



## **XIIIth INTERAMERICAN CONFERENCE ON MATHEMATICS EDUCATION**

<http://xiii.ciaem-iacme.org>

**A regional meeting associated with the  
International Commission on Mathematical Instruction  
(ICMI)**



June 26 to 30, 2011  
Federal University of Pernambuco  
Recife, BRAZIL

### **SECOND ANNOUNCEMENT**

#### **INTRODUCTION**

The *Interamerican Committee on Mathematics Education (IACME)* invites mathematics education teachers, researchers, specialists and students from throughout the Americas to the *XIIIth Interamerican Conference on Math Education (IACME XIII)* that will be held in Recife, Brazil, June 26-30, 2011, at which time IACME will be celebrating its 50<sup>th</sup> anniversary.

IACME was the first regional group created by the *International Commission on Mathematical Instruction (ICMI)*, and since its inception it has been given the task of promoting and disseminating the collaborative work of researchers and other math education professionals throughout the American continents and the Caribbean. It also strengthens the spirit of solidarity and brotherhood among the

peoples of the region through the participation of those with different positions in the construction of the new discipline of mathematics education within the social sciences.

IACME is the heir to the tradition of academic endeavors of such renowned figures as Marshall Stone, Luis Santaló, Ubiratan D'Ambrosio, and others, who have used this organization to dedicate their total attention to the rigorous academic formation of new generations of math educators, a critical mass that is confronting new areas of action and making important contributions. IACME's history in <http://www.ciaem-iacme.org>

That is why IACME wishes to share its 50th anniversary with the math education professionals and students in the region. Since its birth, IACME has been charged by ICMI not only to provide a forum for the interchange of opinions on academic issues, but also to renovate our bonds of solidarity and ratify our conviction for the culture of compromise, tolerance, equity and professionalism we have inherited from our founders.

To celebrate IACME's 50<sup>th</sup> anniversary, we have chosen Recife, that magnificent site in Brazil, as the venue for the IACME XIII. There will be opportunities to enjoy Recife's natural beauty, as well as the possibility to know the advances that have been made by the community of Brazilian math educators who will share their professional accomplishments with math educators from throughout the Americas and other parts of the world. Also, as IACME is a regional affiliate of ICMI there will be an opportunity to interact with leaders of that most important math education organization in the world.

**Official Languages:** Spanish, Portuguese, English and French

## ABOUT THE SITE



## **Recife**

The city of Recife – located in the northeast of Brazil – is known for its hospitable inhabitants, pleasant climate (mean of 82°F), excellent hotels and a great variety of tourist attractions.

## **Federal University of Pernambuco**

The Federal University of Pernambuco (UFPE) is considered to be one of the best institutions of higher education in Brazil. UFPE offers dozens of degree programs – including math teacher preparation – and over 100 graduate programs – some with a focus on research in math education.

In particular, in the area of Math Education, UFPE is distinguished for having diverse groups involved in research in that field as well as both pre-service and in-service math teacher preparation. Recently, UFPE has implemented a master's degree in Math Education and Technology – EDUMATEC.

We trust that the hospitality of northeastern Brazil, built on a mix of Indigenous, European and African peoples, is an invitation to participants for us to join together to search for a better future for Math Education in the Americas.



## **THEMES**

### **Central**

1. Preparation of Math Teachers
2. Problem Solving and Modeling in Math

### **Others**

3. Technology and Teaching of Math
4. History and Epistemology of Math Education
5. Ethnomathematics and Sociocultural Perspectives
6. Curriculum Development in Mathematics
7. Evaluation of Mathematical Learning
8. Research in Math Education
9. Professional Competencies in Math Education
10. Statistics and Probability in Math Education
11. International Comparative Studies of Math Tests
12. Sociology of Math Education
13. Videos and Multimedia and Math Education
14. New Emphases and Tendencies in Math Education

