

The Thirtieth MUFMECH 2003 Schedule

7:45 BREAKFAST

Session I (Friday Morning, April 4, 2003)

Chairperson: T. Corke, KOTGOF: J. Foss

Talk	Time	Speaker	School	Title
	8:25	T. Corke	ND	Opening Remarks
1	8:30	A. Obabko	IIT	Modeling of Natural Convection in Liquid Hydrogen Absorbers
2	8:50	F. Liu and W. Liou	W. Mich	RANS Calculations of Flow Over a Hydrofoil
3	9:10	X. Bian, M. Perlin, Schultz	UM W.	Slug motion in oscillated tubes
4	9:30	G. Brereton	MSU	Non-Isothermal Fluid Mechanics with Convectively Inspired Motions
5	9:50	G. Baker	OSU	Vortex blob methods for free surface flows

10:10 - 10:30 COFFEE

Session II (Friday Morning, April 4, 2003)

Chairperson: K. Cassel, KOTGOF: S. Wereley

Talk	Time	Speaker	School	Title
6	10:30	Junhui Huang	ND	Separation Control over LPT Blades Using Plasma Actuators
7	10:50	F. Shu, M. Plesniak, P. Sojka	PU	Passive Control of Jets with Nozzles of Indeterminate Origin
8	11:10	H. Othman, T. Corke	ND	Experimental Study of Absolute Instability over a Rotating Disk
9	11:30	Z. Zheng, K. Evers, J. McFerran, T. Conlisk	OSU	Electroosmotic Flow in Nanochannels
10	11:50	Y. Sun, ZJ Wang	MSU	Evaluation of Discontinuous Galerkin and Spectral Volume Methods for Conservation Laws on Unstructured Grids

12:10 - 1:30 LUNCH Steering Committee Meeting

Session III (Friday Afternoon, April 4, 2003)

Chairperson: W. Liou, KOTGOF: S. Stewart

Talk	Time	Speaker	School	Title
11	1:30	J. Kirchner	UM	Dispersion in spatially-periodic chromatography media
12	1:50	Y. Fang and W. Liou	WM	DSMC Simulations of Forced Chaotic Flows
13	2:10	B. Kim	IIT	Modeling Pulsed Blowing Actuator Systems - Slot Effects
14	2:30	I. Whitacre, S. Wereley	PU	Particle Motion through Dielectrophoresis
15	2:50	D. Rempfer, P. Mokasi	IIT	Optimal Solution of the Direct and Inverse Problems of Contaminant Dispersion

3:10 - 5:30 R and R

5:30 - 6:30 DINNER

Session IV (Friday Evening, April 4, 2003)

Chairperson : Bob Kolkka, KOTGOF: S. Morris

Talk	Time	Speaker	School	Title
16	6:30	Y. Zhang, J. L. Zakin	OSU	A New Approach to Reducing Pumping Energy Requirements in District Cooling Systems
17	6:50	M. Daoud, A. Naguib	MSU	Development of a Laser Doppler Microphone
18	7:10	J. Anderson	UM	Liquid Plug Transport at an Airway Bifurcation
19	7:30	J. Montefort , P. Merati	WM	Finite Difference Method to Determine the Taylor-Couette Flow Instabilities
20	7:50	S. Stewart	UIUC	On miniaturization of explosive systems

8:15 EVENING SOCIAL GATHERING AT BUTLER LODGE

******Sleep******

7:45 **BREAKFAST**

Session V (Saturday Morning, April 5, 2003)

Chairperson: P. Merati, KOTGOF: W. Schultz

Talk	Time	Speaker	School	Title
21	8:30	Y. Zhao, S. Wereley	PU	Compressible Flow in Micro Channels
22	8:50	Kasimov, S. Stewart	UIUC	On the theory of detonation with embedded sonic loci and considerations of numerics in

shock-attached coordinates.

23	9:10	D. Wirasaet, S. Paolucci	ND	Numerical Solution of the Incompressible Navier-Stokes Equation Using an Adaptive Wavelet Collocation Method
24	9:30	K. Koeltzsch	OSU	Hypothesis about the drag reduction mechanism by micro-bubbles
25	9:50	L. Hudy	MSU	Determining skin friction coefficient on a Ground Research Vehicle

10:10 - 10:30 COFFEE

Session VI (Saturday Morning, April 5, 2003)

Chairperson: A. Naguib, KOTGOF: T. Conlisk

Talk	Time	Speaker	School	Title
26	10:10	G. Brooks, J. Powers	ND	A Karhunen-Loeve least-squares technique for optimization of geometry of a blunt body in supersonic flow
27	10:30	A. Brundage, M. Plesniak, P. Lawless	PU	Predictions of Airfoil Trailing Edge Cooling in Gas Turbine Applications
28	10:50	J. Siegenthaler	ND	Aero-Optics in Compressible Shear Layers
29	11:10	J. Foss	MSU	Vorticity above the Desert Floor of Lake Bonneville - Utah
30	11:30	P. Panickar		Jet coupling in Twin Nozzles having Single-Beveled Exit Geometry

12:10 - 12:15 CLOSING

12:15 - LUNCH: NEW THIS YEAR!!! Cookout at the Butler Lodge