

**Fourth Central- and Eastern European Conference on
Computer Algebra- and Dynamic Geometry Systems
in Mathematics Education
22-24 June, 2012 Novi Sad, Serbia
Computer Algebra in Mathematics Education (CAME) Mini Symposium
21 June, 2012 Novi Sad, Serbia**

Second Announcement

Welcome

After a successful conferences held at [Pécs, Hungary](#) (2007), [Hagenberg, Austria](#) (2009) and [Hluboká nad Vltavou, Czech Republic](#) (2010) we are delighted to announce that the CADGME conference continues. The team from Department of Mathematics and Computer Science at Faculty of Sciences, University of Novi Sad has volunteered to host the conference in 2012 in our beautiful city [Novi Sad](#). As for the last CADGME conferences we want to create a forum for Central- and Eastern- European colleagues, and for all interested academics from around the globe to exchange ideas and nurture collaboration. We hope that you will join us in Novi Sad on 22 - 24 June 2012.

Keynote speakers

Alan Rogerson (International Consultant in Maths Education, Poland)
Fundamentals, the Future and the Power of the Force

Adrian Oldknow (Emeritus Professor, University of Chichester, UK, Research Fellow in Mathematics, Science and Technology Education, University of Amsterdam, Netherlands)
Software and activities to motivate and support learners in mathematics, science and technology

Jean-baptiste Lagrange (University of Reims, France)
Functions, Dynamic Geometry and CAS: offering possibilities for learners and teachers

Petar Kenderov (Bulgarian Academy of Science, Bulgaria)

Olga Hadžić (University of Novi Sad, Serbia)
The Role of Computers in Changing Students Attitudes Towards Mathematics

Call for papers

The aim of the conference is to continue offering a forum for academics in Central- and Eastern Europe in order to share their experiences and practices with technology-assisted mathematics teaching with colleagues from all around the world. Hence, we kindly invite colleagues - everyone from everywhere - to participate and contribute to the conference.

How to contribute

Contributed talks

The talks will be given in parallel sessions; the length is 30 minutes including discussion.

Posters

Research results can be presented on posters; will be allocated to discuss posters.

Working groups

Talks will be organized around topics (proposed list is below). We welcome proposals (max 500 words) of working groups by 15 March 2012, in which participants can contribute talks/papers. In working group sessions plenty of time will be allocated for in-depth discussion of talks/papers.

Website: <http://sites.dmi.rs/events/2012/CADGME2012/>

Contact: **Csaba Sarvari, University of Pecs** sarvari@witch.pmmf.hu
Zsolt Lavicza, University of Cambridge zl221@cam.ac.uk
Djurdjica Takači, University of Novi Sad djtak@dmf.uns.ac.rs

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Working Groups and Workshops Accepted by the Scientific Committee

Working groups

Classroom assessment and dynamic geometry

Homero Flores, Colegio de Ciencias y Humanidades-UNAM, México

Interactive Modeling and Computable Documents in Education

János Karsai, University of Szeged, Hungary

Making Materials Based on TEX and CAS/DGS

*Masataka Kaneko, Kisarazu National College of Technology, Japan
Setsuo Takato, Toho university, Japan*

Theorem-Prover based Systems (TPS) for Education (eduTPS)

*Filip Maric, University of Belgrade, Serbia,
Walther Neuper, Graz University of Technology, Austria*

Future Trends in Interactive Geometry

Ulrich Kortenkamp, CERMAT, Germany

Workshops

We encourage participants and software developers to organize workshops. Proposals (max 500 words) should be submitted by 15 March 2012, computer rooms will be provided if requested, the time limit is 1.5 hour per workshop.

How to prepare interactive *Mathematica* documents for classroom

János Karsai, University of Szeged, Hungary

**Workshop about symbolic manipulations with random variables
using Maple CAS**

Mihály Klincsik, University of Pécs, Hungary

Mathematical modelling supported by GeoGebra

Zoltán Kovács, University of Debrecen-Nyíregyháza, Hungary

GeoGebra in studying functions

Péter Körtesi, University of Miskolc, Hungary

**Casyopée an open environment for learning about functions at upper secondary
level**

Jean-baptiste Lagrange, University of Reims, France

Volume and area ratios with GeoGebra

*Libuse Samkova, University of South Bohemia, Ceske Budejovice, Czech
Republic*

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**Interactive math and science education in the Benelux, using TI-Nspire and
TINavigator in secondary education**

*Gert Treurniet (The Netherlands) and Jürgen Schepers (Belgium, Flanders), Both
teacher in secondary Education and consultant for Texas Instruments*

Publications and proceedings

Abstracts

The abstracts of contributed talks and posters will be published on the conference proceedings website. The length is maximum 300 words. The format will be available on the conference web page.

