

# **AFRICME 3 2010**

Theme

**Mathematics Education as a Leading Edge in the Education For All (EFA) Framework**

**3<sup>rd</sup> AFRICA REGIONAL CONGRESS**

**OF THE**

**INTERNATIONAL COMMISSION ON MATHEMATICAL INSTRUCTION (ICMI)  
[AFRICME 3]**

**18-21 May 2010**

Gaborone, Botswana

**Organized by**



University of Botswana  
Faculty of Education  
Department of Mathematics and Science Education

Under the auspices of



**INTERNATIONAL COMMISSION ON MATHEMATICAL INSTRUCTION (ICMI)**

# CONGRESS COMMITTEES

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Fund Raising Committee Chair

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DMSE Students

and

All members of any of the committees listed above resident in Botswana

## INTRODUCTION

The UN through the Education for All (EFA) Framework aims at the elimination of illiteracy in the whole world. EFA focuses on education from kindergarten to high school and ensures that issues of equity and equality in education are addressed at local level. We acknowledge that mathematics is part of EFA framework and in line with ICMI's aim of promoting international cooperation in mathematics, this congress will provide a forum for mathematics educators, teachers, students, mathematicians, researchers, and policy makers in the African continent and beyond to discuss issues and exchange ideas relating to mathematics education and EFA goals.

The theme of this conference “*Mathematics as a Leading edge in the Education for All (Efa) Framework*” continues the debate initiated in the second and third congresses. For instance, AFRICME 1 which was held at the University of Witwatersrand, South Africa, provided an opportunity for participants to debate issues pertaining to “*Mathematics Teaching and Teacher Education in the Changing Times*”. Discussions in the forum were on emerging trends or patterns in teacher education and mathematics teaching and, in particular addressed inevitable changes resulting from the emergence of technology and research on indigenous knowledge systems. The second congress, AFRICME 2, which was held at Catholic University of Eastern Africa, Kenya, focused on “*Embracing Innovative responses to Challenges in Mathematics Instruction*” which gave participants an opportunity to debate on a myriad of challenges such as shortage of resources, HIV/AIDS, and political unrest, that are hurdles to mathematical instruction in the continent of Africa. AFRICME 3, therefore, is a continuation of this series of debates on what role the subject mathematics, despite these constraints, can play in the governments' endeavor to provide quality, meaningful, and useful education to all.

## PURPOSES OF THE ICMI THIRD AFRICA REGIONAL CONGRESS

The objectives of the third Africa Regional Congress of ICMI are:

1. To provide an opportunity for reflection on AFRICME 1 and AFRICME 2
2. To promote and encourage the exchange of ideas on how mathematics education can contribute to the achievement of EFA goals in the region and beyond.
3. Encourage collaborative and/or comparative research in mathematics education at all levels and disseminating the results for policy consumption
4. To encourage the development of mathematics instructional practices which are relevant to the EFA context
5. To provide a forum for mathematics educators, mathematicians, policy makers, students and teachers to collaborate and discuss the current developments in mathematics education useful for EFA Framework.

## **CONGRESS THEME**

*Mathematics Education as a leading Edge in the Education for All (EFA) Framework*

## **CONGRESS SUBTHEMES**

Papers in the following areas are invited:

1. Teacher preparation and development
2. Gender, HIV/AIDS and other equity issues
3. Instructional, assessment and evaluation issues
4. Applications of mathematics to real life situations
5. Integration of ICT in promoting quality mathematics instruction for all
6. Mathematics education as a critical element in life-long learning or continuous education

## **WHO SHOULD PARTICIPATE IN AFRICME 3?**

The congress invites mathematicians, mathematics educators, teacher educators, teachers, students, curriculum developers, school inspectors, policy makers, researchers, and anybody interested or involved in the teaching and learning of mathematics and EFA framework

## **CONGRESS PROGRAMME AND ACTIVITIES**

### **1. Plenary lectures**

There will be three plenary lectures covering the following topics:

- a. Mathematics education as a leading edge in the EFA Framework
- b. Mathematics education resources and the achievement of universal primary/basic education
- c. Inclusive mathematics education for special needs students

### **2. Symposia**

There will be three symposia covering the topics and will run concurrently

- a. INSET (activities or experiences or best practices) for teachers' professional development in the context of EFA
- b. Promoting Research and Publications in Mathematics Education for All Framework
- c. Mathematics education for (personal) authentic mathematical productions and problem solving applications

### 3. Parallel Presentations

Two types of papers will be presented: long and short papers.

