

An Invitation to join us for our 2014 conference in Montenegro.... Why?

Firstly

The place, the ancient history of Montenegro - the beautiful coastline and climate (26c-31c in late September) - the wine and food and hospitable people.

Secondly

The chance to meet mathematics educators from all over the world working at the frontier of innovation and presenting their new ideas in the teaching of mathematics, statistics, informatics and science.

Thirdly

A conference dedicated to meeting together and working for the betterment of mathematics education world-wide. This means working with, and for, our students and fellow-teachers.

Fourthly

To participate in a programme specially designed to be useful and practical. In addition to many varied and interesting papers, there will be Workshops, small interactive Working Groups, and the creative Open Forum of Ideas.

Fifthly

To help research students/lecturers by offering free double-blind peer review for formal research papers. In addition there is a possibility of selected papers being published as a book after the conference.

Sixthly

To meet, talk, work, eat and drink with old and new friends and colleagues from around the world in a relaxing and beautiful environment. To enjoy the Welcome Reception and Gala Dinner together and also a half day excursion to the nearby UNESCO World Heritage old town of Dubrovnik.

We hope to see you in Montenegro in September 2014!

First Announcement and Call for Papers Last Updated September 6, 2013

The Mathematics Education for the Future Project

is proud to announce our

**12th International Conference of The Mathematics
Education into the 21st Century Project**

***The Future of Mathematics Education in a Connected
World***

September 21–26, 2014

Hunguest Hotel Sun Resort, Herceg Novi, Montenegro,

in cooperation with

**MUED, DQME II, DQME3, MAV, MERGA, IOWME, AAMT,
Wholemovement, The Hong Kong Institute of Education**

Major Sponsor

Autograph www.autograph-maths.com

The Mathematics Education for the Future Project warmly welcomes you to our 12th International Conference on: *The Future of Mathematics Education in a Connected World*, to be held from Sep 21-26, 2014, overlooking the most favoured and beautiful bay along the Balkan Adriatic coast. Catch a glimpse of paradise at: http://www.hunguesthotels.hu/en/hotel/herceg_novi/hunguest_hotel_sun_resort/ .. The conference will open with an evening Welcome Reception on arrival day, Sunday, Sep 21 and will finish with breakfast on departure day Friday, Sep 26. There will be an additional social programme for accompanying persons. For ALL further conference details and updates please email alan@cdnalma.poznan.pl .

Our Invitation

Our conferences are renowned for their **friendly and productive working atmosphere** and are attended by innovative teachers and mathematics educators from all over the world – for example 44 countries were represented at our 2009 conference in Dresden, Germany! The conference in Montenegro follows on from our eleven previous Project Conferences held in the following places: next to the pyramids in Cairo in 1999, in the historic Holy Land in Jordan in 2000, a country retreat in Poland 2001, where the Great Barrier Reef meets the rain forest in Australia 2001, on the coast of Sicily in 2002, in Brno, the historic capital of Moravia, Czech Republic in 2003, in Ciechocinek, a spa town in Poland in 2004, in Malaysia overlooking the Straits of Johor in 2005, in the scenic surroundings of Charlotte, North Carolina, USA in the New World in 2007, in the historic splendour of Central Europe at Dresden in 2009 and in the unique natural splendour of South Africa in 2011.

The Conference is organised by the Mathematics Education for the Future Project – an independent international educational initiative coordinated by Dr. Alan Rogerson (Poland/UK). Since its inception in 1986, our Project has received support and funding from many educational bodies and institutions throughout the world. In 1992 UNESCO published our Project Handbook "Moving Into the 21st Century" as Volume 8 in the UNESCO series *Studies In Mathematics Education*.

The Mathematics Education for the Future Project is dedicated to the improvement of mathematics education worldwide through the publication and dissemination of innovative ideas and materials. Many prominent mathematics educators have supported and contributed to the project, including the late Hans Freudental, Andrejs Dunkels and Hilary Shuard, as well as Bruce Meserve and Marilyn Suydam, Alan Osborne and Margaret Kasten, Mogens Niss, Tibor Nemetz, Ubi D'Ambrosio, Brian Wilson, Tatsuro Miwa, Henry Pollak, Werner Blum, Roberto Baldino, Waclaw Zawadowski, and many others throughout the world.

Information about our project and future work can be found on the following webpages. Our Project Home Page: <http://math.unipa.it/~grim/21project.htm> leads

directly to the paper proceedings of all previous conferences. Andreas Filler at <http://www.afiller.de/charlotte07> has a photo album of our Charlotte Conference and also at <http://www.ph-heidelberg.de/wp/filler/ciecho04/index.htm> of our Ciechocinek Conference. For the Brno conference there is also a local Website with all English and Czech papers at <http://www.math.muni.cz/matheduconf.sept2003> For our Polish Superkurs Home Page and National Planning Meetings webpage see: www.cdnalma.poznan.pl (in Polish - but with pictures!)