Refereed Papers

Papers can be sent for publication to the scientific committee. We are in discussion with several journals that might publish a special issue with papers presented at CADGME-2012. Papers are to be submitted by 15 September 2012. Some papers from the previous conferences can be found in the following journals:

[CADGME-2007](#), TMCS, [Volume 6 Issue 2](#), [Volume 6 Issue 1](#) [Volume 6 Issue 2](#), [Volume 7 Issue 1](#),

[CADGME-2009](#), IJTME [Volume 17 Nr 3](#), [Volume 17 Nr 4](#),

[Acta Didactica Napocensia](#), Volume 3, Number 2

[CADGME-2010](#), [eJMT](#), [Volume 5](#)

Ho to submit?

Submission is handled via the [EasyChair system](#). Its login page for CADME 2012 is accessible from the conference web page.

Important dates and deadlines

Second Announcement	5 March 2012
Working group proposals	15 March, 2012
Workshop proposals	15 March, 2012
Abstract of contributed talks and posters	15 April, 2012
Acceptance notifications	31 May, 2012
Final programme	15 June, 2012
End of pre-registration	15 June, 2012
Papers	15 September, 2012

Topics for contribution

Teaching

- The impact of CAS-DGS on mathematics teaching
- The changing role of the teacher
- Teacher learning
- Teacher training

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- Distance learning and CAS

Learning

- The impact of CAS-DGS on students' learning
- Students' attitudes toward CAS-DGS
- CAS-DGS understanding/knowledge
- Algebraic skills and CAS
- Instrumentation

Curriculum

- Design of learning environments and curricula
- Implementation of curricula and classroom practices / Innovative practices

Assessment

- Assessment in CAS-DGS environments
- CAS-DGS in Web-based assessment systems

Proposed Programme

22 June 2012	
Time	Session
8:30-10:00	Registration
10:00-10:30	Welcome
10:30-11:15	Plenary I
11:15-12:00	Welcome reception
12:00-12:45	Plenary II
12:45-14:15	Parallel session I
14:15-14:45	Coffee with snack
14:45-15:30	Plenary II
15:30-18:00	Parallel session II
19:00-22:00	Welcome dinner
23 June 2012	
9:00-10:30	Parallel session III
10:30-11:00	Coffee break
11:00-12:30	Plenary III
12:30-13:15	Plenary IV
13:15-14:30	Lunch
15:30-16:00	Parallel session IV
16:00-21:00	Excursion
24 June 2012	
9:00-11:00	Workshops
10:30-11:00	Coffee break
11:00-11:45	Plenary V
11:45-12:30	Closing
12:30-14:00	Lunch

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Fees

Registration fee:	150 Euro
Student fee:	70 Euro
Accompanying person	70 Euro
CAME Mini Symposium	35 Euro
Excursion	25 euro

Excursion with tasting wine and snacks 25 euros

What is covered by the registration fee for PARTICIPANTS?

- Conference materials
- Admission to Scientific Sessions
- Welcome reception
- Welcome dinner
- 2 lunches and coffee breaks,

What is covered by the fee for ACCOMPANYING PERSONS?

- Welcome reception
- Welcome diner
- 2 lunches and coffee breaks,

Registration

Registration for the conference can be done electronically on the conference web page.

Grants There are possibility for some grants. Please contact local organizing Committee:
before May 1st 2012, djtak@dmf.uns.ac.rs

Accommodation

Hotel list Novi Sad

- **Putnik**, (single bed room 33 euros , double bed room 28 Euro pp, including breakfast and taxes, centre, no parking,)
- Hotel **Vigor** , (single bed room 35 euros , double bed room 25 Euro pp, including breakfast and taxes, free parking)

Travel

Directions and instructions can be found on the conference website

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Scientific committee

Burkhard Alpers (Fachhochschule Aalen - University of Applied Sciences, Germany)
Teresa Assude (Université de Provence, France)
Paul Andrews (University of Cambridge, UK)
Bärbel Barzel (Universität Duisburg-Essen, Germany)
Bruno Buchberger (RISC, University of Linz, Austria)
Douglas Butler (ICT Training Centre Oundle School), UK)
J. Orlando Freitas (University of Madeira, Portugal)
Karl Fuchs (University of Salzburg, Austria)
Erika Gyöngyösi (University of Miskolc, Comenius College, Hungary)
Samer Habre (Lebanese American University, Lebanon)
Stephen J. Hegedus (University of Massachusetts, USA)
Kathleen Heid (Pennsylvania State University, USA)
Markus Hohenwarter (Johannes Kepler University Linz Mathematics Education, Austria)
Djordje Kadijevich (Mathematical Institute, Serbian Academy of Sciences and Arts, Serbia)
János Karsai (University of Szeged, Hungary)
Carolyn Kieran (Université du Québec á Montréal, Canada)
Vesna Kilibarda (Indiana University Northwest, USA)
Vlasta Kokol-Voljc (University of Maribor, Slovenia)
Ulrich Kortenkamp (University of Education Schwäbisch Gmünd, Germany)
Zoltán Kovács (University of Debrecen - College of Nyíregyháza, Hungary)
Bernhard Kutzler (Austrian Center for Didactics of Computer Algebra ,Austria)
Jean-baptiste Lagrange (I.U.F.M. Reims and Didirem Université Paris VII, France)
Zsolt Lavicza (University of Cambridge, UK)
Matija Lokar (University of Ljubljana, Slovenia)
John Monaghan (University of Leeds, UK)
Eric Muller (Brock University, Canada)
Ildikó Perjési-Hámori (University of Pécs, Hungary)
Werner Peschek (Alpen - Adria Universität Klagenfurt, Austria)
Kenneth Ruthven (University of Cambridge, UK)
Csaba Sárvári (University of Pécs, Hungary)
Edith Schneider (Alpen - Adria Universität Klagenfurt, Austria)
Lajos Szilassi (University of Szeged, Hungary)
Denis Tanguay (Université du Québec á Montréal, Canada)
Luc Trouche (INRP (National Institut of Pedagogical Research), Lyon, France)
Éva Vásárhelyi (Eötvös Loránd University, Hungary / University of Salzburg, Austria)
Rose Mary Zbiek (The Pennsylvania State University, USA)
Nurit Zehavi (Weizmann Institute of Science, Israel)
Petar Kenderov (Bulgarian Academy of Science, Bulgaria)
Doru Paunescu (University "POLITEHNICA" of Timișoara, Romania)
Olga Hadžić (University of Novi Sad, Serbia)
Đurđica Takači (University of Novi Sad, Serbia)
Arpad Takači (University of Novi Sad, Serbia)
Đorđe Herceg (University of Novi Sad, Serbia)

