International Conference on Geometric, Combinatorial and Dynamics Aspects of Semigroup and Group Theory on the Occasion of Prof. Stuart Margolis' 60th Birthday

CONFERENCE PROGRAM

Tuesday, June 11 – Bldg. 206, Nanotechnology Triplex Auditorium

9:30 -10:00 Refreshments

10:00 -10:15 Introduction

10:15-11:00 J. Rhodes, “Boolean representations of matroids and simplicial complexes with applications to semigroups”

11:15-12:00 J. Almeida, “A geometric interpretation of the Schutzenberger group of a minimal subshift”

12:15-13:00 P. Silva, “Fixed points for groups and monoids”

13:00-2:30 Lunch

2:30-3:15 R. Gray, “Finite Grebner-Shirshov bases for Plactic algebras and biautomatic structures for Plactic monoids”

3:30-4:15 M. Kambites, “The geometry of tropical matrix semigroups”

4:30-5:30 Discussion session: "Connections and contrasts between groups and semigroups"

Discussion leaders: John Meakin and James East

Wednesday, June 12– Bldg. 206, Nanotechnology Triplex Auditorium

9:30-10:15 A. Lubotzky, “Sieve method in group theory”

10:30-11:15 E. Rips, “Free n-Engel groups”
11:15-11:45  Coffee break

11:45-12:30  A. Olshanskii, “On group embeddings and their asymptotic invariants”

12:30-2:00  Lunch

2:00-2:45  J.-C. Birget, “Semigroups and one-way functions”

3:00-3:45  L. Ribes, “Profinite methods in abstract groups”

3:45-4:15  Coffee break

4:15-5:15  Discussion session: “Linear and transformation representations of semigroups”
Discussion leaders: Benjamin Steinberg and Ulrich Knauer

7:00  Conference Dinner

Thursday, June 13 – Bldg. 410, Beck Auditorium

9:30-10.15  V. Diekert, “Local divisors and Church-Rosser languages”

10:30-11:15  O. Kharlampovich, “Algorithmic problems for hyperbolic and toral relatively hyperbolic groups”

11:15-11:45  Coffee break

11:45-12:30  A. Schilling, “The power of R-trivial monoids”

12:30-2:00  Lunch

2:00-2:45  L. Shneerson, “On the growth and Gelfand- Kirillov dimension of finitely presented inverse semigroups”

3:00-3:45  M. Volkov, “Primitive digraphs, Markov chains and synchronizing automata”

3:45-4:15  Coffee break

4:15-5:15  Discussion session: “Finite semigroups and languages”
Discussion leaders: Pascal Weil and Peter Jones
Friday, June 14 – Bldg. 410, Beck Auditorium

9:30-10:15 M. Lohrey, “Rational subsets of wreath products”

10:30-11:15 B. Steinberg, “Combinatorial topology and the global dimension of left regular bands”

11:15-11:30 Coffee break

11:30-12:15 E. Pin, “Automata, semigroups and groups: 60 years of synergy”

12:15-12:30 S. Margolis, “Closing remarks”