

ASSOCIATION FOR SYMBOLIC LOGIC
2007 ANNUAL MEETING

University of Florida
Gainesville, Florida

March 10–13, 2007

Program Committee: M. Aschenbrenner, M. Dzamonja (Chair), N. Immerman, J. Larson, J. Miller, J. Tappenden.

Local Organizing Committee: D. Cenzer, G. Emch, J. Larson, W. Mitchell, M. Sitharam, J. Zapletal (Chair).

Please see <http://www.math.ufl.edu/~jal/logicyear/asl/> for additional information.

All lectures will be held in Little Hall on the campus of the University of Florida in Gainesville. The registration desk, coffee breaks, and the book exhibit will be in the Atrium (Little Hall 339). The reception will be held in the Keene Faculty Center.

SATURDAY, MARCH 10

Morning, Little 101

8:15 – 8:45 Coffee and Snacks

8:45 – 9:00 Opening Remarks

9:00 – 10:00 Invited Lecture: **William Mitchell** (University of Florida), *Perspectives on the inner model program.*

10:15 – 11:15 Invited Lecture: **Salma Kuhlmann** (University of Saskatchewan), *Integer parts and complements to valuation rings of ordered fields.*

11:15 – 11:30 Break

11:30 – 12:30 Invited Lecture: **Hannes Leitgeb** (University of Bristol), *Formal and informal provability.*

Afternoon, Little 101

2:30 – 3:30 Invited Lecture: **Noam Greenberg** (Victoria University of Wellington), *Lowness properties of computably enumerable degrees.*

SATURDAY, MARCH 10

Afternoon

Special Session on Computability Theory, Session A
Room Little 113

- 3:40 – 4:10 **George Barmpalias** (Leeds University), *Randomness, lowness and degrees.*
4:15 – 4:45 **Stephen Binns** (University of Connecticut), *Density results for the Muchnik Lattice.*
4:50 – 5:20 **Bjørn Kjos-Hanssen** (Cornell University), *Computing Brownian slow points.*

Special Session on Connections of Set Theory with Boolean Algebras and Topology, Session A
Room Little 201

- 3:40 – 4:10 **Judith Roitman** (University of Kansas), *Paracompact box products.*
4:15 – 4:45 **Todd Eisworth** (Ohio University), *Proper forcing and the Continuum Hypothesis.*
4:50 – 5:20 **Andrzej Roslanowski*** and **Saharon Shelah** (University of Nebraska and Hebrew University), *Lords of the iteration.*

Special Session on Algebraic Model Theory, Session A
Room Little 205

- 3:40 – 4:10 **Alice Medvedev** (University of California, Berkeley), *Difference fields in analysis and model theory.*
4:15 – 4:45 **Salih Azgin** (University of Illinois at Urbana-Champaign), *Model theory of valued difference fields.*
4:50 – 5:20 **Jana Marikova** (University of Illinois at Urbana-Champaign), *Definable sets generated by standard part sets.*

Special Session on Logic Research for Undergraduates, Session A
Room Little 101

- 3:40 – 4:10 **Chris Hardin** (Smith College), *My logic experience as an undergraduate.*
4:15 – 4:45 **Bob Milnikel** (Kenyon College), *A sampling of capstone papers in logic.*
4:50 – 5:20 **Jeffrey L. Hirst** (Appalachian State University), *Overcoming barriers to undergraduate research in logic.*

- 6:30 – 8:00 Reception, Keene Faculty Center.

SUNDAY, MARCH 11
Morning, Room Little 101

- 8:30 – 9:00 Coffee and Snacks
9:00 – 10:00 Invited Lecture: **Michael Benedikt** (Bell Laboratories), *Decision problems for regular tree languages and the model theory of trees.*

Special Session on Computability Theory, Session B
Room Little 113

- 10:10 – 10:40 **Andy Lewis** (University of Siena), *A fixed point free minimal degree.*
10:45 – 11:15 **John Chisholm** (Western Illinois University), *Strongly Δ_2^0 categorical structures.*
11:20 – 11:50 **E.B. Fokina, S.S. Goncharov, V.S. Harizanov, J.F. Knight*, and S. Miller** (University of Notre Dame), *Intrinsically Δ_α^0 relations and Δ_α^0 categoricity.*

Special Session on Connections of Set Theory with Boolean Algebras and Topology, Session B
Room Little 201

- 10:45 – 11:15 **Alan Dow** (University of North Carolina, Charlotte), *Tie points in $\beta\mathbb{N}$*
11:20 – 11:50 **Jennifer Brown** (Kenyon College), *Topologies on pseudotrees.*

Special Session on Algebraic Model Theory, Session B
Room Little 205

- 10:10 – 10:40 **Clifton Ealy** (University of Illinois at Urbana-Champaign), *Superrosy groups.*
10:45 – 11:15 **John Goodrick** (University of California, Berkeley), *The Schröder-Bernstein problem for weakly minimal groups.*
11:20 – 11:50 **Pantelis Eleftheriou** (University of Notre Dame), *Compact domination for groups definable in linear o-minimal structures.*

Special Session on Logic Research for Undergraduates, Session B
Room Little 101

- 10:10 – 10:40 **James Cummings** (Carnegie Mellon University), *Title: TBA.*
10:45 – 11:15 **Walker M. White** (Cornell University), *What is undergraduate research in logic.*

SUNDAY, MARCH 11
Afternoon, Room Little 101

- 2:00 – 3:00 Eighteenth Annual Gödel Lecture: **Ehud Hrushovski** (Hebrew University), *Model theory and numbers of points*.
3:15 – 4:15 Invited Lecture: **Natasha Dobrinen** (University of Vienna), *Co-stationarity of the ground model*.

