

The Eighth International Conference on Science and Mathematics Education in Developing Countries
Yangon University, Yangon, The Republic of the Union of Myanmar.

European Mathematical Society Committee for Developing Countries

The Committee for Developing Countries of the European Mathematical Society

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<http://www.math.jussieu.fr/~miw/>



<http://euro-math-soc.eu/EMS-CDC/>



EMS CDC <http://euro-math-soc.eu/EMS-CDC/about.php>

EMS CDC – presentation

The Committee for Developing Countries is a committee of the European Mathematical Society (EMS). It consists of about ten members and ten associate members, most of whom are engaged in development work in their capacity as heads of various such projects. We aim to assist developing countries in all possible ways.



<http://euro-math-soc.eu/EMS-CDC/>



8/9/2015

EMS-CDC The European Mathematical Society Committee for Developing Countries



The European Mathematical Society
Committee for Developing Countries

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The Committee for Developing Countries is a committee of the [European Mathematical Society \(EMS\)](#); its terms of reference can be found [here](#). Click on the links above to find out about our activities, or browse the following resources which were used at ICM2014 to describe our work: [presentation](#) | [poster](#) | [leaflet](#). To contact the CDC, please email one of our [members](#).

We work alongside a number of organisations, including :



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Our sponsors

Les Amis d'Artur Besse

ICTP

IMU

ISP

LMS

NUFU

Swiss Mathematical Society

ZentralblattMATH and their reviewers

Donations to EMS

EMS Membership : A particular reduced fee of 5 Euros for mathematicians who reside in a developing country from a list established by our Committee.

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All email addresses have form e-name@domain

Members

Name	E-name	Domain
Leif Abrahamsson (Uppsala)	leifab	math.uu.se
Vice-chair: Giulia di Nunno (Oslo)	giulian	math.uio.no
Anna Fino (Torino)	annamaria.fino	unito.it
Gert-Martin Greuel (Kaiserslautern)	greuel	zentralblatt-math.org
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Ramadas Ramakrishnan Trivandrum	ramadas	ictp.it
Paul Vaderlind (Stockholm)	paul	math.su.se
Fernando Rodriguez Villegas (ICTP)	villegas	ictp.it
Begoña Vitoriano (Madrid)	bvitoriano	mat.ucm.es
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EC liaison

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Members and Associate Members

Leif Abrahamsson (Uppsala)

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Aims and Objectives

We aim to assist developing countries in all possible ways. Some examples:

- the development of mathematics curricula;
- cooperation with local staff in conducting M.Sc. and Ph.D. programs;
- helping to build up libraries;
- helping to build up regional centres and networks;
- providing information about further studies for students from developing regions;
- sourcing funds for junior and senior researchers to attend conferences.

Our activities (past, present and future)

We started work in earnest in 2002. Since then we have expanded our aims and been involved in a number of projects.

- **Agreement with zbMATH**: free access for Developing Countries. Details of this scheme are [here](#).
- **Book donation scheme**: More details are [here](#). New donors and recipients are always welcome. We have already moved tens of tonnes of books and journals, from Europe, USA, Canada, to Africa, South East Asia, and South and Central America.
- **Funding conferences**: Decisions to support a conference are taken once a year, during our annual meeting in April. We have funded participants to ICM06 in Madrid, a speaker to Mongolia, part of a CIMPA school, part of the 2nd African Women Mathematics workshop, and so on.

<http://euro-math-soc.eu/EMS-CDC/activities.php>

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Support provided by EMS CDC

- ▶ Support for Cambodian students to study in Vietnam, Philippines, India, Malaysia.



 <http://euro-math-soc.eu/EMS-CDC/activities.php> 



- ▶ Support for a student from Indonesia to prepare a PhD in Pakistan.
- ▶ Support for students from Nepal to study in India, Malaysia.



 <http://euro-math-soc.eu/EMS-CDC/activities.php> 



- ▶ Contribution to *2nd African Women Mathematics workshop* of the African Mathematical Union held at AIMS (South Africa) in 2013 and to the Ibni Prize in 2014.



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Electronic Documentation

We run workshops on electronic access in DCs and help to build up libraries.

e-Math for Africa

<http://math.golonka.org/>

Finding Online Information in
Mathematics

<http://workshop.ems-cdc.org/doku.php>

 <http://euro-math-soc.eu/EMS-CDC/activities.php> 



**Zentralblatt MATH
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and individuals from DCs

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Book Donation Program

We have moved tens of tons of books and journals, from Europe, USA and Canada, to Africa, South East Asia, and South and Central America.



