	Wednesday, 4th D	ecember	
Start	Room S111	Room S112	
9:30	ACS reg	istration	
10:20	ACS Welcome and Morning Tea – Room S326		
11:00	Session chair: Assaad Masri		
	Bilger Lecture: Recent developments in turbulent combustion modelling and laser-based experiments and their relevance to practical systems – Room S112		
	Epaminondas Mastorakos	ACS-050	
12:00	Session chair: Bassam Dally		
	Invited: The Dynamics of Supersonic Turbulent Combustion	ACLD parallel session	
10.10	Vincent Wheatley ACS-018		
12:40	Lunch – R		
14:00	Session chair: Bogdan Dlugogorski	Session chair: Mohsen Talei	
	A Parametric Study on Fluidisation Characteristics and Product Yields in Bubbling Fluidised Bed Reactor	Soot particle structure variation associated with in- cylinder gas pressure/temperature in a small-bore diesel engine	
	Joshua Clissold ACS-016	Lingzhe Rao ACS-001	
14:20	An Experimental Study of Laminar Flame Speed of Partially Dissociated NH3 and Air Mixtures	In-cylinder and exhaust soot morphology in an optical spark ignition direct injection (SIDI) petrol engine	
	Harry Lesmana ACS-056	Dongchan Kim ACS-002	
14:40	Fast Pyrolysis of Lignin at Low Temperatures: An In- depth Understanding of the Char Structural Changes		
	Yee Wen Chua ACS-030	Yilong Zhang ACS-004	
15:00	Afternoon tea	– Room S326	
15:40	Session chair: Zhao Tian	Session chair: Richard Brown	
	Preliminary Observations of Turbulent Flames in a Confined and Pressurised Jet in Hot and Vitiated Coflow Burner	Invited: Combustion strategies for multi-fuel capable compression ignition engines	
	Michael Evans ACS-035		
16:00	Numerical Investigation of Tandem Cavity Configurations with Supersonic Ethylene Combustion		
	Sarah Mecklem ACS-017	Sanghoon Kook ACS-007	
16:20	Experimental and numerical study of ammonia oxidation and pyrolysis in a Jet Stirred Flow Reactor. Evaluation of wall surface reactions effects	Flame image velocimetry for in-flame flow field analysis in an optically accessible diesel engine	
	Pino Sabia ACS-044	Jinxin Yang ACS-008	
16:40	Hybrid solar-combustion processes of renewable fuels	Image selection method for combustion analysis in an optical diesel engine	
	Alfonso Chinnici ACS-054	Siyuan Meng ACS-009	
17:00	One-Step Chemical Kinetic Scheme for Propane in High Temperature Applications	Comparison of real-time NOx emission measurements from two heavy-duty diesel engines	
	Raoul Mazumdar ACS-005	G M Hasan Shahariar ACS-015	
17:30	ANZ-CI Biennial Genera	al Meeting – Room S112	

Note: Only first-named author is shown. Any of the authors are eligible to present.

	Thursday, 5th De	ecember
Start	Room S111	Room S112
08:40	Session chair:	Assaad Masri
	Plenary: Stability of MILD Combustion in temperature conversion of energy carriers – Room S112	tailored reactors - A perspective on thermal
	Mara de Joannon	ACS-051
00.40	Session chair: Matthew Cleary	Session chair: Sanghoon Kook
09:40	Invited: A Physical Understanding of how Multiple	Invited: Industrial Gas Turbine Combustor Design:
	Mapping Conditioning Works	Exhaust CO Emissions
	Andrew Wandel ACS-036	Robert Gordon ACS-046
10:20	Morning Tea	– Room S326
11:00	Session chair: Evatt Hawkes	Session chair: Anand Veeraragavan
	Invited: Sound sources in premixed flames	Invited: Recent Progress in the Control and Understanding of Turbulent Spray Formation
	Mohsen Talei ACS-047	Agisilaos Kourmatzis ACS-003
11:40	High-order accurate hybrid LES/PDF simulations of	Comparative study of spray characteristics of high
	an experimental H2/N2 lifted jet flame Harshad Ranadive ACS-040	alcohol-diesel blends Sattar Algayyim ACS-006
12:00	Algebraic Flame Surface Density Model	Initial Characterisation of a hybrid air-blast and
		electrostatic atomizer for spray combustion
	Man-Ching Ma ACS-027	Tushar Ahmed ACS-011
