

**ASSOCIATION FOR SYMBOLIC LOGIC**  
**2005-06 WINTER MEETING**

San Antonio Convention Center  
San Antonio, Texas  
January 14–15, 2006

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Program committee: Su Gao, Valentina Harizanov (Chair), and Christopher Miller.

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The registration desk for the Joint Mathematics Meeting will be located in the East Registration Hall of the Convention Center. All ASL meeting participants are urged to register.

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The Joint Mathematics Meetings includes the AMS/ASL co-sponsored Special Session on **Interdisciplinary Research Involving Analysis and Logic**, Thursday, January 12, and Friday, January 13. The schedule for this Special Session appears on page 3 of this program.

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Other sessions also may be of interest to logicians: the AMS Special Session on **Current Events**, the AMS-MAA Special Session on **History of Mathematics**, the AMS-MAA-SIAM Special Session on **Research in Mathematics by Undergraduates**, the AMS Special Session on the **Many Lives of Lattice Theory, the Theory of Ordered Sets, and Universal Algebra**, the AMS Contributed Paper Session **Lattices, Ordered Structures, Logic and Model Theory**; see the JMM Program for the schedules.

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Talks in the ASL meeting will be held in rooms 207B and 201 of the Convention Center.

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The ASL Reception will take place on Saturday, January 14, 6:00–8:00pm in Alamo B in the Marriott Riverwalk Hotel.

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SATURDAY, JANUARY 14, Room 207B

Morning

- 9:00 – 9:50 Invited Lecture: **C. Ward Henson** (University of Illinois at Urbana-Champaign), *Model theory for metric structures*.
- 10:00 – 10:50 Invited Lecture: **Douglas Cenzer** (University of Florida), *Effectively closed sets*.

Afternoon

- 1:10 – 2:00 Invited Lecture: **Alain Louveau** (CNRS and University of Paris 6), *Countable quotients of combinatorial structures*.
- 2:10 – 3:00 Invited Lecture: **Sergei Starchenko** (University of Notre Dame), *Complex analytic geometry over o-minimal structures*.
- 3:10 – 3:45 Break

- 3:45 – 5:45 Contributed Talks, Session I: *See page 2.*
- 6:00 – 8:00 ASL Reception in Alamo B, Marriott Riverwalk Hotel.

## SUNDAY, JANUARY 15, Room 207B

### Morning

- 9:00 – 9:50 Invited Lecture: **Russell Miller** (Queens College, CUNY), *Spectra of Turing degrees.*
- 10:00 – 10:50 Invited Lecture: **Michael C. Laskowski** (University of Maryland), *Strictly stable theories and descriptive set theory.*

### Afternoon

- 1:10 – 2:00 Invited Lecture: **Itay Neeman** (University of California at Los Angeles), *Finite state automata and monadic definability of ordinals.*
- 2:15 – 4:40 Contributed Talks, Sessions II and III: *See pages 2 and 3.*

## CONTRIBUTED TALKS - SESSION I

### Saturday, January 14, Room 207B

- 3:45 – 4:05 **Natasha Dobrinen\*** and **Sy Friedman**, *Co-stationarity of the ground model.*
- 4:10 – 4:30 **Ross Bryant**, *Ehrenfeucht-Fraïssé games and generic coding.*
- 4:35 – 4:55 **Eric Ufferman\***, **Jennifer Chubb**, **Valentina Harizanov**, **Andrei Morozov**, and **Sarah Pingrey**, *Semigroups of partial automorphisms of countable structures.*
- 5:00 – 5:20 **Jeffrey L. Hirst**, *Representations of reals in reverse mathematics.*
- 5:25 – 5:45 **Joel D. Hamkins** and **Benedikt Löwe\***, *The modal logic of forcing.*

## CONTRIBUTED TALKS - SESSION II

### Sunday, January 15, Room 207B

- 2:15 – 2:35 **John Chisholm**, *A non-computable perfect tree  $T$  containing no non-computable branches that are wtt-reducible to  $T$ .*
- 2:40 – 3:00 **Wesley Calvert\***, **Valentina Harizanov**, and **Alexandra Shlapentokh**, *Turing degrees of isomorphism types of algebraic objects.*
- 3:05 – 3:25 **Carl Mummert**, *Reverse mathematics and  $\Pi_2^1$  comprehension.*
- 3:30 – 3:50 **Rumen D. Dimitrov**, *Automorphisms of certain filters of  $\mathcal{L}^*(V_\infty)$ .*
- 3:55 – 4:15 **Tetsuya Ishiu**, *A fine structure construction of a perfectly normal non-realcompact space.*
- 4:20 – 4:40 **Jason Aubrey**, *Pseudo-dominating families of functions.*

## CONTRIBUTED TALKS - SESSION III

Sunday, January 15, Room 201

- 2:15 – 2:35 **David F. Duque**, *A polynomial translation of  $S4$  into intuitionistic logic.*  
2:40 – 3:00 **Gohar Marikyan**, *Consistency of Martin-Löf's intuitionistic type theory.*  
3:05 – 3:25 **Nathan Carter**, *Reflexive intermediate propositional logics.*  
3:30 – 3:50 **Stefan Bold\*** and **Benedikt Löwe**, *Simple measure analyses for more than two measures.*  
3:55 – 4:15 **Ermek S. Nurkhaidarov**, *Interstitial and pseudo gaps in models of PA.*  
4:20 – 4:40 **Brian Wynne**, *The model theory of some non-projectable  $l$ -groups.*

## AMS-ASL SPECIAL SESSION

Interdisciplinary Research Involving Analysis and Logic

Organizers: I. Ben-Yaacov, S. Gao, and J. Iovino

Room 006 River Lever, San Antonio Convention Center

Thursday and Friday, January 12 and 13, 2006

Thursday Morning, January 12

- 8:00 – 8:25 **Alex Usvyatsov\***, **Itay Ben-Yaacov**, and **Moshe Zadka**, *Model theory of representations of locally compact groups.*  
8:35 – 9:00 **Alexander Berenstein**, *Hilbert spaces with generic groups of automorphisms.*  
9:10 – 9:35 **Slawomir Solecki**, *Automatic continuity of group homomorphisms.*  
9:45 – 10:10 **Marius Junge**, *Notions of symmetry and independence in noncommutative probability.*  
10:20 – 10:45 **R. Daniel Mauldin**, *Unique representations of families of sets.*

Friday Morning, January 13

- 8:00 – 8:25 **Edward Odell**, *Ordinal indices in Banach spaces.*  
8:35 – 9:00 **Stephen J. Dilworth\***, **Edward Odell**, and **Bunyamin Sari**, *Lattice structures and spreading models.*  
9:10 – 9:35 **Thomas Schlumprecht**, *Two persons games in Banach Spaces.*  
10:00 – 10:25 **Alexander S. Kechris**, *Ergodic theory and descriptive set theory.*  
10:35 – 11:00 **Christian Rosendal**, *Classifying Borel transformations in Kakutani style.*  
11:10 – 11:35 **Jordi Lopez-Abad** and **Stevo Todorcevic\***, *Pre-compact families of finite sets of integers and weakly null sequences in Banach spaces.*