How did our conferences start?

In the late 1970s and 1980s a series of annual conferences were organized by the CIEAEM in Europe. They were distinguished by their friendly, relaxed and informal programme (including an Open Forum of Ideas!) and the fact that the conferences were always held in beautiful places. Those early CIEAEM Conferences were the model for our own Mathematics Education for the Future Project Conferences. Our conferences are renowned for their friendly and informal working atmosphere that has been highly appreciated by participants, according to their feedback. Our conferences always try to meet in a beautiful place, so that the relaxing and supportive atmosphere will stimulate us to work hard together. Montenegro in 2014 will be just such a place.

The Mathematics Education for the Future Project has the following **National Representatives:** Dr. Jean Michel Hanna Egypt, Dr. Reda Abu-Elwan Oman, Assistant Professor Othman Alsawaie UAE, Professor Noor Azlan Ahmad Zanzali Malaysia, Professor Angel Balderas Mexico, Dr. René Berthelot France, Dr. Cinzia Bonotto Italy, Gail Burrill USA, Professor Indira Chacko India, Prof. Dr. Franco Favilli Italy, Professor Gunnar Gjone Norway, Professor Doctor Gunter Graumann Germany, Dr. Marjorie Henningsen Lebanon, Dr. Hanan Innabi Jordan, Professor George Malaty Finland, Prof Dr. Ivan Meznik Czech Republic, Prof. Willy Mwakapenda, South Africa, Dr. Maria Luisa Oliveras Spain, Chris Ormell UK, Lionel Pereira-Mendoza Canada, Dr. Medhat Rahim Canada, Dr. Fatimah Saleh Malaysia, Dr. Maher Y. Shower USA, Professor Anthony Sofo Australia, Teresa Vergani Portugal, Professor Derrick Young South Africa, Professor Wacek Zawadowski Poland, Professor Miriam Amit, Israel.

DQME3

The European Union Comenius Continuation Project: DQME II (Developing Quality in Mathematics Education) (2007-2010) followed on from the original DQME I project (2004-2007) which produced lots of materials and new ideas for learning and teaching mathematics in the classroom. The continuation project was designed to disseminate these materials and methods throughout the 11 partner countries. Please look at our Project Webpage <http://www.dqme2.eu/> for further information on the History and Development of the DQME projects (in 10 languages). It was the main objective of DQME that we produce, translate and disseminate as much new and useful material as we can in all partner countries.

DQME3 was created to continue the work of these projects after 2010, and there has already been a very positive response to the invitation to join DQME3 from friends and colleagues throughout the world.

A special international meeting to establish DQME3 and to fully discuss it's future work in cooperation with other countries outside the EU was held from June 29 to July 2, 2010 in Ciechocinek, Poland. Please contact alan@cdnalma.poznan.pl for

further details of this meeting. There will be a full report of the progress of DQME3 during the Montenegro Conference.

Montenegro 2014 Conference Committees

International Program Committee

Coordinator of the Mathematics Education for the Future Project

Dr. Alan Rogerson, Mathematics in Society Project (UK/Poland).

Prof. Fayez Mourad Mina, Faculty of Education-Ain Shams University (Egypt)

Prof. Khaled Abuloum, University of Jordan (Jordan).

Prof. Miriam Amit, Ben-Gurion University at Eilat (Israel)

Prof. Roberto Baldino, UNESP (Brazil).

Dr. Andy Begg, Auckland University of Technology (New Zealand).

Dr. Donna F. Berlin, The Ohio State University (USA).

Prof. Ubiratan D'Ambrosio, Campinas/UNICAMP (Brazil).

Prof. Bruno D'Amore, University of Bologna (Italy).

Prof. Dr. Tilak de Alwis, Southeastern Louisiana University (USA).

Prof. Paul Ernest, University of Exeter (UK).

Dr Hanan Innabi, UAE University (UAE).

Prof. Nicolina Malara, University of Modena (Italy).

Prof. Lionel Pereira Mendoza, Educational Consultant (Canada).

Prof. Dr. Ivan Mezník, Brno University of Technology (Czech Republic).

Prof. Dr. M. Ali M. Nassar, Institute of National Planning (Egypt).

Prof. Angela Pesci, University of Pavia (Italy).

Prof. Dr. David Pugalee, University of North Carolina at Charlotte (USA).

