

1700 - 1900	Registration and Welcoming Reception	Wednesday 2nd December, Hawken Engineering Building, Bldg 50, The University of Queensland					
1900 - 2000	Combustion Institute ANZ Section General Meeting, Hawken Engineering Building, Rm. S201	Thursday 3rd December, St. Leo's College, College Rd., The University of Queensland					
0800 0900	Registration						
0840 0900	Welcome addresses (The Boardroom)						
0900 - 1000	Bilger Lecture (The Boardroom): Large-Eddy Simulation for Combustion Systems: Modeling Approaches For Partially Premixed Flows, E. Knudsen, H. Pitsch (Chair: Alex Klimenko)						
1000 - 1030	Morning tea						
	Turbulent combustion (The Boardroom) Chair: Robert Dibble	Chemical kinetics (The Leonian room) Chair: Eric Kennedy	Heterogeneous flows & Acoustics (The Dining room) Chair: Cristian Birzer				
1030, 15 min + 5 min questions and change-over	Investigation of the MILD combustion regimes via Principal Component Analysis, A. Parente, J.C. Sutherland, B.B. Dally, L. Tagnani, P.J. Smith LCV Fuels Emissions of Turbulent Nonpremixed Jet Flames Under MILD Combustion Conditions, A.F. Colorado, P.R. Medwell, B.B. Dally Application of Hybrid Binomial Langevin-Multiple Mapping Conditioning Method to Reacting Jet Flow, Andrew P. Wandel, R. Peter Lindstedt High-Speed LIF-OH Imaging in the Stabilization Region of Lifted Flames, W. O'Loughlin, M. Juddoo, A.R. Masri An Analysis of the Flame Surface Density Transport Equation Using Direct Numerical Simulation of a Methane-Air Jet Flame, E.R. Hawkes, R. Sankaran, O. Colin, J.H. Chen Investigation of the Mixing Patterns inside a MILD Combustion Furnace based on CFD Modelling, G. G. Szegő, B. B. Dally, F. C. Christo	Investigation of Carbon Combustion at Low Temperature, D.L. Battye, P.J. Ashman Dissociative Adsorption of Molecular Oxygen on the Cu(001) Surface: A Density Functional Theory Study, I.A. Suleiman, M.W. Radny, M.J. Gladys, P.V. Smith, J.C. Mackie, E.M. Kennedy, B.Z. Dlugogorski Low Temperature Oxidation Reaction of Linseed Oil and its Active Components, Juita, Bogdan Z. Dlugogorski, Eric M. Kennedy, John C. Mackie Formation of Toxic Species in Thermal Decomposition of Captain, K. Chen, D. Wojciech, J.C. Mackie, E.M. Kennedy, B.Z. Dlugogorski Rate Constants for Hydrogen Abstraction Reactions by the Hydroperoxyl Radical from Methanol, Ethanol, Acetaldehyde, Toluene and Phenol, M. Altarawneh, B.Z. Dlugogorski, E. M. Kennedy, J.C. Mackie	Use of MDIH for the measurement of diesel droplet evaporation rates, D. Nguyen D. Honnery, J. Soria Calculations of Flame Structure Ignited on Catalytic Surface, J. Badra, Ethanol Spray Flames, J.D. Gounder, A.R. Masri, and R.W. Bilger Flame Propagation over a Porous Media Wetted with Flammable Liquid in a Channel of Finite Cross Section, Jafar Zanganeh, Behdad Moghaderi	Characterisation of Diesel Sprays Impinging on a Flat Plate, M. Sofer, J. Kostas, D. Honnery, J. Soria A Numerical Study of Sound Generation by Premixed Flames, M. Talei, M. J. Brear, E. R. Hawkes, F. Nicoud, B. Cuenot			
1230 - 1400	Lunch						

