

## FACULTY VISITORS

### 1. Year-long visitors in 2002-2003

(a) Lisa Doolittle Humphreys, Rhode Island College (UConn PhD (1994), adviser McKenna), spent the academic year as a guest of the Department while on sabbatic leave. At the annual recertification workshop for teachers in the UConn High School Cooperative Program in August 2003, Lisa will do a presentation on fractals and their connections to calculus and the modeling of natural phenomena.

(b) Ravindra B. Bapat, Indian Statistical Institute (New Delhi), author of *Linear Algebra and Linear Models* in the Springer-Verlag Universitext series. We took advantage of Ravi's expertise by having him teach the upper division Linear Algebra (MATH 215) course in the fall. He and Miki Neumann worked together on nonnegative matrices and combinatorial matrix theory.

### 2. Short-term visitors

(a) Prof. Liqun Zhang from the Institute of Mathematics, Academia Sinica, spent the Spring 2003 semester with us teaching and doing research with Changfeng Gui on symmetry of constrained minimizers.

(b) Miki Neumann had two short-term visitors: Miroslav Fiedler, Mathematical Institute, Academy of Sciences of the Czech Republic (Prague), visited in the fall. On October 10, Mirak gave a colloquium, "Some Classes of Matrices Defined by Inequalities." Stephen Kirkland of the University of Regina (Saskatchewan, Canada) was here January 21-31 to do joint work on Markov chains and combinatorial matrix theory.

(c) Charly Gröchenig worked with these visitors: Michael Leinert, University of Heidelberg, for two weeks in September to work on symmetry of Banach algebras of infinite matrices. His talk at the Analysis/Probability seminar on September 20 was "On a Theorem of N. Wiener." Elena Cordero, University of Torino, Italy, for four weeks in October to work on frames and time-frequency analysis. Vladimir Mazya and Tatyana Shapostnikova, Boston University, for a two-day discussion about Schroedinger operators and about Sobolev spaces.

(d) Lev Sakhnovich, a visiting scholar at the Courant Institute, visited Vadim Olshevsky in March and gave a colloquium lecture on "Extremal Trigonometrical and Power Polynomials". He returned to spend May 19 through June 13 for joint work on the topic "operator and matrix Bezoutians."

(e) Anders Oberg, Uppsala University, visited Alexander Teplyaev for a week in May. On May 9 he spoke at the Analysis/Probability Seminar on "Square summability of variations of g-functions and uniqueness of g-measures". His joint research with Sasha deals with analysis on fractals.

(f) Professor Yuri Lyubarskii of the Norwegian Technical University in Trondheim was again a visitor to the department this April. He gave a colloquium lecture on the topic of subharmonic functions, participated in the analysis/probability seminar, and joined in the weekly discussions of the working group on the mathematical aspects of signal analysis. In collaboration with W. R.

Madych, Yura also completed a research article entitled ``Interpolation in generalized Paley-Wiener spaces."

(g) Domina Eberle Spencer had two visitors: Dr. Howard Cohl of Exeter University in England visited twice in the winter to discuss the basic formulation of electromagnetic theory in curvilinear coordinates, especially toroidal coordinates.

Dr. Jaraslov Kluyslin of St. Petersburg University in Russia came to speak at the NPA conference in June, and visited until July 5 to discuss the revision of Maxwell's equations and Newton's gravitational equation.