1. Organisation
In the period 2008-2010, two Executive Committees of the International Commission on Mathematical Instruction were in office: the 2007-2009 ICMI EC and the 2010-2012 ICMI EC. These two ECs were elected for a three-year term of office, instead of the usual four, because of the new procedure for the election of the ICMI EC adopted by the 2006 IMU General Assembly (GA) and bringing a shift for the election from the IMU GA to the ICMI GA.

The General Assembly of ICMI was held in Monterrey on July 6, 2008, on the day prior to the opening of ICME-11. The costs for hosting the General Assembly were generously supported by the ICME-11 organisers. For the first time, this General Assembly was responsible for the election of the ICMI Executive Committee.

The 2010-2012 ICMI Executive Committee then elected is composed of:

President: William (Bill) Barton (New Zealand)
Vice-Presidents: Angel Ruiz (Costa Rica)
Minna Teicher (Israel)
Secretary-General: Jaime Carvalho e Silva (Portugal)
Members at Large: Maria G. (Mariolina) Bartolini Bussi (Italy)
Sung Je Cho (Korea)
Roger Howe (USA)
Renuka Vithal (South Africa)
Zhang Yingbo (China)

The 2007-2009 ICMI Executive Committee had its final meeting in Saint-Petersburg on September 7-10, 2009. IMU was represented by Manuel de León. This meeting, whose local arrangements were taken in charge by the Moscow Institute of Open Education, was also the occasion of a colloquium organised by EC member Alexei Semenov and devoted to the theme “Russian School Math and Unified State Examination in an International Perspective”.

The President and Secretary-General of ICMI were also invited for part of the meeting of the Executive Committee of IMU held in Fuzhou, China, on April 18-19, 2009. This meeting was the occasion of discussing ICMI regional actions and initiatives towards developing countries, the examination of joint IMU/ICMI projects, and the development of the ICMI Digital Library.

A revision of the ICMI Terms of Reference was completed during the last months of 2009, the revised Terms were formally adopted by the EC of IMU on December 31, 2009, while the ICMI EC adopted on the same day Guidelines pertaining to these Terms. This round of revision introduced substantial changes in the duties and rights of those involved in ICMI. The ICMI Terms are now split into two parts, the first part being (as previously) under the jurisdiction of the IMU EC, while
the new second part (Guidelines for the ICMI Terms of Reference) is under the jurisdiction of the ICMI EC. Other changes include a statement related to the presence of the ICMI representatives at the ICMI General Assembly (under Clause 2), and the fact that the only members of the ICMI GA having voting rights are the representatives of Full Member countries of IMU (under Clause 3). A new notion of Affiliate Organization was added to the Terms, in which it is now possible for multinational organisations with interest in mathematics education.

The 2010-2012 ICMI EC had its first meeting in Auckland on 5-8 April, 2010, with IMU represented by Cheryl Praeger. Administrative results of this meeting were the splitting of the Secretary-General’s duties to make it more manageable. The President of this EC is supported by his university, The University of Auckland) with a half-time administrative assistant. Close cooperation with IMU was reaffirmed, and the expansion of development activities agreed upon.

The President and the Secretary-General of ICMI were invited as ex officio observers to the General Assembly of IMU held in 2010 in Bangalore, India. The President of ICMI presented a Report on ICMI activities to the General Assembly, and numerous contacts were made with the delegates of different countries. At this General Assembly, IMU decided to establish its new permanent stable office in Berlin, Germany, including ICMI. Bill Barton, Jaime Silva and Michele Artigue were present at the IMU Secretariat opening in February 2911. ICMI has now a half-time administrator, Lena Koch, which supports ICMI in all administrative, financial and organisational matters; the other staff members in Berlin also assist ICMI, namely the accountant, IT as well as the IMU archivist.

The second meeting of the 2010-2012 ICMI EC took place February 21-25, 2011 in Beijing, China hosted by Zhang Yingbo. IMU was represented by Cheryl Praeger. The major decision was the continued expansion of ICMI development activities in the form of the Capacity and Network Project (CANP). An ICMI-China Seminar was also held on this occasion.

The third ICMI EC meeting will take place in July 2012, prior to ICME-12. The new 2013-2016 ICMI EC will be elected at this General Assembly prior to ICME-12.

