

Conference Schedule – Only Changes Since June 2, 2005

**Third M.I.T. Conference on
Computational Fluid and Solid Mechanics**

June 14-17, 2005

**The mission of the Conference:
*To bring together Industry and Academia and
To nurture the next generation in computational mechanics***

Change made on June 2, 2005

1) The following presentation

Convection onset and reverse transition to stability in a supercritical fluid, 2D and 3D direct numerical simulations

G. Accary, I. Raspo, P. Bontoux and B. Zappoli

is added to Session 48 - Vortex dominated flows - Computational, analytical and experimental studies of viscous or inviscid vortical flows and applications, Part IIb (Room: 1-371) and is presented at 6:00pm on Wednesday.

2) The following presentation

A streamline upwind Petrov-Galerkin finite element simulation of thermo-hydrodynamic lubrication in tilted pad slider bearing considering fluid inertia and heat conduction to the pad: Reference to load generation in a parallel slider

P. Sinha, B.V.R. Kumar and P.S. Rao

is added to Session 222 - Computational fluid dynamics I, Part IVb (Room: 32-123) and is presented at 5:00pm on Wednesday.

Change made on June 6, 2005

1) The following presentation is deleted from Session 9 - Numerical methods for fluid-structure interaction systems, Part Ib, Wednesday 4:30pm.

A 3-dimensional fluid-solid interaction model of the left ventricle

D. Deserranno, M. Kassemi and J. Thomas

2) The following presentation

Equations of high frequency vibrations of micropolar F-G thin structural elements

M.C. Dökmeçi and G. Altay

is added to Session 215 - Formulations in elasticity, Part IIa (Room: 2-139) and is presented at 3:30pm on Thursday.

3) The following presentation

High-order Galerkin atmospheric model

H. Tufo

is presented in Session 15 - Discontinuous Galerkin methods for PDEs, Part V (Room: 1-375) at 12:00noon in the place of the presentation:

A hybrid Galerkin atmospheric model

S.J. Thomas, A. St.-Cyr and R.D. Nair

Change made on June 7, 2005

1) The following presentation is deleted from Session 20 - Nonlinear dynamics and computational fluid-structure interactions, Part IVb, Wednesday 4:30pm.

Immersed Finite Element Method and its applications

L. Zhang

Change made on June 9, 2005

1) The following presentation

Shape optimization of an IC-engine maniverter design under structural, fluid dynamic and cost aspects

M. Usan and H. Wenzel

will be presented by J. I. Cofer, IV, in Session 22: Optimization - Research and applications, Part IIb (Room: 1-379), Tuesday 4:30pm.

2) The following presentation is deleted from Session 9 - Numerical methods for fluid-structure interaction systems, Part II, Thursday 11:00am.

An algorithm for distributed immersed boundary computations

E. Givelberg

3) The following presentation is deleted from Session 200 - Computational fluid dynamics II, Part VIa, Thursday 2:00pm.

The mathematical analysis of mixing of fluids

F.M. Allan

4) The following presentation is deleted from Session 28 - Advanced analysis – Multiphysics, Part IV, Wednesday 2:00pm.

A new approach for analysis of hydro thermomechanical problems

H. Gholibeigian and A. AmirShakarami

5) The following presentation is deleted from Session 222 - Computational fluid dynamics I, Part I, Tuesday 11:00am.

Nonsimilar solution of unsteady mixed convection flow on a moving slender cylinder

D. Anilkumar and S. Roy

6) The following presentation is deleted from Session 4 - Advances and applications of computational methods in aerospace, Part IIb, Tuesday, 4:30pm.

Real time prediction of ship motion using artificial neural networks

A.A. Khan, C. Bil and K.E. Marion

Change made on June 10, 2005

1) The following presentation is deleted from Session 15 - Discontinuous Galerkin methods for PDEs, Part IVa, Wednesday 2:00pm.

An hp-adaptative space-time discontinuous Galerkin method for free boundary problems

J.J. Sudirham, J.J.W. van der Vegt and R.M.J van Damme

2) The following presentation

Closed-loop separation control: An analytic approach

G. Haller

is presented in Session 200 - Computational fluid dynamics II, Part VIa (Room: 32-124) at 2:30pm on Thursday in the place of the presentation:

Quantifying eddy diffusivities in geophysical flows

E. Shuckburgh

3) The following presentation is deleted from Session 54 - Computational multiscale modeling, Part IIa, Tuesday 2:00pm.

A tightly coupled particle-fluid model for DNA-laden flows in complex microscale geometries

D. Trebotich, G.H. Miller, P. Colella, D.T. Graves, D.F. Martin and P.O. Schwartz

Change made on June 13, 2005

1) The following presentation

Numerical modeling of concrete exposed to fire

J. Surovec and P. Kabele

is added to Session 211 – Methods and modeling for analysis of concrete and related structures, Part IIa (Room: 2-151), and is presented at 3:30pm on Thursday.

2) The following presentation

Yield load solution for the SE(B) fracture toughness specimen with heterogeneous weld joint

P. Konjatic, D. Kozak, N. Gubeljak, J. Predan and F. Matejcek

is added to Session 209 - Fracture analysis and crack propagation, Part IIa (Room: 1-371), and is presented at 3:30pm on Thursday.

Change made on June 14, 2005

1) The following presentation

Finite element mesh orientation on solution accuracy in torsion

N. Troyani, A. Pérez and P. Baíz

is added to Session 212 - Meshing and mesh adaptation, Part I (Room: 2-146), and is presented at 12:00noon on Wednesday.

Change made on June 15, 2005

1) The Session 200 - Computational fluid dynamics II, Part VIa (Room: 32-124) on Thursday, 2:00pm will now have the following presentations (this supercedes the change no. 2 made on June 10, 2005):

Closed-loop separation control: An analytic approach

G. Haller
(Keynote)

Experimental Validation of the Kinematic Theory of Unsteady Separation

T. Peacock

Coherent structures and low-order models of transitional and turbulent channel flow

C.W. Rowley and M. Green

The mathematical analysis of mixing of fluids

F.M. Allan

2) The following presentation is deleted from Session 49 - Localized drug delivery, Part I, Friday 11:00am.

Analysis of cell-growth and angiogenesis in 3-dimensional scaffolds

J. Lowengrub