INTERNATIONAL MULTIGRID CONFERENCE

COPPER MOUNTAIN, COLORADO April 5 - 8, 1983

Wednesday, April	<u>6, 1983</u>
7:45 a.m. 8:00 a.m. Session I Seymour Parter, Chairman	Announcements P. Wesseling, "Multigrid methods for the convection-diffusion equation" J. Dendy, "Black box multigrid for nonsymmetric problems" A. Behie, "Multigrid solution of three-dimensional problems with discontinuous coefficients" 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 Tom Manteuffel, Chairman	Akabazzation & Azabazzation of MGA. Brandt, "Multi-level solution of inverse problems" K. Stuben, "AMG: experiences and comparisons" J. Ruge, "AMG for geodetic computations"
7:30 p.m.	Dinner, Union Creek
Thursday, April 7,	1983
8:00 a.m. Session III Karl Gustavson,	U. Trottenberg, "Standard applications and more sophisticated (incompressible flow) problems" D. Caughey, "Multigrid calculations of 3-dimensional transonic potential flows"
Chairman	G. Johnson, "Multiple-grid convergence acceleration of viscous and inviscid flow computations"

10:00 a.m. Break

10:15 a.m. C.Streett, "Spectral multigrid methods with application to transonic potential flow"

dimensional transonic flows"

A. Jamieson, "A multigrid Euler solver"
D. Jespersen, "Design and implementation of a multigrid code" for the Euler equations"

D. R. McCarthy, 'Imbedded mesh multigrid treatment of two-

R. Verfurth, "Two algorithms for mixed problems"

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Thursday, April 7 (continued)

5:00 p.m.

W. Hackbusch, "MG convergence of singular perturbation problems"

Session IV

A. Greenbaum, "Analysis of a multigrid method as an iterative

Tom Manteuffel,

technique for solving linear systems"

Chairman

H. D. Mittelman, "Multigrid solution of bifurcation problems"

7:30 p.m.

Banquet, Union Creek

Friday, April 8, 1983

8:00 a.m.

R. Bank, "On the role of the smoothing iteration in the multilevel iteration method"

Session I

Chairman

D. Bai, "Multi-level adaptive algorithms"

Horst Holstein,

J. Van Rosendale, "Algorithms and data structures for adaptive elliptic solvers"

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F. Thames, "Multigrid applications to three dimensional ellliptic coordinate generation"

10:00 a.m.

Break

10:15 a.m.

- S. Schaffer, "Multigrid methods for oil reservoir simulation"
- R. Agarwal, "Multigrid solutions using higher-order methods on non-uniform grids"
- B. Favini, "MG techniques for staggered differences"
- K. Jordan, "A review of some dynamic grid techniques for partial differential equations"