1400 - 1500	Invited Lecture [The Boardroom]: The Status of Clean Coal Technologies, <i>K. Thambimuthu</i> (Chair: Victor Rudolph)		
1500 - 1530	Afternoon tea		
	Emissions of pollutants [The Boardroom] Chair: Bassam Daily	Chemical kinetics [The Leonian room] Chair: John Mackie	Hypersonic combustion [The Dining room] Chair: Christian Mundt
1530 - 1700, 15 min + 5 min questions and change-over	<p>A Survey of Experimental HCCI Research at U.C. Berkeley, <i>S. Saxena, J.-Y.Chen, R.W. Dibble</i></p> <p>Investigation of High Efficiency, Zero Emissions H₂-O₂-Ar Internal Combustion Engine, <i>V. H. Rapp, Nick Killingsworth, Salvador Aceves, J.Y. Chen, Robert Dibble</i></p> <p>The Role of Homogeneous Combustion Catalysts in Diesel Combustion in Compression Ignition Engines, <i>Mingming Zhu, Yu Ma, Dongke Zhang</i></p>	<p>Computational Study of the Reaction SH + HO₂, <i>R. C. Zhou, K. Sendt, B.S. Haynes</i></p> <p>Pyrolysis and Decomposition Pathways of Alphacypermethrin under Non-Oxidative Conditions, <i>S.L.Summoogum, J.C. Mackie, E.M. Kennedy and B.Z. Dlugogorski</i></p> <p>Kinetic Modelling of the Combined Effect of Nitric Oxide and Higher Hydrocarbons in Methane Oxidation, <i>Y.L. Chan, J.H. Bromley, A.A. Konnov, D.K. Zhang</i></p>	<p>Influence of radiation on wall heat flux in a rocket combustion chamber for H₂-O₂ and CH₄-O₂ systems, <i>Andreas Theilmann, Christian Mundt</i></p> <p>Hypersonic Vehicle Control Using External Burning , <i>C.J. Doolan, V. Wheatley</i></p> <p>1D Supersonic Combustor Modelling, <i>D. Kitche, Ch. Mundt</i></p> <p>Nitrous Oxide Decomposition for Supersonic Combustion Experiments in the USQ Ludwig Tube Facility, <i>D.R. Buttsworth</i></p>
1900 - 2200	Conference Banquet		

Friday 4th December, St. Leo's College, College Rd., The University of Queensland

