ASSOCIATION FOR SYMBOLIC LOGIC
2016 NORTH AMERICAN ANNUAL MEETING

University of Connecticut
Storrs, CT
May 23-26, 2016

Program Committee: P. Blanchette (Chair), D. Dzhafarov, R. Lubarsky, A. Montalban, J. Moore, C. Wood.
Local Organizing Committee: Jc Beall, D. Dzhafarov, D. Ripley, M. Rossberg, R. Solomon (Chair)
Please see asl2016.logic.uconn.edu for additional information.

All plenary lectures will be held in Austin 108. Registration, coffee, and book exhibits will be in Austin 102. The welcoming reception will be held at 6:30 pm on Monday, May 23 in the Wilbur Cross Building, South Reading Room (across the road from the Austin Building). The conference banquet will be held on Tuesday, May 24 at 7:00 pm at the Nathan Hale Inn.

MONDAY, MAY 23
Morning, Austin 108

9:00 – 9:45 Registration, Coffee and Snacks (Austin 102).
9:45 – 10:00 Opening Remarks
10:00 – 11:00 Invited Lecture: Michael Rathjen (Leeds), Relating strong type theories to set theories.
11:15 – 12:15 Tutorial: Denis Hirschfeldt (Chicago), The computability theory and reverse mathematics of combinatorial principles, Part A.

Afternoon, Austin 108

2:00 – 3:00 Invited Lecture: Magdalena Kaufmann (Connecticut), Models for natural language meaning.
3:15 – 4:15 Tutorial: Maryanthe Malliaris (Chicago), Model theoretic perspectives on comparing complexity, Part A.

6:30 – 9:00 Welcoming Reception, Wilbur Cross Building, South Reading Room.
8:30 – 11:00 ASL Council Meeting, Oak Hall 408.
TUESDAY, MAY 24
Morning, Austin 108

8:00 – 9:00 Coffee and Snacks (Austin 102).
9:00 – 10:00 Invited Lecture: Itay Neeman (UCLA), Forcing iterations.
10:15 – 11:15 Tutorial: Denis Hirschfeldt (Chicago), The computability theory and reverse mathematics of combinatorial principles, Part B.
11:30 – 12:30 Tutorial: Maryanthe Malliaris (Chicago), Model theoretic perspectives on comparing complexity, Part B.

Afternoon

2:00 – 3:00 Invited Lecture: Zoe Chatzidakis (Ecole Normale Supérieure), Groups definable in existentially closed difference fields – a survey. Austin 108
7:00 – 10:00 Banquet, Nathan Hale Inn

WEDNESDAY, MAY 25
Morning, Austin 108

8:00 – 9:00 Coffee and Snacks (Austin 102).
9:00 – 10:00 Invited Lecture: Karen Lange (Wellesley), Integer parts and lengths of developments.

Afternoon

2:00 – 3:00 Tutorial: Denis Hirschfeldt (Chicago), The computability theory and reverse mathematics of combinatorial principles, Part C. Austin 105
– Tutorial: Maryanthe Malliaris (Chicago), Model theoretic perspectives on comparing complexity, Part C. Austin 110
THURSDAY, MAY 26

Morning

8:00 – 9:00 Coffee and Snacks (Austin 102).
9:00 – 10:00 Retiring Presidential Address: Alasdair Urquhart (Toronto), Russell and Gödel. Austin 108

Special Session I: Model Theory
(Organized by Cameron Hill and Joel Nagloo)

Session IA, TUESDAY, MAY 24
Austin 105

3:15 – 3:40 Jana Marikova (Western Illinois), Quantifier elimination in o-minimal fields with o-minimal residue fields.
3:45 – 4:10 Will Johnson (UC Berkeley), When do imaginary sorts define infinity?
4:15 – 4:40 Will Boney (Harvard), Searching for the right logic for AECs.
4:45 – 5:10 Dragan Mašulovič (Novi Sad) and Lynn Scow* (Vassar), Categorical constructions and the Ramsey property.

Session IB, WEDNESDAY, MAY 25
Austin 105

10:15 – 10:40 Alice Medvedev (CUNY), Minimal groups in difference fields living on high-dimensional algebraic groups.
10:45 – 11:10 Silvain Rideau (UC Berkeley), Imaginaries in valued fields with operators.
11:15 – 11:40 Vera Koponen (Uppsala), Simple homogeneous structures.
11:45 – 12:10 Clifton Ealy (Western Illinois), Residue Field Domination.

