

## ICGS2009 Schedule

Sunday, May 17

7:30-8:45 Registration and breakfast  
Avery 13B

8:50-9:00 Welcome  
Avery 115

9:00-9:50 **Mark Sapir**  
*Lacunary hyperbolic groups*  
Avery 115

10:00-10:50 **Alexandra Pettet**  
*Twisting out fully irreducible automorphisms*  
Avery 115

Break

11:30-11:50 **Zoran Šunić**  
*Closed self-similar groups of tree automorphisms*  
Avery 106

**Delaram Kahrobaei**  
*The growth rate of an endomorphism of a group*  
Avery 110

12:00-12:20 **Volodymyr Nekrashevych**  
*Growth of iterated monodromy groups*  
Avery 106

**Andrew Clifford**  
*Primitive elements in subgroups of free groups*  
Avery 110

Lunch

2:00-2:20 **Vitaly Romankov**  
*The twisted conjugacy problem in a class of solvable groups*  
Avery 106

**Xiangdong Xie**  
*Quasisometric rigidity of certain solvable Lie groups*  
Avery 110

2:30-2:50 **Sean Cleary**  
*Computing and approximating rotation distance*  
Avery 106

**Ellen Ziliak**  
*Partial automata*  
Avery 110

3:00-3:20 **Laura Ciobanu**  
*The monomorphism problem in free groups*  
Avery 106

**Pallavi Dani**  
*Morse theory and conjugacy classes of finite subgroups*  
Avery 110

Break

4:00-4:50 **John Rhodes**  
*An effective lower bound for group complexity of finite semigroups and automata*  
Avery 115

5:00-5:50 **Tatiana Nagnibeda**  
*Abelian sand-pile model and self-similar groups*  
Avery 115

6:00-7:30 **Reception**  
Schorr Center

## ICGS2009 Schedule

Monday, May 18

- 7:30-8:55 Registration and breakfast  
Avery 13B
- 9:00-9:50 **Gilbert Baumslag**  
*Finitely presented solvable groups*  
Avery 115
- 10:00-10:20 **Bob Gilman**  
*Hard Problems in Group Theory*  
Avery 19
- 10:30-10:50 **Robert Gray**  
*Homotopical and homological finiteness conditions of monoids and their subgroups*  
Avery 19
- Break
- 11:30-11:50 **Max Forester**  
*Higher-dimensional Dehn functions of some abelian-by-cyclic groups*  
Avery 19
- 12:00-12:20 **Josh Barnard**  
*Super-exponential 2-dimensional Dehn functions*  
Avery 19
- Lunch
- 2:00-2:20 **Arye Juhász**  
*Solution of the membership problem for certain subsemigroups in one-relator groups with a small cancellation condition*  
Avery 106
- 2:30-2:50 **Markus Lohrey**  
*Submonoid membership in metabelian groups*  
Avery 106
- 3:00-3:20 **Simon M. Goberstein**  
*Bisimple monogenic orthodox semigroups and their lattice isomorphisms*  
Avery 106
- Break
- 4:00-4:50 **Patrick Dehornoy**  
*The subword reversing method*  
Avery 115
- 5:00-5:50 **Jennifer Taback**  
*Free Limits of Thompson's group  $F$*   
Avery 115
- 6:15-10:00 **Dinner** for registered conference participants  
at the Meakins
- Daniel Farley**  
*A Short Proof that a  $CAT(0)$  cubical complex is a space with walls*  
Avery 110
- Des FitzGerald**  
*Divided-difference operators and diagrams*  
Avery 110
- Zur Izhakian**  
*Semigroup identities in the monoid of two-by-two tropical matrices*  
Avery 110
- Lev Shneerson**  
*On the growth of inverse semigroups*  
Avery 110
- Rena Levitt**  
*Biautomaticity and  $CAT(0)$  simplicial 3-complexes*  
Avery 110
- Tara E. Brendle**  
*The symmetric Torelli group*  
Avery 110
- Francesco Matucci**  
*Mather invariants in groups of piecewise-linear homeomorphisms*  
Avery 110

