

Second Announcement

The Department of Education of the University of Crete

organizes the

**5<sup>th</sup> International Colloquium on the Didactics of  
Mathematics**

website: <http://www.edc.uoc.gr/5colloquium>

The colloquium will take place at the

**University of Crete,**

**Thursday 17 - Saturday 19 April 2008**

**University Campus of Rethymnon, Crete, Greece,**

**Auditoria & Lecture Rooms Δ6, Δ7, Γ2**

The **themes** of the colloquium are:

- *Aspects of the didactics of Arithmetic and Algebra*
- *The teaching and learning of Geometry*
- *Historical and epistemological issues in Mathematics Education – Revisions in Mathematics Education*
- *The teaching and learning of Statistics and Probability*
- *Alternative methods of teaching Mathematics*

Each invited talk will last 60 minute including translation in Greek. Oral presentations in parallel sessions will be assigned a **25**-minute slot, including the follow-up discussion. The official languages of the *Colloquium* are Greek, English and French.

Abstracts of proposed presentations have been submitted by September 30, 2007 and the full papers were submitted by November 25, 2007, have been reviewed by the members of the *International Scientific Committee* (consisting of specialists from 13 different countries) and authors were notified about the acceptance, or need for revision of their papers.

The website of the *Colloquium* is <http://www.edc.uoc.gr/5colloquium>, in operation since the spring 2007.

The abstracts of the accepted presentations will be posted on the website shortly. Accepted full papers will be included in the *Proceedings* and will be written in one of the official languages of the *Colloquium* (Greek, English, or French). For each presentation in Greek, there will be an abstract either in English, or in French. It is expected that the *Proceedings* will be available by the end of 2008 and hard copies will be sent to all participants via ordinary mail. Alike the previous three colloquia, the *Proceedings* will be disposed to a large

number of individuals and institutions outside Greece<sup>1</sup>.

Due to the wide response to the call for papers (about 80 papers have been submitted, two thirds of which came from 22 countries, worldwide and one third from Greece), it is expected that the *Proceedings* will appear in two volumes; one with the papers that are written in Greek, with abstracts of all others in Greek; one with the papers written in English or French, with an abstract in English for each paper that has been written in Greek. The papers of the invited speakers will appear both in the original and translated in Greek.

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## **VENUE:**

### **By airplane:**

There are many domestic flights from Athens to either Iraklion, or Chania;

Take a taxi from the airport to the bus station for Rethymnon

**Arrival at Iraklion airport:** The most convenient way to go to the bus station is to take a taxi (taxi fare about 10€). From Iraklion to Rethymnon it takes about 1h 30min by bus (75km; the bus ticket costs 6.5€) and about 1h by taxi (taxi fare about 75€).

**Arrival at Chania airport:** The airport is far from the city between Rethymnon and Chania (taxi fare about 15€ from Chania airport to the bus station in the city). From Chania to Rethymnon it takes about 1h 15min by bus (60km; the bus ticket costs 6€) and about 50min by taxi (taxi fare about 50€).

It may be more convenient (especially if the arrival is late at night) to rent a car from the airport (about 50€ per day, or cheaper if you rent the car from abroad).

### **By boat:**

From Pireaus (Athens), to:

#### **- Rethymnon:**

Monday, Wednesday & Friday

By [ANEK](#) Lines, departure 8:30pm, arrival 5:30am

#### **- Iraklion:**

Daily

By [ANEK](#) Lines, departure 8:30pm, arrival 5:30pm

By [MINOAN](#) Lines departure 9:00pm, arrival 6:00am

then by bus to Rethymnon (from Iraklion: 75km, about 1h 30min).

#### **- Chania:**

Daily

By [ANEK](#) Lines departure 9:00pm, arrival 5:30am

then by bus to Rethymnon (from Iraklion: 75km, about 1h 30min; Chania: 60km, about 50min)

Notice that there are no buses from Chania or Iraklion to Rethymnon after 9:00pm.

For more details look at the [bus timetable](#)

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<sup>1</sup>The proceedings of the 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> Colloquium have been published and are currently been distributed (the proceedings of the 1st colloquium are out of stock). The cost of each volume is 10€, postage not included. For volume purchases please contact C. Tzanakis, Department of Education, University of Crete, Rethymnon 74100 (tel. 28310-77529, e-mail: tzanakis@edc.uoc.gr).