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We aim to send books and journals donated by mathematicians in the developed world to institutes and departments in the developing world. We have received quite a number of generous offers: from individuals who retire, from institutes/libraries getting rid of excess stock, from libraries going digital, and also from publishers' surplus. We continue to welcome such generosity.

On the other hand, we also have a list of recipients: those who have promised to make available to all local mathematicians freely the donated material, and to keep it in good condition. This list is ever expanding, and we welcome any such institutes to contact us for this purpose.

The shipping costs are high, but we are supported financially, on a case-by-case basis, by ICTP, American Mathematical Society, London Mathematical Society, Zentralblatt, The Norwegian Programme for Development, Research and Education (NUFU), and also our own very limited funds. We have moved tens of tonnes of books and journals, from Europe, USA and Canada, to Africa, South East Asia, and South and Central America.

URL of this website: <http://ems-cdc.org>
Last modified: 1 May 2015

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Emerging Regional Centres of Excellence (ERCE)

The focus of this project is the education of students in the developed world to the Masters level. We aim to tailor our approach so that it is appropriate to the different levels of development that exist in different parts of the world. Our first call for interest went out in 2010, another followed in 2012, and the third has just gone out (see above).



To train mathematicians from the least developed regions to say the Masters level, it is not efficient, nor necessary, to send them to institutions of the highest level. Indeed among the emerging economical regions there are very good centres which can train mathematicians to the Masters level and higher. After the Master's degree, if the student is capable, then we can try to find ways of sending him or her to Europe to do a Ph.D. In fact, EMS-CDC, in collaboration with CIMPA, has already educated a Cambodian student in Vietnam to Masters level, with two more doing the course in 2010/2011.

It is in this spirit that our committee wishes to propose a scheme of **Emerging Regional Centres of Excellence (ERCE)**. The idea is for EMS to select, endorse and help a number of such centres to offer training to M.Sc. level to students from less developed countries in their region. Following the above encouraging example, provided there are institutions in the emerging economies who are interested in participating, and with the backing of the EMS, our committee is confident that such a scheme will work well.

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ERCE : a South–South perspective

The idea is for EMS to select, endorse and help a number of centres to offer training to M.Sc. level to students from less developed countries in their region. Provided there are institutions in the emerging economies who are interested in participating, and with the backing of the EMS, our committee is confident that such a scheme will work well.

It is cheaper in general to send a student to a nearby country or region. The student will be less disoriented, and in some cases, they may not need a higher European degree. The educating institution will gain experience and prestige.

NIM Network of International Mathematical Centers



Five ERCE so far

- (2010) *ASSMS*, Lahore, Pakistan
<http://www.sms.edu.pk/>
Alla Ditta Raza Choudary

A student from Indonesia started his studies towards a PhD in ASSMS in September 2012, supported by EMS–CDC.

- (2013) *CIMAT*, Mexico <http://www.cimat.mx/>
Jose Antonio de la Pena

- (2013) *VIASM*, Vietnam
<http://viasm.edu.vn/?lang=en>
Le Tuan Hoa



ERCE : two further centers in 2014

Institute of Mathematical Research (INSPEM), University Putra Malaysia, Kuala Lumpur, Malaysia
<http://www.inspem.upm.edu.my/>
Dato' Dr. Kamel Ariffin Mohd Atan

IASBS Zanjan, Iran
<http://iasbs.ac.ir/>
Rashid Zaare Nahandi



Emerging Regional Centres of Excellence (ERCE) 2016

Coming soon : Expressions of Interest in the ERCE programme will be requested. Each interested institute is asked to send us a brief description of its activities, and its suitability, together with a covering letter and supporting material. The preliminary deadline for application or expression of interest may be end of February 2016.



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2015

- 12.06.2015 Report by Michel Jambu on CIMPA activity in South East Asia.
- 10.06.2015 Report on the roundtable discussion at CDC AGM in Oslo. The report includes a presentation by Wandera Ogana, President IMU-CDC.
- 09.04.2015 Individual reports for CDC AGM, Oslo, Norway.
 - Leif Abrahamson (on ISP);
 - Giulia Di Nunno;
 - Herbert Fleischner;
 - Nick Gill;
 - Gert-Martin Greuel (for zbMath);
 - Andreas Griewank;
 - Michel Jambu;
 - Stefano Luzzato;
 - Francesco Pappalardi;
 - Marie-Françoise Roy;
 - Joana Teles;
 - Tsou Sheung Tsun (presentation on CIMPA);
 - Bengt Ove Turesson;

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8th ICSMEDC

December 5, 2015

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and Mathematics Education in Developing Countries
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**The Committee for Developing Countries of
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<http://www.math.jussieu.fr/~miw/>

