



CENTRE INTERNATIONAL DE MATHÉMATIQUES PURES ET APPLIQUÉES
INTERNATIONAL CENTRE FOR PURE AND APPLIED MATHEMATICS

A presentation to EMS-CDC
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by
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dépasser les frontières



CENTRE INTERNATIONAL DE MATHÉMATIQUES PURES ET APPLIQUÉES
INTERNATIONAL CENTRE FOR PURE AND APPLIED MATHEMATICS



CIMPA's mission

The training of mathematicians from developing countries

To this end CIMPA organizes Research Schools, supports activities in partnership with continental mathematical societies as well as funding for training in research.

CIMPA's collaborations

EMS-CDC: funding for students etc.

- **IMU-CDC:** master programme in Cambodia, support for almost all CIMPA Schools (both financial and organizational)
- **ICTP, AIMS:** joint CIMPA Schools
- **Argentina, Morocco, Brazil, Mexico** etc.: support for School in the regions
- **CARMIN:** “laboratory of excellence” with IHP, IHES, CIRM

CIMPA's history

CIMPA is:

- a non-profit organization created in 1978. Mathematicians working for mathematicians. Offices in Nice, France
- mainly funded by France. More recently also funded by Spain, Norway and Switzerland
- a category 2 UNESCO Centre since the 90's.

EMALCAs, AMS, SEAMS etc.

We support research training schools (at the M.Sc. Level) in collaboration with continental mathematical societies, very often just before and in preparation for a CIMPA School.

AMS with the African Mathematical Union

WAMS West Asia Mathematical Schools

SEAMS with South East Asian Mathematical Society

EMALCA with UMALCA (Latin America)

Workshop for women mathematicians in Africa

EMALCAs, AMS, SEAMS and WAMS

AMS 2015 with the African Mathematical Union

- Franceville, Gabon, 23/03 – 03/04
- Ziguinchor, Sénégal, 23/03 - 03/04
- Cap Vert, 13/04 – 28/04
- Yamoussoukro, Ivory Coast, 01/06 – 13/06
- Makerere, Ouganda, 06/07 – 17/07
- Yaoundé, Cameroun, 07/09 – 26/09
- Marrakech, Maroc, 12/10 – 30/10

West Asia Mathematical Schools 2015

- Erbil, Kurdistan-Irak, 19/04 – 30/04

Home > Activities by region > Sub-Saharan Africa > Announcements and various informations > Call for proposals 2015 for AMS (African Mathematical Schools)

Call for proposals 2015 for AMS (African Mathematical Schools)

by RS AS2 - 23 November 2014
[Version française](#)

Since the summer of 2009, the AMU, under the presidency of Saliou Toure (Ivory Coast), with Secretary-General Daniel Makinde (South Africa) has drawn up a strategic action plan and has been developing its activities: relaunch of Afrika Matematika with Springer and an international scientific committee, web site, distribution list and organization of African Mathematical Schools (AMS) in partnership with CIMPA.

What follows is the call for proposals for schools in 2015

African Mathematical Schools (AMS)

Call for Application 2015

- ▶ Deadline to submit the application: October 1st, 2014
- ▶ Time frame: Schools to be held between January 1st and December 31th, 2015

The application, consisting of a detailed project for a mathematical school, should be sent to both the African Mathematical Union (AMU) and CIMPA

EMALCAs, AMS, SEAMS and WAMS

These are historically the first such schools and have been going on successfully for many years.

EMALCAs 2015, with Union de Matematicos de America Latina y el Caribe

- Perou - Piura - 03/08 - 14/08
- Argentina - Tucuman - 11/08 - 22/08
- Venezuela - Mérida - 30/08 - 04/09
- Bolivia - Copacabana - 14/09 - 26/09
- Nicaragua - Leon - 07/12 - 16/12
- Mexico – Puebla – 15/06 – 26/06



The image shows a screenshot of the EMALCA website. At the top, there is a logo for UMALCA (Unión Matemática de América Latina y el Caribe) with a map of Latin America and the Caribbean. Below the logo, there is a navigation menu with the following items: ACERCA DE UMALCA, UMALCA, Autoridades de UMALCA 2013-2016, Premio UMALCA, E-mail de Umalca, NOTICIAS, NOTICIAS 2014 -2013, 2012,2011,2010,2009, LIBROS, DINÁMICA DEL MÉTODO DE NEWTON, EVENTOS, Próximos EVENTOS, Otros EVENTOS, and Actividades CIMPA. The main content area is titled "EMALCAS" and features a date stamp "Ene 06 2015". Under "EMALCAS 2015", there is a call for proposals: "Llamado único a la presentación de propuestas para la realización de EMALCAS para el año de 2015" and "Resolución Comité EMALCA llamado 2015". Under "EMALCAS 2014", there are several links to reports: "Propuestas EMALCAS 2014", "Resolución Comité EMALCA Llamado 2014", "EMALCA BOLIVIA 2014 INFORME FINAL", "EMALCA Tuxtla Gutierrez, Chiapas, Mexico, 21 Julio al 1 de Agosto 2014 INFORME FINAL", "EMALCA Costa Rica, 10 al 21 Febrero 2014 INFORME FINAL", "EMALCA VENEZUELA, XXVII Escuela Venezolana de Matemáticas INFORME FINAL - LISTADO EMV", "EMALCA COLOMBIA, 6 al 17 de Octubre 2014 - INFORME FINAL", "EMALCA PERÚ, Cusco, 20 al 31 Octubre 2014 - INFORME FINAL", and "EMALCA ARGENTINA, Puerto Madryn, del 3 al 15 de Noviembre del 2014 - INFORME FINAL".