2. ICMI membership

In October 2008 Kenya became an Associate member of IMU, in January 2008, Colombia became a full member of IMU, and in August 2009 Thailand, previously a member of ICMI that was not a member of IMU, became an Associate member of IMU. During the General Assembly of IMU in 2010, four new countries (Cambodia, Moldova, Nepal, and Oman) were admitted as Associate Members and one as full member (Montenegro). In February 2012 Algeria became an IMU member. Having joined IMU, these countries thus became de facto members of ICMI.

As of June 2012 ICMI has 91 member countries. Madagascar has applied for Associate membership with IMU. The voting result is expected to be positive and the country will very likely be an associate member of IMU by August 2012.

Close to 50 new ICMI Representatives have been appointed in recent years. 30 of these were replacements during the years 2008 and 2009, in respect of the so-called “Kobe Rule”, that is, that ICMI representatives should normally not serve for more than two consecutive terms. This is important, since the ICMI General Assembly has an increased legislative role.

3. ICMI Affiliate Organisations

ICMI’s outreach includes multi-national organisations with an interest in mathematics education,
operating consistently with ICMI’s aims and values. Affiliated organisations are independent from ICMI and are self-financed. They collaborate with ICMI on specific activities, such as the ICMI Studies or CANP.

Multi-national Mathematics Education Societies currently affiliated to ICMI, with year of affiliation, are:

- CIAEM: Inter-American Committee on Mathematics Education (2009)
- ERME: European Society for Research in Mathematics Education (2010)
- MERGA: Mathematics Education Research Group of Australasia (2011)

The Study Groups currently affiliated to ICMI, with their year of affiliation, are:

- HPM: The Intl. Study Group on Relations between the History & Pedagogy of Mathematics (1976)
- IOWME: The International Organization of Women and Mathematics Education (1987)
- MCG: The International Group for Mathematical Creativity and Giftedness (2011)

At ICME-11, the President and Secretary-General of ICMI were invited to the WFNMC session where the Paul Erdös Medal was presented to Hans-Dietrich Gronau from Germany, Bruce Henry from Australia, Leou Shian from Taiwan, and Ali Rejali from Iran.

HPM and PME held conferences as satellite meetings of ICME-11. HPM 2008 took place in the Centro Cultural del México Contemporáneo, Mexico City, México, on July 14-18, while PME 32 was held jointly with PME-NA XXX in Morelia, México, on July 17-21. These two conferences welcomed respectively about 150 and 450 participants.

4. International Congresses of Mathematics Education

The 11th International Congress on Mathematical Education, ICME-11, was held in Monterrey, México, from July 6 to 13, 2008. The International Program Committee and the Local Organising Committee were respectively chaired by Marcela Santillán and Carlos Signoret. The local preparation of ICME-11 benefited from the strong support of the Sociedad Matemática Mexicana. Information about the congress is still available on the website http://icme11.org/.

ICME-11 was attended by 2526 participants from 88 different countries, plus 180 accompanying persons. The ICME Solidarity Fund (10% of registrations was 177 300 USD which, combined to a grant of 35 000 USD received from NCTM (USA), allowed partial support to more than 150 participants from 41 non-affluent countries.

At the opening ceremony of ICME-11, the 2005 and 2007 Felix Klein and Hans Freudenthal Medals were presented to the awardees: Ubiratan D’Ambrosio (Brazil) and Jeremy Kilpatrick (USA)—Felix Klein Medal; Paul Cobb (USA) and Anna Sfard (Israel)—Hans Freudenthal Medal.

The preparation of the Proceedings of ICME-11 has met with substantial delay but a draft Proceedings will be available at ICME-12 and published soon after.

The ICMI Executive Committee announced by the end of 2007 that Korea will host ICME-12 at the COEX Convention Centre, in Seoul, on July 8-15, 2012. A Korean delegation was present at ICME-11 to provide information on the 2012 ICME. The ICMI Executive Committee expresses its gratitude to the mathematics education communities in the three bidding countries for ICME-12,
and especially to the chairs who prepared the bids, namely Professors Jianpan Wang (China), Sung Je Cho (Korea) and Renuka Vithal (South Africa).

