

Australian Combustion Symposium: Paper List

| Paper ID | Title | Author 1 | Author 2 | Author 3 | Author 4 | Author 5 | Author 6 | Author 7 | Author 8 |
|----------|--|----------------------|-------------------------|----------------------|-------------------|---------------------|-----------------|---------------|----------|
| ACS-001 | Soot particle structure variation associated with in-cylinder gas pressure/temperature in a small-bore diesel engine | Lingzhe Rao | Yilong Zhang | Sanghoon Kook | | | | | |
| ACS-002 | In-cylinder and exhaust soot morphology in an optical spark ignition direct injection (SID) petrol engine | Dongchan Kim | Sanghoon Kook | | | | | | |
| ACS-003 | Invited: Recent Progress in the Control and Understanding of Turbulent Spray Formation | Agisilaos Kourmatzis | | | | | | | |
| ACS-004 | Fuel reactivity effects on premixed combustion in a diesel engine | Yilong Zhang | Siyuan Meng | Harsh Goyal | Sanghoon Kook | Chol-Bum Kweon | Kenneth Kim | | |
| ACS-005 | One-Step Chemical Kinetic Scheme for Propane in High Temperature Applications | Raoul Mazumdar | Hideaki Ogawa | Adrian Pudsey | Mathew Bricalli | | | | |
| ACS-006 | Comparative study of spray characteristics of high alcohol-diesel blends | Sattar Algayyim | Andrew Wandel | | | | | | |
| ACS-007 | Invited: Combustion strategies for multi-fuel capable compression ignition engines | Sanghoon Kook | Harsh Goyal | Yilong Zhang | | | | | |
| ACS-008 | Flame image velocimetry for in-flame flow field analysis in an optically accessible diesel engine | Jinxin Yang | Lingzhe Rao | Yilong Zhang | Charitha de Silva | Sanghoon Kook | | | |
| ACS-009 | Image selection method for combustion analysis in an optical diesel engine | Siyuan Meng | Yilong Zhang | Sanghoon Kook | | | | | |
| ACS-010 | Effect of intake air e-boosting on external EGR-diluted diesel combustion | Xinyu Liu | Sanghoon Kook | | | | | | |
| ACS-011 | Initial Characterisation of a hybrid air-blast and electrostatic atomizer for spray combustion | Tushar Ahmed | Agisilaos Kourmatzis | Assaad Masri | | | | | |
| ACS-012 | Experimental research on NO emission of a coaxial jet triple channel nozzle with coal preheating combustion technology | Ziqu Ouyang | Wen Liu | Yongjie Na | Xiaoyang Cao | Shujun Zhu | | | |
| ACS-013 | Measurement of wave speeds at the liquid-air interface of an air-blast atomized biodiesel spray | Aaron Gutteridge | Gajendra Singh | Agisilaos Kourmatzis | Assaad Masri | | | | |
| ACS-014 | Effects of Inlet Oxygen Concentration on Direct Sulfation for Oxy-Fuel Circulating Fluidized Bed Combustion | Wei Li | Shiyuan Li | | | | | | |
| ACS-015 | Comparison of real-time NOx emission measurements from two heavy-duty diesel engines | G M Hasan Shahariar | Thuy Chu-Van | Timothy Bodisco | Mojibul Sajjad | Kabir Adewale Suara | Zoran Ristovski | Richard Brown | |
| ACS-016 | A Parametric Study on Fluidisation Characteristics and Product Yields in Bubbling Fluidised Bed Reactor | Joshua Clissold | Salman Jalalifar | Fatemah Salehi | Rouzbeh Abbassi | | | | |
| ACS-017 | Numerical Investigation of Tandem Cavity Configurations with Supersonic Ethylene Combustion | Sarah Mecklem | Will Landsberg | Anand Veeraragavan | | | | | |
| ACS-018 | Invited: The Dynamics of Supersonic Turbulent Combustion | Vincent Wheatley | Nicholas Gibbons | | | | | | |
| ACS-019 | Invited: Supersonic Ethylene Combustion – Revamping the Cavity | Anand Veeraragavan | Will Landsberg | | | | | | |
| ACS-020 | LES/PDF Modelling of Turbulent Premixed Flames in the Flamelet Regime Using an MMC – Shadow Position Mixing Model | Yashar Shoraka | Sebastian Galindo-Lopez | Matthew Cleary | Assaad Masri | Alexander Klimenko | | | |
| ACS-021 | Numerical Analysis of Point Source Fire on Fire-Wind Enhancement | Esmaeel Eftekharian | Fatemah Salehi | Yaping He | Kenny Kwok | | | | |
| ACS-022 | Joint OH-CH PLIF imaging in highly-sheared turbulent premixed propane flames | Mohammed Kanj | Matthew Dunn | Mrinal Juddoo | Scott Steinmetz | Guoqing Wang | Assaad Masri | | |

