# Algebras & Clones FEST 2014

## **Conference Program**

Main lectures are scheduled for 50 minutes + 5 minutes discussion. Contributed talks are scheduled for 20 minutes + 5 minutes discussion.

### **SUNDAY June 29**

18:00-22:00 **REGISTRATION** & dinner, beer etc., **pub U Schnellů** (Tomášská 27, at the corner of Malostranské nám., across the square from the conference place)

## MONDAY June 30 - The Universal Algebra Classic DAY

8:00-9:00, 10:40-11:10 **REGISTRATION** in aula

#### **Aula**

9:00		Welcome blahblahs
	chair: Matt Valeriote	
9:10	Peter Mayr	Finitely generated varieties with edge term
10:10	Marcel Jackson	Complexity of variety membership
10:40		coffee and beer break
	chair: Libor Barto	
11:10	Emil Kiss	The growth rate of solvable algebras
12:10	László Zádori	The structure of polynomial operations associated with smooth digraphs

#### Room S9

	chair: Emil Kiss	
14:30	Matt Valeriote	On the complexity of testing for Jónsson terms
15:00	Boza Tasić	Operator properties of congruence permutable varieties with strongly definable principal congruences
15:30	Markus Steindl	On the subpower membership problem for semigroups
16:00		coffee and beer break
	chair: Anna Romanowska	
16:30	Michał Stronkowski	Structural completeness for discriminator varieties
17:00	Jelena Jovanović	On optimal Mal'cev conditions for congruence meet-semidistributivity
17:30	Agata Pilitowska	Entropicity and generalized entropic property in idempotent <i>n</i> -semigroups

## TUESDAY July 1 - The Universal Algebra Beyond Limits DAY

#### Aula

	chair: Michael Kinyon	
9:00	Petr Vojtěchovský	The term $x^{1/2}yx^{1/2}$
10:00	Jonathan Smith	Poset loops
10:30		coffee and beer break
	chair: Manuel Bodirsky	
11:00	Stanislav Živný	Valued CSPs and weighted clones
		Algebras and constant-factor approximable Min
12:00	Andrei Krokhin	CSPs

#### Room S9

	chair: Andrei Krokhin	
14:30	Alexandr Kazda	Linear Datalog and $k$ -permutability = symmetric Datalog
15:00	Dejan Delić	Maltsev constraints via LFP+Rank
15:30	Petar Marković	Quantified constraint satisfaction on semicomplete digraphs
16:00		coffee and beer break
	chair: Jonathan Smith	
16:30	Anna Romanowska	Duality for some classes of convex sets
17:00	Anna Zamojska-Dzienio	The structure of medial quandles

17:30 – a walk through Prague Castele to Bubeneč

18:30 - dinner at Pelléova vila

## **WEDNESDAY July 2 – The Clowns DAY**

### Aula

	chair: Stanislav Živný	
9:00	Dmitriy Zhuk	On key relations preserved by a weak near unanimity operation
10:00	Michael Pinsker	Clones on Ramsey structures
		coffee and beer break
	chair: László Zádori	
11:00	Manuel Bodirsky	Homomorphisms to the clone of projections
12:00	András Pongrácz	Reconstructing the topology of the polymorphism clone of the random graph

### Room S9

	chair: Michael Pinsker	
14:30	Maja Pech	On automatic homeomorphicity for topological monoids
15:00	Christian Pech	On universal homogeneous polymorphisms and automatic homeomorphicity for clones
15:30	Erkko Lehtonen	Finite characterizability of equational classes of threshold functions
16:00		coffee and beer break
	chair: Dmitriy Zhuk	
16:30	Mike Behrisch	Centraliser clones on finite domains
		Some observations on centralizing monoids and
17:00	Hajime Machida	minimal clones
17:30	Edith M. Vargas-García	On the cardinality of the C-clone lattice
18:00	Worakrit Supaporn	Category equivalences of clones

## **THURSDAY July 3 – The Associative Algebra DAY**

## Room S9

	chair: Alexandr Kazda	
9:00	Nareupanat Lekkoksung	On regular ordered ternary semigroups
		Presentation for semigroups satisfying $x=x^k$ ,
9:30	Somnuek Worawiset	<i>k</i> >2
10:00	Oleg Košik	Term-equivalence of semigroups
10:30		coffee and beer break
	chair: Peter Mayr	
11:00	László Márki	Commutators for near-rings
		Some results on near-rings of skew polynomials
11:30	Abdollah Alhevaz	over nil rings
		The lattice of quasivarietes of modules over a
12:00	Anna Mućka	Dedekind ring

## Aula

	chair: Petr Vojtěchovský	
14:30	Michael Kinyon	Forbidden subalgebra theorems in semigroup theory
15:30	Libor Polák	On syntactic structures
		coffee and beer break
	chair: David Stanovský	
16:30	Boris Vernikov	Special elements of the lattice of epigroup varieties
17:00	Miroslav Ploščica	Uncountable critical point for congruence distributive varieties
17:30		Remembering Jarda
18:00		Byebye blahblahs and snacks and drinks