## SCIENTIFIC COUNCILS

### International Advisory Committee

#### Members

1. Alain Kuzniak (France, Director of the Laboratoire *André Revuz*, Université Paris-Diderot).
2. Alicia Ávila (Mexico, Universidad Pedagógica Nacional)
3. Bernard Hodgson (Canada, Secretary General of ICMI, 1999-2009).
4. Bill Barton (New Zealand, President ICMI 2010-2012)
5. Carlos Vasco (Colombia, Past President CIAEM-IACME)
6. Eduardo Luna (República Dominicana, Past President CIAEM-IACME)
7. Fidel Oteiza (Chile, Director Centro *Comenius*, Past President CIAEM-IACME)
8. Hyman Bass (United States, Past President ICMI)
9. Jaime de Carvalho e Silva (Portugal, Secretary General of ICMI 2010-2012)
10. María Falk de Losada (Colombia, President of the Universidad Antonio Nariño)
11. María Salett Biembengut (Brasil, Past President of CIAEM-IACME)
12. Michael Shaughnessy (United States, President of NCTM 2010-2011)
13. Paulo Figueiredo Lima (Brazil, President of SBEM).
14. Salvador Llinares (Spain, Past President of SEIEM 1999-2002)
15. Ubiratan D'Ambrosio (Brazil, Past President of CIAEM-IACME)

#### Presiding

- Angel Ruiz, (Costa Rica, President CIAEM-IACME, Vice Presidente ICMI 2010-2012).

CIAEM: *Comité Interamericano de Educación Matemática, Comitê Inter-Americano da Educação Matemática.*

IACME: *Inter American Committee of Mathematics Education.*

ICMI: *International Commission on Mathematical Instruction.*

NCTM: *National Council of Teachers of Mathematics* of the United States of America.

SBEM: *Sociedade Brasileira de Educação Matemática* de Brasil.

SEIEM: *Sociedad Española de Investigación en Educación Matemática*

### International Program Committee

#### Members

- Álvaro Poblete, Chile ([apoblete@ulagos.cl](mailto:apoblete@ulagos.cl))
- Anna Paula Avelar, Brasil ([apbrito@gmail.com](mailto:apbrito@gmail.com))
- Arno Bayer, Brazil ([bayer@ulbra.br](mailto:bayer@ulbra.br))
- Beatriz S. D'Ambrosio, USA-Brazil ([dambrobs@muohio.edu](mailto:dambrobs@muohio.edu))
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- Eliana Rojas, USA-Chile ([Eliana.Rojas@uconn.edu](mailto:Eliana.Rojas@uconn.edu))
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- Patricia Camarena, Mexico ([patypoli@prodigy.net.mx](mailto:patypoli@prodigy.net.mx))
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- Tânia Campos, Brazil ([taniammcampos@hotmail.com](mailto:taniammcampos@hotmail.com))
- Vitor Giraldo, Brazil ([victor@im.ufrj.br](mailto:victor@im.ufrj.br))
- Viviana Camara, Argentina ([vcamara@fce.unl.edu.ar](mailto:vcamara@fce.unl.edu.ar))

#### **Presiding**

- Eduardo Mancera (Mexico, Vice President IACME, [eduardo\\_mancera@prodigy.net.mx](mailto:eduardo_mancera@prodigy.net.mx))

#### **Local Organizing Committee**

##### **Presiding**

- Rute Borba, Brazil ([rborba@ce.ufpe.br](mailto:rborba@ce.ufpe.br) , [borba@talk21.com](mailto:borba@talk21.com) )
- Carlos Monteiro, Brazil ([cefmonteiro@uol.com.br](mailto:cefmonteiro@uol.com.br), [cefmonteiro@hotmail.com](mailto:cefmonteiro@hotmail.com) )

##### **Members**

- Ana Selva ([anaselva@globo.com](mailto:anaselva@globo.com))
- Franck Bellemain ([f.bellemain@terra.com.br](mailto:f.bellemain@terra.com.br))
- Gilda Guimarães ([gilda@ufpe.br](mailto:gilda@ufpe.br))
- Iranete Lima ([iranetelima@yahoo.com.br](mailto:iranetelima@yahoo.com.br))
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- Verônica Gitirana ([veronica.gitirana@gmail.com](mailto:veronica.gitirana@gmail.com))

## ACADEMIC PROGRAM

### Special Invited Speakers\*

- Alan Schoenfeld (USA)
- Bill Barton (New Zealand)
- Michèle Artigue (France)
- Mogens Niss (Denmark)
- Ubiratan D'Ambrosio (Brazil)
- Carlos Vasco (Colombia)
- César Carranza (Peru)
- Claude Gaudin (Canada)
- Ed Jacobsen (USA)
- Eduardo Luna (Dominican Republic)
- Fidel Oteiza (Chile)
- Luis Carlos Arboleda (Colombia)
- Luis Moreno Armella (Mexico)
- Luz Manuel Santos (Mexico)
- Marcelo Borba (Brazil)
- Paulo Figueiredo (Brazil)
- Ricardo Losada (Colombia)
- Salvador Llinares (Spain)

\*Keynote Activities

### Panel Session: *IACME: 50th Anniversary.*

A panel with protagonists from IACME's first 50 years.

