

Monday, December 17

(A) 9 - 12 Analytic Number Theory (CHAPEL)

- ✓✓ 9:00 • Gerry Myerson - Distribution of Sequences. (*Maldistribution*)
- ✓✓ 9:15 • Adolf Hildebrand - Consecutive k th power residues. (*2 consec. powers or 3 consec odd power*)
- ✓✓ 9:30 Gennady Bachman - On the coefficients of cyclotomic polynomials.
- ✓✓ 9:45 Trevor Wooley - Vinogradov's Mean Value Theorem
- ✓✓ 10:00 • Brian Conrey - Mean Values of the zeta-function (*joint paper with*
10:15 - 10:45 Break
- ✓✓ 10:45 • Mark Sheingorn - The \mathbb{T}_p surface. (*Antipellian equation*)
- ✓✓ 11:00 • Sister Ann Heath - Modular Integrals and Functional Equations for associated Dirichlet Series. (*connected with Marvin Knopp*)
- ✓✓ 11:15 • Marvin Knopp - Hecke theory and residual functions.
- ✓✓ 11:30 David Gove - Observations on the quadratic Theta Multiplier.
- ✓✓ 11:45 • Richard McIntosh - Dilogarithm Identities.

12 - 1 Lunch

(B) 1 - 3 Elementary Number Theory (NAUTILUS)

- ✓✓ 1:00 Richard Bumby - Computing representations of primes as sums of four squares.
- ✓✓ 1:20 Mostafa Ghandehari - Rational circular polygons.
- ✓✓ 1:40 Bart Goddard - Triangles with integer medians.
- ✓✓ 2:00 • Xing-De Jia - On a problem of Rohrbach for finite groups.
- ✓✓ 2:15 Neville Robbins - A simplified proof of Lagrange's theorem concerning the periodicity of the continued fraction for \sqrt{N} .
- ✓✓ 2:30 Ed Thurber - Addition Chains - an Erratic Sequence.
- ✓✓ 2:45 Hugh Williams - A generalization of the S_n sequence of Shanks.
- 3:00 - 3:30 Break
- ✓✓ 3:30 - 5:00 Problem Session (*Chairman: John Selfridge*)

Tuesday, December 18

Ⓒ Miscellaneous Number Theory

(NAUTILUS)

✓✓ 9:00 Douglas Bowman - Generalizations of Ramanujan's q-continued fractions

✓✓ 9:15 Jane Friedman - Walks through a rectangle.

✓✓ 9:30 Basil Gordon - Generalizations of Schur's partition theorem. ↵

✓✓ 9:45 Jim Hafner - Two Mathematical Tidbits.

(joint paper with Alladi)

✓✓ 10:05 Steven Poulos - Some elementary properties of finite upper half planes.

10:15 - 10:45 Break

✓✓ 10:45 Vera Pless - Cyclotomy and Cyclic Codes.

✓✓ 11:00 Anne Schwartz - Modular Forms on p-adic upper half planes.

✓✓ 11:15 Audrey Terras - Special Functions on Finite Upper Half Planes.

✓✓ 11:30 L. Ya. Vulakh - Classification of binary indefinite Hermitian Matrices over orders of Clifford algebras.

✓✓ 11:45 Bill Webb - Distribution of binomial coefficients Mod p^2 .

12 - 1 Lunch

Afternoon free for excursions.

Wednesday, December 19

Ⓓ 9:00 - 2:00 Algebraic Number Theory

(NAUTILUS)

✓✓ 9:00 Emma Lehmer - On the prime 211.

✓✓ 9:15 D. H. Lehmer - The Lehmers' ^{Program} Project for units in cyclotomic fields.

✓✓ 9:30 John Brillhart - A method of proof for balanced T^2 equations.

✓ 9:45 Sinai Robins - Generalized Dedekind eta-functions.

✓✓ 10:00 Thomas Schmidt - 2-class groups of certain octic fields.

10:15 - 10:45 Break

- ✓✓ 10:45 Daniel C. Mayer - Multiplicities and classification of dihedral discriminants.
- ✓✓ 11:00 Gene Smith - Some non-solvable generic polynomials.
- ✓✓ 11:15 S. Gunaratne - Bernoulli numbers and Iwasawa λ -invariants.
- ✓✓ 11:30 G. Fong and H. C. Williams - Short representation for long fundamental units in complex cubic fields. (à la Markov)
- ✓✓ 11:45 Helen G. Grundman - An application of Stanley's work on counting integer points.

12 - 1 Lunch

- ✓✓ 1:00 R. A. Mollin - On real quadratic fields and continued fractions.

- ✓✓ 1:20 H. Stark - Dirichlet's class-number formula. (joint work with H.C. Williams and G. Fong from "Winterpeg, Brrr!")
 "Huge" →
 "Gilly" →

(E) Diophantine problems (NAUTILUS)

- ✓✓ 1:40 Jeffrey C. Lagarias - Asymmetric Tent Map Expansions.
- ✓✓ 2:00 Andy Pollington - A continued fraction arising from a problem in topology.

(F) Computing (NAUTILUS)

- ✓✓ 2:20 Bob Silverman - A practical Analysis of ECM.
- ✓✓ 2:40 David Bailey - Numerical results on relations between mathematical constants.

3:00 - 3:30 Break

3:30 - 5 Late Talks:

- ✓✓ John Selfridge ✓ 18-22. 12. 1991 next Asilomar conference
- ✓✓ Kevin McCurley ✓ D.C. Mayer

Thursday, December 20 (NAUTILUS)

9 - 10:15 Late Talks ↑ 9:30

10:15 - 10:45 Break

- ✓✓ 10:45 - 12 Problem Session (Chairman: John Selfridge)

12 - 1 Lunch.