

M 8:50 (90 min)

\submittedby{James W. Demmel}
\title{Parallel Supernodal Methods for Sparse Gaussian Elimination}

\submittedby{Esmond G."Ng}
\title{Orderings for Sparse LU and QR Factorizations}

M 10:50 (70 min)

\submittedby{Michael L. Overton}
\title{Primal-Dual Interior-Point Methods for Linear and Semidefinite Programming}

\submittedby{Michael A. Saunders}
\title{Solution of Sparse Linear Equations using Cholesky Factors of Augmented Systems}

M 14:30 (90 min)

\submittedby{Bo K\{"aa\}gstr\{"ö\}m}
\title{A Geometric Approach to Perturbation Theory of Matrices and Matrix Pencils: Versal Deformations and Stratifications}

\submittedby{Roy Mathias}
\title{Exploiting Gradedness in (possibly Non-Symmetric) Eigenvalue Problems}

M 16:30 (35 min)

\submittedby{Alan J. Laub}
\title{Statistical Condition Estimation in Numerical Linear Algebra}

T 8:40 (90 min)

\submittedby{Gerard L.G. Sleijpen}
\title{Jacobi-Davidson methods for computing a few selected eigenpairs}

\submittedby{David S.\ Watkins}
\title{Passing Bulges: How and Why}

\submittedby{Axel Ruhe}
\title{Rational Krylov for nonlinear eigenvalues}

T 10:40 (80 min)

\submittedby{Haesun Park}
\title{Fast Algorithms for Least Squares Problems with Toeplitz Structure}

\submittedby{Ming Gu}
\title{New Fast Algorithms for Structured Linear Least Squares Problems}

T 16:00 (70 min) (ACTUALLY 75 MINUTES)

\submittedby{Martin Hanke}
\title{Error bounds for the Lanczos method applied to elliptic operators}

\submittedby{Gerhard Starke}
\title{Multilevel Minimal Residual Methods}
W  8:40 (70 min)  (ACTUALLY 60 MINUTES)
x30
\submittedby{Alison Ramage }
\title{Minimum Residual Methods for Augmented Systems }
x30
\submittedby{Andy Wathen }
\title{Indefinite Preconditioning for Non-symmetric and Indefinite systems}

W 10:40 (35 min) (ACTUALLY 40 MINUTES)
x40
\submittedby{Ren-Cang Li }
\title{ Relative Perturbation Theory for Eigenvalue Problems }

H  8:40 (90 min)
x45
\submittedby{Howard Elman}
\title{Iterative Methods and Analysis of Linear Systems Arising in Fluid Dynamics }
x45
\submittedby{ Petter E. Bjørstad }
\title{ An $O(N^3)$ Algorithm for Solving a Fourth order Equation with the Chebyshev-Galerkin method}

H 10:40 (80 min)
x40
\submittedby{Marlis Hochbruck}
\title{ Error Analysis of Krylov Approximations to Matrix Operators with Applications to OD Es }
x40
\submitted by{Householder Prize Talk}
\title{To Be Announced}

H 16:00 (70 min)
x35
\submittedby{Sabine Van Huffel}
\title{Fast and accurate exponential data fitting with use of prior knowledge}
x35
\submittedby{Steven T. Smith}
\title{Geometric Optimization Methods with Applications}

F  8:40 (90 min)
x45
\submittedby{Ilse Ipsen}
\title{Condition Numbers Based on the Departure of a Matrix from Normality}
x45
\submittedby{ Chris Paige }
\title{ Sensitivity of the Cholesky Factor }

F 10:40 (80 min)
x20
\submittedby{Urs von Matt}
\title{On Laguerre’s Iteration}
x30
\submittedby{ Jesse L. Barlow }
A More Accurate Bidiagonal Reduction for Computing the Singular Value Decomposition

submitted by Ralph Byers

On the Distance to the Nearest Singular Pencil

submitted by Lars Eldén

The Unbalanced Orthogonal Procrustes Problem

submitted by Pep Mulet

Iterative methods for Total Variation image restoration

submitted by Alan Edelman

A Very Fast Fourier Transform