



**18th Scientific-Professional Colloquium on  
Geometry and Graphics  
BELI MANASTIR  
September 6–10, 2015**

**ORGANIZER:**

Croatian Society for Geometry and Graphics

# PROGRAM

**COMMITTEE:**

Gorana Aras-Gazić, Jelena Beban-Brkić, Sonja Gorjanc, Helena Halas,  
Ema Jurkin (vice-president), Mirela Katić Žlepalo, Nikolina Kovačević,  
Željka Milin Šipuš, Marija Šimić Horvath (president)

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## SUNDAY, SEPTEMBER 6

17.00–19.00 Registration

19.00–21.00 DINNER

## MONDAY, SEPTEMBER 7

7.00– 9.00 BREAKFAST

### **Morning session** (Chairperson: M. Šimić Horvath)

9.00– 9.10 OPENING

9.10– 9.55 Plenary lecture  
G. Glaeser: *“Math-Letters” from a Geometrical Point of View*

9.55–10.20 COFFEE BREAK

10.20–10.40 L. Vörös: *Five Cubes in the Dodecahedron and 3D Models of Hypercubes*

10.40–11.00 L. Németh: *Hyperbolic Pascal triangles*

11.00–11.10 PAUSE

11.10–11.30 A. Mazzucchi: *Kinematic Patterns of the Triangular Resch Tessellation*

11.30–11.50 D. Ilišević: *On some Geometrical Preserver Problems and their Stability*

12.00–14.00 LUNCH



**Afternoon session** (Chairperson: E. Jurkin)

- 15.00–15.45 Plenary lecture  
Lj. Radović: *On Symmetry Classification of Serbian Medieval Frescoes Ornaments*
- 15.45–16.10 COFFEE BREAK
- 16.10–16.30 N. Wildberger: *Cyclic Quadrilaterals, Formulas of Brahmagupta and Parameshvara, and One Dimensional Rational Trigonometry*
- 16.30–16.50 G. Weiss: *Elementary Constructions for Conics in Hyperbolic and Elliptic Planes*
- 16.50–17.00 PAUSE
- 17.00–17.20 N. Kovačević: *Maclaurin Mapping in the pseudo-Euclidean Plane*
- 17.20–17.40 I. Božić, H. Halas: *Pedal Curves and their Envelopes*
- 19.00–21.00 DINNER

**TUESDAY, SEPTEMBER 8**

- 7.00– 8.30 BREAKFAST
- 8.30–19.00 EXCURSION - Kopački Rit, Đakovo, Zmajevac
- 19.00–21.00 DINNER



## WEDNESDAY, SEPTEMBER 9

7.00– 9.00 BREAKFAST

### Morning session (Chairperson: J. Beban-Brkić)

9.00– 9.45 Plenary lecture

E. Molnár: *Constructions on the Absolute Plane, to the Memory of Julius (Gyula) Strommer 1920-1995*

9.45–10.10 COFFEE BREAK

10.10–10.30 E. Jurkin, S. Gorjanc: *Circular Curves in Euclidean Plane*

10.30–10.50 S. Gorjanc, E. Jurkin: *Spherical Surfaces in Euclidean Space*

11.10–11.20 PAUSE

11.20–11.40 D. Velichová: *Laces*

11.40–12.00 I. Protrka: *Harmonic Evolutes of Timelike Ruled Surfaces in Minkowski Space*

12.00–14.00 LUNCH



**Afternoon session** (Chairperson: S. Gorjanc)

- 15.00–15.45 Plenary lecture  
S. Mick: *Geometry Education and a Model of Geometry Competences*
- 15.45–16.10 COFFEE BREAK
- 16.10–16.30 S. Krasić, P. Pejić, H. Krstić: *Implementation of Contemporary Methods in Teaching Descriptive Geometry at the Faculty of Civil Engineering and Architecture of Niš*
- 16.30–16.50 B. Divjak, M. Maretić: *Geometry for Learning Analytics*
- 16.50–17.00 PAUSE
- 17.00–17.20 P. Pejić, S. Krasić, M. Markulin: *Augmented Reality Presentation of Geometrical Surfaces in Architecture*
- 17.20–17.40 L. Pletenac: *Modern 3D Technology and Geometry*
- 17.40–18.30 POSTER SESSION
- D. Andrić: *The Rosetta Project - an Exploration Into Geometric Polymorphism*
- Z. Erjavec, D. Horvat: *On Certain Classes of Weingarten Surfaces in Sol Space*
- J. Beban-Brkić, M. Šimić Horvath: *A Sequel to “Interaction Among Courses”*
- H. Halas: *Circular Curves of the 3rd Class Obtained by Pedal Transformation in the quasi-Hyperbolic Plane*
- B. Pejić, J. Marinković, P. Pejić, S. Krasić: *Presentation of Old Building Facade Using Augmented Reality*
- EXHIBITION
- T. F. Farkas: *Magical Dimensions*
- 20.30–.... COLLOQUIUM DINNER



## THURSDAY, SEPTEMBER 10

7.00– 9.00 BREAKFAST

### Morning session (Chairperson: L. Pletenac)

9.00– 9.45 Plenary lecture

L. Cocchiarella: *When Image sets Reality* *Perspectival alchemy in Velázquez's Las Meninas*

9.45–10.10 COFFEE BREAK

10.10–10.30 A. Böleskei: *Architectural Shapes and Curvilinear Perspectives*

10.30–10.50 I. Kodrnja: *Projective Models for Riemann Surfaces*

10.50–11.10 H. Stachel: *Strophoids and the Equicevian Points of a Triangle*

11.10–11.20 CLOSING

12.00–14.00 LUNCH

Departure