

John FOS

**21st Annual Midwestern Universities Fluid Mechanics Retreat
April 14, 15, and 16, 1994
Geneva Center, Rochester, Indiana**

Thursday, April 14

6:00 PM to 11:00 PM Check-in and Welcoming Party

Friday, April 15

7:30 AM Breakfast
8:30 AM Introductory Remarks
8:40 AM Session I
10:00 AM Coffee Break
10:20 AM Session II
12:00 Noon Lunch
1:30 PM Session III
3:10 PM R and R
5:30 PM Dinner
6:30 PM Session IV
8:15 PM-- Social Gathering at Redwood Lodge

Saturday, April 16

7:30 AM Breakfast
8:30 AM Session V
9:50 AM Coffee Break
10:10 AM Session IV
12:00 Noon Lunch

Each speaker will be allowed exactly fifteen minutes to communicate uninterrupted. A five-minute discussion period will follow. FROG's are awarded in the MUFMECH tradition for the following infractions:

- Speaker exceeds the fifteen minutes allocated for speaking (1 FROG/minute)
- Speaker or questioner exceeds the five minutes allocated for discussion
- Participants interrupt the speaker
- Participants refer to other participants using a title or indicator of status such as Professor, Doctor, Student, Your Excellency, etc.
- Participants mention the names of funding agencies such as the Michigan Department of Fish Science and Technology
- Participants arrive late for a session
- Infractions deemed inappropriate by the Keeper of Time and Giver of Frogs (KOTGOF)

Session Chairpersons are responsible for starting the sessions on time and maintaining the schedule. The KOTGOF for each session is responsible for awarding FROG's according to the rules stated. Participants awarded FROG's must redeem them by contributing \$1.00/FROG to the refreshment fund.

Session I (Friday Morning, April 15)

Chairperson: Seth Lichter

KOTGOF: Candace Wark

<u>Talk</u>	<u>Time</u>	<u>Speaker</u>	<u>School</u>	<u>Title</u>
1	8:40	Orangi, S.	OSU	Structure of compressible three-dimensional vortices
2	9:00	Zhao, X.	ND	Effect of asymmetries on heat transfer in a bifurcating channel
3	9:20	Rose, T.	UW-M	Analysis of piston ring lubrication theory with large surface tension
4	9:40	Turnbull, P.	UMich	Fluid/structure interaction in paper formation

Stokes 1st problem

10:00 COFFEE BREAK

Session II (Friday Morning, April 15)

Chairperson: Bob Kolkka

KOTGOF: Terry Conlisk

<u>Talk</u>	<u>Time</u>	<u>Speaker</u>	<u>School</u>	<u>Title</u>
(5)	10:20	Robichaux, J.	UIUC	Parallel spectral multidomain Navier Stokes simulations on the CM-5
6	10:40	Atassi, O.	NU	The roll-up of a wall bounded shear layer
7	11:00	Naguib, A.	IIT	Extracting wall-pressure time series using optimal filtering
8	11:20	Komrzy, P.	OSU	Reduction of drag and heat transfer in turbulent flow of cationic surfactant solutions
9	11:40	Merati, P.	WMU	PIV in rotating flow

See 19 →

12:00 LUNCH

Session III (Friday Afternoon, April 15)

Chairperson: Hafiz Atassi

KOTGOF: Bill Schultz

<u>Talk</u>	<u>Time</u>	<u>Speaker</u>	<u>School</u>	<u>Title</u>
10	1:30	Aslam, T.	UIUC	Level set techniques for modeling detonation dynamics
11	1:50	Nunez, M.	ND	Study of a falling film on an inclined plane
12	2:10	Schultz, W.	UMich	Can fish swim straight?
13	2:30	Golubev, V.	ND	Aerodynamics and acoustics of unsteady swirling flows in a duct
14	2:50	Zhuang, M.	MSU	Instability of wake-dominated compressible mixing flows

3:10 R AND R

5:30 DINNER

Session IV (Friday Evening, April 15)

Chairperson: John Foss

KOTGOF: Al Szewczyk — Mike Foster

<u>Talk</u>	<u>Time</u>	<u>Speaker</u>	<u>School</u>	<u>Title</u>
15	6:30	Soell, J. <i>when</i>	OSU	Vortex-surface collisions
16	6:50	Maul, C.	UW-M	Traction singularities on sharp corners and edges in three-dimensional stokes flow
17	7:10	Thyageswaran, S. <i>Sridhar</i>	IIT	CFD modelling of heat transfer in the tail pipe of pulse combustors
18	7:30	Freeberg, P. <i>hol</i>	U Minn.	Riblets on sails: their effect on lift and drag
19	7:50	Mittal, R. <i>see 5</i> <i>gor Kobachanx</i> <i>Urbic</i>	UIUC	Vortex structures in the symmetric and asymmetric wake of an elliptic cylinder

8:15 SOCIAL GATHERING

Sat AM clear rooms - lunars in hall

before first session & at least

@ coffee is ready

Video

Session V (Saturday Morning, April 16)
Chairperson: Giles Brereton
KOTGOF: Scott Stewart

<u>Talk</u>	<u>Time</u>	<u>Speaker</u>	<u>School</u>	<u>Title</u>
20	8:30	Bohl, D.	MSU	An investigation of time resolved streamwise vorticity in a tabbed jet
21	8:50	Dorney, D.	WMU	High-frequency unsteady flows in three dimensional blade rows
22	9:10	Brereton, G.	UMich	Spacing of streaks in steady, unsteady, bounded and unbounded flow
23	9:30	Knasiak, K.	IIT	Effect of periodic distributed roughness on cross-flow instability

9:50 COFFEE BREAK

Session VI (Saturday Morning, April 16)
Chairperson: Amy Alving
KOTGOF: Bob Brodkey

<u>Talk</u>	<u>Time</u>	<u>Speaker</u>	<u>School</u>	<u>Title</u>
24	10:10	Taeibi-Rahni, M.	UIUC	Simulations of bubbly free shear flows
25	10:30	Anderson, E.	ND	The effect of shear mean flow on straight and tapered circular cylinders
26	10:50	Kolkka, R.	MTU	Some ubiquitous features of differential and single integral viscoelastic constitutive equations
27	11:10	Cardell, G.	IIT	The formation of secondary vortices in the wake of a circular cylinder
28	11:30	Lueptow, R.	NU	Spatio-temporal development of turbulent wall pressure events

11:50 CLOSING REMARKS
12:00 LUNCH
