



INTER GROUP MEETING, 2016

IIT Bombay

Venue: Seminar Hall, Vanvihar Guest house



DAY 1, FEBRUARY 11 (THURSDAY), 2016

Morning session: 9.30 AM to 1.00 PM

Dr. Krishnendu Sinha & Dr. Rama Govindarajan	IIT Bombay, TCIS-TIFR	Welcome address
Dr. Krishnendu Sinha	IIT Bombay	Shock - turbulence interaction - an elegant theoretical problem with interesting practical applications
Tea Break		
Sharath Jose	TCIS-TIFR	Transient growth and its consequences in rotating channel flow
Yogesh Prasaad	IIT Bombay	DNS of canonical shock-turbulence interaction
Gopalakrishnan	IIT Madras	Effect of noise on the hysteresis characteristics of a thermo-acoustic system
Ganga Prasath	TCIS-TIFR	Large deformation dynamics of an elastic filament

Afternoon session: 2.00 PM to 6.00 PM

Dr. R. I. Sujith	IIT Madras	Prognosis of an Impending Combustion Instability
Croor Singh	TCIS-TIFR	Vortices in gravity
Tea Break		
Harshal Suresh Raut	IIT Hyderabad	Shedding patterns from flow past an oscillating cylinder
Vishnu Unni	IIT Madras	Multifractal characteristics of oscillations close to lean blow out
Karthik Menon	TCIS-TIFR	Flow and Jamming of Foams in a Straight Channel
Abin Krishnan	IIT Madras	Screech and Vortex shedding

DAY 2, FEBRUARY 12 (FRIDAY), 2016

Morning session: 9.30 AM to 1.00 PM

Dr. Harish Dixit	IIT Hyderabad	Pedagogical lecture- A quick tour of singular perturbation theory for elementary differential equations
Tea Break		
Jagadish Babu	IIT Bombay	Modeling of shock unsteadiness in a shock-boundary layer interaction
Arthi Appathurai	TCIS-TIFR	Flow past infinitely long rough rotating cylinder
Pratik Raje	IIT Bombay	Conservative formulation of shock-unsteadiness k-epsilon model
Sumit	TCIS-TIFR	Collision of a sphere with a plate in a viscous medium

Afternoon session: 2.00 PM to 6.00 PM

Dr. Rama Govindarajan	TCIS-TIFR	
Bijaylakshmi Saikia	IIT Bombay	Effect of transport property variation on flow stability
Tea Break		
Russell Quadros	IIT Bombay	Modal analysis of shock boundary layer interaction
Palas Kumar Farsoiya	IIT Bombay	LVIRA-VOF Navier Stokes solver with Height Function for surface tension
Premlata	IIT Hyderabad	Dynamics of rising bubble inside a viscosity-stratified medium
Rashmi Ramadugu	TCIS-TIFR	Flow over an inclined plane
DISCUSSIONS & ROAD AHEAD		



Emergency contacts:

Travel incharge: Pratik- 9004907856 and Gupta travels: 9820359206

Students accommodation : Jagadish- 7738272116

Technical incharge: Bijaylakshmi (9920145304) & Utkarsh (9004543189)

Overall hospitality : Yogesh (9167464121) & Mukesh (9930351369)