

# Third Slovene International Conference in Graph Theory

Monday, 26th June

9:00 – 9:30 **Opening**

9:30 – 10:20 *Herbert S. Wilf*: Two Studies in the Method of Transfer Matrices

10:20 – 10:50 **Coffee break**

10:50 – 11:20 *Pavol Hell*: List Homomorphisms

11:25 – 12:00 *Wolfgang Mader*: On Topological Tournaments in Digraphs of Large Degree

## Session 1: Graph Minors

13:50 – 14:15 *Leif K. Jørgensen*:  $K_6$ ,  $K_7$  and  $K_8$  Minors in Graphs

14:20 – 14:45 *William McCuaig*: Directed Minors

14:50 – 15:15 *Barbara Plaut*: Algorithmic Applications of the Immersion Order

15:20 – 15:45 *Xingxing Yu*: Disjoint Paths and the Rooted  $K_4$ -Problem

15:45 – 16:10 **Coffee break**

16:10 – 16:30 *Hein van der Holst*: On the Invariance of Colin de Verdière's Graph Parameter under Clique Sums

16:35 – 16:55 *Anna Galluccio*: Even Cycles and  $K_{3,3}$ -Free Digraphs

17:00 – 17:20 *Thomas Odenthal*: The Thickness of Graphs without  $K_5$  Minors

## Session 2: Graph Homomorphisms and Products

14:00 – 14:20 *Pranava K. Jha*: Kronecker Products of Paths and Cycles: Decomposition, Factorization and Bi-pancyclicity

14:25 – 14:45 *Sandi Klavžar*: Graphs That are  $k$ -locally a Hypercube

14:50 – 15:10 *Xuding Zhu*: Homomorphisms of Digraphs

15:15 – 15:35 *Janez Žerovnik*: Recognizing Cartesian Graph Bundles

15:35 – 16:10 **Coffee break**

16:10 – 16:30 *Ghidewon Abay-Asmerom*: Imbeddings of Lexical Product of Graphs

16:35 – 16:55 *Walter Pacco*:  $k$ -Coverings of Digraphs

17:00 – 17:20 *Blaž Zmazek*: Isomorphic Components of Kronecker Product of Bipartite Graphs

# Third Slovene International Conference in Graph Theory

**Tuesday, 27th June**

9:00 – 9:50 *Robin Thomas*: Linkless Embeddings, the Four-Color Theorem, and Conjectures of Hadwiger and Tutte: A Survey

9:55 – 10:45 *Paul Seymour*: Tutte's 3-Edge-colouring Conjecture

10:45 – 11:15 **Coffee break**

11:15 – 11:35 *Jozef Širáň*: Face 2-Colourable Triangular Embeddings of Complete Graphs

11:40 – 12:00 *Bruce Richter*: Contractible and Noncontractible Cycles in Embedded Graphs

12:05 – 12:25 *Martin Škoviera*: Dense Regular Maps

## Session 1: Graphs on Surfaces

14:00 – 14:20 *Heinz-Juergen Voss*: Sachs Triangulations, Generated by Dessins d'Enfant, and Regular Maps

14:25 – 14:45 *Bojan Mohar*: Embedding Extension Problems

14:50 – 15:10 *Xiaoya Zha*: Orientable Closed 2-cell Embeddings of Projective Planar Graphs

15:15 – 15:35 *Martin Juvan*: Systems of Curves on Surfaces

15:35 – 16:10 **Coffee break**

16:10 – 16:30 *Roman Nedela*: Homomorphisms of Regular Maps

16:35 – 16:55 *Tomasz Bilski*: Optimum Embedding of the Complete Graphs in Books

17:00 – 17:20 *Eugene T. Neufeld*: Orienting Cycle Elements of Oriented Rotation Systems

17:25 – 17:45 *Jose Cáceres*: On the Faces Covering the Edges of a Graph

## Session 2

14:00 – 14:20 *Ottavio D'Antona*: A Note on Chromatic Polynomials

14:25 – 14:45 *Lorenzo Milazzo*: Strict Colourings for Classes of STS

14:50 – 15:10 *Donovan Hare*: Color-Critical Graphs and Hypergraphs with Few Edges and No Short Cycles

15:15 – 15:35 *Barry Guiduli*: Generalized Coverings and Matchings in Hypergraphs

15:35 – 16:10 **Coffee break**

16:10 – 16:30 *Gyula Y. Katona*: Toughness and Edge-toughness

16:35 – 16:55 *W.L. Fouché*: Kolmogorov Complexity and Ramsey Theory

17:00 – 17:20 *C. J. Swanepoel*: A van der Waerden Theorem for Trees

17:25 – 17:45 *K. J. Swanepoel*: Unit Distance Graphs in Minkowski Planes

20:00 – **Conference Dinner in Hotel Park**

# Third Slovene International Conference in Graph Theory

Wednesday, 28th June

9:00 – 9:50 *László Pyber*: Simple Groups and Probabilistic Methods

9:55 – 10:40 *Bruno Courcelle*: The Construction of Obstructions from Graph Grammars