Session IC, THURSDAY, MAY 26
Austin 105

10:15 – 10:40 Erin Caulfield (Illinois-Urbana), On expansions of the real field by complex subgroups.
10:45 – 11:10 Chris Laskowski, Richard Rast, and Douglas Ulrich* (Maryland - College Park), A new notion of cardinality for countable first order theories.
11:45 – 12:10 Rehana Patel (Olin), Stable hypergraph regularity.
Special Session II: Computability Theory
(Organized by Barbara Csima and Mariya Soskova)

Session IIA, TUESDAY, MAY 24
Austin 110

3:15 – 3:40 **Peter Cholak** (Notre Dame), *Rado’s path decomposition.*
3:45 – 4:10 **David Belanger** (NUS), *A more uniform Friedberg-Muchnik theorem.*
4:15 – 4:40 **Rutger Kuyper** (Wisconsin-Madison), *Destroying randomness and genericity using symmetric differences.*
4:45 – 5:10 **Keng Meng Ng* and **Maxim Zubkov** (Nanyang Technological University), *Strongly nontrivial automorphisms of computable linear orderings.*

Session IIB, WEDNESDAY, MAY 25
Austin 110

10:15 – 10:40 **Uri Andrews**, **Steffen Lempp***, **Joseph S. Miller**, (Wisconsin-Madison); **Hristo A. Ganchev**, **Rutger Kuyper**, **Alexandra A. Soskova**, **Mariya I. Soskova** (Sofia); *On cototality and the skip operator in the enumeration degrees.*
10:45 – 11:10 **Stephen Flood** (Bridgewater State), *Reverse mathematics and matchings of countable graphs.*
11:15 – 11:40 **Eric Astor**, **Damir Dzhafarov**, **Reed Solomon**, and **Jacob Suggs** (Connecticut), *The uniform content of ADS.*
11:45 – 12:10 **Douglas Cenzer** and **Chris Porter*** (Florida), *Random members of a Π^0_1 class.*

Session IIC, THURSDAY, MAY 26
Austin 110

10:15 – 10:40 **Valentina Harizanov** (George Washington), *Turing degree spectra of structures*
10:45 – 11:10 **Jonny Stephenson* and **Barbara Csima** (Waterloo), *Degrees of isomorphisms between structures of finite computable dimension*
11:15 – 11:40 **Joe Mileti** (Grinnell), *A rainbow analogue to Rado’s homogeneous equation theorem*
11:45 – 12:10 **Ekaterina Fokina** (Vienna University of Technology), *Index sets for n-decidable structures categorical relative to m-decidable presentations*
Special Session III: Set Theory
(Organized by Clinton Conley and Grigor Sargsyan)

Session IIIA, TUESDAY, MAY 24
Austin 103

3:15 – 3:40 Diana Ojeda-Aristizabal (Toronto), Topological partition relations for ordinals below $\omega^\omega$.
3:45 – 4:10 Sean Cox (VCU), Layered posets, weak compactness, and Kunen’s universal collapse.
4:45 – 5:10 Trevor Wilson (Miami (Ohio)), The consistency strength of two-step generic absoluteness for the pointclass $\exists^R (\Pi^1_2)^{uB}$.

Session IIIB, WEDNESDAY, MAY 25
Austin 103

10:15 – 10:40 Scott Cramer (Rutgers), Tree representations from very large cardinals.
10:45 – 11:10 Dima Sinapova (Illinois-Chicago), The tree property at successors of a singular cardinal.
11:15 – 11:40 Spencer Unger (UCLA), Successive failures of weak square together with the failure of $\text{SCH}$.
11:45 – 12:10 Nam Trang (UC Irvine), Large cardinals, determinacy, and forcing axioms.

Session IIIC, THURSDAY, MAY 26
Austin 103

10:15 – 10:40 Burak Kaya (Rutgers), The complexity of the topological conjugacy problem for Toeplitz subshifts.
10:45 – 11:10 Alessandro Vignati (York), Forcing axioms and automorphisms of $C^*$-algebras.
11:15 – 11:40 Su Gao, Steve Jackson*, Ed Krohne, and Brandon Seward (North Texas), Tilings and colorings for Abelian group actions.
11:45 – 12:10 Peter Burton (Cal Tech), Furstenberg entropy and weak equivalence.
Special Session IV: History & Philosophy of Logic.

