

# SCHEDULE

## INTEGERS CONFERENCE 2009

**Note: All talks will take place in the Education Center.**

**Wednesday, October 14**

9:00 am – 5:00 pm *Registration in the Education Center first floor lobby area.*

### Room 5

9:45 – 10:00	<b>Welcoming Remarks</b> Sandra Stone, Provost, UWG George Kieh, Dean, COAS Bruce Landman
10:00 – 10:20	Neil Hindman <i>Density Recurrence and Difference Sets</i>
10:30 – 10:50	Takao Komatsu <i>Arithmetical Properties of Reciprocal Sums of Fibonacci-type Numbers</i>
11:00 – 11:20	Aviezri S. Fraenkel <i>Tromping Games</i>
11:30 – 11:50	James Sellers <i>Elementary Proofs of Parity Results for 5-regular Partitions</i>
11:50 – 1:30	<b>Lunch</b>
1:30 – 1:50	Melvyn B. Nathanson <i>Phase Transitions in Groups with a Prescribed Infinite Set of Generators</i>

### Room 5

2:00 – 2:50	<b>Plenary Speaker</b> – Hendrik Lenstra <i>Finding the Ring of Integers in a Number Field</i>
3:00 – 3:20	Vsevolod F. Lev <i>Translation-stable Sets in <math>\mathbb{Z}/p\mathbb{Z}</math></i>
3:30 – 3:50	Pantelimon Stanica <i>Independence Number and Spectra of Generalized Petersen Graphs</i>
4:00 – 4:20	Gautami Bhowmik <i>On the Alon Dubiner Constant</i>
4:30 – 4:50	Paul Pollack <i>Perfect Numbers and their Friends</i>

## Thursday, October 15

### Room 1

### Room 2

9:00 – 9:20	Paul Young <i>Bernoulli Numbers and Generalized Factorial Sums</i>	Angela Siegel <i>Cutting Down the Numbers</i>
9:30 – 9:50	Aaron Robertson <i>On the Minimum Number of Monochromatic Solutions of <math>x + y &lt; z</math></i>	Joon Yop Lee <i>Polytope Numbers and their Properties</i>
<b>10:00-10:50</b>	<b>Plenary Speaker</b> – Kevin Ford <i>Prime Chains and Applications</i>	
11:00 – 11:20	Abdollah Khodkar <i>Super Edge-Graceful Labelings of Complete Bipartite Graphs</i>	Karl Mahlburg <i>Asymptotics for Crank and Rank Moments</i>
11:30 – 11:50	Wolfgang A. Schmid <i>Generalizations of the Davenport Constant</i>	Yuan-You Fu-Rui Cheng <i>Analytic Implications from the Remainder of the Prime Number Theorem</i>
11:50 – 1:30	<b>Lunch</b>	

**Room 1****Room 2**

1:30 – 1:50	Neil Lyall <i>Optimal Polynomial Return Times</i>	Rishi Nath <i>p-core Partitions, Welter's Game, and the Symmetric Group: Recent Results</i>
<b>2:00 – 2:50</b>	<b>Plenary Speaker</b> – Jean-Marc Deshouillers <i>On the Distribution Modulo 1 of Mean Values of Arithmetic Functions</i>	
3:00 – 3:20	Florian Luca <i>Multiply Perfect Fibonacci Numbers</i>	Heinrich Niederhausen <i>Pattern in Paths</i>
3:20 – 3:40	<b>Break</b>	
3:40 – 4:00	Brian Hopkins <i>Partition Dynamics of the Sand Pile Model</i>	Mitsuo Kobayashi <i>On the Density of Abundant Numbers</i>
4:10 – 4:30	Jaewoo Lee <i>Geometry of Sumsets</i>	Geoffrey Apal <i>Proving Balanced <math>T^2</math> and <math>Q^2</math> Identities Using Modular Forms</i>
4:40 – 5:00	Holly Meeks <i>(a, b)-Triples</i>	Mizan R. Khan <i>A Variation on the Number of Sums and Differences in a Finite Field</i>
5:10 – 5:30	Carrie E. Finch <i>Special Sierpiński Numbers</i>	Paul Ottaway <i>The Short Disjunctive Sum of Games</i>

