West Coast Number Theory Conference
December 16—20, 2007

MONDAY

Algebraic Number Theory Session – Helen Grundman

9:00 Leanne Robertson *Monogeneity in cyclotomic fields*

9:20 Leon McCulloh *Stickelberger evolution (a new branch)*

9:40 Vinod Radhakrishivan *Galois representations attached to elliptic curves*

10:00 Patrick Rault *On uniform bounds for rational points on rational curves and thin sets*

10:20 Announcements/BREAK

10:50 Darrin Doud *Local corrections of discriminant bounds and small degree extentions of
                quadratic fields*

11:10 Jeff Achter *Permutation polynomials and exceptional covers*

11:30 Rachel Pries *Absolutely simple Jacobians of given genus and p-rank*

12:00 LUNCH

Elementary Number Theory Session – Doug Iannucci

1:30 Jasbir Chahal *A fake zeta function*

1:50 Helen Grundman *Semihappy numbers*

2:10 Pante Stanica *Sums of Thue-Morse sequences over arithmetic progressions*

2:30 Carrie Finch *On the irreducibility of polynomials which are sums of polynomials with
                distinct cyclotomic factors*

2:50 BREAK

3:20 Doug Iannucci *Catalan numbers, factorials, and sums of aliquot parts*

3:40 Florian Luca *Variants of Sierpinski numbers*

4:10 Sam Wagstaff *Congruences for sums of squares*

4:30 FIRST PROBLEM SESSION – Gerry Myerson

6:00 DINNER

West Coast Number Theory Conference
December 16—20, 2007

TUESDAY

Analytic Number Theory Session – Gary Walsh

9:00 Gerry Myerson *Trifectas in geometric progression*
9:20 Wendell Ressler *Hecke groups and reduction of a λ -binary quadratic forms*
9:40 David Cardon *On a conjecture related to the sum of the Möbius function*
10:00 Xian-Jin Li *On the Euler product of some zeta functions*

10:20 Announcements/BREAK

Miscellaneous Session—Gary Walsh
10:50 Geoffrey Apel *Proving certain identities using modular forms*
11:10 Michael Knapp *Homogeneous equations over p-adic fields*
11:30 Gary Walsh *Arithmetical Properties of a sequence of integers associated to a family of simultaneous Pell equations*

12:00 LUNCH

AFTERNOON EXCURSIONS

West Coast Number Theory Conference
December 16—20, 2007

WEDNESDAY--REVISED

Computational Number Theory Session – Andrew Shallue

9:00 Eric Landquist *Class number computation in cubic function fields*
9:20 Pieter Rozenhart *The Davenport-Heilbroun theorem and binary cubic forms*
9:40 Alan Silvester *Principle ideal testing (in real quadratic fields)*
10:00 Adrian Tang *Computing fundamental unit of function fields of unit rank one*

10:20 Announcements/BREAK

10:50 Eric Roettger *A cubic extension of the Lucas functions*
11:10 Kjell Wooding *Current techniques in sieve design*

11:30 Jonathan Webster *Cubic function fields in* Char(*k*)=3

12:00 LUNCH

(Computational Con't.)

1:30 Qingquan Wu *Integral bases and signatures of radical function fields*
1:50 Peter Montgomery *Improved p±1 stage 2*
2:10 David Bailey *Experimental math, number theory and mathematical physics*
2:30 Matthew Musson *The elliptic curve discrete logarithm problem and the GHS attack*

2:50 BREAK

Miscellaneous Session – John Burke

3:20 Bill Rowan *Sketch of an abelian category for abelian topological groups*
3:40 David Moulton *Averaging points two at a time*
4:10 Alain Togbe *On the positive integral solutions of the Diophantine equation*
$$X^3 + by + 1 - xyz = 0$$
4:30 Andrew Shallue *Fixed weight subset sum problem*

4:50 Business Meeting and 2ND Problem Session

6:00 DINNER

West Coast Number Theory Conference
December 16—20, 2007

THURSDAY

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