Prof. Medhat Rahim, Lakehead University, Faculty of Education (Canada).

Dr. Arthur L. White, The Ohio State University (USA).

Prof. Noor Azlan Ahmad Zanzali, Universiti Teknologi Malaysia (Malaysia).

Prof. Wacek Zawadowski, Siedlce University (Poland).

CALL FOR PAPERS

The Mathematics Education for the Future Project serves as an international forum for both researchers and teachers. Innovation is our major objective and this includes special interests such as: maths for living, humanizing maths education, equity and ethno-mathematics, the effective use of new educational technology in the classroom, adopting new paradigms, etc. Our accumulated experiences are not only represented in our UNESCO handbook and previous **conference proceedings** but also in 40 years of research-in-action - including the vast didactic innovations of SMP and other UK projects in the 1960s and 1970s, national initiatives in Germany, Holland, Scandinavia, Australia, Brazil, etc in the 1970s and 1980s, and many other major innovative projects throughout the world. Our Project has tried to learn as much as possible from many people, with the aim of implementing theIR innovative ideas in the teaching of mathematics, science, statistics and informatics in schools and higher education. The scientific underpinning of our project's work owes much to the

seminal works of creative thinkers such as Polya, Kuhn, Lakatos, Wittgenstein, Freire and D'Ambrosio.

The Major Goal of this Montenegro Conference is to help turn Dreams into Reality!

- To support **communication and collaboration** - to put teachers and researchers in contact for their mutual benefit.
- To present and publish **research papers** and also significant new ideas and classroom experiences from teachers.
- To share **innovative and creative ideas** for effecting reform in the areas of: educational research, in teaching and learning, educational technology, curriculum development, mathematics teachers' preparation and development, school organization and policy, classroom practices and issues of equity and ethno-mathematics
- To initiate **new and creative work** to help solve endemic problems in education.

The Program Committees for the Conference invite mathematics, statistics, informatics and science teachers, university faculty members and national and regional coordinators and administrators from all countries to submit papers and workshops for inclusion in the Conference Programme and publication in the Conference Proceedings.

We welcome papers and workshops that deal with all aspects of **innovation** in mathematics, statistics, science and computer education, especially those helping to make these subjects more "alive", more "realistic" and more "accessible" to students in the future. We have a very open policy to accept in the programme not only peer-refereed papers, but also workshops and contributions from teachers discussing innovative work in their schools.

Possible topics for a paper or workshop would be::

- problem solving and modelling
- use of technology
- assessment
- dealing with cultural differences
- overcoming gender and social barriers
- improving the curriculum
- teacher preparation and ongoing in-service work
- policy initiatives
- school organization and classroom practices
- using statistics in everyday life
- effectively utilizing new paradigms in teaching and learning
- □□□□□□□□□□ rich learning tasks
- □□□□ applications of mathematics in the real world
- the use of mathematics in the sciences and in informatics

English will be the official language of the conference (and of the proceedings which will be available as a CD before the conference, and on-line afterwards).

Deadlines

1. For workshop presenters

Please send a "workshop summary" of 1-6 pages which will be published in the pre-conference CD and also online after the conference. This is to help you advertise your workshop to participants who will have the CD in their hands when they register, and also to have a permanent record of your work after the conference. Please note all **detailed format requirements below** apply to both workshop summaries and papers.

2. Abstracts

Please include **at the start of your final paper or workshop summary** an abstract which should NOT be longer than 15 lines (font12). Below are the detailed instructions for sending papers and workshop summaries, **please follow them to the letter** so we can edit your work easily and quickly. Papers not fulfilling these requirements will be returned for correction! (Please note that IF you put your email address in your document it will facilitate colleagues getting in touch with you but at the same time it will also place your email address automatically in the public domain)

3. Papers and Workshop-Summaries should be sent as MSWord documents by email to arrive **preferably before the end of 2013 and not later than April 30, 2014.**

All accepted papers/workshops will be eligible for presentation in the conference programme and inclusion in the pre-conference proceedings and the post-conference on-line proceedings.

Please note that papers/workshop summaries can only be included in the final programme and in the proceedings if received from participants who **register** for the conference **and have paid their registration fee.**

All presenters will be allocated in the conference programme **30 minutes (papers) and 40 minutes (workshops)** to describe their innovative practice(s) and highlight how they have worked in their respective countries and professional settings.

After the individual presentation is completed, there will be questions and answers and an open discussion facilitated by a session moderator/chairman **only** if there is time remaining **within the 30 or 40 minutes allocated above.** Please prepare your presentation so that it does not simply repeat your paper word for word (all participants will have access to the text of your paper in the pre-conference proceedings CD). Please ensure that you allow some time for discussion and questions and answers after your talk, within the strict time limits mentioned above.

