MATHEMATICS IN ARCHITECTURE AND CIVIL ENGINEERING DESIGN AND EDUCATION

University of Pécs Pollack Mihály Faculty of Engineering
Pécs, May 26-28 (Thursday – Saturday), 2011

We are pleased to announce that in 2011 the University of Pécs Pollack Mihály Faculty of Engineering is organizing a conference in order to facilitate teachers and researchers involved in the education of architects and civil engineers to share their experience in the up-to-date and effective teaching and research of Mathematics.

In addition to the conference it will be possible to introduce, within the framework of workshops, software that are based on dynamic geometric and finite element calculations, as well as to hold product presentations.

Planned plenary lectures:

Zoltán Bachman *University of Pécs, Hungary:*
Architecture and Mathematics (Confessions of an Old Architect)

Sonja Gorjanc *University of Zagreb, Croatia:*
Circular Surfaces - Mathematical Visualizations

Miklós Iványi *University of Pécs, Hungary*

Slavik Jablan *The Mathematical Institute, Belgrade, Serbia :*
Knots in Architecture

Ali Kaveh *University of Science and Technology, Iran:*
New Developments in Graph Products and Applications in Structural Engineering

Zdenka Kolar-Begovic, Ružica Kolar-Šuper, *University of Osijek, Croatia:*
Geometry of GS-quasigroups

András Kotschy, Attila Balázs Nagy *Kotschy and Partners Ltd. Törökbálint , Hungary:*
Acoustic design of the Concert Hall of Kodály Centre, Pécs with Computer Aided Modeling, Results

Márta Szilvási-Nagy *Budapest University of Technology and Economy, Hungary:*
Geometric Computations on Triangle Meshes

Pál Rózsa *Budapest University of Technology and Economy, Hungary:*
Ars Poetica of Teaching Mathematics to Civil Engineers

Mihály Szoboszlai *Budapest University of Technology and Economy, Hungary:*
Constructive Geometry - Basis of Visual Engineering Communication

Tibor Tarnai *Budapest University of Technology and Economy, Hungary*

Y. Cengiz Toklu *Yeditepe University, Istanbul, Turkey:*
Increasing Role of Meta-heuristics in Solving Engineering Problems

Gunter Weiss *University of Technology, Dresden, Germany-Austria*
Geometry – the „King's Road" to Modern Architecture and Engineering

Language of the conference: Hungarian, English.

Main topics of the conference:

- · issues of the education of Mathematics

- · issues of the education of Geometry and Descriptive Geometry

- · applications of Geometry and computer graphics

- · structural modeling and calculations

- · finite element methods

- · geographic information systems (GIS)

The lectures in the panel sessions are planned to last 20 minutes.

In the poster section a 90cm x 200cm surface in portrait format will be available to all participants / registrants.

The **workshops** will be held in computer labs with 25 computers, it will be possible to install in advance the software to be presented.

The venue of the **product presentations** will be the aula of PTE PMMK where we will establish the area of the presentation after a prior needs assessment.

Application, upload of abstracts is only possible electronically, on the website of the conference: http://matep.pmmk.pte.hu.

Important dates:

Submission of lecture abstracts:	April 1, 2011
Acceptance of lectures:	April 30, 2011
Submission of Pollack Periodica paper:	May 20, 2011
Closing of applications:	May 20, 2011

For more information and application for the conference please visit its website:
http://www.matserv.pmmf.hu/matep

Should you have any questions or remarks, please feel free to contact the organizers of the conference via the following e-mail address: matep@pmmk.pte.hu.

We are looking forward to receiving your application.

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