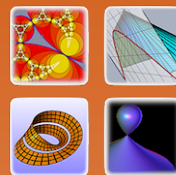




Fifth Central- and Eastern European Conference on  
Computer Algebra- and Dynamic Geometry Systems  
in Mathematics Education  
26-29 September, 2014 Halle (Saale), Germany



# First 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. 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 Halle on 26 - 29 September 2014!

## KEYNOTE SPEAKER



**Ralph-Johan Back**  
Abo Akademi University Turku, Finland



**Marcelo de Carvalho Borba**  
GPIMEM - Grupo de Pesquisa em Informática, Outras Mídias e Educação Matemática, Brasil



**Predrag Janičić**  
University of Belgrade, Serbia



**Tomas Recio**  
Universidad de Cantabria, Santander, Spain



**Jürgen Richter-Gebert**  
Technische Universität München, Germany

## 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.



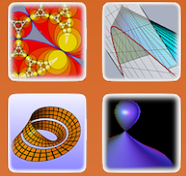
MARTIN-LUTHER-UNIVERSITÄT  
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CERMAT  
Centre for Educational Research in  
Mathematics and Technology



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## 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

#### **Contributed talks**

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. We welcome proposals (max 500 words) of working groups by 1 April, 2014 in which participants can contribute talks/papers. 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 1 April, 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/working groups and abstracts of contributed talks and posters will be available electronically on the conference web page starting March, 2014.

### Publication, proceedings

#### **Abstracts**

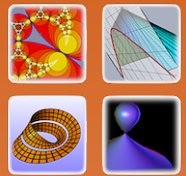
The abstracts of contributed talks and posters will be published on the conference proceedings website. The length is maximum 300 words. The format will be available on the conference web page.

#### **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 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

Working group proposals	April 1, 2014
Workshop proposals	April 1, 2014
Second Announcement	April 15, 2014
Abstracts of contributed talks and posters	May 19, 2014
Acceptance notifications	June 16, 2014
Final programme	September 15, 2014
End of pre-registration	September 15, 2014
Conference	September 26-29, 2014
Final Papers	December 15, 2014

## TOPICS FOR CONTRIBUTION

### Teaching

- The impact of CAS-DGS on mathematics teaching
- The changing role of the teacher
- Teachers' professional development
- Teacher training
- Distance learning and CAS-DGS
- Teaching with upcoming TP-based systems (TPS)

### Learning

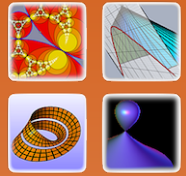
- The impact of CAS-DGS on students' learning
- Students' attitudes toward CAS-DGS
- CAS-DGS understanding/knowledge
- Algebraic skills and CAS
- Instrumentation
- Learning with upcoming TP-based systems (TPS)
- Creativity and CAS-DGS

### Curriculum

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

### Assessment

- Assessment in CAS-DGS environments
- CAS-DGS in Web-based assessment systems
- Evaluation of step-wise problem solving with TPS
- Intelligent Assessment



## REGISTRATION AND FURTHER INFORMATION

### Fees

Conference fees have not been determined yet, but we are aiming at a low fee that is affordable for participants from all over Europe. Furthermore, we're currently negotiating special rates for accommodation and catering that will be published at the conference website until March 2014 latest. A discount rate for students and for accompanying persons will be available. We will try to match the prices of past CADGME conferences (about 160 € / 70 € reduced for 2.5 days). 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.

An optional excursion will be offered for a separate fee.

#### **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

### Electronic Registration

Registration for the conference will be available electronically on the conference web page starting April, 2014.

### 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. Please find more information on the conference website at:

<http://cadgme2014.ceremat.org>

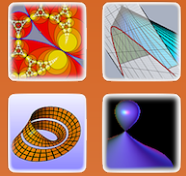
### Travel

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 can be found on the conference website at:

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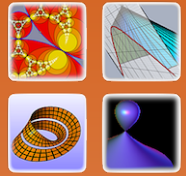


 SCIENTIFIC COMMITTEE

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**Bärbel Barzel** (Universität Duisburg-Essen, Germany)  
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**Rose Mary Zbiek** ( The Pennsylvania State University, USA)  
**Nurit Zehavi** (Weizmann Institute of Science, Israel)  
**Đurđica Takači** (University of Novi Sad, Serbia)



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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