#### *a. Long papers*

- These papers will be reviewed and should report on research studies or major development projects. Time allocated to each paper will be 40 minutes for presentation (25 minutes for input, 15 minutes for discussion). Author(s) should identify the congress strand their paper is addressing.
- Papers should be no more than 8 pages, single space, 14 pt Times New Roman font and 2.5 margins all round.
- **Submit:** A full 8—page paper as well as a one page abstract, DUE DATE: 30 November 2009

#### *b. Short papers:*

Only abstracts will be reviewed. Short papers will cover research in process or theoretical views, and observations on curricula issues or state policies. Time allocated to each paper will be 25 minutes for presentation (15 minutes for input and 10 minutes for discussions). Author(s) should identify the congress strand their paper is addressing. DUE DATE: 30 November 2009

### 4. Teachers and Students' workshops

### 5. Poster presentations

### 6. Workshops for primary and secondary teachers

### 7. National Presentations

The national presentations will be based on the topic: **Embracing ICT into mathematics instruction: Country experiences/efforts**. The content of the paper may include:

- ICT and the school mathematics curriculum
- ICT in teaching and learning school mathematics: opportunities and challenges.
- ICT in mathematics teacher preparation
- Provision for teacher support on ICT use in mathematics instruction
- Other Challenges on ICT use in school mathematics

The suggested format for national presentations is given below. Authors are advised to adhere to this format so uniformity could be achieved. The length should be 15 pages with a 14 point Times New Romans font. DUE DATE: 30<sup>th</sup> November 2009.

#### **NATIONAL PRESENTATION FORMAT**

##### *Abstract*

- An abstract which is approximately 100-150 words giving an overview of the content in your paper. Clearly state the purpose of the paper and summarize its content.

### ***Introduction***

- Describe the general perspective of your paper and specify its objectives towards the end.

### ***Background***

- set the context of the paper—your education system and the efforts made in implementing EFA goals,
- use literature review to support your line of thinking

### ***Main thrust of the paper***

- issues pertaining to integration of technology in the various aspects of mathematics education above (i.e. curriculum, implementation and teacher preparation and support)
- challenges and opportunities, etc

### ***Suggestions and Recommendations on implementing the EFA and millennium goals***

- Use of technology to make mathematics accessible to all students
- Use of technology to improve the quality of mathematics instruction, etc

### ***Conclusion***

- The overall discussion of the paper and concluding remarks

### ***References***

- Strictly follow the APA style of referencing. Use the 5<sup>th</sup> edition of the APA manual.

## **COORDINATORS FOR NATIONAL PRESENTATIONS**

The responsibility of country coordinators is to make sure that their respective countries submit reports on how ICT is integrated in mathematics teaching.

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Interested countries not listed above are also invited to submit national reports.

## REGISTRATION AND TRANSPORT COSTS

Registration costs include CD, teas, lunch, and registration package

- Registration fee by November 2009: P1000.00.
- Registration after November 2009: P1100.00

### Special rates:

- Students P750.00
- Local practicing teachers: P750.00

## VISAS AND TRAVELING INFORMATION

Visitors requiring visas into the country are advised to contact the nearest embassy or consulate. If you require a letter for the purposes of applying for a visa then send an email to Dr Luckson M. Kaino at [dmse@mopipi.ub.bw](mailto:dmse@mopipi.ub.bw) . Telephone: (267) 355 2170/355 2175

Air traveling participants should book flights landing at Sir Seretse Khama International Airport. A shuttle service will be available for transportation from the airport to the place of venue at a price of P80.00. If you opted for accommodation outside the venue please arrange for your own transportation. For more information on travelling visit our Airline website: [www.airbotswana.co.bw](http://www.airbotswana.co.bw) or make arrangements with travel agents of your choice.

## ACCOMONDATION COSTS

### Students' Hostel Accommodation:

- Single rooms: BWP 33.00
- Double: BWP 66.00

- Masters self catering rooms, single rooms and shared ablutions BWP 80.00

**Alternative Accommodation:**

Participants may book at the following places.

Name & Room type	Rates in BWP	Contact Information	Km's from Venue
<b>Mondior Summit</b>			1.2
Studio room	1005.00	<b>Tel:</b> (267) 319 0600	
1 Bedroom suite	1240.00	<b>Fax:</b> (267) 319 0660	
2 Bedrooms suite	1770.00	www.mondior.com/gaborone	
<b>Lolwapa lodge</b>			A walking distance
Standard Room Single	320.00	<b>Tel:</b> (267) 3184865	
Standard Room Double	350.00	<b>Fax:</b> (267) 3184865	
Executive Room Single	360.00		
<b>Motheo Apartments</b>			2
Studio apartment	568.00	<b>Tel:</b> (267) 318 1587	
1 bedroom	614.00	<b>Fax:</b> (267) 318 1741	
2 bedrooms	952.00		
Town house	1030.00		
<b>Oasis Motel:</b>			6
Standard	432.00	<b>Tel:</b> (267) 392 8396	
Executive	487.00	<b>Fax:</b> (267) 392 8568	
<b>Metcourt Inn</b>			8
Standard Room	520.00	<b>Tel:</b> (267) 363 7905	
Executive Room	580.00	<b>Fax:</b> (267) 3910402	
<b>Cresta lodge</b>			2.5
Standard Room	900.00	<b>Tel:</b> (267) 397 5375	
		<b>Fax:</b> (267) 390 0635	
<b>Gaborone Sun</b>			1
Standard Bed & breakfast	1135	<b>Tel:</b> (267) 361 6000	
Luxury	1900	<b>Fax:</b> (267) 390 2555	
Suite	2600	www.suninternational.com	
Presidential	3600		

