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## Analytical methods in thermo- and aeroacoustics

**Date:** Wednesday, 11 March 2020

**Location:** HUB Lecture Theatre, Keele Sustainability Hub, Home Farm, Keele, ST5 5AA

**Programme:**

9:00 – 10:00 Lecture by Professor Maria Heckl, Keele University, U.K.  
"Green's function methods in thermoacoustics"

10:00 – 11:00 Lecture by Professor Yannis Hardalupas, Imperial College London, U.K.  
"The importance of hydrodynamics on the initiation of thermoacoustic oscillations"

11:00 – 12:00 Lecture by Professor R.I.Sujith, IIT Madras, Chennai, India  
"Complex systems approach to investigate thermoacoustic instability in turbulent combustors – Part 1: Time series analysis"

12:00 – 14:00 **Lunch**

14:00 – 15:00 Lecture by Professor R.I.Sujith, IIT Madras, Chennai, India  
"Complex systems approach to investigate thermoacoustic instability in turbulent combustors – Part 2: Spatio-temporal analysis and directions for future research"

15:00 – 15:40 Lecture by Dr Aswathy Surendran, Imperial College London, U.K.  
"Passive control of thermoacoustic instabilities by heat exchangers"

15:40 – 16:00 **Break**

16:00 – 17:00 Lecture by Professor Maria Heckl and Dr Sreenath M. Gopinathan, Keele University, U.K.  
"Flame models for thermoacoustics"

17:00 – 18:00 Quiz

19:00 **Dinner in Newcastle-under-Lyme** (exact venue to be confirmed)