- César Carranza (Peru)
- Claude Gaudin (Canada)
- Ed Jacobsen (USA)
- Ricardo Losada (Colombia)
- Ubiratan D'Ambrosio (Brazil)

Moderator: Eduardo Luna (Dominican Republic)

### Keynote Round Tables

- *Round Table 1: How Can Teacher Education Programs Promote the Use of Problem Solving in Math Education?*
- *Round Table 2: The Intellectual Contribution of Ubiratan D'Ambrosio to Math Education.*
- *Round Table 3: How Is Math Education Curriculum Being Impacted by Technology?*

## **Parallel Round Table**

### *Math Education and Comparative Historical Studies*

- José Manuel Mattos (Portugal).
- María Teresa Astudillo (Spain).
- Renaud D'Enfert (France).
- Luis Carlos Arboleda (Colombia).
- Wagner Rodrigues Valente (Brazil).

## **Minicourses y Dialogues**

IACME XIII will have *Minicourses* on special themes and *Dialogues* with keynote presenters or other renowned math educators in 2 or 3 hour sessions. The *Dialogues* are conversations in which it will be possible to have profound explorations of themes presented in the keynote addresses. Both modalities will be at the invitation of the *International Program Committee*.

## **Luis Santaló Medal**

The IACME Executive Committee will present the first *Luis Santaló* Medal to an educator and friend of IACME whose efforts within international educational institutions have contributed greatly to the development of IACME.

## **The IACME Network for Math Education Students**

It is hoped that many students of Math Education from throughout the Americas will participate in IACME XIII. Our vision is that the new generations of math educators that are being prepared are called to play a transcendental role in the progress of the teaching and learning of mathematics.

IACME will not only offer special conditions for students (registration fee at half price, lodging at a much reduced rate, “meal scholarships”, etc.) but will also offer space within the academic program and hopes that a formal *IACME Network for Math Education Students* will be created. The website of IACME XIII will have a special space for promoting this interchange and perspective.



## CALENDAR OF ACTIVITIES

	Sunday	Monday	Tuesday	Wednesday	Thursday				
9.00-9.30		Keynote Address 2	IACME: 50th Anniversary	Keynote Address 4	Keynote Address 5				
9.30-10.00		Coffee	Coffee	Coffee	Coffee				
10.00-10.30									
10.30-11.00									
11.00-11.30	Registration					Parallel Presentations 1	Parallel Presentations 2	Parallel Presentations 3	Parallel Presentations 4
11.30-12.00	Lunch	Lunch	Lunch	Parallel Presentations 5					
12.00-12.30									
12.30-13.00	Registration	Lunch	Lunch	Lunch	Lunch				
13.00-13.30									
13.30-14.00									
14.00-14.30									
14.30-15.00									
15.00-15.30						Round Table 1	Communications, Minicourses, Dialogues, Workshops, Posters	Communications, Minicourses, Dialogues, Workshops, Posters	
15.30-16.00									
									Round Table 3
							Round Table 2		
16.00-16.30	Break								
16.30-17.00									
17.00-17.40	Opening Ceremony Presentation of the <i>Luis Santaló</i> Medal	Coffee	Coffee	Coffee	Closing				
17.40-18.00		Keynote Address 3	Communications, Minicourses, Dialogues, Workshops, Posters	Communications, Minicourses, Dialogues, Workshops, Posters					
18.10-18.30	Keynote Address 1								
18.40-19.00									
19.10-19.30									
19.30-19.40	Cultural Activity & Welcoming Cocktail	Cultural Activity							
20.00-21.00				Group Meetings	Group Meetings				
21.00-22.00									

