



United Kingdom Consortium on Turbulent Reacting Flows (UKCTRF)

15 & 16 SEPTEMBER 2016

DURHAM UNIVERSITY,
COLLINGWOOD COLLEGE

(UKCTRF) 15 & 16 September 2016
 Durham University, Collingwood College, Penthouse B
 Thursday 15 September - Day one

09:30	Registration and Refreshments	
10:30	Professor Nilanjan Chakraborty	Welcome and Introduction
		Session Chair – Prof. R. Stewart Cant, Cambridge University Engineering Department
10:45 - <i>11:20</i>	Professor Markus Klein	Recent experiences with modelling of turbulence chemistry interaction in the context of LES using DNS of turbulent premixed generic planar flame configurations
		Session Chair – Dr. Salvador Navarro-Martinez, Imperial College London
11:25 - <i>11:45</i>	Yu Xia	Dispersion of entropy waves advecting through combustor chambers
11:55 - <i>12:15</i>	Reza Khodadadi Azadboni	CFD modelling of non-uniform Hydrogen flame propagating across obstacles and inducing detonation
12:25	Chandra Vendra	Vented explosion : modelling flame instabilities
12:45	Lunch & Poster Session– Penthouse A	
		Session Chair – Dr. Jun Xia, Brunel University
14:00 - <i>14:20</i>	Huangwei Zhang	Modelling spark ignition of turbulent jet flows with LES/CMC
14:30 - <i>14:50</i>	Girish Nivarti	Direct Numerical Simulation of the Bending Effect in Turbulent Premixed Flames
15:00 - <i>15:20</i>	Philip Sitte	Modelling of spray flames with Double Conditional Moment Closure
15:30 - <i>15:50</i>	Nguyen Anh Khoa Doan	DNS of partially premixed MILD combustion
16:00 - <i>16:20</i>	Jian Fang	First Investigation of HAMISH: An Adaptive Mesh Solver for Turbulent Reacting Flows
16:20	Refreshments & Poster Session – Penthouse A	
19:00	Pre-Dinner Drinks – Penthouse Boardroom	
19:30	Annual Dinner – Penthouse Boardroom	

(UKCTRF) 15 & 16 September 2016
 Durham University, Collingwood College, Penthouse B

Friday 16 September Day Two

09:00	Refreshments	
	Session Chair – Prof. W Jones – Imperial College London	
09:15 - 09:55	Dr Ghenadie Bulat	70 years of combustion development for industrial gas turbines in Lincoln
	Session Chair – Dr Stelios Rigopoulos, University of Cambridge	
10:00 - 10:20	Jiawei Lai	Analysis of turbulent premixed flame-wall interaction by using simple and detailed chemistry based Direct Numerical Simulations data
10:30 - 10:50	Ivan Sikic	Improvement of gas radiation treatment in FireFOAM
11:00 - 11:20	Andrea Giusti	Numerical investigation of an ultra-low NOx methane burner
11:20	Refreshments & Poster Session	
11:30 - 11:50	Fabian Sewerin	Combining LES with a detailed population balance model to predict soot formation in a turbulent non-premixed jet flame
12:00 - 12:20	Xujiang Wang	Direct Numerical Simulation of Turbulent Lean Premixed H ₂ /Air Flames at Elevated Pressure
12:30	Neelofer Banglawala	Archer Update
13:00	General Discussion & Closing Comments from Professor Nilanjan Chakraborty	
13:30	Lunch & Poster Session – Penthouse A (Impact Advisory Panel and Management Committee members are requested to remain thereafter)	
14:30	Meeting with Impact Advisory Panel and Management Committee	
16:30	Approximate Finish Time	