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 Žlepašlo, Nikolina Kovačević,
Željka Milin Šipuš, Marija Šimić Horvath (president)

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Croatia and the Foundation of Croatian Academy of Sciences and Arts.
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

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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. Krasič, 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. Krasič, 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. Krasič: *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. Bölcskei: Architectural Shapes and Curvilinear Perspectives


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

11.10 – 11.20  CLOSING

12.00 – 14.00  LUNCH

Departure