### Communications, Minicourses, Dialogues, Workshops and Posters (Tuesdays & Wednesdays)

14.00-14.20	Communications	Dialogues & Minicourses A, 3 hours	Workshops A, 3 hours	Poster Presentations
14.30-14.50				
15.00-15.20				
15.30-15.50				
16.00-16.20				
16.30-16.50				
17.00-17.40	Coffee	Coffee	Coffee	Coffee
17.40-18.00	Communications	Dialogues y Minicourses B, 2 hours	Workshops B, 2 hours	Poster Presentations
18.10-18.30				
18.40-19.00				
19.10-19.30				
19.30-19.40				

## PROPOSALS FOR PRESENTATIONS

### Dates

- Reception of proposals (**August 1 to November 30, 2010**).
- Indication of acceptance (**December 1, 2010 to February 28, 2011**).
- In some cases the *International Program Committee* might request corrections or improvements to proposed presentations which must be returned by **March 31, 2011**.
- To ensure the inclusion of a presentation in the Conference Program at least one of the presenters of each presentation must register (including payment of the Conference registration fee) by **May 15, 2011**.
- Presenters that in fact make their presentations will receive a Certificate. Only persons who actually attend the Conference will receive Certificates.

The time and room schedule will be posted a few weeks prior to the Conference on the Conference website.

### Presentation Modalities

The Conference will accept proposals for the following kinds of presentations: Scientific Communications, Workshops (2 or 3 hours), and Posters.

Some proposals may be placed in the program as “Parallel Presentations” according to the recommendation of the *International Program Committee*.

### Length of Proposals

- Communications: 8-12 pages.
- Posters: 3-6 pages.
- Workshops: 3-6 pages.

*Also*

- Keynote Addresses and Parallel Presentations: up to 15 pages.
  - Minicourses: 8-12 pages
- Selected by the *International Program Committee*.

### Procedures and Format for Proposals

IACME will only accept complete proposals (no summaries). The procedures and format for proposals can be found at the official Conference website: <http://xiii.ciaem-iacme.org>

After the publication of the official Program there will be no changes in dates and times.

Each presenter should provide a laptop for their presentation.

## **REGISTRATION**

You can register for IACME XIII on the official website for the event: <http://xiii.ciaem-iacme.org>

### **Registration Fees**

- August 2010-March 2011: \$150US (\$75US, students\*)
- April 2011-May 2011: \$180US (\$90US, students\*)
- June 2011: \$200US (\$100US, students\*)

\* Only for currently registered undergraduate and graduate students. They should present their official student identification in order to register, receive Conference materials, a Certificate of Participation and to attend Conference activities.

To receive Conference materials it will be necessary to present proof of payment of the Registration Fee: Copy of the bank deposit or copy of credit card payment..

## **EXHIBITORS**

Those who would like to exhibit materials and make contacts, pre-sales or direct sales of their materials and services should communicate directly with Rute Borba ([rborba@ce.ufpe.br](mailto:rborba@ce.ufpe.br)) and Carlos Monteiro ([cefmonteiro@uol.com.br](mailto:cefmonteiro@uol.com.br)) (local coordinators of the event) in order to discuss exhibitor fees and other requirements.

## **HOTELS AND TOURISM**

MARTUR Viagens e Turismo is the official tourist agency with which you can make reservations for hotels and tourist packages.

Rua: Dr. Nilo Dornelas Câmara, 90 – lj. 02  
Boa Viagem  
51.021-040  
Recife – PE  
Brasil

Tel. 55 (81) 3312.3666

[martur@martur.com.br](mailto:martur@martur.com.br)

[www.martur.com.br](http://www.martur.com.br)

For more information on hotels and tourist packages see the IACME XIII webpage.

## IACME

The *Interamerican Committee on Math Education* (IACME) is a regional organization that has been associated with the *International Commission on Mathematical Instruction* (ICMI) since its inception. It shares ICMI's purpose in promoting research in Math Education.

IACME was founded in 1961 by a group of mathematicians and math educators from the three Americas, led by the famous mathematician, Marshall Stone, from the United States, who was at the time the President of ICMI. The principal objective of IACME was to bring together educators from throughout the Americas to evaluate and reformulate mathematics curricula in general, but, especially, to promote the development of the countries of Latin America. The first *Interamerican Conference on Math Education* was held in Bogotá, Colombia, in December of 1961. There the first Executive Council of IACME was created. The second *Interamerican Conference on Math Education* was held in Lima, Peru, in 1966.