12:20	Investigation of flammability factor in CNG jets using LES	Measurement of wave speeds at the liquid-air interface of an air-blast atomized biodiesel spray
	Mohammad Reza Yosri ACS-031	Aaron Gutteridge ACS-013
12:40	Lunch – R	com S326
14:00	Session chair: Matthew Dunn	Session chair: Armin Wehrfritz
	Numerical Analysis of Point Source Fire on Fire- Wind Enhancement	Some Recent Results on Hydrogen Oxidation in a Flow Reactor
		Zhewen Lu ACS-028
14:20	Ignition Waves in Compartment Fire Flashover	An Update on the Rate Constant of H + O2 (+M) \rightarrow HO2 (+M), M = N2 using H2/O2/NOx Reaction in a Flow Reactor
		Zhewen Lu ACS-029
14:40	Vasily Novozhilov ACS-023 Numerical study of the flame structure and swirling	Chemistry reduction of hydrogen-methane mixtures
14.40	motion of small-scale fire whirls	with a focus on the laminar flame speed
		Jen Zen Ho ACS-032
15:00		– Room S326
15:40	Session chair: Agisilaos Kourmatzis	Session chair: Robert Gordon
	Joint OH-CH PLIF imaging in highly-sheared	Classification of MILD and autoignitive ethylene
	turbulent premixed propane flames	flames diluted with N2, O2 and CO2
16:00		Jordan Kildare ACS-048
16:00	Mohammed KanjACS-022PLIF Imaging of a Low Emission Reverse-CrossFlow Combustor	Jordan Kildare ACS-048 Numerical Modelling of Mild Combustion at Elevated Pressures
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16:00 16:20	Mohammed KanjACS-022PLIF Imaging of a Low Emission Reverse-CrossFlow CombustorShreshtha Kumar GuptaACS-042Experimental Investigation of Soot Evolution in Turbulent Non-premixed Bluff-body Ethylene/Nitrogen Flames	Jordan KildareACS-048Numerical Modelling of Mild Combustion at Elevated PressuresDouglas ProudDouglas ProudACS-049Influence of steam dilution on flame structure and soot formation of hot, diluted ethylene flames
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Friday, 6th December			
Start	Room S111	Room S112	
08:40	Session chair: Assaad Masri		
	Plenary: Flammability of Hydrogen Sulfide (H2S) and into Reaction Mechanisms – Room S112	Carbon Disulfide (CS2) – Review of Present Insights	
	Bogdan Dlugogorski	ACS-045	
09:40	Session chair: Vincent Wheatley	Session chair: Vasily Novozhilov	
	Invited: Supersonic Ethylene Combustion – Revamping the Cavity	Invited: What is important for accurate soot predictions?	
	Anand Veeraragavan ACS-019	Heinz Pitsch ACS-052	
10:20	Morning Tea – Room S326		
11:00	Session chair: Aleš Srna	Session chair: Andrew Wandel	
	Effect of intake air e-boosting on external EGR- diluted diesel combustion	LES/PDF Modelling of Turbulent Premixed Flames in the Flamelet Regime Using an MMC – Shadow Position Mixing Model	
	Xinyu Liu ACS-010	Yashar Shoraka ACS-020	
11:20	Multiple injections of iso-octane and n-heptane: Part-I	Grid Sensitivity Study for Air Blast Atomisation Using an LES-PDF form of ELSA Model	
	Sensen Xing ACS-038	Fakhar Abbas ACS-025	
11:40	Multiple injections of iso-octane and n-heptane: Part-II	Particle-intense MMC-LES simulations of mixed- mode turbulent piloted jet flame	
	Haijun Mo ACS-039	Saeed Aldawsari ACS-026	
12:00	A-priori evaluation of low-dimensional manifold combustion models under diesel engine conditions	Sound generation by turbulent premixed flames with reduced chemistry	
	Deepak Dalakoti ACS-041	Davy Brouzet ACS-033	
12:20	Effect of inlet manifold water injection on diesel engine performance and emissions	CFD modelling of DC arc plasma system for application in cleaner chemical production	
	Sujit Kafle ACS-043	Jyothikrishna Perambadur ACS-034	
12:40	The Effect of the Reticulated Polyurethane Foam on the Suppression of Flame Propagation of the CH4-air mixtures	Computational Fluid Dynamics Modelling of Rotating Detonation Engines	
	Chenghu Zhang ACS-024	lan Shaw ACS-057	
13:00	Lunch – R	oom S326	