference Registration

Registration fees covers admission to conference sessions, lunch, and AM / PM coffee breaks. An additional USD.50 for papers to be included in the Journal on STEM Education in Africa (ISSN2617-6300); Rates applicable for COMSTEDA 17 only

Registration fees USD	Early Bird 30 th Sept, 2019	Normal: 1 st Oct, 2019
MEMBER		
Student	USD 50.00	USD 60
Non-Student	USD 90.00	USD 100
NON-MEMBERS		
Student	USD 90.00	USD 100.00
Non-Student	USD 190.00	USD 200.00
Pre-Conference Side-Events	USD350.00	USD400.00

Send Abstracts / Full papers to:

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Inquiries: info@smase-africa.org

Payments to: Commercial Bank of Africa,
Mamlaka Road Branch;

Account Name: SMASE-Africa

Account No.: 654 356 0017;

S.W.I.F.T. BIC: CBAFKENX

Currency: US Dollar Account

Send Bank slips to:

Email: treasurer@smase-africa.org;

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