



## Workshop on Experimental methods in Thermoacoustics



### Day 1, Wednesday 5<sup>th</sup> February 2014, IIT Madras.

|               |                                                    |                                                           |
|---------------|----------------------------------------------------|-----------------------------------------------------------|
| 09:30 – 10:00 | Registration                                       |                                                           |
| 10:00 – 10:30 | Workshop aim & scope; Introduction of participants | R. I. Sujith, IIT Madras, India<br>Maria Heckl, Keele, UK |
| 10:30 – 11:00 | Tea Break                                          |                                                           |
| 11:00 – 12:00 | Classical Measurements in thermoacoustics          | Maria Heckl, Keele, UK                                    |
| 12:00 – 13:00 | Stochastic aspects of combustors' thermoacoustics  | Nicolas Noiray, Alstom, Switzerland                       |
| 13:00 – 14:00 | Lunch                                              |                                                           |
| 14:00 – 15:00 | Linear time series analysis - 1                    | Wolfgang Polifke, TU Munich, Germany                      |
| 15:00 – 16:00 | Low reflecting boundaries in combustion chambers   | Nicolas Noiray, Alstom, Switzerland                       |
| 16:00 – 16:30 | Tea Break                                          |                                                           |
| 16:30 – 17:30 | Active control of thermoacoustic instabilities     | Jakob Hermann, IFTA, Germany                              |



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### Day 2, Thursday 6<sup>th</sup> February 2014, IIT Madras.

|               |                                                                                             |                                 |
|---------------|---------------------------------------------------------------------------------------------|---------------------------------|
| 09:00 – 10:00 | Measurements in thermoacoustic systems: Why we measure?; What we measure?; How we measure?  | Simone Hochgreb, Cambridge, UK  |
| 10:00 – 11:00 | Linear time series analysis - 2                                                             | Arun Tangirala, IIT Madras      |
| 11:00 – 11:30 | Tea Break                                                                                   |                                 |
| 11:30 – 12:30 | Nonlinear time series analysis                                                              | R. I. Sujith, IIT Madras, India |
| 12:30 – 13:30 | Measurements and their applications                                                         | Simone Hochgreb, Cambridge, UK  |
| 13:30 – 14:30 | Lunch                                                                                       |                                 |
| 14:30 – 15:30 | Fundamentals of passive control of thermoacoustic instabilities                             | Maria Heckl, Keele, UK          |
| 15:30 – 16:00 | Tea Break                                                                                   |                                 |
| 16:00 – 17:00 | Experimental studies of turbulent combustion in the context of thermoacoustic instabilities | Simone Hochgreb, Cambridge, UK  |
| 18:00 – 19:15 | Cultural program at CLT                                                                     |                                 |
| 19:30 – 21:00 | Conference Dinner                                                                           |                                 |



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### Day 3, Friday 7<sup>th</sup> February 2014, IIT Madras.

09.00 – 10.00 New insights into mechanisms of combustion instability in  
dump and swirl combustors

S. R. Chakravarthy, IIT Madras,

10:00 – 11:00 Thermoacoustics of annular combustors

Nicolas Noiray, Alstom, Switzerland

11.00 – 11.30 Tea Break

11.30 – 13.00 Blow-off dynamics & its measurement

Swetaprovo Chaudhury, IISc Bangalore

13.00 – 13.30 Practical issues in thermoacoustics

*Panel discussion*

13.30 – 14.30 Lunch



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### Contact Personnel

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