These first Conferences prompted a productive movement for Math Education in the Americas, despite the challenges of geography, communication, and, principally, the economy. From the beginning the Conferences have been held regularly: Bahía Blanca, Argentina, November, 1972, 209 participants from 22 countries; Caracas, Venezuela, December, 1975, 281 participants from 22 countries; Campinas-SP, Brazil, February, 1979, 569 participants from 28 countries; Guadalajara, Mexico, November, 1985, 180 participants from 24 countries; Santo Domingo, Dominican Republic, July, 1987, 316 participants from 22 countries; Miami, USA, August, 1991, 141 participants from 21 countries; Santiago, Chile, August, 1995, 1080 participants from 17 countries; Maldonado, Uruguay, August, 1999, 600 participants from 20 countries; Blumenau, Brazil, August, 2003, 600 participants from 20 countries, and, finally, in Querétaro, Mexico, in July, 2007, with more than 800 participants.

IACME puts an emphasis on the academic and scientific quality of the event, and on the presentation of research results and serious proposals for improving math education.

Since its creation in 1961, the following persons have occupied the Presidency of IACME: Marshall Stone (1961-1972), Luis Santaló (1972-1979), Ubiratan D`Ambrosio (1979-1987), Eduardo Luna (1987-1995), Fidel Oteiza (1995-1999), Carlos Vasco (1999-2003), Salett Biembengut (2003-2007) and Ángel Ruiz (2007-2011).

In the 11<sup>th</sup> *International Congress on Math Education* (ICME 11) Ubiratan D`Ambrosio received the 2005 *Felix Klein* Medal from ICMI for his meritorious achievements and the results of his life-long dedication to Math Education.

### **Executive Council 2007-2011**

President: [Ángel Ruiz](#) (Costa Rica).

First Vice Presidente: [Eduardo Mancera](#) (Mexico).

Second Vice President: [Patrick Scott](#) (USA).

Secretary: [Hernán Miranda](#) (Chile).

Past President: [Salett Biembengut](#) (Brazil)

Member-at-Large: [Hugo Barrantes](#) (Costa Rica).

## ICMI

La *International Commission on the Teaching of Mathematics* (*Commission Internationale de l'Enseignement Mathématique, Internationale Mathematische Unterrichtskommission, Commissione Internazionale dell'insegnamento matematico*) was founded during the *IVth International Congress of Mathematicians* (Rome, April 6-11, 1908). The first President of ICMI was Felix Klein, the first Vice President G. Greenhill and the first Secretary General H. Fehr.

With the creation of the *International Math Union* (IMU) after the Second World War, ICMI was reconstituted as a Commission of IMU. In 1954, the second General Assembly of IMU changed the name to the *International Commission on Mathematical Instruction*.

The most important event for the international math education community is the *International Congress on Mathematical Education* (ICME), that is held every four years, under the auspices of ICMI.

The venue for each ICME is selected by the Executive Committee of ICMI. The scientific program is planned by the *International Program Committee* (IPC) that works independently from the Executive Committee.

Past Congresses:

	<b>Year</b>	<b>City</b>	<b>Country</b>
1	1969	Lyon	France
2	1972	Exeter	Great Britain
3	1976	Karlsruhe	Germany
4	1980	Berkeley	United States
5	1984	Adelaide	Australia
6	1988	Budapest	Hungary
7	1992	Quebec	Canada
8	1996	Sevilla	Spain
9	2000	Tokyo	Japan
10	2004	Copenhagen	Denmark
11	2008	Monterrey	Mexico

## ADDRESSES AND REFERENCES

### Websites

Official Conference Page: <http://xiii.ciaem-iacme.org>

E-mails:

Academic Program: [mancera.eduardo@gmail.com](mailto:mancera.eduardo@gmail.com)

Organization: [ciaem2011@ce.ufpe.br](mailto:ciaem2011@ce.ufpe.br)

IACME webpages:

- <http://www.ciaem-iacme.org>
- <http://www.cimm.ucr.ac.cr/ciaem>
- <http://www.furb.br/ciaem>

### Recife

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50.740-530 – Recife, PE, Brasil
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**We hope to see you in Recife for IACME XIII**

**1961-2011: 50 YEARS OF IACME**



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Comité Interamericano de Educación Matemática

Comitê Interamericano de Educação Matemática

Inter American Committee of Mathematics Education

Grupo regional de la International Commission on Mathematical Instruction ICMI, fundado en 1961.