Dedicated to the memory of Aldo Antonelli

(Organized by Gillian Russell and Richard Zach)

Session IV A, TUESDAY, MAY 24
Austin 163

3:15 – 4:10 Walter Dean and Sean Walsh* (UC Irvine), The prehistory of the subsystems of second-order arithmetic.

4:15 – 5:10 David Ripley (Connecticut), Toward a naive type theory.

Session IV B, WEDNESDAY, MAY 25
Austin 163

10:15 – 11:10 Zeynep Soysal (Harvard), Unfolding the content of the concept of set

11:15 – 12:10 Teresa Kouri (Ohio State), Carnap on translations

Session IV C, THURSDAY, MAY 26
Austin 163

10:15 – 11:10 Gil Sagi (LMU Munich), Invariance criteria: terms and constraints.

11:15 – 12:10 Daniel Nolan (ANU), Reflections on Routley’s ultralogic program.

CONTRIBUTED TALKS

Session A, MONDAY, MAY 23
Austin 163

4:45 – 5:05 Robert Lubarsky, Feedback computability.

5:10 – 5:30 William Calhoun, Strongly nontrivial minimal Turing degrees.

5:35 – 5:55 James Barnes, The $\Sigma_2$ theories of the arithmetic and hyperarithmetic degrees as upper semi-lattices are decidable.
Session B, MONDAY, MAY 23
Austin 103
4:45 – 5:05 Matthew Harrison-Trainor, Scott ranks of models of a theory.
5:10 – 5:30 Takayuki Kihara, Computability-theoretic methods in descriptive set theory.
5:35 – 5:55 Achilles A. Beros* and Konstantinos A. Beros, Index sets of universal codes.
6:00 – 6:20 Alberto Marcone, Isometry and isometric embeddability between ultrametric Polish spaces.

Session C, MONDAY, MAY 23
Austin 202
5:10 – 5:30 Stefan Kaufmann, Probabilities, conditionals, and conditionalization.
5:35 – 5:55 Matthias Jenny, The conditional logic of Turing reducibility.

Session D, TUESDAY, MAY 24
Austin 103
5:25 – 5:45 Ulrich Kohlenbach, Proof-theoretic metatheorems for metric structures and their relation to positive bounded logic.
5:50 – 6:10 Richard Zach, General natural deduction rules and general lambda calculi.

Session E, TUESDAY, MAY 24
Austin 202
5:25 – 5:45 Travis Nell* and Philipp Hieronymi, Distal and non-distal pairs.
5:50 – 6:10 Sebastien Vasey, A proof of Shelah’s eventual categoricity conjecture in universal classes.
6:15 – 6:35 Jake Pardo, Gambling against some odds.

Session F, TUESDAY, MAY 24
Austin 163
5:25 – 5:45 Fabio Lampert, Tableau methods for two-dimensional modal logic.
5:50 – 6:10 Jordan Stein, Two-dimensional semantics without the contingent a priori.
Session G, WEDNESDAY, MAY 25
Austin 103
5:10 – 5:30 Noah Hughes, Reverse mathematics and marriage problems with finitely many solutions.
6:00 – 6:20 Iian Smythe, Towards a selective Gowers dichotomy.

Session H, WEDNESDAY, MAY 25
Austin 202
4:45 – 5:05 Athar Abdul-Quader, Enayat models.
5:10 – 5:30 Francis Adams, Weak Borel chromatic number and dominating reals.
5:35 – 5:55 Konstantinos A. Beros, Normal numbers and a completeness result for difference sets.
6:00 – 6:20 Achilles Beros, Mushfeq Khan*, and Bjorn Kjos-Hanssen, Effectively bi-immune sets and recursively bounded diagonally non-recursive functions.

Session I, WEDNESDAY, MAY 25
Austin 163
4:45 – 5:05 Dirk Schlimm, Frege’s Begriffsschrift notation: design principles and trade-offs.
5:35 – 5:55 Samara Burns, Analyticity and logicality in semantic constraints.
6:00 – 6:20 Damon Scott, A twenty-minute glimpse of well-structured mathematical logic.