**METHOD OF PAYMENT**

Payment can be made in any one of the two methods below:

**1. Direct deposit or money transfer:**

Fees may be deposited directly into the Conference bank account. Banking details are as follows:

Account Name: UNIVERSITY OF BOTSWANA (WS48-DMSE AFRICME CONFERENCE)  
Name of Bank: STANDARD CHARTERED  
Branch Name: MALL BRANCH  
Bank Address: P.O. Box 1529  
City &Country: GABORONE, BOTSWANA  
Account Number: 0100110109600  
Type of Account: CURRENT ACCOUNT  
Branch code: 662167  
Swift/BIC code: SCHBBWGXAXXX

**As a reference** on the deposit slip or transfer notice, please state your **surname and SMEP**.  
Please fax a copy of the deposit slip or transfer notice to Dr L. M. Kaino at +267 355-4416/318-5096 or post to: Department of Mathematics and Science Education  
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## 2. Cheques

Please make cheques payable to the University of the Botswana, in the name UNIVERSITY OF BOTSWANA (WS48) and send to:

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## IMPORTANT DATES

<b>Indication of interest to attend AFRICME 3</b>	<b>December 31 2009</b>
Submission of <b>full long papers</b>	December 31 2009
Submission of <b>country reports</b>	November 30 2009

Submission of <b>abstracts</b> for all other presentations	December 31 2009
<b>Review feedback</b> on long papers and abstracts	January 31 2010
<b>Review feedback</b> on country reports	December 31 2009
Submission of <b>FINAL country reports</b>	February 28 2010
<b>Reservation</b> of accommodation (Student hostels)	March 31 2010
Submission of <b>ALL final papers</b>	February 28 2010
<b>Final registration</b> with payment	April 15 2010

## CONFERENCE GUEST SPEAKERS

### Plenary sessions

#### **Plenary 1: Mathematics education as a leading edge in the EFA framework**

Presenter: Professor Edward M. Lungu: University of Botswana

#### **Plenary 2: Mathematics education resources and the achievement of universal primary/basic education**

Panel members: Dr P. A. Chakalisa, Botswana

- Dr Mercy Kazima, Malawi
- Professor Sitsofe Anku, Ghana
- Professor Verdiana Grace Masanja, Rwanda
- Professor Prof Nouzha El Yacoubi, Morocco

#### **Plenary 3: Inclusive mathematics education for special needs students**

Presenter: Professor Michele Mazzocco: Johns Hopkins School of Medicine, USA

### Symposia sessions

#### **Symposium 1: INSET best practices for teachers' professional development in the context of EFA**

Presenter: Prof Jill Adler, University of Witwatersrand, South Africa

#### **Symposium 2: Promoting Research and Publications in Mathematics Education for All Framework**

Presenter: Prof Cyril Julie, South Africa + Norway

#### **Symposium 3: Mathematics education for authentic mathematical productions and problem solving applications**

Presenter: Mr Lazarus Mudehwe, University of Zimbabwe

### Teacher and graduate students Workshop

#### **Workshop 1: Researching classrooms to embrace every student**

Presenters: Prof Jill Adler: University of Witwatersrand & Dr K.G. Garegae: UB

## Registration form

Complete the form below and send it by email, fax or post to Ms Victoria Bashapi

**Email:** [dmse@mopipi.ub.bw](mailto:dmse@mopipi.ub.bw)

**Fax:** +267 355-4416/318-5096

**Post:** Department of Mathematics and Science Education, University of Botswana,  
Pvt Bag UB 0702, Gaborone, Botswana

REGISTRATION FORM		
Title: <i>Dr/Prof/Mr/Mrs/Ms</i>	Initials:	First name/s:
Surname:		
Institution/Organisation		
Postal address:		
Country:		
Phone number:		
Fax number:		
E-mail:		
Are you a presenter?:		
Type of presentation;		
Title of presentation:	Long paper [   ] Short paper [   ] National presentation [   ]	
Do you require University accommodation?		
Dietary Requirements:		
Disability:		
Registration fees paid:		
Accommodation fees paid:		
Total amount paid:		