

# BLAST 2018 Daily Program

Monday August 6<sup>th</sup>

8:20-8:50 Registration at OLIN Rotunda. (All plenary talks are in OLIN 105. All contributed talks are in Boetcher (BAUD 101 and BAUD 102). The welcome reception will take place just outside of OLIN 105, in the rotunda.)

8:50 Opening OLIN 105

9:00 – 9:50 **Dana Bartosova:** Unique amenability of topological groups. OLIN 105

Coffee break

10:10 – 11:00 **George Metcalfe:** Uniform Interpolation. OLIN 105

Coffee break

11:20 – 12:00

**Timothy Trujillo:** Hypernatural numbers in ultra-Ramsey theory. BAUD 101

**John Snow:** Terms in the variety generated by  $N_5$ . BAUD 102

12:00 – 12:40

**Jing Zhang:** Uncountable Rainbow Ramsey Theory Revisited. BAUD 101

**Andrew Moorhead:** Higher Dimensional Congruences and Supernilpotence. BAUD 102

Lunch break

2:30 – 3:20 **Manuela Busaniche:** Bounded commutative residuated lattices with a retraction term. OLIN 105

Coffee break

3:50 – 4:40 **Paul Gartside:** The Tukey Order in Topology and Analysis. OLIN 105

Break

5:00 – 5:40

**Natasha Dobrinen:** Perfect tree forcings for singular cardinals. BAUD 101

**Wesley Fussner:** Distributivity in residuated structures. BAUD 102

5:40 – 6:20

**David Milovich:** Between Tukey equivalence and Boolean automorphism. BAUD 101

**Sara Ugolini:** A duality-theoretic approach to MTL-algebras. BAUD 102

6:30 – 8:00 Welcome reception OLIN Rotunda.

## Tuesday August 7<sup>th</sup>

9:00 – 9:50 **Wesley Holliday:** Choice-free Stone duality. OLIN 105

Coffee break

10:10 – 11:00 **George Metcalfe:** Uniform Interpolation. OLIN 105

Coffee break

11:20 – 12:00

**Adam Prenosil:** Twist products of bimonoids. BAUD 101

**Will Brian:** Universal automorphisms of  $\mathcal{P}(\omega) / \mathrm{fin}$ . BAUD 102

12:00 – 12:40

**Peter Jipsen:** Nonassociative right hoops. BAUD 101

**Yifeng Ding:** The logic of comparative cardinality. BAUD 102

Lunch break

2:30 – 3:20 **Agnes Szendrei:** Closure operators on the clone lattice defined by ultrapowers. OLIN 105

Coffee break

3:50 – 4:40 **Paul Gartside:** The Tukey Order in Topology and Analysis. OLIN 105

Break

5:00 – 5:40

**Trevor Jack:** Computational complexity of checking various semigroup properties. BAUD 101

**Paul Mckenney:** Homeomorphisms of Cech-Stone remainders: the zero-dimensional case. BAUD 102

5:40 – 6:20

**Kevin Berg:** The Complexity of Homomorphism Factorization. BAUD 101

**Zeinab Khanjanzadehseresti:** A constructive view of weak topologies on a topos. BAUD 102

6:20 – 7:00

**Eran Crockett:** Nilpotent Mal'cev clones on sets of square-free cardinality. BAUD 101

**Ali Madanshekaf:** Some Aspects of Weak Ideal Topology on Acts over Monoids. BAUD 102

Wednesday August 8<sup>th</sup>

9:00 – 9:50 **George Metcalfe:** Uniform Interpolation. OLIN 105

Coffee break

10:10 – 11:00 **M. Andrew Moshier:** The role of Bitopology in Natural Duality. OLIN 105

Coffee break

11:20 – 12:00

**Almudena Colacito:** From Lattice-Ordered Groups to Residuated Lattices: Hamiltonian and Nilpotent Varieties. BAUD 101

**Sherwood Hachtman:** The super tree property at the successor of a singular cardinal. BAUD 102

12:00 – 12:40

**Tomas Kroupa:** Positive Group Homomorphisms of Free Unital Abelian l-groups. BAUD 101

**Sonia Navarro Flores:** Ramsey spaces and the Katetov order. BAUD 102

Lunch break

2:30 – 5:00 Excursion to Dinosaur Ridge

Thursday August 9<sup>th</sup>

9:00 – 9:50 **Mirna Dzamonja:** Higher order versions of the logic of chains. OLIN 105

Coffee break

10:10 – 11:00 **M. Andrew Moshier:** The role of Bitopology in Natural Duality OLIN 105

Coffee break

11:20 – 12:00

**John Harding:** Boolean subalgebras of orthomodular structures. BAUD 101

**Joanne Walters-Wayland:** Parts of biframes and d-frames. BAUD 102

12:00 – 12:40

**Jiri Janda:** The sum of observables on a  $\sigma$ -distributive lattice effect algebra. BAUD 101

**Joseph Van Name:** Boolean-valued point-free topology. BAUD 102

Lunch break

2:30 – 3:20 **David Fernandez-Breton:** Variations on a theme: Hindman's theorem. OLIN 105

Coffee break

3:50 – 4:40 **Paul Gartside:** The Tukey Order in Topology and Analysis. OLIN 105

Break

5:00 – 5:40

**Carl Hewitt:** Strong Types for Direct Logic. BAUD 101

**Sandor Jenei:** Group representation, Hahn-type embedding, and the FSSC for  $\mathbf{IUL}^{\text{fp}}$ . BAUD 102

5:40 – 6:20

**Shehzad Ahmed:** Jonsson Filters. BAUD 101

**Jan Pavlik:** Distributivity of a segmentation lattice. BAUD 102

7:00- 9:00 Conference Dinner at ECS 510.

## Friday August 10<sup>th</sup>

9:00 – 9:50 **Vincenzo Marra:** On the universal-algebraic theory of measure and integration. OLIN 105

Coffee break

10:10 – 11:00 **M. Andrew Moshier:** The role of Bitopology in Natural Duality. OLIN 105

Coffee break

11:20 – 12:00

**Richard Ball:** Pointfree pointwise convergence, Baire functions, and epicompletions of truncated archimedean l-groups. BAUD 101

**Pratulananda Das:** Restricted kinds of density and the associated ideals. BAUD 102

12:00 – 12:40

**Marco Abbadini:** Operations that preserve integrability, and truncated Riesz spaces. BAUD 101

**John Fisher:** Autolog Equality Modulation. BAUD 102

Lunch break

2:00 – 2:40

**Jan Paseka:** On injective constructions of S-semigroups. BAUD 101

**Athena Sparks:** Promise Constraint Satisfaction Problems. BAUD 102

2:40 – 3:20

**Geiza Jenca:** Convex effect algebras and the Kalmbach monad. BAUD 101

**William De Meo:** On the complexity of computing difference terms and operations. BAUD 102

Coffee break

3:40 – 4:20

**Maria Cruz:** Completions of Pseudo-ordered Sets. BAUD 101

**Andre Kornell:** The logic of Sigma formulas BAUD 102  
BAUD 102

4:20 – 5:00

**Matt Evans:** Some peculiar properties of the variety of bounded commutative BCK-algebras. BAUD 101