

INTERNATIONAL MULTIGRID CONFERENCE

COPPER MOUNTAIN, COLORADO

April 5 - 8, 1983

Wednesday, April 6, 1983

- 7:45 a.m. Announcements
- 8:00 a.m. P. Wesseling, "Multigrid methods for the convection-diffusion equation"
- Session I
- J. Dendy, "Black box multigrid for nonsymmetric problems"
- A. Behie, "Multigrid solution of three-dimensional problems with discontinuous coefficients"
- Seymour Parter, Chairman
- D. Barkai, "Vectorized multigrid Poisson solver for the CDC Cyber 205"
- 10:00 a.m. Break
- 10:15 a.m. R. Sweet, "Multigrid, preconditioned conjugate gradients, and SOR for solving a diffusion equation on the Cyber 205"
- T. Phillips, "Numerical solution of a coupled pair of elliptic equations from solid state electronics"
- H. N. Lee, "Numerical simulation of atmospheric chemical pollutant transport and diffusion by using multi-grid and -step technique"
- 5:00 p.m.
- Session II
- A. Brandt, "Multi-level solution of inverse problems"
- K. Stüben, "AMG: experiences and comparisons"
- Tom Manteuffel, Chairman
- J. Ruge, "AMG for geodetic computations"
- 7:30 p.m. Dinner, Union Creek

Thursday, April 7, 1983

- 8:00 a.m. U. Trottenberg, "Standard applications and more sophisticated (incompressible flow) problems"
- Session III
- D. Caughey, "Multigrid calculations of 3-dimensional transonic potential flows"
- Karl Gustavson, Chairman
- G. Johnson, "Multiple-grid convergence acceleration of viscous and inviscid flow computations"
- D. R. McCarthy, "Imbedded mesh multigrid treatment of two-dimensional transonic flows"
- 10:00 a.m. Break
- 10:15 a.m. C. Streett, "Spectral multigrid methods with application to transonic potential flow"
- A. Jamieson, "A multigrid Euler solver"
- D. Jespersen, "Design and implementation of a multigrid code for the Euler equations"
- R. Verfurth, "Two algorithms for mixed problems"