Special Session on Computability Theory, Session C
Room Little 113

- 4:25 – 4:55 **Jeffrey L. Hirst** (Appalachian State University), *Ramsey's Theorem on Trees*.
5:00 – 5:30 **Denis R. Hirschfeldt, Carl G. Jockusch*, Jr., Bjørn Kjos-Hanssen, Steffen Lempp, and Theodore A. Slaman** (University of Illinois at Urbana-Champaign), *Ramsey's theorem for pairs and the DNR axiom*.
5:35 – 6:05 **Joseph R. Mileti** (University of Chicago), *The strength of the Rainbow Ramsey Theorem*.

Special Session on Connections of Set Theory with Boolean Algebras and Topology, Session C
Room Little 201

- 4:25 – 4:55 **Su Gao** (University of North Texas), *Borel structures on ordinals*.
5:00 – 5:30 **Michael Hrušák** (Universidad Nacional Autónoma de México, Morelia), *Borel ideals and their quotients*.
5:35 – 6:05 **William Weiss** (University of Toronto), *Cardinal sequences of compact scattered spaces*.

Special Session on Algebraic Model Theory, Session C
Room Little 205

- 4:25 – 4:55 **Alf Dolich** (University of Illinois at Chicago), *Model theory around dense pairs of o -minimal structures*.
5:00 – 5:30 **Alf Onshuus** (Universidad de los Andes, Bogotá), *On theories interpretable in o -minimal structures*.
5:35 – 6:05 **Kathryn Vozoris** (University of Illinois at Chicago), *The complex field with a predicate for the integers*.

MONDAY, MARCH 12
Morning, Room Little 101

- 8:30 – 9:00 Coffee and Snacks
9:00 – 10:00 Invited Lecture: **Richard Zach** (University of Calgary), *The decision problem and the development of metalogic.*
10:00 – 10:15 Break
10:15 – 11:25 Contributed talks: Sessions A, B, C: *See page 6.*

Afternoon, Room Little 101

- 2:00 – 3:00 Invited Lecture: **Denis R. Hirschfeldt** (University of Chicago), *Randomness, triviality, and computability.*

Special Session on Computability Theory, Session D
Room Little 113

- 3:10 – 3:40 **Stephen Simpson** (Pennsylvania State University), *Bounded limit recursiveness.*
3:45 – 4:15 **Carl Mummert** (University of Michigan), *Reverse mathematics and one-point compactifications.*
4:20 – 4:50 **Guohua Wu** (Nanyang Technological University), *Quotient structure $\mathcal{R}/NCup$ and a diamond theorem.*

Special Session on Connections of Set Theory with Boolean Algebras and Topology, Session D
Room Little 201

- 3:10 – 3:40 **Stefan Geschke** (Boise State University), *The cellularity of the phase space of a minimal dynamical system.*
3:45 – 4:15 **Mohamed Bekkali*** and **Latifa Faouzi** (Sidi Mohamed Ben Abdellah University), *Constructions and applications of Boolean Algebras.*
4:20 – 4:50 **Diego Rojas-Rebolledo** (Universidad Nacional Autónoma de México, Morelia), *Cofinalities of F_σ ideals on ω .*

Special Session on Algebraic Model Theory, Session D
Room Little 205

- 3:10 – 3:40 **Jonathan Kirby** (University of Illinois at Chicago), *Blurred complex exponentiation.*
3:45 – 4:15 **Ayhan Gunaydin** (University of Illinois at Urbana-Champaign), *The real field with two small multiplicative subgroups.*

TUESDAY, MARCH 13

Morning, Room Little 101

- 8:30 – 9:00 Coffee and Snacks
9:00 – 10:00 Invited Lecture: **Thomas Wilke** (University of Kiel), *Temporal logics from a computer science perspective.*
10:00 – 10:15 Break
10:15 – 11:15 Invited Lecture: **Andreas Blass** (University of Michigan), *Ultrafilters, cardinal characteristics, and forcing.*

CONTRIBUTED TALKS

MONDAY, MARCH 12

Session A

Room Little 205

- 10:15 – 10:35 **Evangelia Antonakos**, *Epistemic logic with common and justified common knowledge.*
10:40 – 11:00 **Luis A. Urtubey**, *Introducing identification criteria in distributed systems of contextual reasoning.*
11:05 – 11:25 **Dolph Ulrich**, *A short axiom pair and a shortest possible single axiom for monothetic BCI.*

Session B

Room Little 113

- 10:15 – 10:35 **Paul Brodhead**, *Effectively closed sets and enumerations.*
10:40 – 11:00 **Gregory McColm**, *Guarded quantification.*
11:05 – 11:25 **R. Gregory Taylor**, *Symmetric propositions and the language of first-order logic.*

Session C

Room Little 201

- 10:15 – 10:35 **Moshe Kamensky**, *Applications of definable automorphism groups.*
10:40 – 11:00 **Mauro di Nasso**, *A Euclidean measure of sets.*
11:05 – 11:25 **Cyrus F. Nourani**, *Functorial models and positive realizability.*