Working Group leaders have been asked to insist that ALL speakers keep strictly to their allotted time as a courtesy to the following speakers!

Format for ALL submitted papers and workshop-summaries

The paper, or workshop-summary, must be in the form of a **Microsoft Word Document** only (NOT pdf or any other formatted files) and must be sent as an **email attachment** (faxes, scanned copies or posted hard copies cannot be accepted).

All Papers and Workshop-summaries should follow these guidelines:

1. Single spaced A4, Times New Roman font size 12
2. Not longer than 6 pages (please do not send papers in smaller fonts) which includes ALL references, notes and acknowledgements.
3. NO headers, NO Footers and NO page numbers.
4. ALL non-text items in the paper (diagrams, graphs, etc) must be included in the body of the text in the appropriate places.
5. NO MACROS nor editing nor correcting programs should still be active.
6. PLEASE check, BEFORE you send it, that your paper prints out correctly using Microsoft Word (we have had problems with this in the past).
7. Please check that your whole text is uniformly formatted throughout in MSWord, and especially watch out for empty format boxes as headers and footers, you should remove these because even though they are not visible they interfere with final editing.
8. Please ensure that your document is virus free by using anti-virus scans.
9. Please do NOT send more than one copy of your paper, there should be only one final standard MS Word version.

(PLEASE BE SURE TO FOLLOW THESE GUIDELINES, OR YOUR PAPER WILL BE RETURNED TO YOU FOR CORRECTION)

About Montenegro and the Conference

Arrival

Participants arriving by car will have free parking at the hotel. The hotel is easily accessible from both Dubrovnik airport in Croatia and Tivot airport in Montenegro. Further details of shuttle buses and taxis from the airports to the hotel will be sent to registered participants later. Please note the cost of this local transport to the hotel should be paid individually by participants and is extra to the registration fee.

Climate and Clothing The weather in September is likely to be dry, sunny and pleasant, but it would be wise to bring a sweater for the evenings. Late September maximum temperatures vary from 26c-31c.

Visa Requirements

It is of paramount importance that you check the up to date requirements for your passport and visa with your Travel Agent or the appropriate information service in your country.

Please start enquiries NOW if you are planning to come so you will have enough time to complete all of the visa formalities later. Email us if you require a letter of invitation, but please note that such letters may only be sent to participants who have already registered and paid the conference fee.

Health & Personal Insurance

Neither the conference administration, nor the hotel, are responsible for health or personal insurance. We strongly advise all participants to ensure that they have

arranged adequate personal travel and health insurance Your travel agent will be able to advise you.

Electrical Appliances

Voltage in Montenegro is 220/240V. Round two-pole plugs are in common use. Please ensure you have a **correct adapter**, especially for your computer. It's a good idea to buy an appropriate adaptor before leaving home. US-made appliances may need a transformer.

Banking and Foreign Exchange

The local currency is the euro. Foreign currency can be exchanged at local banks and Bureaux de Change which are widely available, especially in the major tourist areas. All major credit cards can be used in Montenegro, with MasterCard and Visa enjoying more universal acceptance than American Express and Diners Club.

Pre- and Post-Conference Tours

There are many possibilities for side tours before and after the conference to see more of the unique beauty of this country, as well as the spectacular coast. Croatia is very close and merits a visit to the world renowned and unique lake systems there, and of course the coastal cities of Split and Zadar. Participants should make their own arrangements for pre- and post-conference tours, please see your travel agent to find out more.

Conference Organisation

Provisional Conference Programme

All sessions below except for the Excursion will take place in Hunguest Hotel Sun Resort

Day	Time	Event
Sunday Sep 21	12.00 -19.00 19.00	Conference Registrations Welcome Reception (drinks and canapes)
Monday Sep 22	9.00 – 18.00	Opening Session and first working day.
Tuesday Sep 23	9.00 – 13.00 13.00 – 18.00	Second working morning Excursion to Dubrovnik
Wed Sep 24	9.00 – 18.00	Third working day
Thursday Sep 25	9.00 – 18.00 19.00	Fourth working day Gala Dinner

Friday Sep 26: No working sessions, departure after breakfast.

The Conference Excursion half day Tuesday 23rd Sep, and including lunch, will be to the nearby UNESCO World Heritage old town of Dubrovnik.