**Friday, October 16****Room 1****Room 2**

9:00 – 9:20	Eugen J. Ionascu <i>Platonic Solids in <math>Z^3</math></i>	Thai Hoang Le <i>Intersective Polynomials and the Primes</i>
9:30 – 9:50	Steve Butler <i>Tiling Polygons with Lattice Triangles</i>	William Banks <i>Carmichael Numbers in Arithmetic Progressions</i>
<b>10:00-10:50</b>	<b>Plenary Speaker</b> – Ron Graham <i>Juggling Drops, Descents and Eulerian Numbers</i>	
11:00 – 11:20	Enrique Trevino <i>Explicit Bounds for the Burgess Bound for Character Sums</i>	Neil McKay <i>Dicotic Games, a New Name and New Results</i>

**Room 1****Room 2**

11:30 – 11:50	Shanzhen Gao <i>Some New Sequences Arising From Self-Avoiding Walks</i>	Andreas Philipp <i>Orders in Algebraic Number Fields with Half-factorial Localizations</i>
11:50 – 1:30	<b>Lunch</b>	
1:30 – 1:50	Richard J. Nowakowski <i>Loopy Subtraction Games</i>	Doug Iannucci <i>Primitive Weird Numbers</i>
<b>2:00 – 2:50</b>	<b>Plenary Speaker</b> – András Sárközy <i>A Finite Erdős-Fuchs Theorem</i>	
3:00 – 3:20	Kevin O'Bryant <i>Generalized Sumsets and Differencesets</i>	Michael Rowell <i>Conjugate Durfee Squares and the Finite Heine Transformation</i>
3:20 – 3:40	<b>Break</b>	
3:40 – 4:00	Jianqiang Zhao <i>Special Values of Multiple Zeta Functions Associated with Lie Algebras</i>	Anant Godbole <i>Random Additive Bases</i>
4:10 – 4:30	Hoi H. Nguyen <i>A Strong Inverse Littlewood-Offord Theorem and Applications</i>	Veselin Jungic <i>On a Rado Type Problem for Homogeneous Second Order Linear Recurrences</i>
4:40 – 5:00	Dominic Klyve <i>On the Sum of the Reciprocals of Amicable Numbers</i>	James T. Perconti <i>On Ramsey Numbers for Sets Free of Prescribed Differences</i>
5:10 – 5:30	Akihiro Matsuura <i>Analysis of Recurrence Relations Generalized from the 4-Peg Tower of Hanoi</i>	Shuguang Li <i>Why Should Artin's Conjecture Hold?</i>

## Saturday, October 17

### Room 1

### Room 2

9:30 – 9:50	Brendan Nagle <i>Hypergraph Regularity and Quasirandomness</i>	Mark Shattuck <i>Compression Theorems for Periodic Tilings</i>
10:00 – 10:20	William J. Keith <i>Recursively Self-Conjugate Partitions</i>	Max Alekseyev <i>On the Intersections of Fibonacci, Pell, and Lucas Numbers</i>
10:30 – 10:50	Mark Kozek <i>An Asymptotic Formula for Goldbach's Conjecture with Monic Polynomials</i>	Saradha Natarajan <i>Generalizations of a Problem of Pillai</i>
11:00 – 11:20	Antonio M. Oller-Marcén <i>A New Look at the Trailing Zeroes of <math>n!</math></i>	Urban Larsson <i>Impartial Games and Random Graphs</i>
11:30 – 11:40	Kate Thompson <i>Additive Structure in Sparse Difference Sets</i>	Jonathan Chappelon <i>A Universal Sequence of Integers Generating Balanced Steinhaus Figures</i>
12:00 – 12:20	Kurt Vinhage <i>Van der Waerden Numbers on Finite Gap Sets of Order 3</i>	Lola Thompson <i>Heights of Divisors of <math>x^n - 1</math></i>