## ICGS2009 Schedule

Tuesday, May 19

- 8:00-8:55 Registration and breakfast  
Avery 13B
- 9:00-9:50 **Rostislav Grigorchuk**  
*Ergodic properties of boundary actions and Nielsen-Schreier theory*  
Avery 115
- 10:00-10:20 **Rick Thomas**  
*Notions of hyperbolicity in monoids*  
Avery 19
- 10:00-10:20 **Howard Straubing**  
*Forest algebras: an algebraic theory for automata on unranked trees*  
Avery 110
- 10:30-10:50 **Roland Zarzycki**  
*Relative limit groups of the Thompson's group  $F$*   
Avery 19
- 10:30-10:50 **Olga Sapir**  
*Finitely generated permutative varieties*  
Avery 110
- Break
- 11:30-11:50 **Melanie Stein**  
*A tame 1-combing for Thompson's group  $F$*   
Avery 19
- 11:30-11:50 **Francis J. Pastijn**  
*Semigroup varieties for which  $J$  and  $D$  coincide*  
Avery 110
- 12:00-12:20 **Jean-Camille Birget**  
*Complexity of the Green relations of the Thompson-Higman monoids*  
Avery 19
- 12:00-12:20 **Kevin Wortman**  
*Dehn functions of linear groups*  
Avery 106
- Lunch
- 2:00-2:20 **Vladimir Shpilrain**  
*Sublinear time algorithms in the theory of groups and semigroups*  
Avery 106
- 2:00-2:20 **Manuel Delgado**  
*Computing kernels of finite monoids*  
Avery 110
- 2:30-2:50 **Nik Ruškuc**  
*Growth of generating sets of direct powers*  
Avery 106
- 2:30-2:50 **Sergey Bakulin**  
*On identities of indicator Burnside semigroups*  
Avery 110
- 3:00-3:50 **Jean-Eric Pin**  
*Duality and equations*  
Avery 115
- Break
- 4:30-5:20 **Olga Kharlampovich**  
*Properties of fully residually free (limit) groups*  
Avery 115
- 5:30-5:50 **Stuart Margolis**  
*John Meakin: Personal and Professional Memories*  
Avery 115
- 6:30-10:00 **Banquet**  
Cornhusker Hotel

## ICGS2009 Schedule

Wednesday, May 20

- 8:00-8:55 Registration and breakfast  
Avery 13B
- 9:00-9:50 **Mikhail Volkov**  
*Interpreting graphs in 0-simple semigroups with reversion*  
Avery 115
- 10:00-10:20 **Derek Holt**  
*Artin Groups of Large Type are Automatic*  
Avery 115
- 10:30-10:50 **Fabienne Chouraqui**  
*“Set-theoretical” solutions of the quantum Yang-Baxter equation and a class of Garside groups*  
Avery 19
- 10:30-10:50 **Mark Kambites**  
*Small overlap monoids*  
Avery 110
- Break
- 11:30-11:50 **Dongwen Qi**  
*A note on parabolic subgroups of a Coxeter group*  
Avery 19
- 11:30-11:50 **Lucas Sabalka**  
*Generalized expanders*  
Avery 110
- 12:00-12:20 **Anne Thomas**  
*Existence, covolumes and infinite generation of lattices for Davis complexes*  
Avery 19
- 12:00-12:20 **Claire Wladis**  
*Subgroup distortion in the generalized Thompson groups*  
Avery 110
- Lunch
- 2:00-2:20 **Sarah Rees**  
*The conjugacy problem as a formal language*  
Avery 19
- 2:00-2:20 **Victoria Gould**  
*Restriction semigroups and inductive constellations*  
Avery 110
- 2:30-2:50 **Steve Pride**  
*The max-min property for (relative) one-relator groups*  
Avery 19
- 2:30-2:50 **Sang-hyun (Sam) Kim**  
*Surface subgroups of doubles of free groups*  
Avery 110
- 3:00-3:20 **Eduardo Martínez-Pedroza**  
*Surface subgroups in some  $CAT(0)$  groups*  
Avery 19
- 3:00-3:20 **Ben Fine**  
*On the surface group conjecture*  
Avery 110
- Break
- 4:00-4:50 **Benjamin Steinberg**  
*Symbolic dynamics, profinite groups and profinite monoids*  
Avery 115
- 5:00-5:50 **Ruth Charney**  
*Automorphism groups of right-angled Artin groups*  
Avery 115

## ICGS2009 Schedule

Thursday, May 21

8:00-8:50 Registration and breakfast  
Avery 13B

8:50-9:00 Tornado

9:00-9:50 **Jorge Almeida**  
*The linear nature of pseudowords*  
Avery 115

10:00-10:50 **Alexei Miasnikov**  
*Group presentations: infinite versus finite*  
Avery 115

Break

11:30-11:50 **Matthew B. Day**  
*Presentations of automorphism groups  
of right-angled Artin groups*  
Avery 19

**Gerhard Rosenberger**  
*Some regular equations in group amal-  
gams*  
Avery 110

12:00-12:20 **Angela Kubena Barnhill**  
*Commensurators of lattices in right-  
angled buildings*  
Avery 19

**Emanuele Rodaro**  
*Algorithmic problems in amalgams of  
finite inverse semigroups*  
Avery 110

Lunch

2:00-2:20 **Carmelo Vaccaro**  
*Algorithmic and combinatorial meth-  
ods for computing the relators of a  
group presentation*  
Avery 19

**J. B. (Buck) Stephen**  
*Maximal subgroups of Inverse Semi-  
groups*  
Avery 110

2:30-2:50 **Colin M. Campbell**  
*Presentations galore*  
Avery 19

**James East**  
*Generators and relations for singular  
semigroups of transformations*  
Avery 110

Break

3:30-4:20 **Jon McCammond**  
*Braid groups and buildings*  
Avery 115

4:30-5:20 **Pascal Weil**  
*Distributions of finitely generated subgroups of free groups*  
Avery 115