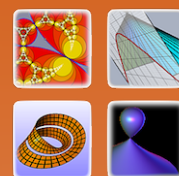




Fifth Central- and Eastern European Conference on  
Computer Algebra- and Dynamic Geometry Systems  
in Mathematics Education  
26-29 September, 2014 Halle (Saale), Germany



# Second Announcement

## WELCOME

After four successful conferences held at **Pécs, Hungary** (2007), **Hagenberg, Austria** (2009), **Hluboká nad Vltavou, Czech Republic** (2010) and **Novi Sad, Serbia** (2012) we are delighted to announce that the CADGME conference continues. The team of the Department of Mathematics at the Faculty of Sciences, University of Halle-Wittenberg has volunteered to host the conference in 2014 in the beautiful city of Halle, Germany. Similarly to the previous 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 Halle on 26 - 29 September 2014!

## KEYNOTE SPEAKER



### **Ralph-Johan Back**

Abo Akademi University Turku, Finland

**Structured derivations in practice: experiences from the E-math project (Abstract)**



### **Marcelo de Carvalho Borba**

GPIMEM - Grupo de Pesquisa em Informática, Outras Mídias e Educação Matemática, Brasil



### **Predrag Janičić**

University of Belgrade, Serbia

**Challenges for the Next Generation Mathematics Education Software (Abstract)**



### **Tomas Recio**

Universidad de Cantabria, Santander, Spain

**Dynamic Geometry and Mathematics: few trains on a two-way track (Abstract)**



### **Jürgen Richter-Gebert**

Technische Universität München, Germany

**Mathematics on electronic media in a changing world (Abstract)**

## 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.



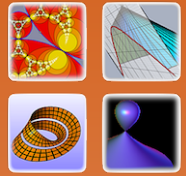
MARTIN-LUTHER-UNIVERSITÄT  
HALLE-WITTENBERG



Asian Technology Conference in Mathematics  
An enjoyable and instructive conference

Csaba Sárvári, University of Pécs, [sarvari.cs@gmail.com](mailto:sarvari.cs@gmail.com)  
Zsolt Lavicza, University of Cambridge, [zl221@cam.ac.uk](mailto:zl221@cam.ac.uk)  
Ulrich Kortenkamp, University of Halle, [kortenkamp@cermat.org](mailto:kortenkamp@cermat.org)

<http://cadgme2014.cermat.org>



## CALL FOR PAPERS

The aim of the conference is to continue offering a forum for academics in Central- and Eastern Europe in closer connection with Western European colleagues 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. The conference language is English.

### How to contribute

#### **Research Reports**

Contributed Talks will be given in parallel sessions; the length is 30 minutes including discussion.

#### **Posters**

Research results can be presented on posters. There will be time allocated to present and discuss posters.

#### **Working groups**

Talks will be organized around the conference topics as shown in the proposed list below. In working group sessions plenty of time will be allocated for in-depth discussion of talks/papers.

#### **Workshops**

We encourage participants and software developers to organize workshops. Proposals (max 500 words) should be submitted by 19 May, 2014. Please let us know about the technical facilities needed for the workshops.

#### **Student contributions**

We will offer a special track for Ph.D. students and teachers to encourage contributions from young researchers. The best student contribution will receive a prize.

### Electronic submission of proposals and abstracts

Submission of proposals for workshops and abstracts of contributed talks and posters will be proceeded via the **CADGME conference administration tool (ConfTool)**, starting by 14 April 2014.

### Publication, proceedings

#### **Abstracts**

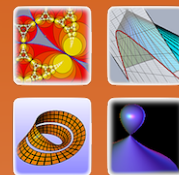
The abstracts of contributed talks and posters will be published on the conference proceedings website. The length is maximum 300 words. The format will be available on the conference web page.

#### **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 2014. Papers are to be submitted through **ConfTool** by 15 December 2014.

## PROPOSED PROGRAMME

The conference will start on September 26 in the morning and end on September 29 noon. The detailed program will be announced later.