The Conference Working Sessions will feature:

- Opening Plenary Speech by Douglas Butler (Autograph)

- Paper Presentations
- Working Group Meetings
- Workshops
- Open Forum of Ideas

Open Forum of Ideas

Part of the first working day of the conference will be devoted to an open "Forum of Ideas" in which all participants are invited to display their materials and software in all languages. In previous conferences this has been a successful way of breaking the ice and putting participants in touch with each other on the first day. If you would like to exhibit/display in the Open Forum of Ideas PLEASE bring **as much material and software as possible** of yours or others (preferably visual) and we will provide space to display it. Please bring your own PC if you wish to display sample software. The objective of the session is to provide a smorgasbord of the best things available worldwide in an open continuous session that allows all participants to circulate and talk to the other presenters. **It is very important that you inform us on your Registration Form if you require table space** for the Open Forum of Ideas.

Our Sponsor

The Conference wishes to sincerely thank our continuing Major Sponsor **Autograph** <http://www.autograph-maths.com/> who will be exhibiting their excellent educational technology throughout the conference, and also holding hands-on workshops.

Registration

PLEASE NOTE: The conference fee below covers registration for the conference, accommodation and all social events but NOT SHUTTLE BUS/TAXI COSTS from airports to the hotel.

Conference Registration Fee for Participants

Registration Fee and Conference Accommodation (in euro)

Rooms	Early Bird	After Feb 1	After May 1
Triple share (limited number)	340	360	380
Double/Twin	355	375	395
Single	420	440	460

This fee includes:

- All conference documents, including CD of pre-conference proceedings
- An evening welcome reception on Saturday with drinks and canapés.
- Four lunches, on Sep 22-25 .
- 7 tea/coffee breaks
- Half day excursion including lunch on Wednesday, Sep 24
- Special Gala Dinner on Thursday, Sep 25

(Please note the above fee includes one evening welcome reception and one Gala dinner, on the other two evenings participants will be free to enjoy dinner at the local waterfront restaurants and in the charming old town of Herceg Novi.

The Accompanying Person fee: 350 euro (twin share), this is an estimated figure at this stage and may change later this year.

We have planned a special programme for partners of participants (accompanying persons) that will give them an opportunity to see and enjoy the richness of Montenegro.

Firstly the partners are warmly invited to join the other participants at

- Our Welcome Reception on Sunday
- The half day Excursion including lunch on Wednesday
- Special Gala Dinner on Thursday

In addition we plan to organise special tours locally on 22-24 September especially to the famous historical cities of Budva and/or Kotor.

Conference Registration Form – Montenegro 2014

Please send by email or attachment the completed form in MSWord below to alan@cdmalma.poznan.pl . All emails will be acknowledged, please re-send if you do not hear from us after a week. **Please do NOT send the form by fax, or scanned, or by post**, we need an MSWord electronic version for our records.

Phone number in Poland for urgent or emergency messages **ONLY** is:
(international code) +48-604426763 (Mobile)

PLEASE ONLY USE THE FORM BELOW AND COMPLETE ALL SECTIONS

for registration and presenting papers or workshops.

First Name:

Family Name:

Male/Female:

Title:

Affiliation/Organisation/Institution:

Full postal address (including country and zip code):

e-mail:

Phone:

Fax:

Name(s) of accompanying person(s):

I would like to present a paper/workshop with the title:

.....

(These details can be sent later:

Arrival Date/Time/Flight

Departure Date/Time/Flight

Please answer these questions by deleting either YES or NO:

- | | |
|--|---------------|
| 1) I will attend the Welcome Reception at 7pm on Sep 21: | YES/NO |
| 2) I will attend the half day Excursion on Sep 23: | YES/NO |
| 3) I will attend the Gala Dinner at 7pm on Sep 25: | YES/NO |

5) I wish to reserve tables for the Open Forum of Ideas **YES/NO**

Payment Details

In order to make the payment process as easy and as uncomplicated as possible for all of us, we will have separate accounts for payments locally in Australia and the UK and in Poland (EU). For those paying from the USA we suggest either a bank to bank transfer OR using Western Union, whichever is more economical and convenient for you. All other parts of the world will be informed of our bank account in Poland for payment.

Please send in your registration form now and I will send you the appropriate account details. Please note IF you have an account in the above countries but live elsewhere please specify the country you wish to pay from so you can use the best method for that country!

Refund Policy

Cancellation of registration must be in writing or email. If the notification of cancellation is **before July 1, 2014** fees will be refunded, but reduced by 10% or more to cover administration and bank charges. Please note that **after July 1, 2014 no refund will be possible**, but the Conference Proceedings CD will be mailed to you by surface mail.

Please note we reserve the right to accept or reject papers and registrations.

**We look forward to hearing from you and to meeting and working with you.
Please get in touch if you have any questions.**