Website: <http://sites.dmi.rs/events/2012/CADGME2012/>

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Sponsors

We encourage companies or organizations to sponsor the conference or events related to the conference. In exchange, we can offer publishing their logo on our website, in conference rooms, and around the conference sites.

About Department of Mathematics and Informatics Novi Sad, Serbia

Department of Mathematics and Informatics was established in 1954. Since then, represents one of the leading teaching and research institutions in the field of mathematics and computer science that develops into a modern, European Department, recognized for its educational and scientific achievements of teachers, graduate students, PhD students.

The teaching process is conducted through 9 accredited study programs at undergraduate, graduate and doctoral studies.

Scientific-research process is conducted through a series of national and international projects in pure mathematics, applied mathematics, mathematics education and computer science.

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**Computer Algebra in Mathematics
Education (CAME) Mini Symposium**

21 June, 2012, Novi Sad, Serbia

Aims

In this CAME Mini-symposium, we would like to review and discuss the work carried out during the past two decades on the role of CAS and its research in mathematics education. Our Keynote Speakers have offered us to deliver a stimulating talk and paper in this area. We aim to discuss this topic as well as make preparations for a regular CAME event in 2013.

Keynote speakers

Hans-Georg Weigand (University of Wuerzburg, Germany)

Theses about the use of Computer Algebra Systems in the next decade

Jean-baptiste Lagrange (University of Reims, France)

*Activity Theory Approaches to Technology Enhanced Mathematical Learning
Orchestrations*

Proposed Programme

20 June 2012	
Time	Session
19:00-22:00	Informal dinner
21 June 2012	
8:30-9:00	Registration
9:00-9:15	Opening and Welcome
9:15-10:00	Plenary I: Hans-Georg Weigand
10:00-10:30	Discussion
10:30-11:00	Coffee Break
11:00-11:45	Short presentations
11:45-12:45	Discussion
12:45-14:00	Lunch
14:00-14:45	Plenary II: Jean-Baptiste Lagrange
14:45-16:00	Discussion
16:00-16:30	Coffee Break
16:30-17:45	Discussion
17:45-18:00	Closing

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How to contribute

Besides discussions about topics raised by the Keynote Speakers there will be a possibility to give short (5min) presentations to reflect to the topics presented by Keynotes or to raise other issues

Registration

Registration can be done on the CADGME website.

Fees

The registration fee is 35 Euro/person, which includes coffees and lunch as well as contributes to the expenses of Keynote speakers.

Travel and Accommodation

Details of travel and accommodation can be found on the CADGME website

International Committee

Michel Beaudin, Ecole de Technologie Superieure, Montreal, Canada

Roger Brown, University of Bath, UK

Paul Drijvers, Freudenthal Institute, University of Utrecht, Netherlands

Kathy Heid, Pennsylvania State University, USA

Cyril Julie, University of the Western Cape, South Africa

Barry Kissane, Murdoch University, Australia

Jean-Baptiste Lagrange, I.U.F.M., Reims, France

Zsolt Lavicza, University of Cambridge, UK [COMMITTEE CHAIR]

Matija Lokar, University of Ljubljana, Slovenia

John Monaghan, University of Leeds, UK

Antonio Quesada, Akron University, Ohio, USA

Csaba Sarvari, University of Pécs, Hungary

Edith Schneider, University of Klagenfurt, Austria

Anthony Watkins, University of Plymouth, UK [former chair]

Hans-Georg Weigand, University of Wuerzburg, Germany

Rose Mary Zbiek, Pennsylvania State University, USA [former chair]

Nurit Zehavi, Weizmann Institute, Israel [former chair]

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