## IMPORTANT DATES AND DEADLINES

<b>ConfTool</b> available	14 April, 2014
Abstracts of Contributed Talks and Posters	19 May 2014
Workshop Proposals	19 May 2014
Acceptance Notifications	29 May 2014
End of Early Bird Registration	2 June 2014
End of Registration	15 September 2014
Final Programme	15 September 2014
Conference	September 26-29, 2014
Final Papers	15 December 2014

## TOPICS FOR CONTRIBUTION

### Teaching

- The impact of digital tools on mathematics teaching
- The changing role of the teacher
- Teachers' professional development
- Teacher training
- Distance learning and digital tools

### Learning

- The impact of digital tools on students' learning
- Students' attitudes toward digital tools
- Understanding and knowledge with respect to digital tools
- Algebraic skills and digital tools
- Instrumentation and Instrumentalization
- Creativity and digital tools

### Curriculum

- Design of learning environments and curricula
- Implementation of curricula and classroom practices
- Innovative practices
- Promises of digital tools for curriculum development and administration

### Assessment

- Assessment with digital tools
- Web-based assessment systems
- Problem solving and stepwise use of digital tools
- Intelligent Assessment



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## WORKING GROUPS

Submission of abstracts and papers for the following working groups will be proceeded via the **CADGME conference administration tool (ConfTool)**, starting by 14 April 2014.



*Francisco Botana*  
University of Vigo, Spain

**Automated Deduction in Dynamic Geometry Tools**



*Matija Lokar*  
University of Ljubljana, Slovenia

**CADG Tools, Teaching and Learning**



*Setsuo Takato et al.*  
Toho University, Japan

**Collaborative use of DGS and KETpic**



*János Karsai*  
University of Szeged, Hungary

**Computer-Aided Experiments and Explorations in the Math Classroom**



*The MC<sup>2</sup> Project*

**Creative Mathematical Thinking and Digital Tools**



*Ulrich Kortenkamp et al.*  
Martin-Luther-University of Halle-Wittenberg, Germany

**Future Trends in Interactive Geometry**



*Paul Libbrecht et al.*  
University of Education Weingarten, Germany

**Open Educational Resources in Mathematics**



*Filip Marić et al.*  
University of Belgrade, Serbia

**Reasoning and Proving with Tool Support (Abstract)**

## WORKSHOPS (SO FAR)

Submit your workshop proposal via the **CADGME conference administration tool (ConfTool)** before 19 May 2014.



*János Karsai*  
University of Szeged, Hungary

**Development of Dynamic Demonstrations with Mathematica**



*Alfred Wassermann*  
Universität Bayreuth, Germany

**Sketchometry - DGS for tablets, smartphones and interactive whiteboards**



*Christian Bokhove*  
University of Southampton, England

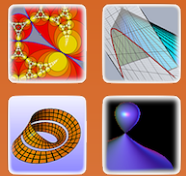
**Using and Developing Interactive, Creative, Mathematics Textbooks (cBooks)**



*Péter Körtesi*  
University of Miskolc, Hungary

**Using GeoGebra to study the Famous Curves of the MacTutor History of Mathematics archive**

Please visit <http://cadgme2014.cermtat.org/topics> to find updates and abstracts for working groups and workshops.



## REGISTRATION AND FURTHER INFORMATION

### Electronic Registration and Submission

You can register for the conference via **ConfTool**. Also, all submissions and payments are handled in that system.

During September hotel rooms in Halle (Saale) are short. Please consider a very quick reservation. A variety of hotels is listed on our **guided map**.

### Conference Fees

	<b>Early bird fee</b> (before June 1st)	<b>Standard fee</b> (before Aug. 31st)	<b>Late registration</b> (after August 31)
<b>Regular</b>	180 €	200 €	220 €
<b>Teacher</b>	180 €	200 €	220 €
<b>Student</b>	160 €	180 €	200 €
<b>Accompanying Person</b>	80 €	80 €	80 €

#### The registration fee for participants covers

- Conference materials
- Admission to Scientific Sessions
- Welcome reception
- Welcome dinner
- Lunch on each conference day and coffee breaks

#### The registration fee for accompanying persons covers

- Welcome reception
- Welcome dinner
- Lunch on each conference day and coffee breaks

### Grants

There is the possibility for a limited number of grants, please contact the local organizing committee before June 2014 in case you need financial support.

### Excursion

An optional excursion will be offered for a separate fee.

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## Accommodation

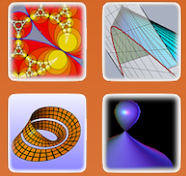
Halle offers a wide range of hotels and other accommodation facilities in all price ranges. We will arrange for special rates with some hotels. More information will be available soon on the conference website.

