



The 33rd MUFMECH

April 6-8, 2006
Geneva Center, Rochester, Indiana

Schedule

7:30 **BREAKFAST**

Session I (Friday Morning, April 7, 2006)

Chairperson: T. Corke. KOTGOF: T. Conlisk

Talk	Time	Speaker	School	Title
	8:10	W. Liou	WMU	Opening Remarks, "The Frog Meeting Rules"
1	8:15	B. Monnier S. Pimputkar C. Wark	IIT	Wind Tunnel Simulations of Flow over an Urban Area using Stereoscopic PIV
2	8:35	K. Pathak N. Mullenix A. Povitsky	UA	Combined thermal and plume dynamics model for laser ablation
3	8:55	T. Corke D. Orlov	ND	Plasma-enhanced Aerodynamics: Concepts and Applications
4	9:15	S. Stewart	UIUC	On the initiation mechanism in exploding bridgewire and laser detonators
5	9:35	P. Merati N. Cooper	WMU	Flow structures of scalloped, forced lobed mixers

9:55 - 10:15 **COFFEE**

Session II (Friday Morning, April 7, 2006)

Chairperson: C. Wark. KOTGOF: S. Morris

Talk	Time	Speaker	School	Title
6	10:15	D. Shannon S. Morris	ND	Quantitative conclusions from a quieter collector configuration
7	10:35	S. Zhao A. Povitsky	UA	Modeling of micro-fluid motion using boundary elements
8	10:55	C. Lum M. Koochesfahani	MSU	Simultaneous Velocity and Temperature Measurements in Micro Flows
9	11:15	C. Aphale	UM	Aeration in lubrication flows
10	11:35	O. Chuang S. Wereley	PU	Using Single Pixel Evaluation for sub-micron in-plane spatial resolution in PIV
11	11:55	A. Jammalamadaka K. Chuahan H. Nagib	IIT	Computation and modeling of pressure gradient boundary layers

12:15 - 1:30 **LUNCH** Steering Committee Meeting

Session III (Friday Afternoon, April 7, 2006)

Chairperson: G. Raman. KOTGOF: S. Stewart

Talk	Time	Speaker	School	Title
12	1:30	S. Datta S. Ghosal	NWU	Electroosmotic Flow and Dispersion in Rectangular Channels under variable Wall Zeta-potential
13	1:50	B. Erath M. Plesniak	PU	Velocity field measurements in static divergent vocal fold models
14	2:10	T. Liu	WMU	Flows Projected onto Images
15	2:30	B. Demanett J. Kiedaisch P. Reinhard H. Nagib	IIT	AFC with ZMF using various waveforms
16	2:50	L. Hudy A. Naguib	MSU	On the wake mode in separating/reattaching flows

3:10 - 5:30 **R and R**
PING-PONG OPEN

5:30 - 6:30 **DINNER**

Session IV (Friday Evening, April 7, 2006)

Chairperson: D. Williams. KOTGOF: W. Schultz

Talk	Time	Speaker	School	Title
17	6:30	W. Ge Y. Zhang D. Snelling L. Evrard P. Green J. L. Zakin D. J. Hart	TOSU	Surfactant Turbulent Drag Reduction in an Enclosed Rotating Disk Apparatus
18	6:50	D. Qi	WMU	Development of Flexible Cylindrical Fibers in Flows with Inertia
19	7:10	M. Metha	UM	Plume-Ground-Soil Interaction Due to Supersonic Pulsating Plumes At Low Ambient Pressure
20	7:30	A. Hellum J. Foss	MSU	Vorticity Measurements in SSSSL Facility
21	7:50	A. Obabko F. Cattaneo P. Fischer	UC	Magneto-rotational Instability and angular momentum

8:15 **EVENING SOCIAL GATHERING AT BUTLER LODGE**

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7:45 **BREAKFAST**

Session V (Saturday Morning, April 8, 2006)

Chairperson: A. Povitsky. KOTGOF: J. Foss

Talk	Time	Speaker	School	Title
22	8:30	S. Pouya M. Koochesfahani	MSU	Flow Imaging with Quantum Dots
23	8:50	D. Pulla T. Conlisk	TOSU	Comparison of the Rotor Wake Structure in Ground Effect with Experiment
24	9:10	D. VanNess T. Corke	ND	Turbine tip clearance flow control using plasma actuators
25	9:30	S. Peterson M. Plesniak	PU	Idealized stenotic flow development due to a quasi-linear inlet profile
26	9:50	J. Kiedaisch D. Madugundi P. Reinhard H. Nagib	IIT	Role of Circulation in high lift AFC

10:10 - 10:30 **COFFEE AND PING-PONG CHAMPIONSHIP**

Session VI (Saturday Morning, April 8, 2006)

Chairperson: A. Naguib. KOTGOF: S. Wereley

Talk	Time	Speaker	School	Title
27	10:30	H. Othman	ND	Experimental Investigation of Absolute Instability of a Rotating-Disk Boundary Layer
28	10:50	B. Schultz	UM	SOTLFM
29	11:10	D. Cornelius D. Williams	IIT	Supersonic Cavity Response to Open Loop Forcing
30	11:30	B. Trosin, A. Aditjandra A. Naguib	MSU	Amplitude-modulated Excitation of an Axi-symmetric Backward-facing-step Flow: Wall-pressure-array and Velocity Measurements
31	11:50	P. Bhattacharjee	UIUC	Level set methods applied to the simulation of thermal magnetic fluids

12:10 - 12:15 **CLOSING**

12:15 **LUNCH**

GO HOME! DRIVE SAFELY!