**ACCOMODATION:**

Rethymnon is a small touristic city of 20.000 population, with many hotels, apartments, etc. For the participants' convenience, the *Organizing Committee* has made special arrangements with some hotels and it is the participants' responsibility to make their reservation by directly contacting the hotel of their preference. For more information, see accommodation in this website.

**PLACE:**

All talks will be delivered in **Auditoria Δ6, Δ7, Γ2** and at the **University Campus of Gallos**, in **Rethymnon**. You can take a bus from the city (many bus stops along the main road, Kountourioti Avenue; the ticket costs 1.20€), or you can take a taxi (the taxi fare is about 4-5€).

**PROGRAMME:** The final programme of the *Colloquium*, together with the abstracts of all accepted presentations will be announced once all papers that are subjected to revision have been resubmitted and checked.

For any additional information, please, contact

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Updated information on the programme of the colloquium and further practical details can be retrieved from its website: <http://www.edc.uoc.gr/5colloquium>

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**INVITED SPEAKERS**

Alike the previous colloquia, prominent invited speakers will participate in this Colloquium.

The following have accepted to give plenary talks:

**Abraham Arcavi**

Department of Science Teaching, Weizmann Institute of Science, Rehovot, Israel

*Towards the development of sense-making classroom practices*

**Michèle Artigue**

IREM Université Paris VII, France, President of ICMI

*Digital technology in mathematics education: an instrumental approach*

**Bill Barton**

Department of Mathematics, University of Auckland, New Zealand, Vice-President of ICMI

*Revisiting Felix Klein's "Elementary Mathematics From An Advanced Standpoint"*

**Alain Kuzniak**

IUFM Orléans & Equipe Didirem Université Paris VII, France

*Diversity of geometrical problems and trouble in the teaching and learning of geometry*

**Man Keung Siu**

Department of Mathematics, University of Hong Kong, China

*The world of geometry in the classroom : virtual or real?*

**SCIENTIFIC COMMITTEE**

- *Arcavi A.*, Department of Science Teaching, Weizmann Institute of Science, Israel
- *Barabash M.*, Achva Academic College, Israel
- *Barbin E.*, Université de Nantes, IREM-Centre F. Viète, France
- *Bonotto C.*, University of Padova, Italy
- *Duval R.*, I.U.F.M., Université de Lille 1, France
- *El Idrissi A.*, Ecole Normale Supérieure, Morocco
- *Fili Ch.*, Faculty of Applied Mathematics & Sciences, Technical University of Athens, Greece
- *Filippou G.*, Professor of the Didactics of Mathematics, Chair of the Greek Society of Researchers in Mathematics Education
- *FitzSimons G.*, Monash University, Victoria, Australia
- *Furinghetti F.*, Department of Mathematics, University of Genova, Italy
- *Gagatsis, A.*, Department of Education, University of Cyprus, Cyprus
- *Hatzikyriakou K.*, Department of Education, University of Thessaly, Greece
- *Hoyle C.* School of Mathematics, Science and Technology, Institute of Education, University of London UK
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- *Kastanis N.*, Department of Mathematics, University of Thessaloniki, Greece
- *Koleza E.*, Department of Education, University of Ioannina, Greece
- *Kourkoulos M.*, Department of Education, University of Crete, Greece
- *Kourouniotis C.*, Department of Mathematics, University of Crete, Greece
- *Kronfellner M.*, Institut für Algebra & Computermathematik, Technische Universität Wien, Austria
- *Lambrou M.*, Department of Mathematics, University of Crete, Greece
- *Lemonidis C.*, Department of Education, University of Thessaloniki, Greece
- *Mammona I.*, Department of Mathematics, University of Patras, Greece
- *Milkova E.*, Department of Informatics, University of Hradec Kralove, Czech Republic
- *Mihailidis P.*, Department of Education, University of Crete, Greece
- *Nikolantonakis K.*, Department of Education, University of West Macedonia, Greece
- *Noël G.*, Université de Mons-Hainaut, Belgique
- *Noss R.* School of Mathematics, Science and Technology, Institute of Education, University of London UK
- *Papastavridis S.*, Department of Mathematics, University of Athens, Greece.
- *Pluvinage F.*, Département des Mathématiques, Université L. Pasteur de Strasbourg, France
- *Potari D.*, Department of Education, University of Patras, Greece
- *Radford L.*, Ecole des Sciences de l' Education, Laurentian University, Canada
- *Rauscher J-C.*, I.U.F.M d' Alsace, France
- *Rogers L.*, Roehampton University of Surrey, UK
- *Sakonidis C.*, Department of Education, University of Thrace, Greece

