

**ASSOCIATION FOR SYMBOLIC LOGIC
2003-04 WINTER MEETING**

Phoenix Civic Plaza
Phoenix, Arizona
January 9-10, 2004

Program committee: V. Harizanov, J. Steel, and C. Wood (Chair).

The registration desk for the Joint Mathematics Meeting will be located in Exhibit Hall D of the Phoenix Civic Plaza. All ASL meeting participants are urged to register.

The Joint Mathematics Meetings includes the AMS/ASL co-sponsored Special Session on **Infinite Combinatorics and Inner Model Theory**, Wednesday, January 7, and January 8. The schedule for this Special Session appears on pages 3 and 4 of this program.

Several AMS Special Sessions also may be of interest to logicians: **Arithmetical Algebraic Geometry, Nonstandard Methods**, and **The Many Lives of Lattice Theory and the Theory of Ordered Sets, with Connections to Combinatorics**; see the JMM Program for the schedules.

Talks in the ASL meeting will be held in Rooms 3 and 4 of the Phoenix Civic Plaza.

The ASL Reception will take place on Friday, January 9, 5:30 - 7:00 PM, in Curtis A at the Hyatt Regency, Phoenix.

FRIDAY, JANUARY 9, Room 4

Morning

- 9:00 – 9:50 Invited Lecture: **Steffen Lempp** (University of Wisconsin), *The proof-theoretic strength of some combinatorial principles.*
- 10:00 – 10:50 Invited Lecture: **Francoise Point** (Fonds National de la Recherche Scientifique (Belgium)), *On theories of modules of fields with endomorphisms.*

Afternoon

- 1:00 – 1:50 Invited Lecture: **Robin Knight** (University of Oxford), *Vaught's Conjecture.*
- 3:00 – 3:30 Break
- 3:30 – 4:20 Invited Lecture: **Byunghan Kim** (MIT), *The type-definable group configuration under the generalized type-amalgamation.*
- 4:30 – 5:15 Contributed talks, Session I: *See page 2.*
- 5:30 – 7:00 ASL Reception in Curtis A at the Hyatt Regency Phoenix.

SATURDAY, JANUARY 10, Room 4

Morning

- 9:00 – 9:50 Invited Lecture: **Matthew Foreman** (UC Irvine), *Canonical structure in the universe of set theory.*
10:00 – 10:50 Invited Lecture: **Steve Jackson** (University of North Texas), *Subcompactness measures.*

Afternoon

- 1:00 – 1:50 Invited Lecture: **Kobi Peterzil** (Haifa and University of Illinois, Urbana), *Torsion-free groups in some o-minimal structures.*
2:00 – 2:50 Invited Lecture: **Leonard Schulman** (CalTech), *Quantum algorithms and group representation theory.*
3:00 – 3:30 Break
3:30 – 4:20 Invited Lecture: **Julia Knight** (Notre Dame), *Computable classification.*
4:30 – 6:05 Contributed Talks, Sessions II and III: *See pages 2 and 3.*

CONTRIBUTED TALKS - SESSION I

Friday, January 9, Room 4

- 4:30 – 4:50 **R. Weber**, *A substructure of the lattice of Π_1^0 classes.*
4:55 – 5:15 **G. Mints*** and **T. Zhang**, *Dynamical topological logic of Cantor space.*

CONTRIBUTED TALKS - SESSION II

Saturday, January 10, Room 4

- 4:30 – 4:50 **W. Calvert, D. Cummins, J.F. Knight, and S. Miller***, *Comparing classes of finite structures.*
4:55 – 5:15 **W. Calvert**, *The isomorphism problem for classes of computable structures.*
5:20 – 5:40 **J. Chisholm**, *Δ_n^0 -categorical structures need not be relatively Δ_{n+1}^0 -categorical.*
5:45 – 6:05 **J. Hirst**, *Minima of initial segments of sequences of reals.*

CONTRIBUTED TALKS - SESSION III

Saturday, January 10, Room 3

- 4:30 – 4:50 **K. Simic**, *Ergodic theorems in subsystems of second order arithmetic.*
4:55 – 5:15 **K. Ojakian**, *The probabilistic method and ramsey theory in bounded arithmetic.*
5:20 – 5:40 **M. Burgin**, *Compatibility in logical varieties.*
5:45 – 6:05 **E. Nurkhaidarov**, *On automorphism groups of countable arithmetically saturated models of Peano arithmetic.*

AMS-ASL SPECIAL SESSION

Infinite Combinatorics and Inner Model Theory

Organizers: M.D. Foreman and M. Zeman

Room 33, Phoenix Civic Plaza

Wednesday and Thursday, January 7 and 8, 2004

Wednesday, January 7

- 8:00 – 8:20 **John R. Steel**, (University of California, Berkeley), *The Proper Forcing Axiom implies all games in $L(R)$ are determined.*
9:00 – 9:20 **William J. Mitchell**, (University of Florida), *Forcing, combinatorics and inner models.*
9:30 – 9:50 **Paul B. Larson**, (Miami University), *The Canonical Function Game.*
10:00 – 10:20 **Menachem Kojman**, (Ben Gurion University of the Negev), *Almost isometric embeddings of metric spaces in the set theoretic lens.*
10:30 – 10:50 **Richard O. Ketchersid**, (University of North Texas), *More on non-tame mice from CH and an ω_1 -dense ideal on ω_1 .*
2:15 – 2:35 **M. C. Stanley**, (San Jose State), *Cofinalities and approachable ordinals below $\aleph_{\omega+1}$.*
3:15 – 3:35 **William Weiss**, (University of Toronto), *Partitioning metric spaces and Bernstein sets.*
3:45 – 4:05 **Stuart Zoble**, (Boise State University), *The consistency strength of some consequences of $SRP(\omega_2)$.*
4:15 – 4:35 **Philip David Welch**, (University of Bristol), *On specialisations of the Jonsson property and sequences of mutually stationary sets.*
4:45 – 5:05 **Justin Tatch Moore**, (Boise State University), *Set mapping reflection.*
5:15 – 5:35 **Mirna Dzamonja*** (University of East Anglia) **and Joel David Hamkins** (CUNY), *Diamond principles on large cardinals.*

AMS-ASL SPECIAL SESSION (*continued*)

Thursday, January 8

- 8:00 – 8:20 **W. Hugh Woodin**, (University of California, Berkeley), *The determinacy of real games.*
- 9:00 – 9:20 **Tetsuya Ishiu**, (University of Kansas), *Club guessing sequences and filters.*
- 9:30 – 9:50 **E. Todd Eisworth**, (University of Northern Iowa), *More coloring theorems.*
- 10:00 – 10:20 **Juris Steprans**, (York University), *Additivity of measure and maximal functions.*
- 10:30 – 10:50 **Tomek Bartoszynski*** (Boise State University) **and Saharon Shelah** (Hebrew University and Rutgers University), *On the existence of Hausdorff ultrafilters.*
- 11:00 – 11:20 **Katherine A. Thompson**, (Carnegie Mellon University), *Club guessing applied to universality problems.*
- 11:30 – 11:50 **James Cummings**, (Carnegie Mellon University), *Mutual stationarity, fine structure and pcf.*