

# MUFMECH 2000 Schedule

## (The Twenty-Seventh MUFMECH)

7:45 BREAKFAST

### Session I (Friday Morning, April 14, 2000)

Chairperson: T. Corke, KOTGOF: J. Foss

Talk	Time	Speaker	School	Title
	8:25	D. Williams	IIT	Opening Remarks
1	8:30	M. Koochesfahani	MSU	Simultaneous Velocity and concentration Measurements Using MTV and LIF
2	8:50	N. Venters & M.Plesniak	PU	Airfoil Trailing Edge Cooling
3	9:10	P. Tortora	UM	Sub visual cavitation in marine propellers
4	9:50	F. Hann	ND	The Effects of Turbulence on the Aerodynamics of Long Span Bridges
5	9:50	K. Sarkar	UIUC	Drop Deformation in Time-Dependent Flows at Finite Reynolds Number

10:10 - 10:30 COFFEE

### Session II (Friday Morning, April 14, 2000)

Chairperson: K. Cassel, KOTGOF: M. Plesniak

Talk	Time	Speaker	School	Title
6	10:30	A. Shen	UIUC	Granular Wave Patterns in a Horizontal Rotating Cylinder
7	10:50	S. Morris & J. Foss	MSU	Measurements in a Single Stream Shear Layer

8	11:10	N. Jones & J. Sinclair	PU	Reynolds Number Effects on Turbulence Intensity in Gas-Solids Flow
9	11:30	A. Obabko	IIT	On Unsteady Vortex-Induced Separation
10	11:50	K. Zarling	MTU	Measuring Generation of Vapor for Validation of a Computational Two-Phase Fuel Rail Model

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

**Session III (Friday Afternoon, April 14, 2000)**

Chairperson: W. Liou, KOTGOF: D. Michalek

<b>Talk</b>	<b>Time</b>	<b>Speaker</b>	<b>School</b>	<b>Title</b>
11	1:30	X. Liu, F. Thomas & R. Nelson	ND	Turbulence Kinetic Energy Budget Measurement of Symmetric Wake at Constant Pressure Gradients
12	1:50	S. Budilarto & J. Sinclair	PU	LDV Measurement of Gas-Solid Flow on a Coaxial Jet
13	2:10	B. Mathews	MTU	Predicting the Temperature Distribution During Cylinder Boring Using Fluent 4
14	2:30	C. Judge	UM	Flow Separation Due to Asymmetry and Horizontal Impact Velocity
15	2:50	P. Merati & M. Macelt	WMU	Flow Investigation around a V-Sector Ball Valve
16	3:10	H. Li, O. Burggraf & T. Conlisk	OSU	Formation of Fixed and Rotary-Wing Vortices

3:30 - 5:30 R and R

5:30 - 6:30 DINNER

**Session IV (Friday Evening, April 14, 2000)**

Chairperson: C. Wark, KOTGOF: G. Raman

<b>Talk</b>	<b>Time</b>	<b>Speaker</b>	<b>School</b>	<b>Title</b>
17	6:30	A. Naguib & C. Wark	MSU	Stochastic Estimation and Large-Scale Structures in Turbulent Boundary Layers
18	6:50	E. Jumper, E. Fitzgerald & J. Cicchiello	ND	Optical Problems in Fluid Mechanics
19	7:10	E. Pederson & A. Hoadley	WMU	Prediction of Airfoil Stall under Icing Conditions using Surface Pressure
20	7:30	D. Brown & W. Dunn, R. Carhart & A. Policastro	UIC	An Experimental Study of Subway Station Dispersion
21	7:50	K. Moser, G. Reguin & J.G. Georgiadis	UIUC	MRI Visualization of Competition between Spiral and Toroidal Vortices in Taylor-Couette-Poiseuille Flows

8:15 EVENING SOCIAL GATHERING AT REDWOOD LODGE

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

7:45 BREAKFAST

**Session V (Saturday Morning, April 15, 2000)**

Chairperson: P. Merati, KOTGOF: W. Schultz

<b>Talk</b>	<b>Time</b>	<b>Speaker</b>	<b>School</b>	<b>Title</b>
-------------	-------------	----------------	---------------	--------------

22	8:30	A. McIntosh	MSU	The Design and construction of a Dynamic Fire Testing Facility
23	8:50	Y. Fang & B. Liou	WMU	Implicit Boundary Conditions for DSMC in MEMS Flow Predictions
24	9:10	E. Erturk & T. Corke	ND	Numerical Modeling of a Driven Cavity Flow
25	9:30	Y. Qi	OSU	Enhanced Heat Transfer of Drag Reducing Surfactant Solutions with Fluted Tube-in-Tube Heat Exchanger
26	9:50	G. Raman	IIT	Supersonic Jet Plume Resonance from Twin Nozzles of Simple and Complex Geometry

10:10 - 10:30 COFFEE

**Session VI (Saturday Morning, April 15, 2000)**

Chairperson: A. Naguib, KOTGOF: T. Conlisk

<b>Talk</b>	<b>Time</b>	<b>Speaker</b>	<b>School</b>	<b>Title</b>
27	10:30	W. Hii	MTU	Comparison of Turbulence Models for Predicting Flow in Compound Fuel Injector Nozzles
28	10:50	K. Biber	WMU	Supersonic Flow Simulation of Engine/Airframe Interference Effects
29	11:10	Z. Liu	UM	Thin Films in Rotating Cylinders
30	11:30	B. Nebeker & S. Wereley	PU	Evaluating Competing PIV Algorithms for Steady Microscale Flows
31	11:50	D. Qi	WMU	Lateral Migration and Orientation of Elliptical Particles in Pressure Driven Flows

12:10 - 12:15 CLOSING

12:15 - LUNCH - GO HOME!