

CENTRE INTERNATIONAL DE MATHÉMATIQUES PURES ET APPLIQUÉ
INTERNATIONAL CENTER FOR PURE AND APPLIED MATHEMATICS



MISSION

- To promote international cooperation in mathematics for the benefit of developing countries, in higher education and research in mathematics and their applications, as well as in related subjects.
- To this end CIMPA organizes research schools, supports seminars and sustains networks of researchers.
- Its actions are concentrated at places where there is the will to further develop mathematics, and where a research project is feasible.



MINISTÈRE
DE L'ENSEIGNEMENT SUPÉRIEUR
ET DE LA RECHERCHE



United Nations
Educational, Scientific and
Cultural Organization

Organisation
des Nations Unies
pour l'éducation,
la science et la culture

CENTRE INTERNATIONAL DE MATHÉMATIQUES PURES ET APPLIQUÉ

INTERNATIONAL CENTER FOR PURE AND APPLIED MATHEMATICS



President : TSOU Sheung Tsuen

University of Oxford (Mathematical Physics)

Vice-President : DAMLAMIAN, Alain

Université Paris 12 (Nonlinear analysis, nonlinear partial differential equations)

Secretary : BARDET, Jean-Marc

Université Paris 1 (Probability and statistics)

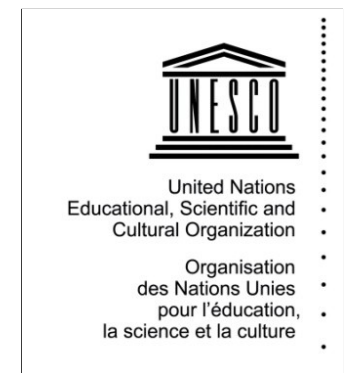
Treasurer : ROUSSELET, Bernard

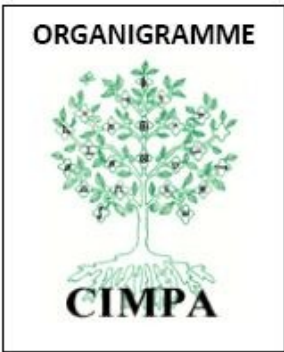
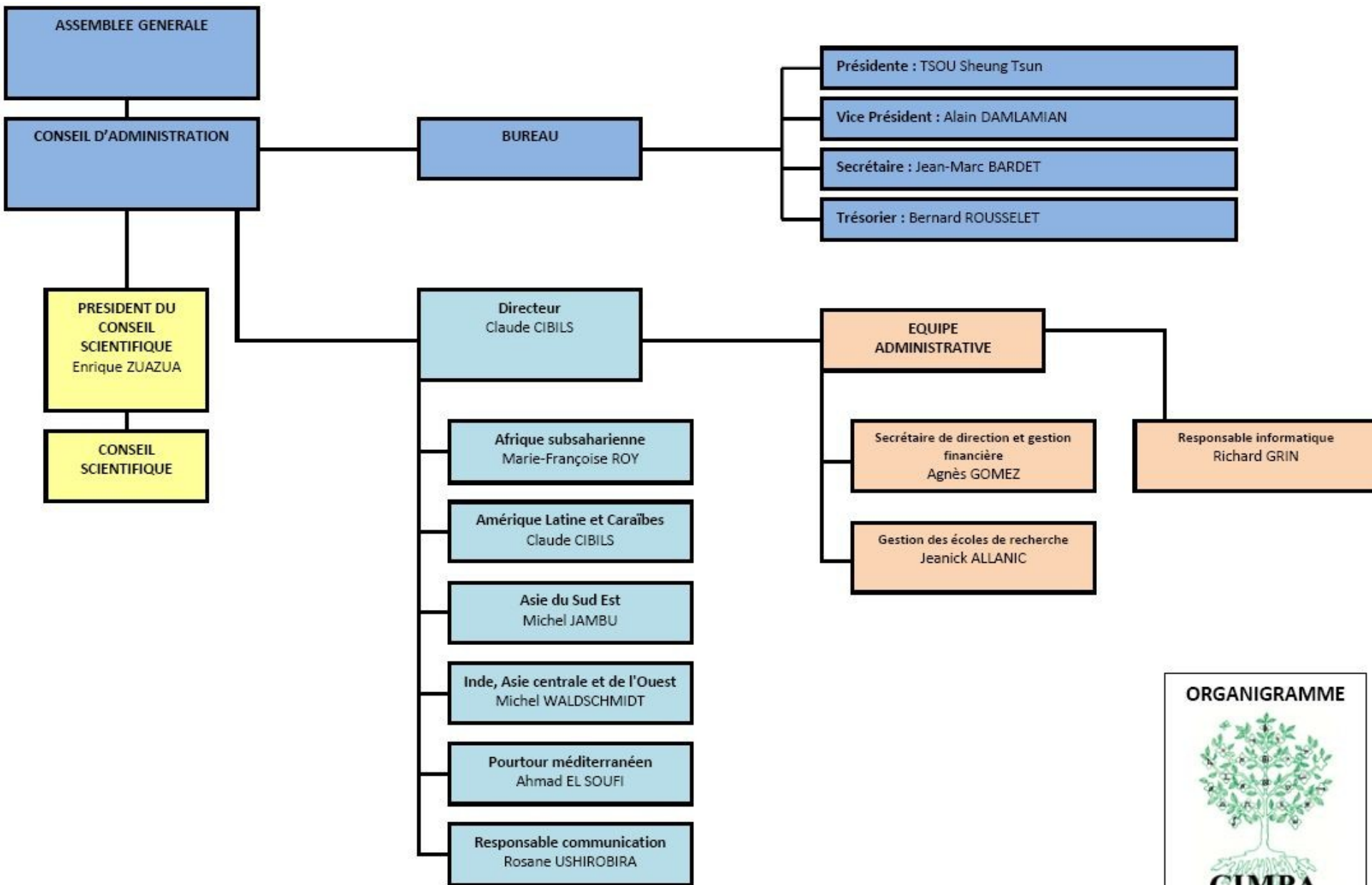
Université de Nice (Nonlinear vibrations. Optimisation)

Director : CIBILS, Claude

Université Montpellier 2 (Noncommutative algebra)

Website : <http://www.cimpa-icpam.org/>





Main activity : research schools

Open call every year

- proposals for two weeks schools come from everywhere, some encouraged by CIMPA members
- members of the scientific committee and the governing board select about 10 school projects

Schools are organized locally with scientific and administrative help from CIMPA, in a North-South-South format.