EMALCAs, AMS, SEAMS and WAMS

SEAMS 2015 schools with the South East Asian Mathematical Society

- Hanoi – Vietnam, 01/03 – 15/03
- HCMC – Vietnam, 31/08 – 08/09
- Sanata Dharma, Yogyakarta, Indonesia, 07/09 – 15/09
- Makassar, South Sulawesi, Indonesia, 28/09 – 06/10
- Serdang, Selangor, Malaysia, 02/10 – 10/10
- Gajah Mada, Yogyakarta, Indonesia, 09/11 – 17/11



FUNDING FOR TRAINING IN RESEARCH

- Priority in the most mathematically or economically deprived areas, and very specially in Africa
- Projects (between 2 to 4 weeks) for teaching at Master level
- Each year we fund about 10 such projects, with average support of 1000 euros per project

CIMPA school Laos 2014



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CIMPA Research Schools

- Open call every year: proposals for two-week schools come from everywhere, some are encouraged by CIMPA members,
- the road-map is crucial, organization is local with help from CIMPA, using a North-South-South format.
- the Scientific Council evaluates and makes recommendations,
- the Steering Council selects around 20 research school projects.
- the lecturers and organizers are all voluntary

CIMPA Research Schools

The Scientific Council

- Jean-Marc Azais, France, probability and statistics
- Viviane Baladi, France, dynamical systems
- Edy Baskoro, Indonesia, graph theory
- Susanne Brenner, USA, numerical analysis
- Carlo Di Prisco, Venezuela, logic
- Marisa Fernandez, Spain, differential geometry
- Helena Nussenzveig Lopes, Brazil, PDE, fluid dynamics
- Yousef Ouknine, Morocco, probability, stochastic equations
- Ragni Piene, Norway, algebraic geometry
- Ramdorai Sujatha, India, number theory, K-theory
- Cedric Villani, France, stat phys, optimization, Riem geom.
- Enrique Zuazua (chair), Spain, PDE, control, num. analysis



CIMPA Research Schools

THE ROAD MAP

A detailed document setting out how each School project is set prepared, how each School is organized, and how it is evaluated afterwards

- On the CIMPA side, the Director, the Regional Scientific Officers, the Secretariat, help with the organization.
- There are Regional Scientific Officers for each of the 5 regions: Latin America and the Caribbean, Mediterranean Rim, South-East Asia, Sub-saharan Africa and West Asia.

CIMPA Research Schools

THE ROAD MAP

A School takes about two years to prepare: proposal by October 1 in year X, decision in year X+1, School takes place in year X+2.

- Each School has two principal scientific organizers, one local (where the School will be held), and one from one of CIMPA's member States.
- Financial support from CIMPA: 20% to 50% (8K to 12K euros)
- After the School: two reports, one from local organizer and one from CIMPA representative.

Numbers

279 Research Schools since 1979

Countries by continent:

- Africa : 18
- Asia : 20
- Latin America and Caribbean : 13

13500 young mathematicians

2500 speakers, 1100 from developing countries

2015

Salto
Uruguay March 9-20
Hamiltonian and Lagrangian Dynamics

Santiago
Chile April 6-17
Minimal surfaces, overdetermined problems and geometric analysis

Cabo Frio
Brazil June 1-12
II Latin American School of Algebraic Geometry and Applications

Lima
Peru May 25-June 5
Transformation Groups and Dynamical Systems

Buenos Aires
Argentina July 6-17
Random processes and optimal configurations in analysis

Cusco
Peru August 8-22
Arithmetic, Groups and Analysis: Cusco 2015

Sao Carlos
Brazil August 25-Sep 4
New interactions of Combinatorics and Probability

Coclé
Panama October 19-28
Non-commutative Algebra

Salta
Argentina November 2-13
Cantor-Salta 2015: Dynamics on Cantor sets

Hammamet
Tunisia March 20-29
Nonlinear Partial Differential Equations arising from Geometry and Physics

Marrakech
Morocco April 13-24
Géométrie différentielle et algèbres non associatives

Oujda
Morocco May 18-29
Théorie des nombres et applications

Izmir
Turkey June 29-July 12
Leavitt path algebras and graph C^* -algebras

Muizenberg
South Africa July 19-31
Algebraic Representation Theory 2015

Mombasa
Kenya July 20-31
Mathematical Modeling and analysis of complex systems

Ziguinchor
Senegal December 5-16
Probabilistic models in epidemiology

Mumbai
India July 6-17
Summer School on Current Research in Finite Element Methods

Ispahan
Iran August 24-Sep 4
Tilings and Tessellations

Daejeon
South Korea May 25-June 3
Dynamical systems, Examples, billiards, and the 3-body problem

Ulaanbaatar
Mongolia July 27-August 7
Stochastics Processes and Applications Mongolia 2015

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CLMPA 2015
Écoles de recherche
Research Schools



MPA

CIMPA School Salto 2015



CIMPA School Colombia 2014



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