- *Schubring G.*, Inst. für Didaktik der Mathematik, University of Bielefeld, Germany
- *Siu M-K.*, Department of Mathematics, University of Hong-Kong, China
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- *Yamalidou M.*, Dr. of the History of Science
- *Zachariades Th.*, Department of Mathematics, University of Athens, Greece
- *Zacharos K.*, Department of Educational Sciences and Early Childhood Education, University of Patras, Greece
- *Zorbala K.*, Department of Mathematics, University of the Aegean, Greece

**ORGANIZING COMMITTEE**

| <i>Organizers</i>         | <i>Members</i>  |                  |                |
|---------------------------|-----------------|------------------|----------------|
| M. Kourkoulos, co-chair   | M. Aivaliotaki  | N. Kapelonis     | S. Psaroudaki  |
| C. Tzanakis, co-chair     | G. Anagnostakis | D. Karagiorgos   | M. Souka       |
| N. Andreadakis, co-chair  | S. Anagnostakis | N. Karatasos     | Y. Spandidakis |
| P. Kalogiannaki, co-chair | H. Drymoussi    | L. Karvounis     | A. Thalassinou |
|                           | M. Halepaki     | Ch. Kourouniotis | G. Tournakis   |
|                           | A. Hatzidaki    | E. Mandadakis    | H. Vasilaki    |
|                           | P. Ioakimidis   | A. Paparseni     | K. Verykaki    |
|                           | M. Kalaitzidaki | G. Perikleidakis | C. Vogiatzis   |
|                           |                 |                  | Th. Zarkadi    |

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**THE COLLOQUIA ON THE DIDACTICS OF MATHEMATICS AT THE UNIVERSITY OF CRETE**

The *Colloquium on the Didactics of Mathematics* is organized by the Department of Education of the University of Crete, every two or three years since 1998. It takes place in April just before the Easter vacations, so that it is easier for speakers to come either from other parts of Greece, or abroad, and for the local educational community (from elementary school, to the university) to participate to it.

The previous *Colloquia* were as follows:

1<sup>st</sup> *Colloquium (with international participation)*, 10-11 April 1998,

2<sup>nd</sup> *Colloquium (with international participation)*, 21-22 April 2000

3<sup>rd</sup> *Colloquium (with international participation)*, 18-19 April 2003

4<sup>th</sup> *International Colloquium*, 22-23 April 2005

and included plenary talks by distinguished invited scholars of international reputation, as well as, oral presentations that have been blindly reviewed by the *Scientific Committee*. In the 4<sup>th</sup> and 5<sup>th</sup> *Colloquia*, the Scientific Committee had an international character and the call for papers was announced internationally with wide response from many countries (in this Colloquium, the members of the International Scientific Committee come from 13 different

countries and about two thirds of the approximately 80 submitted papers came from 23 countries worldwide).

These *Colloquia* are attended by about 250 participants (school and university teachers, students of Mathematics and Education, researchers in Mathematics Education etc). It should be noticed that distinguished invited speakers have given plenary talks in these *Colloquia*<sup>2</sup>, and that all accepted papers are published in the *Colloquium's* Proceedings. This *Colloquium* is an already established event, regularly organized and aiming at bringing together researchers in Mathematics Education from Greece and abroad and informing the local academic and educational community on recent developments and trends on the Didactics of Mathematics and related domains.

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<sup>2</sup> In the previous four Colloquia, among others the following scholars were invited speakers: G. Brousseau, T. Dreyfus, R. Duval, J. Fauvel, F. Furinghetti, C. Hoyles, F. Pluvinage, G. Vergnaud and others.