

**Workshop on  
Experimental methods in thermoacoustics  
5 – 7 February 2014, IIT Madras, Chennai, India**

**Day 1 – Feb 5**

Workshop aim & scope	R. I. Sujith
Classical Measurements in thermoacoustics	Maria Heckl
Transfer function, Describing function	Nicolos Noiray
Linear time series analysis	Wolfgang Polifke
Low reflection boundary conditions: Why & how Determination of acoustic losses	Nicolos Noiray
Nonlinear time series analysis	Hiroshi Gotoda

**Day 2 – Feb 6**

Measurements in thermoacoustic systems: Why we measure; what we measure; how we measure	Simone Hochgreb
Measurements and their applications	Simone Hochgreb
Fundamentals of Passive control of thermoacoustic instabilities	Maria Heckl
Active control of thermoacoustic instabilities	Jakob Hermann
Stochastic forcing	Nicholas Noiray
Experimental studies of turbulent combustion in the context of thermoacoustic instabilities	Simone Hochgreb

**Day 3 – Feb 7**

Inverse acoustic methods: Inverse boundary element method, near-field acoustic holography, beam forming and equivalent source method, highlighting the application to thermoacoustics	Ines Lopez
Optical diagnostics of thermoacoustic instability: Velocity, fuel flow rate, temperature fluctuations	Saptarishi Basu
Blow-off dynamics & its measurement	Swetaprovo Chaudhary
Practical issues in thermoacoustics	Panel discussion