

8TH ANNUAL MIDWESTERN UNIVERSITIES
FLUID MECHANICS RETREAT

PROGRAM

SESSION I - (Friday, 24 April 81)

Chairman: Bob Falco

Kotgof*: D. Eddingfield

<u>Time</u>	<u>Name</u>	<u>School</u>	<u>TITLE</u>
8:40	R. Johnson	UIUC	"Heat Transfer from a Permeable Sphere in Stokes Flow"
9:00	R. Sharma	OSU	"A Moving-Wall Flow System"
9:20	L. Hultgren	IIT	"On the Instability of Compressible Ekman Boundary Layer Flow"
9:40	Alan Cain	ND	"The Secondary Instability of the Time Developing Mixing Layer"
10:00	- - - - - COFFEE BREAK - - - - -		
10:20	Candy Wark	MSU	"Determination of the Forces Caused by the Radial Flow Between Parallel Disks"
10:40	J. Lewalle	OSU	"Turbulent Motion, Mixing, and Kinetics-Complex Reactions"
11:00	Bill Schultz	NU	"Matching Requirements for Slender Liquid Jets"
11:20	Tony Man	SIU	"Hydraulic Intrusion by a Water Jet"

SESSION II - (Friday, 24 April 81)

Chairman: Mike Foster

Kotgof: L. Hultgren

<u>Time</u>	<u>Name</u>	<u>School</u>	<u>TITLE</u>
1:30	Jeff Lovett	MSU	"Correspondence Between the Bursting Rate and the Formation of Pockets in Turbulent Boundary Layers"
1:50	Mark Smith	NU	"Instability of a Sheer Flow Driven by a Surface Tension Gradient"
2:10	Evelyn Rockar	IIT	"Determining the Bottom Hole Treating Pressure for a Massive Hydraulic Fracture"
2:30	N. Riahi	UIUC	"Thermal Convection in a Layer with Poorly Conducting Boundaries"
3:00	- - - - - R & R, etc. - - - - -		

* Keeper of Time and Giver of Frogs

SESSION III - (Friday, 24 April 81)

Chairman: Hafiz Atassi

Kotgof: Dave Malkus

<u>Time</u>	<u>Name</u>	<u>School</u>	<u>TITLE</u>
7:00	Dave Signor	MSU	"New Measurements of the Scale and Reynolds Number Dependence of Typical Eddies"
7:20	R. Biedron	OSU	"Multi-Grid Analysis of AirFoilS"
7:40	Graham Kelly	ND	"Non-Linear Propagation of General Directional Cylindrical Wave"
8:00	Bob Falco	MSU	"Structural Features of the Bursting Process and Their Correspondence with "Pockets""
8:30	- - - - - SOCIAL HOURS - - - - -		

SESSION IV - (Saturday, 25 April 81)

Chairman: Lennart Hultgren

Kotgof: Bob Falco

<u>Time</u>	<u>Name</u>	<u>School</u>	<u>TITLE</u>
8:40	David S. Malkus	IIT	"The Drift Function in Numerical Modelling of Non-Newtonian Plane Flows"
9:00	J. Conlisk and M. Foster	OSU	"Mass Transfer in a Rapidly Rotating Centrifuge"
9:20	Hsi-Tai, Yao	MSU	"The Effect of Turbulent Relaxation Phenomenon on Physio-Chemical Absorption"
9:40	Peck Cho	NU	"Combustion Waves in a Laminar Flow - Polyhedral & Open Tip Flames"
10:00	- - - - - COFFEE BREAK - - - - -		
10:30	D. Mikolaites	UIUC	"Flame in a Rear Stagnation Point Flow"
10:50	W. Lee	OSU	"Steroscopic Flow Visualization by Video Methods"
11:10	Ollie Setork	SIU	"Mathematical Modeling of High Velocity Water Jet"
11:30	M. Foster	OSU	"Slow Rotating Stratified Flow Past Three-Dimensional Obstacles"