<p>0900 - 1000</p>	<p>Invited Review (The Boardroom): From Detailed Kinetics to Simplified Kinetics – Hierarchical Models for Combustion Chemistry, V. Bykov, U. Maas (Chair: Brian Haynes)</p>		
<p>1000 - 1030</p>	<p>Morning tea</p>		
<p>1030 - 1230,</p> <p>15 min + 5 min questions and change-over</p>	<p>Turbulent combustion (The Boardroom)</p> <p>Chair: Andrew Wandel</p> <p>Temperature imaging of nonpremixed flames using non-linear regime two-line atomic fluorescence (NTLAF), Q.N. Chan, P.R. Medwell, P.A.M. Kalt, Z.T. Alwahabi, B.B. Dally, G.J. Nathan</p> <p>The Spatial Structure of Turbulent Premixed Flames Issuing in a Hot Coflow, M. Dunn, R.S. Barlow, A.R. Masri, R.W. Bilger</p>	<p>Coal and char & Emissions of Pollutants (The Leonian room)</p> <p>Chair: Bo Feng</p> <p>Study of released atomic potassium and sodium of Loy Yang coal and pine wood in a laminar pre-mixed methane flame, L.J. Hsu, Z.T. Alwahabi, G.J. Nathan, Z.S. Li, M. Aldénd</p> <p>Kinetics of sodium release from a single brown coal particle burning in a flat flame, Philip J. van Eyk, Peter J. Ashman, Zeyad T. Alwahabi, Graham J. Nathan</p> <p>CFD Simulation of Brown Coal Combustion in a Tangentially Fired Furnace, Z.F. Tian, P.J. Witt, M.P. Schwarz, W. Yang</p> <p>PDF Calculations of Piloted Non-Premixed Flames with Various Levels of Oxygenation, M. Juddoo, A.R. Masri, S.B. Pope</p> <p>Extinction and Re-ignition in Piloted Non-Premixed Flames as Observed with High-Speed LIF-OH Imaging, M. Juddoo, W. O'Loughlin, A.R. Masri, R.W. Bilger</p> <p>Numerical Simulations of Premixed MILD Combustion in a Recuperative Furnace, Pengfei Liu, Jianchun Ma</p> <p>Two-Dimensional Approximations to the Flame Surface Density and Curvature , E.R. Hawkes, D. Veynante, J.H. Chen</p>	<p>Heterogeneous flows & Acoustics (The Dining room)</p> <p>Chair: Damon Honney</p> <p>Dynamic response of a ducted laminar premixed flame, part I: low amplitude forcing, N. Karimi, M.J. Brear, S. H. Jin, J. P. Monty</p> <p>Dynamic response of a ducted laminar premixed flame, part II: higher amplitude forcing, N. Karimi, M.J. Brear, S. H. Jin, J. P. Monty</p> <p>Toward Optimising Instantaneous Particle Clusters In Pulverised Fuel Combustion Systems, C.H. Birzer, P.A.M. Kalt, G.J. Nathan</p> <p>Non-intrusive Water Vapour Absorption Measurements in a Simulated Helicopter Exhaust, S. O'Byrne, L. Huynh, S. M. Wittig and N. S. A. Smith</p> <p>Oxy-fuel combustion heat transfer characteristics, Yinghui Liu, Sameer Khare, Terry Wall</p> <p>Quantitative Soot Measurement for Fuels with Different Cetane Number at Low-Temperature-Combustion Diesel Conditions, S. Koek, L.M. Pickett</p> <p>Influence of droplet size on the release of atomic sodium during the combustion of black liquor, W.L. Saw, G.J. Nathan, P.J. Asman, M. Hupa</p>
<p>1230 - 1400</p>	<p>Lunch</p>		

	1400 - 1500	Invited Review (The Boardroom); Progress and Challenges in Experimental Investigations of Realistic Turbulent Reacting Flows, G.J. Nathan, Z.T. Alwahabi, P.R. Medwell, Q.N. Chan (Chair: Assaad Masri)	
1500 - 1530		Afternoon tea	
	Turbulent combustion (The Boardroom) Chair: Ewart Hawkes	Hypersonic combustion (The Leonian room) Chair: Russell Boyce	Heterogeneous flows (The Dining room) Chair: Peter Ashman
1530 - 1630, 15 min + 5 min questions and change-over	Dependence of MILD Combustion on Fuel-Air Injection Pattern within a Recuperative Furnace, R.A. Craig, B.B. Dally, J. Mi A Sparse-Lagrangian Simulation with Density Coupling by Dynamic Matching, Yipeng Ge, M.J. Cleary, A.Y. Klimenko Comparison of Water and Acetone as Solvent for Two-line Atomic Fluorescence (TLAF), Q.N. Chan, P.R. Medwell, P.A.M. Kalt, Z.T. Alwahabi, B.B. Dally, G.J. Nathan	Premature Ignition in Scramjets with Intake Injection: A Preliminary Laminar Mixing Layer Simulation, D.R. Buttsworth, P.A. Jacobs Multi-Objective Design Optimisation of Inlet and Combustor for Axisymmetric Scramjets, H. Ogawa, R.R. Boyce, A. Isaacs, T. Roy	Surface temperature measurement of a burning black liquor droplet using two-colour optical pyrometry, W.L. Saw, G.J. Nathan, P.J. Ashman, Z.T. Alwahabi, M. Hupa Droplet Shedding from the Boundary Layer of Spray Flows in Pipes, W. O'Loughlin, L. M. De Fina, A.R. Masri Gasification of Grape Marc in a Circulating Fluidised Bed, Philip J. van Eyk, Richard A. Mulholland, Peter J. Ashman
1630	Farewell drinks		