## Travel

Halle is conveniently located in central Germany about 40 km from Leipzig and 160 km south of Berlin. Direct flights either to Leipzig/Halle Airport (LER) or Berlin (BER/TXL/SXF) are available from many destinations in Europe. There is also a direct stop of to the ICE high speed train and the CityNightLine at Halle main station, if you prefer to travel by train, and a good Autobahn connection for those traveling by car. Directions and further instructions will be available soon on the conference website.

## PRELIMINARY SCHEDULE

					September 2014				
		Fri 26		Sat 27		Sun 28		Mon 29	
all-day CADGME 2014 Halle (Saale), Germany									
Teachers Day									
08:00	08:00 Registration (Early Coffee & Breakfast)								
09:00	09:00 Opening Ceremony	08:30 Early Coffee & Breakfast	08:30 Early Coffee & Breakfast	08:30 Early Coffee & Breakfast	08:30 Early Coffee & Breakfast	08:30 Early Coffee & Breakfast	08:30 Early Coffee & Breakfast	08:30 Early Coffee & Breakfast	08:30 Early Coffee & Breakfast
10:00	09:30 Keynote (Jürgen Richter-Gebert)	09:30 Keynote (Tomás Recio)	09:30 Keynote (Marcelo de Carvalho Borba)	09:30 Keynote (Predrag Janičić)	09:30 Keynote (Marcelo de Carvalho Borba)	09:30 Keynote (Predrag Janičić)	09:30 Keynote (Predrag Janičić)	09:30 Keynote (Predrag Janičić)	09:30 Keynote (Predrag Janičić)
11:00	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break
12:00	11:00 Parallel Session	11:00 Parallel Session	11:00 Parallel Session	11:00 Parallel Session	11:00 Parallel Session	11:00 Parallel Session	11:00 Parallel Session	11:00 Parallel Session	11:00 Parallel Session
13:00	13:00 Lunch (incl. Coffee Break)	13:00 Lunch (incl. Coffee break)	13:00 Lunch (incl. Coffee break)	13:00 Lunch (incl. Coffee break)	13:00 Lunch (incl. Coffee break)	13:00 Lunch (incl. Coffee break)	13:00 Lunch (incl. Coffee break)	13:00 Lunch (incl. Coffee break)	13:00 Lunch (incl. Coffee break)
14:00	14:15 Parallel Session	14:15 Parallel Session	14:15 Parallel Session	14:15 Parallel Session	14:15 Parallel Session	14:15 Parallel Session	14:15 Parallel Session	14:15 Parallel Session	14:15 Parallel Session
15:00	16:45 Keynote (Ralph-Johan Back)	16:45 Parallel Session	16:45 Parallel Session	16:45 Parallel Session	16:45 Parallel Session	16:45 Parallel Session	16:45 Parallel Session	16:45 Parallel Session	16:45 Parallel Session
16:00	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break
17:00	18:00 Welcome Reception	19:00 Conference Dinner Kröllwitzer Straße 45 06120 Halle (Saale)	19:00 Conference Dinner Kröllwitzer Straße 45 06120 Halle (Saale)	19:00 Conference Dinner Kröllwitzer Straße 45 06120 Halle (Saale)	19:00 Conference Dinner Kröllwitzer Straße 45 06120 Halle (Saale)	19:00 Conference Dinner Kröllwitzer Straße 45 06120 Halle (Saale)	19:00 Conference Dinner Kröllwitzer Straße 45 06120 Halle (Saale)	19:00 Conference Dinner Kröllwitzer Straße 45 06120 Halle (Saale)	19:00 Conference Dinner Kröllwitzer Straße 45 06120 Halle (Saale)
18:00									
19:00									
20:00									
21:00									
22:00									
23:00									



## SCIENTIFIC COMMITTEE

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**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)  
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**Nurit Zehavi** (Weizmann Institute of Science, Israel)  
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## LOCAL ORGANIZING COMMITTEE

Organizing Committee from the Department of Mathematics, work group Mathematical Education at the **University of Halle**, Germany.

### Head Organizer

Ulrich Kortenkamp  
[kortenkamp@cemat.org](mailto:kortenkamp@cemat.org)



Chris Dohrmann  
[dohrmann@cemat.org](mailto:dohrmann@cemat.org)



## LOCAL IMPRESSIONS

