



**14th Scientific-Professional Colloquium on  
Geometry and Graphics  
VELIKA, September 6–10, 2009**

ORGANIZER:  
Croatian Society for Geometry and Graphics

# PROGRAM

COMMITTEE:  
Maja Andrić, Ivanka Babić, Sonja Gorjanc (vice-president),  
Katica Jursić, Ema Jurkin (president), Mirela Katić-Žlepalo,  
Nikolina Kovačević, Vlasta Szivovicza, Nikoleta Sudeta, Marija Šimić

CO-ORGANIZERS::  
Faculty of Civil Engineering, University of Zagreb

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## SUNDAY, SEPTEMBER 6

17.00–20.00 Registration

19.00–21.00 DINNER

## MONDAY, SEPTEMBER 7

7.00– 9.00 BREAKFAST

### **Morning session** (Chairperson: E. Jurkin)

9.00– 9.10 OPENING

9.10– 9.50 Plenary lecture  
G. Glaeser: *1001 Images of mathematics*

9.55–10.20 COFFEE BREAK

10.20–10.35 A. Čučaković, B. Jović: *Interrelation between anaglyph stereo pairs*

10.40–10.55 G. Wallner: *Problems with hemispherical projections for visibility determination*

11.00–11.15 F. Gruber: *Applications and modifications of 3D - Voronoi structures*

11.20–11.30 PAUSE

11.30–11.45 M. Szilvási-Nagy: *Manipulating B-spline surfaces and their demonstration with Mathematica*

11.50–12.05 S. Gorjanc: *Rose surfaces*

12.10–14.30 LUNCH BREAK



**Afternoon session** (Chairperson: M. Šimić)

- 14.30–15.10 Plenary lecture  
H.-P. Schröcker: *Pairs of tetrahedra with orthogonal edges*
- 15.15–15.35 PAUSE
- 15.35–15.50 H. Stachel: *Comments on Kokotsakis meshes*
- 15.55–16.10 M. Hamann: *Approximation of geodesics on triangular surfaces using normals*
- 16.15–16.25 PAUSE
- 16.25–16.40 N. Kovačević, V. Szivovics: *Inversion in pseudo-Euclidean geometry*
- 16.45–17.00 A. Sliepčević: *Curve of foci of pencil of conics in pseudo-Euclidean plane*
- 19.00– 21.00 DINNER

TUESDAY, SEPTEMBER 8

- 7.00– 9.00 BREAKFAST
- 9.00–19.00 Excursion (Požega, Kutjevo, Nature Park Papuk)
- 19.00–21.00 DINNER



WEDNESDAY, SEPTEMBER 9

7.00– 9.00 BREAKFAST

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

9.00– 9.15 Ž. Milin Šipuš: *Geometry in the National curriculum framework for compulsory education in Croatia*

9.20– 9.35 B. Divjak, M. Ostroški: *Student attitudes towards mathematics and using new technologies in teaching process*

9.40–9.55 L. Pletenac: *Learner oriented e-learning against the eternal problem of good understanding*

10.00–10.25 COFFEE BREAK

10.30–10.45 G. Djukanović: *Designing laminated furniture in AutoCAD software environment*

10.50–11.05 A. Čučaković, B. Jović: *Geometrical structure of the geodesic dome*

11.10–11.25 H. Halas: *Isogonal and isotomic conjugates of a triangle*

11.30–11.40 PAUSE

10.40–11.55 T. Došlić: *How to ride a hungry donkey between two haystacks*

12.00–12.15 K. Jursić: *Isoptic curve associate to couple of second order curves*

12.20–14.30 LUNCH BREAK

**Afternoon session** (Chairperson: A. Sliepčević)

14.30–15.10 Plenary lecture

L. Vörös: *News on the space-filling zonotopes*

15.15–15.35 PAUSE

15.35–15.50 I. Talata: *A generalization of the parallelogram law for affine regular polytopes*

15.55–16.10 M. Peternell: *On generalized LN-surfaces in 4-space*

16.15–16.30 E. Molnár, J. Szirmai: *Projective metric visualization of the 8 homogeneous 3-geometries*

16.35–16.45 PAUSE

16.45–17.00 F. Manhart: *Remarks on the minimal surfaces of J.E.E.BOUR*

17.05–17.20 B. Divjak, Ž. Milin Šipuš: *Translation and Helicoidal Surfaces in the Galilean Space*

19.00–.... CONFERENCE DINNER



## THURSDAY, SEPTEMBER 10

7.00– 9.00 BREAKFAST

### Morning session (Chairperson: V. Szivoczka)

9.00–9.40 Plenary lecture

V. Krčadinac: *Algebraic proofs of Napoleon-like theorems*

9.45–10.10 COFFEE BREAK

10.10–10.25 Z. Kolar-Begović, R. Kolar-Šuper: *Two cobrocardial heptagonal triangles*

10.30–10.45 B. Odehnal: *Generalized Gergonne points*

10.50–11.00 PAUSE

11.00–11.15 M. Andrić: *Lacunary polynomials and blocking sets*

11.20–11.45 M. Katić-Žlepalo: *Blossoming or polar forms in deCasteljau and Oslo algorithm*

11.50–12.00 Closing

12.00– ..... LUNCH

Departure