The International Programme Committee of ICME-12 is chaired by Professor Sung Je Cho, of Seoul National University. The IPC had its first meeting in Seoul on June 14-17, 2009. The second meeting was held in February 2011. Registration fees are between 400 and 500 USD, bringing a substantial reduction compared with recent ICMEs. The ICME-12 Solidarity Fund distributed around 129 000 USD for grants. There were 232 applications and a total of 151 grants were given.

Three countries, Czech Republic, Germany and South Africa, bid for ICME-13. The site visits were conducted in 2011 by Bill Barton, Jaime Silva and Mina Teicher and the decision for ICME-13 was announced by the end of 2011. Hamburg, Germany will host ICME-13 in 2016.

The ICMI Executive Committee expresses its gratitude to the mathematics education communities in the three bidding countries and especially to the chairs who prepared the bids, namely Professor Jarmila Novotna (Czech Republic), Professor Gabrielle Kaiser (Germany) and Professor Mamokgethi Setati (South Africa).

5. ICMI Studies

At June 2012 the situation is as follows.

- **ICMI Study 15: The Professional Education and Development of Teachers of Mathematics**
  The Study volume appeared in 2009 in the New ICMI Study Series under the editorship of Deborah Ball and Ruhama Even. (NISS 11)

- **ICMI Study 16: Challenging Mathematics in and beyond the Classroom**
  The Study volume appeared in 2009 in the New ICMI Study Series under the editorship of Edward J. Barbeau and Peter J. Taylor. (NISS 12)

- **ICMI Study 17: Digital Technologies & Mathematics Teaching and Learning: Rethinking the Terrain**
  The Study volume appeared in 2009 in the New ICMI Study Series under the editorship of Celia Hoyles and Jean-Baptiste Lagrange. (NISS 13).

- **ICMI Study 18: Statistics Education in School Mathematics: Challenges for Teaching and Teacher Education**
  This Study was organised jointly with the International Association for Statistical Education (IASE). The Study Conference, which was merged with an IASE Round Table Conference, took place on June 30-July 4, 2008, at the Instituto Tecnológico y de Estudios Superiores, in Monterrey, México. The conference was attended by more than 100 participants from 25 different countries. The Study volume appeared in 2011 in the New ICMI Study Series under the editorship of Carmen Batanero, Gail Burill and Chris Reading. (NISS 14).

- **ICMI Study 19: The Role of Mathematical Reasoning and Proving in Mathematics Education**
  The Study Conference was held at the National Taiwan Normal University, in Taipei, Taiwan, on May 10-15, 2009. It was attended by 131 participants coming from more than 30 different countries. The Study volume appeared in early 2012 under the editorship of Gila Hanna and Michael de Villiers. (NISS 15).

The 2007-2009 Executive Committee decided in 2008 to launch two new Studies.

- **ICMI Study 20: Educational Interfaces between Mathematics and Industry**
  This Study is organised jointly with the International Council for Industrial and Applied Mathematics (ICIAM). The IPC is co-chaired by Alain Alabamian (Université Paris-Est) and
Rudolf Sträßer (Justus-Liebig-Universität Gießen). The Study was presented during the 7th International Congress on Industrial and Applied Mathematics (ICIAM 2011) in July 2011 in Vancouver, Canada by the Secretary-General of ICMI and the two co-chairs of the Study. The NISS volume is currently in preparation under the editorship of Alain Damlamian, Rudolf Sträßer and José Francisco Rodrigues with publication expected in 2012/13. (NISS 16).

**ICMI Study 21: Mathematics Education and Language Diversity**

Study Co-chairs were Mamokgethi Setati (University of Pretoria) and Maria do Carmo Domite (Universidade de São Paulo). The Study Conference took place in Águas de Lindóia, São Paulo, Brazil, on 16-20 September, 2011. Both Co-chairs have since stepped down due to personal reasons, but the preparation of the Study Volume is in the hands of the IPC. The website is http://www.icmi-21.co.za.

The 2010-2012 ICMI Executive Committee launched a new Study in 2010, and is preparing to launch another study:

**ICMI Study 22: Task Design**

The co-chairs are Anne Watson (Oxford University) and Minoru Ohtani (University of Kanazawa, Japan). The IPC had its first meeting in January 2012 in Oxford, UK.

**ICMI Study 23:**

The Executive expect to launching a new Study on Primary School Mathematics in its meeting in July 2012.

