

Wednesday, September 8, 2004

08:45 – 09:00 : *Jäckel, M.* (Vice President, University of Trier):
Opening

Morning Session 1. Chair: V. Schulz

09:00 – 09:45 : *Dutt, P.*: Spectral Element Methods for Parabolic
(IP) Problems on Parallel Computers

09:45 – 10:30 : *Bock, G.*: Constrained Open-loop, Closed-loop Con-
(IP) trol and Real-time Optimization of Systems Gov-
erned by Large DE Models

10:30 – 11:00 : – **Coffee Break** –

Morning Session 2. Chair: N. Kroll

11:00 – 11:25 : *Voigt, A.*: BaF₂ for Microlithography Applica-
tions: Modeling, Simulation and Optimization of the
Growth Process

11:25 – 11:50 : *Dandapat, B. S.*: Free Surface Flow of a Liquid Film
Over a Curved Rotating Disk

11:50 – 12:15 : *Kashid, M.*: Computational Modelling of Slug Flow
in a Capillary Millireactor

12:15 – 13:45 : – **Lunch (Mensa)** –

Afternoon Session 1. Chair: P. Dutt

13:45 – 14:30 : *Kirkilionis, M.*: The Mathematics of Cellular Be-
(IP) havior

14:30 – 14:55 : *Dalal, D. C.*: Numerical Study of Unsteady Flow
Through Arterial Stenosis

14:55 – 15:20 : *Murthy A. S. V.*: Asymptotic and Numerical Anal-
ysis of a Simple Model for the Ramdas Layer

15:20 – 15:45 :

– **Coffee Break** –

Afternoon Session 2. Chair: M. Kirkilionis

15:45 – 16:10 : *Zahri, M.*: Wick-Stochastic Finite Element Solution
of Reaction-Diffusion Problems

16:10 – 16:35 : *Maruhn, J.*: Cost-Optimal Static Super-Replication:
Concept and Applications

Optional Social Program:

17:00 – 21:30 : *Landesgartenschau 2004* (State Garden Show)
<http://www.landesgartenschau-trier.de>
Entry fee: 5 € after 17:00
Walk through the recreational area and/or listen to
a Jazz concert of the Blue Drive band (18.30–20.00)

Thursday, September 9, 2004

Morning Session 1. Chair: A. Adimurthi

09:00 – 09:45 : *Kroll, N.*: Flow Simulation and Shape Optimization
(IP) for Aircraft Design

09:45 – 10:15 : *Gauger, N.*: Efficient Aerodynamic Shape Optimization
in MDO Context

10:15 – 11:00 : – **Coffee Break** –

Morning Session 2. Chair: G. D. V. Gowda

11:00 – 11:25 : *Sawyer, W.*: A Scalable Implementation of the
Finite-Volume Dynamical Core in the Community
Atmospheric Model

11:25 – 11:50 : *Singh, A. K.*: An ODE Traffic Network Model

11:50 – 12:15 : *Adimurthi, A.*: Hamilton Jacobi Equations with Dis-
continuous Hamiltonian

12:15 – 13:30 : – **Lunch (Mensa)** –

13:30 – 13:45 : *Sarkar, D.* (Counselor for Science and Technology,
Embassy of India, Berlin): Information about Indo-
German cooperations, joint projects, possibilities

Afternoon Session 1. Chair: R. Tichatschke

13:45 – 14:30 : *Gowda, V.*: Conservation Laws with a Flux Function
(IP) Discontinuous in Space

14:30 – 15:15 : *Steinbach, M.*: On PDE Solution in Gas Networks
(IP)

15:15 – 15:45 : – **Coffee Break** –

Afternoon Session 2. Chair: M. Steinbach

- 15:45 – 16:10 : *Hazra, S.*: An Efficient Method for Aerodynamic Shape Optimization
- 16:10 – 16:35 : *Seaid, M.*: Multigrid Newton-Krylov Method for Radiation-Conduction in Semitransparent Media
- 16:35 – 17:00 : *Ainouz, A.*: Derivation of A Double-diffusion Model in Poro-elastic Media Problems
- 17:00 – 17:25 : *Voetmann, T.*: Weak Regularization for Signorini Problems with Friction

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- 18:30 – 20:00 : City Tour: Meeting point at the tourist information in front of Porta Nigra
- 20:00 – 22:00 : Conference Dinner: *Inflagranti*, Viehmarktplatz 13
Located at the Viehmarktplatz, meeting point in front of restaurant Inflagranti

Friday, September 10, 2004

Morning Session 1. Chair: H. G. Bock

- 09:00 – 09:45 : *Ghattas, O.*: Eulerian Methods for Shape Optimization (IP)
09:45 – 10:30 : *Hoppe, R.*: Interior-Point Methods in Shape Optimization (IP)
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10:30 – 11:00 : – **Coffee Break** –

Morning Session 2. Chair: E. W. Sachs

- 11:00 – 11:25 : *Stadler, G.*: Semi-smooth Newton Methods for Contact Problems with Friction in Linear Elasticity
11:25 – 11:50 : *Roy, A. R.*: A Fuzzy Soft Set Theoretic Approach to Decision Making Problems
11:50 – 12:15 : *Kuhnert, J.*: Finite Pointset Method (FPM) for Two-phase and Low Mach Number Flows
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12:15 – 13:45 : – **Lunch (Mensa)** –

Afternoon Session 1. Chair: O. Ghattas

- 13:45 – 14:30 : *Brokate, M.*: To Be Announced (IP)
14:30 – 14:55 : *Wan, D.*: Efficient Multigrid-FEM Method for Simulation of Liquid-Solid Flows with Large Number of Moving Particles
14:55 – 15:20 : *Deka, B.*: Convergence of Finite Element Method for Second Order Elliptic Interface
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15:20 – 15:45 : – **Coffee Break** –

Afternoon Session 2. Chair: R. Hoppe

- 15:45 – 16:10 : *Parsaei, M.*: Interaction of the Numerical Solution of Hyperbolic Equations with an Obstacle in the Flow Direction
- 16:10 – 16:35 : *Arora, R.*: Similarity Analysis and Evolution of Weak Discontinuities in a Van der Waals Gas
- 16:35 – 17:00 : *Danumjaya, P.*: Mixed Discontinuous Galerkin Finite Element Methods for the Extended Fisher-Kolmogorov (EFK) Equation
- 17:00 – 17:25 : *Steiner, K.*: Computation of Dilute Two-phase Flow in a Pump