10:40 – 11:10 **Coffee break**

11:10 – 11:40 *Daniel P. Sanders*: Partitions of Graphs into Simpler Graphs

11:45 – 12:15 *Bert Gerards*: On  $t$ -perfect Graphs

14:00 – **Excursion to Postojna Cave**

# Third Slovene International Conference in Graph Theory

Thursday, 29th June

- 9:00 – 9:50 *Cheryl E. Praeger*: Recent Developments in the Study of Finite Edge-transitive Graphs  
9:55 – 10:45 *Ming-Yao Xu*: Isomorphisms and Automorphism Groups of Cayley Graphs  
10:45 – 11:15 **Coffee break**  
11:15 – 11:45 *Wilfried Imrich*: Hamming Graphs and Related Classes of Graphs  
11:50 – 12:10 *Hermann Servatius*: Planar Cayley Graphs  
12:15 – 12:35 *Aleksandar Jurišić*: Locally Constant Graphs

## Session 1: Transitivity in Graphs

- 14:00 – 14:20 *Dragan Marušič*: On Vertex and Edge but not Arc-transitive Graphs of Valency 4  
14:25 – 14:45 *Aleksander Malnič*: Infinite One-regular Graphs of Valency 4  
14:50 – 15:10 *Ru-Ji Wang*: Solvable Symmetric Graphs of Order  $6p$   
15:15 – 15:35 *Raffaele Scapellato*: Generalized Orbital Graphs  
15:35 – 16:10 **Coffee break**  
16:10 – 16:30 *Ákos Seress*: Some Non-Cayley Graphs on  $pqr$  Points  
16:35 – 16:55 *Italo J. Dejter*: Hidden Cayley Graph Structures  
17:00 – 17:20 *Edwin R. van Dam*: Graphs with Constant  $\mu$  and  $\bar{\mu}$

## Session 2a: Graph Drawing

- 14:00 – 14:20 *Pierre Rosenstiehl*: Regular Orientations and Graph Drawing, Part 1  
14:25 – 14:45 *Hubert de Fraysseix*: Part 2  
14:50 – 15:10 *Patrice Ossona de Mendez*: Part 3  
15:15 – 15:35 *Tsuyoshi Matsumoto*: Part 4  
15:35 – 16:10 **Coffee break**

## Session 2b

- 16:10 – 16:30 *Luigi Grasselli*: Tetrahedron Manifolds Via Coloured Graphs  
16:35 – 16:55 *Zdzisław Skupień*: Triangulations and Locally Hamiltonian Graphs  
17:00 – 17:20 *Marko Razpet*: Some Commutators Generated by Shift Operators

18:00 – 19:00 **Problem Session**

# Third Slovene International Conference in Graph Theory

## Friday, 30th June

- 9:00 – 9:50 *Neil Robertson*: Some Recent Results About Graphs on Surfaces  
9:55 – 10:45 *Janos Pach*: Recent Results on Geometric Graphs  
10:45 – 11:15 **Coffee break**  
11:15 – 11:45 *Tomaž Pisanski*: Vega: A System for Doing Discrete Mathematics

### Session 1: Discrete Mathematics Software

- 11:50 – 12:10 *Vladimir Batagelj*: NetML – Graph Description Language  
12:15 – 12:35 *Gašper Fijavž*: Drawing Knots and Links

### Session 2: Graph Drawing

- 11:50 – 12:10 *Felipe Mateos*: Representation of Graphs on a Torus  
12:15 – 12:35 *Michel Pocchiola*: Computing Visibility Graphs via Pseudo-triangulations

### Session 1

- 14:00 – 14:20 *Marko Petkovšek*: Computing Generating Functions From Partial Recurrences  
14:25 – 14:45 *I. G. Rosenberg*: Infinite Graphs Determined by Locally Maximal Clones  
14:50 – 15:10 *Italo J. Dejter*: Obstructions to Planar Hypergraphs  
15:10 – 15:40 **Coffee break**  
15:40 – 16:00 *France Dacar*: On Cyclicity of Hypergraphs  
16:05 – 16:25 *Antoine Deza*: Extremal Structure of Peg Solitaire Cones

### Session 2

- 14:00 – 14:20 *Reinaldo E. Giudici*: On Cycles in the Sequence of Unitary Cayley Graphs  
14:25 – 14:45 *J. Luis A. Yebra*: Boundary Graphs: The Limit Case of a Spectral Property (II)  
14:50 – 15:00 *Marko Lovrečič-Saražin*: Which Generalized Petersen Graphs are Cayley graphs? – Revisited  
15:00 – 15:40 **Coffee break**  
15:40 – 16:00 *William J. Martin*: Completely Regular Codes and Simple Subsets  
16:05 – 16:25 *Harald Gropp*: The  $(r, 1)$ -designs with 13 Points

Later ... **Survivors Party**