

The European Mathematical Society Committee for Developing Countries

<http://ems-cdc.org>



Introduction

The EMS-CDC started in 2002. We assist developing countries (DCs) as follows:

- ▶ Cooperating with local staff in developing mathematics curricula.
- ▶ Cooperating with local staff in conducting MSc and PhD programmes.
- ▶ Helping to build up libraries.
- ▶ Helping to provide electronic resources.
- ▶ Helping to build up regional centres and networks of excellence.
- ▶ Providing information about PhD grants.
- ▶ Mobilizing funds for researchers from DCs to attend conferences in developed countries.
- ▶ Mobilizing funds for the organization of conferences in DCs.

Practical support for students

- ▶ We have supported Cambodian students (from the RUPP Masters programme) to study in Vietnam, Philippines, India, and Malaysia.
- ▶ We have supported a student from Indonesia to prepare a PhD in Pakistan.
- ▶ We have supported students from Nepal to study in India and Malaysia.
- ▶ We have funded participants' attendance at various conferences, including ICM06 in Madrid, a speaker to Mongolia, some CIMPA schools.
- ▶ We contributed to the 2nd African Women Mathematics workshop of the African Mathematical Union held at AIMS (South Africa), which resulted in the creation of the **African Women in Mathematics Association (AWMA)**.
- ▶ We contributed to the Ibni Prize.



Other activities

- ▶ **Book Donation Programme:** Tens of tonnes of books and journals have been moved from Europe, USA and Canada, to Africa, South East Asia, and South and Central America. New donors and recipients are always welcome.
- ▶ **Electronic access:** One member of the committee, Anders Wandahl, has run four workshops on electronic access. The first, in Addis Ababa, was facilitated with a grant from the International Mathematical Union (IMU) and attracted 47 participants. The second took place in Bamako, Mali in November 2010 during a CIMPA Research School. The other two were in Maputo and Phnom Penh.
- ▶ **Profile raising:** We seek to raise awareness of the needs of mathematicians in developing countries. To this end we have held roundtables and discussion groups at major mathematics conferences including 5ECM, ICM10 and ICM14.
- ▶ **Annual meeting:** EMS-CDC meets every year in a different European country to share experiences and projects.

Emerging Regional Centres of Excellence (ERCE)

Among the emerging economical regions there are several very good centres which can train mathematicians to the Masters level and higher.

The EMS selects, endorses and helps a number of such centres to offer training, up to MSc Level, for students from less developed countries in their region.

There are currently five ERCE:

- ▶ ASSMS (ERCE 2011) The Abdus Salam School of Mathematical Sciences in Lahore, Pakistan.
- ▶ VIASM (ERCE 2013) Vietnam Institute for Advanced Studies in Mathematics, Vietnam.
- ▶ CIMAT (ERCE 2013) Centro de Investigación en Matemáticas, Mexico.
- ▶ INSPEM (ERCE 2014) Institute For Mathematical Research, Malaysia.
- ▶ IASBS (ERCE 2014) Institute for Advanced Studies in Basic Sciences, Zanjan, Iran.



The Masters programme of the Royal University of Phnom Penh

- ▶ The goal of this programme is to prepare young students to enter a PhD programme in mathematics, or to enter mathematics-intensive careers in teaching or in industry.
- ▶ The programme started in 2005 under the initiative of the International Center for Pure and Applied Mathematics (CIMPA) with the partnership of the Volunteer Lecturer Programme (VLP).
- ▶ More than sixty students have completed the Masters. Fourteen Cambodian students have been admitted to PhD education abroad (in China, Thailand, France, Korea and Russia), and several others are completing their Masters degree abroad (in the Philippines, Thailand, Mexico, Malaysia and France). The first three PhD's have already returned to Cambodia.
- ▶ The hope and plan is that these young mathematicians will gradually take over the Masters programme for mathematics at RUPP.

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Benefits for Developing Countries:

- ▶ Free access for institutions and individuals from DCs (email to: editor@zentralblatt-math.org).
- ▶ zbMATH-reviewers donate honoraria to the book donation programme of the EMS-CDC.
- ▶ Free access for participants during workshops and conferences.

Who are we?

Members: Leif Abrahamsson (*Uppsala*), Giulia di Nunno (*Oslo, vice-chair*), Anna Fino (*Torino*), Gert-Martin Greuel (*Kaiserslautern*), Joana Teles (*Coimbra*), Ramadas Ramakrishnan Trivandrum (*Trieste, ICTP*), Paul Vaderlind (*Stockholm*), Fernando Rodriguez Villegas (*Trieste, ICTP*), Begoña Vitoriano (*Madrid*), Michel Waldschmidt (*Paris, chair*), Anders Wandahl (*Stockholm*), Alice Fialowski (*Budapest, EMS liaison*).

Associates: Lars Dovling Andersen (*Aalborg*), Claude Cibils (*Montpellier, CIMPA*), Herbert Fleischner (*Vienna*), Nick Gill (*San Jose, Costa Rica, webmaster*), Andreas Griewank (*Berlin*), Michel Jambu (*Nice*), Fabrizio Luccio (*Pisa*), Marie-Francoise Roy (*Rennes*), Michel Théra (*Limoges*), Tsou Sheung Tsun (*Oxford, CIMPA*).