

# MUFMECH 2001 Schedule

## (The Twenty-Eighth MUFMECH)

7:45 BREAKFAST

### Session I (Friday Morning, April 20, 2001)

Chairperson: G. Raman, KOTGOF: J. Foss

Talk	Time	Speaker	School	Title
	8:25	M. Plesniak	PU	Opening Remarks
1	8:30	M. Post, E. Erturk, & T. Corke	ND	Phased plasma arrays for unsteady flow control
2	8:50	M. Rahi	MSU	A new approach to measuring instantaneous flow rates in unsteady duct flows
3	9:10	A. Obabko	IIT	Finite-Reynolds number complexity of vortex-induced unsteady separation
4	9:30	J. Kiedaisch & D. Greenblatt	IIT	A simple and effective scheme for dynamic correction of pressure measurements in unsteady flows
5	9:50	B. El-hadidi & H. Atassi	ND	Rotor-wake modeling and unsteady stator response

10:10 - 10:30 COFFEE

### Session II (Friday Morning, April 20, 2001)

Chairperson: A. Naguib, KOTGOF: S. Stewart

Talk	Time	Speaker	School	Title
6	10:30	R. Hamilton	PU	The Population Balance Equation in Gas/Solids Flow with Application to Pulmonary Drug Delivery
7	10:50	M. Clay	NW	Surfactant effects on spreading
8	11:10	L. Hudy & A. Naguib	MSU	Characterization of a separating/reattaching flow region using surface pressure measurements
9	11:30	J. Zhang	NW	Dynamics of an interface on an inclined channel
10	11:50	S. Wereley	PU	Simultaneous Temperature and Velocity Measurements Using Particle Image Velocimetry



12:10 - 1:30 LUNCH - Steering Committee Meeting

**Session III (Friday Afternoon, April 20, 2001)**

Chairperson: P. Merati, KOTGOF: R. Kolkka

Talk	Time	Speaker	School	Title
11	1:30	A. Pacheco-Vega, M. Sen, & K.T. Lang	ND	Global optimization methods to find correlations of fin-tube heat exchanger performance data
12	1:50	R. Prevost	MSU	Flow measurements within the volute of an HVAC centrifugal fan
13	2:10	L. Gui	PU	Towing tank experiments for naval surface combatant in regular head waves
14	2:30	C. Hovland & I. Sahin	WMU	A CFD study of two-phase flow in a rotating drum
15	2:50	Kouznetsov	UIUC	The thermal expansion boundary layer in solid rocket propellants
16	3:10	S. Morris	MSU	Distinguishing between turbulence and cycle-to-cycle variations in phase averaged velocity data

3:30 - 5:30 R and R

5:30 - 6:30 DINNER

**Session IV (Friday Evening, April 20, 2001)**

Chairperson: C. Wark, KOTGOF: T. Corke

Talk	Time	Speaker	School	Title
17	6:30	A. Naguib	MSU	Enhancement of the frequency resolution of Doppler methods using a centroid approach
18	6:50	W. Jiraporncharoen & D. Qi	WMU	Lateral migration of solid particles in a shear flow
19	7:10	J. Yi & M. Plesniak	PU	Dispersion of a particle-laden air jet in a confined rectangular crossflow
20	7:30	Kasimov	UIUC	The stability of spinning detonation

8:15 EVENING SOCIAL GATHERING AT REDWOOD LODGE

\*\*\*\*\*Sleep\*\*\*\*\*



7:45

BREAKFAST

**Session V (Saturday Morning, April 21, 2001)**

Chairperson: R. Adrian, KOTGOF: W. Schultz

<b>Talk</b>	<b>Time</b>	<b>Speaker</b>	<b>School</b>	<b>Title</b>
21	8:30	J. Foss	MSU	Operating experience with the PWM-CTA
22	8:50	D. Neal	MSU	Evaluation de modèles CFD pour des ventilateurs axiaux par comparaison avec des données expérimentales moyennées en phase
23	9:10	B. Liou	WMU	Spatial linear instability of confluent wake/boundary layers
24	9:30	X. Liu	ND	An approach to the estimate of dissipation in turbulent planar wake
25	9:50	A. Ali	ND	Inflow/outflow conditions for aeroacoustic problems with swirling flows

10:10 - 10:30 COFFEE

**Session VI (Saturday Morning, April 21, 2001)**

Chairperson: S. Wereley, KOTGOF: S. Morris

<b>Talk</b>	<b>Time</b>	<b>Speaker</b>	<b>School</b>	<b>Title</b>
26	10:30	S. Othman & G. Raman	IIT	Experimental study of twin resonance tube interaction
27	10:50	S. Yoo	UIUC	Fast-tube level set methods for fluid dynamics applications
28	11:10	D. Williams	IIT	Active control of cavity resonant tones
29	11:30	E. Erturk	ND	DNS modeling of the flow induced by plasma actuators

11:50 - 11:55 CLOSING

12:00 - LUNCH - GO HOME!