In 2008, ICMI EC renewed with Springer the contract for the NISS series. Besides maintaining current conditions such as the 60% discount available to members of the ICMI community for personal purchases of NISS volumes and the number of free copies provided to ICMI (81), the contract contains an increase in the royalties and posting the content of the NISS volumes freely accessible on ICMI website, after 3 years. An amendment to the contract is currently being negotiated to take care of legal complications around non-English language rights.

Royalties of 1146, 61 USD were received by ICMI from Springer in 2009, 1619, 79 USD in 2010 and 1093, 86 USD in 2011.

6. **ICMI Regional Conferences**

Several Regional Conferences to which the ICMI EC has granted the status of ICMI Regional Conference were held in the period 2008-2012.

- **EMF 2009 (Espace mathématique francophone 2009)** took place in Dakar, Senegal, on April 6-10, 2009. It gathered more than three hundred teachers and researchers coming from twenty countries. A report on EMF 2009 appears in the ICMI Bulletin no. 64 (June 2009).

- **AFRICME 3** (the Third Africa Regional Congress of ICMI on Mathematical Education) under the theme „Mathematics as a Leading edge in the Education for All (Efa) Framework” in Gaborone, Botswana, on May 18-21, 2010. AFRICME 3 gathered 121 participants from 14 different countries, including 15 teachers.

- **ICMI-EARCOME-5 conference** (the Fifth ICMI East Asia Regional Conference in Mathematics Education), was held in Tokyo in 18-22 August 2010, under the theme “In search of excellence of mathematics education”.

- **XIII CIAEM** (Conferencia interamericana de educación matemática), took place in Recife, Brazil, on June 26-30, 2011. More than 1800 math educators, mathematicians and teachers from 33 countries.
• EMF 2012 (Espace mathématique francophone), was held in Geneva, Switzerland, in 2012. The ICMI EC was represented on the International Programme Committee of EMF 2012 by Bernard R. Hodgson and Jaime Carvalho e Silva.
• ICMI-EARCOME-6 conference (the Fifth ICMI East Asia Regional Conference in Mathematics Education), to be held in Thailand in March 2013.
• AFRICME-4 will be in Lesotho in 2013
• CIAEM-14 will be held in Mexico in 2015.
• EMF 2015 will be held in Algeria.

7. ICMI Centennial
In 2008 ICMI marked its centennial with an international symposium, “The First Century of the International Commission on Mathematical Instruction: Reflecting and Shaping the World of Mathematics Education”, in Rome, on March 5-8, 2008 supported by special grants from UNESCO and IMU. The International Programme Committee was chaired by Ferdinando Arzarello, while Marta Menghini represented the Organising Committee within the IPC. Palazzo Corsini, home of the Accademia Nazionale dei Lincei and the birth place of ICMI, and Palazzo Mattei di Paganica, home of the Enciclopedia Italiana, were the splendid venues for the symposium. Some 200 participants from 43 countries took part.

The symposium sought to identify the future directions of research in didactics and possible initiatives for improving mathematical culture worldwide. The symposium had 10 plenaries, 8 parallel talks, 5 working groups, and an afternoon reserved for Italian teachers broadcast to 50 schools throughout Italy. The excursion, like a hundred years ago, took participants to visit the Villa d’Este at Tivoli and Hadrian’s Villa. A website dedicated to the history of ICMI was created describing the most significant events and key figures through documents, images and interviews.

The symposium proceedings The first century of the International Commission on Mathematical Instruction (1908-2008): Reflecting and shaping the world of mathematics education have appeared in the “Collana Scienze e Filosofia” of the Istituto della Enciclopedia Italiana, (Roma, 2008). The talks of the Italian afternoon were published in Progetto Alice. The International Journal for the History of Mathematics Education, 3(2), 2008, is a special issue on the history of ICMI.

The development of the website dedicated to the history of ICMI and launched on the occasion of the ICMI centennial celebration was pursued in 2009 under the direction of Fulvia Furinghetti and Livia Giacardi. ICMI has provided a grant of 1000 € to support this work Please see http://www.icmihistory.unito.it/

8. UNESCO/ICMI Exhibition
ICMI has been sponsoring, jointly with IMU, UNESCO and other bodies, the development of a mathematical exhibition entitled “Experiencing mathematics”, whose aim is to improve the image of mathematics among the general public. Three copies of the exhibition are now available and are being circulated internationally under UNESCO and ICMI auspices. Support for the exhibition has also been provided by CIMPA and the French Ministry of Foreign Affairs.

