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
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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
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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
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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 Marušić: 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
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
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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**

**Session 1: Discrete Mathematics Software**

11:50 – 12:10 Vladimir Batagelj: NetML – Graph Description Language
12:15 – 12:35 Gasper Fijavz: Drawing Knots and Links

**Session 2: Graph Drawing**

11:50 – 12:10 Felipe Mateos: Representation of Graphs on a Torus

**Session 1**

14:00 – 14:20 Marko Petkovsek: 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
14:50 – 15:00 Marko Lovrecic-Sarazin: 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