

**ASSOCIATION FOR SYMBOLIC LOGIC
2013-2014 WINTER MEETING**

Baltimore Convention Center
Baltimore, MD

January 17-18, 2014

Program Committee: Alan Dow (Chair), Karen Lange, David Lippel.

All ASL meeting participants are urged to register. The URL for advanced registration for the JMM can be found at

http://jointmathematicsm meetings.org/meetings/national/jmm2014/2160_reg.

The Registration Assistance Desk for JMM will be located Pratt Street Lobby on the 300 level of the Baltimore Convention Center inside Exhibit Hall.

The Joint Mathematics Meetings includes an AMS/ASL co-sponsored Special Session: **Logic and Probability**, on Wednesday, January 15, 8:00 - 10:50 a.m., 2:15 - 6:05 p.m. and Thursday, January 16, 1:00-3:50 p.m., to be held in Room 319, Baltimore Convention Center. The schedule for this Special Session appears on pages 3 and 4 of this program.

All talks in the ASL meeting will be held in Room 319, Baltimore Convention Center.

The ASL Reception will take place on Friday, January 17th, 2014, 5:45 - 8:15 pm in the University Ballrooms 2&3, at the Marriott Baltimore Inner Harbor at Camden Yards.

FRIDAY, JANUARY 17
Room 319, Baltimore Convention Center

Morning

- 9:00 – 9:50 Invited Lecture: **Damir Dzhafarov** (University of Connecticut), *New directions in Reverse Mathematics*.
- 10:00 – 10:50 Invited Lecture: **Alice Medvedev** (City College, CUNY), *A model theorist's geometry: Lascar rank, (non)orthogonality triviality*.

FRIDAY, JANUARY 17
Room 319, Baltimore Convention Center

Afternoon

- 2:00 – 2:50 Invited Lecture: **Jeremy Avigad** (Carnegie Mellon University), *Formal verification, interactive theorem proving, and automated reasoning.*
3:00 – 4:50 Contributed Talks, Session I: *See below.*

Friday Evening

- 5:45 – 8:15 ASL Reception in the University Ballrooms 2&3, at the Marriott Baltimore Inner Harbor at Camden Yards.

SATURDAY, JANUARY 18
Room 319, Baltimore Convention Center

Morning

- 9:00 – 9:50 Invited Lecture: **Maryanthe Malliaris** (University of Chicago), *The asymptotic structure of unstable theories.*
10:00 – 10:50 Invited Lecture: **Su Gao** (University of North Texas), *The complexity of isomorphism problems in symbolic dynamics.*

Afternoon

- 2:00 – 2:50 Invited Lecture: **Joel David Hamkins** (City College of New York, College of Staten Island of CUNY & The CUNY Graduate Center), *Embeddability amongst the countable models of set theory.*
3:00 – 4:50 Contributed Talks, Session II: *see page 3.*

CONTRIBUTED TALKS - SESSION I

Friday, January 17
Room 319, Baltimore Convention Center

- 3:00 – 3:20 **Carl Mummert***, **Alaeddine Saadaoui**, and **Sean Sovine**, *The modal logic of Reverse Mathematics.*
3:30 – 3:50 **Will Boney*** and **Rami Grossberg**, *Forking in Abstract Elementary Classes.*
4:00 – 4:20 **Katalin Bimbo*** and **J. Michael Dunn**, *Combinatory inhabitants of R_{\rightarrow} theorems extracted from sequent calculus proofs.*
4:30 – 4:50 **James T. Smith**, *Tarski in Poland: new translations and background.*

CONTRIBUTED TALKS - SESSION II

Saturday, January 18

Room 319, Baltimore Convention Center

- 3:00 – 3:20 **Sebastian Wyman**, *Partially computable functions and symbolic dynamics.*
- 3:30 – 3:50 **Ermek Nurkaidarov**, *The automorphism group of a just saturated model of Peano Arithmetic.*
- 4:00 – 4:20 **Dan E. Willard**, *An epistemological summary of the significance of self justifying axiom systems.*
- 4:30 – 4:50 **Wesley Calvert, Valentina Harizanov, Julia Knight, Charles McCoy, Alexandra Soskova, and Stefan Vatex** *Jump inversion, linear orderings, and types.*

AMS-ASL SPECIAL SESSION

Logic and Probability

Organizers: Wesley Calvert, Doug Cenzer, Johanna Franklin, Valentina Harizanov

SESSION I

Wednesday, January 15

Room 319, Baltimore Convention Center

- 8:00 – 8:20 **Sam Buss and Mia Minnes*** *New investigations in probabilistic strategies for algorithmic randomness.*
- 8:30 – 8:50 **Alexander Wilce** *Probabilistic foundations for quantum theory.*
- 9:00 – 9:20 **Christopher P. Porter*, Laurent Bienvenu, Antoine Tavenaux,** *Randomness, probability, and computation.*
- 9:30 – 9:50 **Gregory Igusa** *The generic degrees of coarsely computable reals.*
- 10:00 – 10:20 **Daniel Turetsky**, *SJT as an analog of K-triviality.*
- 10:30 – 10:50 **Joseph S. Miller**, *High(CR,MLR) and other properties close to PA.*

SESSION II

Wednesday, January 15

Room 319, Baltimore Convention Center

- 2:15 – 2:35 **Ferit Toska**, *Compressibility of countable subsets of Cantor Space.*
- 2:45 – 3:05 **Alexander Wilce**, *Probabilistic foundations for quantum theory.*
- 3:15 – 3:35 **Timothy H. McNicholl**, *How to hide from a nanobot.*
- 3:45 – 4:05 **Aleksandra Kwiatkowska**, *Uniqueness of an invariant probability measure concentrated on an orbit.*
- 4:15 – 4:35 **Alexander Berenstein*, Itai Ben Yaacov, Ward Henson**, *SJT as an analog of K-triviality.*

- 4:45 – 5:05 **Cameron E. Freer**, *Random symmetric constructions via inverse limits of finite structures.*
- 5:15 – 5:35 **Uri Andrews, Isaac Goldbring*, H. Jerome Keisler**, *A survey on Keisler randomizations.*
- 5:45 – 6:05 **Alexander S. Kechris**, *Amenability, unique ergodicity and random orderings.*

SESSION III

Thursday, January 16

Room 319, Baltimore Convention Center

- 1:00 – 1:20 **Jan S Reimann**, *Effective fractal dimensions for point processes.*
- 1:30 – 1:50 **Jack H. Lutz**, *Points and lines, randomness and dimension.*
- 2:00 – 2:20 **Jason M Rute**, *Schnorr randomness for noncomputable measures.*
- 2:30 – 2:50 **R. Daniel Mauldin**, *Dimension of the intersection of a translation of a subset of the reals by a Martin-Löf random real with the set of all numbers with a given constructive dimension .*
- 3:00 – 3:20 **Johanna Franklin and Henry P Towsner***, *Algorithmic randomness in ergodic theory.*
- 3:30 – 3:50 **Kelty Allen**, *Martin-Löf random Brownian motion.*