During 2008, the first set of the exhibition travelled in Latin America, with the number of visitors estimated at 150 000. In 2009, it was presented in Argentina and Brazil, the latter carried out in cooperation with the National Council of Ministers for Science, Technology and Innovation, and the National Council of State Foundations for Support to Research and the Brazilian Association of
Science Centres and Museums. The exhibition finished its circulation in Latin America by returning to Santiago in Chile for the first quarter of 2010. It then went to Spain for the XIII Congreso de Enseñanza y Aprendizaje de las Matemáticas of the THALES society.

The second set travelled in Asia, including India, Pakistan, and the Philippines in 2008, followed by 18 months in Korea, with the support of NateSystem and the Korean Institute of Design Promotion. The third set travelled in 2008 to Portugal and on to Turkey for the fiftieth anniversary of Anadolu University, and with its support. The exhibit was then brought to West Africa, for EMF 2009 in Senegal, then to Benin. In 2010 it visited Burkina Faso and Niger.

Next locations include Equatorial and East Africa and The Emirates. The exhibition is managed by the French Culture Scientifique, Technique et Industrielle Orléans. A virtual exhibition in four different languages has been developed, connected to the physical one and aimed at secondary school mathematics teachers. The official opening took place in Angola in March 2008.

9. Pipeline Project

The “Pipeline Project” was launched jointly in 2004 by IMU and ICMI in reaction to the perceived decline in the numbers and quality of students who are choosing to pursue mathematics study at the university level, as well as the inadequate supply of mathematically qualified students choosing to become mathematics teachers in the schools. A Survey Team for ICME-11 reported in a Special Issue of the *International Journal of Mathematical Education in Science and Technology* 40(1), in, 2009.

In August 2008 a full-time person became available in New Zealand to the end of its Pilot Phase, involving the eight pilot countries: Australia, Finland, France, Korea, New Zealand, Portugal, United Kingdom and USA. In October 2009, a presentation was made to the conference on Paradigms in Mathematics Education for the XXI Century in Valencia. The pilot phase of the project ended at the end of 2009, and the final report was presented at ICM 2010.

The emerging picture is that, worldwide, there may not be a crisis in the numbers of mathematically qualified students, but that there is a crisis in some particular countries. It is evident that the numbers of such students in universities is susceptible to changes in school curricula and examination systems.

10. The Klein Project

The Klein Project was launched in 2008 and aims to support mathematics teachers to reconnect with mathematics, particularly contemporary mathematics. A Design Team of 8 people is responsible for the project. The project will publish a book in several languages, and a website/blog. The Design Group has met in Paris, 2009; Auckland, 2010; Castro Urdiales, 2010; Palo Alto, 2011; and Paris again in 2012. Several Klein conferences have already taken place: in Madeira, Portugal (2009), in Castro-Urdiales, Spain (2010), Oxford, 2010, and Pittsburg, 2010. Offshoot Klein Projects have developed in Brazil and Sweden with several meetings. A further meeting and public day is planned for Berlin in 2013.

Since 2010 the Klein Project has turned its primary focus to the production, dissemination, and trialling (with teachers) of Klein Vignettes, see <www.blog.kleinproject.org>. They are available in three languages with more in preparation.
11. The Database Project
In 2010 ICMI launched a Database project where curriculum documents of member countries are collected on the ICMI website for use by researchers and curriculum developers worldwide. Over 30 countries have so far contributed to the project.

12. Capacity & Networking Project (CANP)
CANP is ICMI’s major development focus and is support by UNESCO and ICSU. CANP aims to enhance mathematics education at all levels in developing countries by creating sustained and effective regional networks of teachers, mathematics educators and mathematicians, and linking them to international support.

CANP consists of an on-going series of programmes in a different developing region each year. The first programme was held Mali in September, 2011. The second will be in Costa Rica in August 2012. The third will be in Cambodia in 2013.

