

West Coast Number Theory Conference
December 16—20, 2011

SATURDAY DEC. 17th

Analytic Number Theory Session – Christian Ballot

9:00 Lola Thompson *Products of Distinct Cyclotomic Polynomials*

9:20 David Bailey *Non-normality of Stoneham constants*

9:40 Avram Gottschlich *Distribution of indices dividing the terms of elliptic divisibility sequences*

10:00 Announcements/BREAK

10:30 Jianqiang Zhao *q -analog of Wolstenholme's congruence for multiple harmonic sums*

Elementary Number Theory Session—Neville Robbins

10:50 Carl Pomerance *How monotone can Euler's function be?*

11:10 David Terr *Some interesting infinite families of primitive Pythagorean triples*

11:30 Florian Luca *On the number of divisors of the factorial*

12:00 LUNCH

Elementary Number Theory Session cont'd—Neville Robbins

1:30 Neville Robbins *Partitions of n into k parts*

1:50 Christian Ballot *On some Lucasian sequences*

2:10 David Moulton *Representing powers of 2 via subset sums of small sets*

2:30 Kjell Wooding *On Cornacchia's Algorithm*

2:50 BREAK

3:20 Nathan Hamlin *Recurrence Representations*

3:40 Rob Akscyn *On the number of composites less than a given magnitude*

4:00 Carrie Finch *Nonlinear Sierpinski and Riesel Numbers*

4:00 FIRST PROBLEM SESSION – Gerry Myerson

6:00 DINNER

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SUNDAY DEC. 18

Algebraic Number Theory Session – Kjell Wooding

9:00 Renate Scheidler *Vertical symmetries in continued fractions of Schinzel sleepers*

9:20 Colin Weir *Decomposing the Jacobian of Hermitian curves*

9:40 Dustin Moody *Class numbers, character sums and isogenies*

10:00 Announcements/BREAK

10:30 Xun Sun *On well-rounded integral lattice in the plane*

10:50 Kevin McGown *Wildly ramified cyclic Euclidean fields*

11:10 Robert Akscyn *Resolving Mertens' Paradox*

11:30 Nick Rauh *On Lindemann Weierstrass*

AFTERNOON EXCURSIONS

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MONDAY DEC. 19

Computational Number Theory – Victor Miller

9:00 Sergio Guzman Sanchez *Perfect repdigits*

9:20 Andrew Shallue *Constructing Carmichael numbers with many prime factors*

9:40 Jonathan Webster *Simple cubic function fields*

10:00 Announcements/BREAK

10:30 M. Tip Phaovibol *Multiple zeta values identities arise from <untypable>*

10:50 Peter Montgomery *Early history of the number field sieve*

11:10 Victor Miller *Click and Clack meet Ivan Niven*

11:30 Syrous Marivani *Partition function mod 11 (Part 1)*

12:00 LUNCH

Combinatorial Number Theory Session – David Moulton

1:30 Syrous Marivani *Partition function mod 11 (Part 2)*

1:50 Russell Hendel *Hofstadter's Q function*

2:10 Chris Pryby *On a conjecture of Solymosi (Part 1)*

2:30 Albert Bush *On a conjecture of Solymosi (Part 2)*

2:50 BREAK

Diophantine Session – Florian Luca

3:20 Eva Goedhart *On the Diophantine equation $nx^2 + 2^{(2m)}3^{(2m)} = y^n$*

3:40 Saul Diaz Alvarado *Balancing with Fibonacci numbers*

4:00 Glenn Henshaw *Search bounds for rational points of linear and quadratic species*

4:20 Matt Greenberg *TBA*

4:40 Business Meeting and 2ND Problem Session – Bart Goddard/Gerry Myerson

6:00 DINNER

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TUESDAY DEC. 20

Historical Session –

7:30 Pick up box lunches (if ordered) at breakfast

9:00 Informal discussion of past conferences and problems

Break—delivered at 9:30.

11:30 Farewell and check out

12:00 LUNCH