New initiative: informal agreement with India and Argentina will fund their participants to all neighbouring CIMPA school.

MEDITERRANEAN 2009

- **Recent Developments in the Theory of Elliptic PDE**
CIMPA-UNESCO-EGYPT
January 26-February 3, 2009, Alexandria
- **Control and Analysis of PDE**
CIMPA-UNESCO-MOROCCO
May 10-23, 2009 , Marrakech
- **Analytical and Probabilistic Aspects of Dunkl Theory**
CIMPA-UNESCO-TUNISIA
April 13-25, 2009, Monastir
- **Cryptography**
CIMPA-UNESCO-MOROCCO
May 18-30, 2009, Oujda



SUB-SAHARAN AFRICA 2009

- **Index Theory and Interactions with Physics**
CIMPA-UNESCO-BURKINA FASO
May 21-29, 2009, Ouagadougou
- **Effective methods and software from logic and algebra for algebraic geometry and cryptography**
CIMPA-UNESCO-CAMEROON
August 17-29, 2009, Yaounde



SOUTH EAST ASIA 2009

- **Extremal Problems and Hamiltonicity in Graphs**
CIMPA-UNESCO-INDONESIA
February 2-13, 2009, Bandung
- **Semidefinite Programming in Algebraic Combinatorics**
CIMPA-UNESCO-PHILIPPINES
July 20 - August 3, 2009, Manilla



LATIN AMERICA and CARIBBEAN 2009

- **Population Dynamics, Control and Applications**
CIMPA-UNESCO-GUADELOUPE
January 3-18, 2009, Pointe à Pitre



INDIA and WEST ASIA 2009

- **Combinatorial and Computational Aspects of Commutative Algebra**
CIMPA-UNESCO-PAKISTAN
February 21-28, 2009, Lahore
- **Commutative Algebra and Applications to Combinatorics and Algebraic Geometry**
CIMPA-UNESCO-IRAN
June 20-30, 2009, Tehran
- **Dynamical systems, Singularity theory and Perverse Sheaves**
CIMPA-ICTP-UNESCO-UZBEKISTAN
October 6-21, 2009, Samarkand
School organized by ICTP and approved by the ICTP's scientific committee



CIMPA research schools

Young participants from neighbouring countries are selected by the organisers and CIMPA. They receive full financial support by CIMPA.

Lecturers and speakers are not paid. They obtain their own funding for travel and accommodation. CIMPA provides help in this direction (letters, explanation of the main purpose)

Typical budget for a school is about 30k€ (CIMPA participation is about 10k€, mainly for young people from developing countries)

Research schools: numbers

157 research schools

90 participations in high level education and research networks

Countries

- 17 from Africa
- 9 from Asia
- 12 from South America and Caribbean
- 8 from the Middle East
- 3 from Central and Eastern Europe

10017 young mathematicians

700 speakers, 110 from Southern countries

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de la recherche
et de l'innovation**

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Paris, April 15, 2008

Final report on the scientific activities of the CIMPA in 2006 and 2007

This is a synthesis of the evaluation reports which have been written by four international experts under the joint requirement of the UNESCO and the Ministère de l'Enseignement Supérieur et de la Recherche. The evaluation of the scientific activity of the Centre International de Mathématiques Pures et Appliquées (CIMPA) takes

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Excerpt from the report

CIMPA's activity in the organisation of schools and workshop is considered by all the experts to be extremely successful.

The number of schools organised every year seem to stabilise at 9 or 10 schools, and, given the budget of the CIMPA, this is considered by the experts to be quite an achievement. Reports also mention that the number of people involved as participants or organizers is admirable.

Excerpt from the report

The experts are truly impressed by the very high scientific level of the schools and by the fact that the CIMPA has been able to involve a large number of scientifically well established foreign researchers, even though French researchers involved in CIMPA's activities remain a majority.

Excerpt from the report : conclusion

All experts are impressed by the fact that the CIMPA has been able to develop so many high quality activities with so little funding.

The CIMPA is a unique institution which has an excellent expertise and very high ethics on the development of mathematics in developing countries. It has acquired over the years an international visibility, both in developed and developing countries.

For all the above reasons the recommendations of the experts are very strong.

Excerpt from the report : conclusion

(end)

Both the UNESCO and the Ministère de l'Enseignement Supérieur et de la Recherche should be aware of the fact that, nevertheless, the CIMPA remains very fragile because of the lack of proper funding and of the small number of permanent staff.

TOWARDS EUROPEANIZATION

Since 2007 CIMPA has expressed the wish to open up to all Europe, so that other countries can give their practical support to its activities. Such a development would allow CIMPA to respond to more requests of help from developing countries, much more than we can support at the moment.

We have already obtained an agreement with Spain, starting 2010 with a grant towards African, Latin American and Caribbean Schools, eventually with Spain and France becoming equal partners in our activities.

We are also in contact with our German colleagues with a view to similar collaborations.