13. Collaboration with UNESCO
Recent years have witnessed the renewal and strengthening of the relationships with UNESCO, including the exhibition “Experiencing mathematics” mentioned above. In 2009, ICMI President Michèle Artigue was invited to take responsibility for the mathematics section of a document The challenges of mathematics and science basic education, to be published and disseminated by UNESCO in French, English and Spanish. It was published in 2010. The ICMI EC has adopted this document as its own position statement and developed the CANP initiative in response.

14. Solidarity Actions
ICMI solidarity actions have received financial support from IMU, through the Commission for Developing Countries, CDC. ICMI appoints one member to this Commission.

In 2008, ICMI participated in an IMU report Mathematics in Africa: Challenges and Opportunities submitted in February 2009 to the John Templeton Foundation. Jill Adler led a report on the state of mathematics education in selected countries with a particular focus on supporting talented mathematics students in the 10-18 year age group. The countries were Burkina Faso, the Democratic Republic of the Congo, Ghana, Kenya, Lesotho, Malawi, Mozambique, Nigeria, Rwanda, South Africa, Swaziland, Tanzania, Tunisia, Uganda, Zambia, and Zimbabwe.

The ICMI Regional Conference AFRICME-2, held in Nairobi, Kenya, was given 4000 USD and AFRICME-3 (Botswana, 2010) received 5000 USD from IMU CDC.

ICMI was involved in Espace Mathématique Francophone in Dakar in 2009. On this occasion, eleven participants representing eight countries met to a network of researchers in mathematics education among Francophone African countries. Further discussions on RADMA (Réseau africain de didactique des mathématiques) were held on two occasions later in 2009.

The ICMI Solidarity Fund, originally established at the suggestion of President Miguel de Guzmán in 1992, was to promote networking by facilitating visits to developing countries to run various programmes associated with mathematics and mathematics education. The 2010-2012 Executive Committee has determined that the development of the Solidarity Fund must be considered in the more global context of a deeper discussion about the global long-term financing of ICMI and of its activities, with special focus on the CANP initiative.
15. The ICMI Awards

The ICMI awards in the form of a certificate and a medal, are to recognise outstanding accomplishments in mathematics education research:

- Hans Freudenthal Award, for a major programme of research on mathematics education,
- Felix Klein Award, for lifelong achievement in mathematics education research.

During the opening ceremony of ICME-11, in Monterrey in July 2008, the 2005 and 2007 ICMI Awards were formally presented to Ubiratan D’Ambrosio (Klein 2005), Jeremy Kilpatrick (Klein 2007), Paul Cobb (Freudenthal 2005) and Anna Sfard (Freudenthal 2007). During the opening ceremony of ICME-12, in Seoul in July 2012, the 2009 and 2011 ICMI Awards will be formally presented to Gilah Leder (Klein 2009), Alan Schoenfeld (Klein 2011), Yves Chevallard (Freudenthal 2009), and Luis Radford (Freudenthal 2011). Regular lectures by the awardees are given at the appropriate ICME.

16. IMU/ICMI Digitisation Programme

In the context of an IMU programme of open access to IMU publications, ICMI was offered support from the IMU Committee on Electronic Information and Communication (CEIC) for a similar project as regards ICMI publications. The aim is that the ICMI Digital Library will eventually make available freely online all the ICMI material. During 2008, the digitisation of all issues of the ICMI Bulletin was completed and work on the ICMI Study volumes began. Negotiations are being pursued with the copyright owners.

The ICMI Digital Library was officially launched on July 1, 2009, with the posting online of the Proceedings of the symposium organised in 2000 on the occasion of the centennial of *L'Enseignement Mathématique*, the official organ of ICMI.

Currently all Bulletins, the most recent Proceedings of ICMI Study meetings, and the ICMI Studies edited by Cambridge University Press (CUP) are all available.

17. Information and Communication

Communication within ICMI is by direct email contact with the ICMI Representatives, and, for individuals, through ICMI News appearing every two months. ICMI News passed the barrier of 1000 subscriptions in 2008. French and Portuguese versions are available. An ICMI Facebook page was established in 2011 (it currently has more than 1300 ‘friends’ and 400 ‘likes’). An annual ICMI Bulletin is the official organ of ICMI activities.

The ICMI website was redesigned from 2007 to 2009. The new website, hosted on the IMU server, was launched in May 2009.

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