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|----------|---|--------------------------|-------------------------|-----------------------|---------------------------|---------------|---------------|-----------|------------|
| ACS-023 | Ignition Waves in Compartment Fire Flashover | Vasily Novozhilov | | | | | | | |
| ACS-024 | The Effect of the Reticulated Polyurethane Foam on the Suppression of Flame Propagation of the CH ₄ -air mixtures | Chenghu Zhang | Lijia Fan | Yujie Yang | Jihong Wei | Yufei Tan | | | |
| ACS-025 | Grid Sensitivity Study for Air Blast Atomisation Using an LES-PDF form of ELSA Model | Fakhar Abbas | Giovanni Tretola | Matthew Cleary | Salvador Navarro-Martinez | Assaad Masri | | | |
| ACS-026 | Particle-intense MMC-LES simulations of mixed-mode turbulent piloted jet flame | Saeed Aldawsari | Sebastian Galindo-Lopez | Matthew Cleary | Assaad Masri | | | | |
| ACS-027 | Algebraic Flame Surface Density Model Development using Gene-Expression Programming | Man-Ching Ma | Mohsen Talei | Richard Sandberg | | | | | |
| ACS-028 | Some Recent Results on Hydrogen Oxidation in a Flow Reactor | Zhewen Lu | Yi Yang | Joshua Lacey | Michael Brear | | | | |
| ACS-029 | An Update on the Rate Constant of H + O ₂ (+M) → HO ₂ (+M), M = N ₂ using H ₂ /O ₂ /NO _x Reaction in a Flow Reactor | Zhewen Lu | Yi Yang | Joshua Lacey | Michael Brear | | | | |
| ACS-030 | Fast Pyrolysis of Lignin at Low Temperatures: An In-depth Understanding of the Char Structural Changes | Yee Wen Chua | Yun Yu | Hongwei Wu | | | | | |
| ACS-031 | Investigation of flammability factor in CNG jets using LES | Mohammad Reza Yosri | Joshua Lacey | Mohsen Talei | Robert Gordon | Michael Brear | | | |
| ACS-032 | Chemistry reduction of hydrogen-methane mixtures with a focus on the laminar flame speed | Jen Zen Ho | Mohsen Talei | Robert Gordon | Michael Brear | | | | |
| ACS-033 | Sound generation by turbulent premixed flames with reduced chemistry | Davy Brouzet | Mohsen Talei | Michael Brear | | | | | |
| ACS-034 | CFD modelling of DC arc plasma system for application in cleaner chemical production | Jyothikrishna Perambadur | Alexander Klimenko | Pradeep Shukla | Victor Rudolph | | | | |
| ACS-035 | Preliminary Observations of Turbulent Flames in a Confined and Pressurised Jet in Hot and Vitiated Coflow Burner | Michael Evans | Paul Medwell | Shaun Chan | | | | | |
| ACS-036 | Invited: A Physical Understanding of how Multiple Mapping Conditioning Works | Andrew Wandel | | | | | | | |
| ACS-037 | Numerical study of the flame structure and swirling motion of small-scale fire whirls | Xiang Fang | Anthony Yuen | Guan Yeoh | Sherman Cheung | | | | |
| ACS-038 | Multiple injections of iso-octane and n-heptane: Part-I | Sensen Xing | Guanxiong Zhai | Aleš Srna | Haijun Mo | Paul Medwell | Sanghoon Kook | Guan Yeoh | Shaun Chan |
| ACS-039 | Multiple injections of iso-octane and n-heptane: Part-II | Haijun Mo | Sensen Xing | Guanxiong Zhai | Aleš Srna | Paul Medwell | Sanghoon Kook | Guan Yeoh | Shaun Chan |
| ACS-040 | High-order accurate hybrid LES/PDF simulations of an experimental H ₂ /N ₂ lifted jet flame | Harshad Ranadive | Armin Wehrfritz | Evatt Hawkes | | | | | |
| ACS-041 | A-priori evaluation of low-dimensional manifold combustion models under diesel engine conditions | Deepak Dalakoti | Armin Wehrfritz | Bruno Savard | Evatt Hawkes | | | | |
| ACS-042 | PLIF Imaging of a Low Emission Reverse-Cross Flow Combustor | Shreshtha Kumar Gupta | Santanu Pramanik | Vaibhav Kumar Arghode | R. V. Ravikrishna | Robert Gordon | | | |
| ACS-043 | Effect of inlet manifold water injection on diesel engine performance and emissions | Sujit Kafle | Andrew Wandel | Saddam Al-Lwayzy | | | | | |
| ACS-044 | Experimental and numerical study of ammonia oxidation and pyrolysis in a Jet Stirred Flow Reactor. Evaluation of wall surface reactions effects | Pino Sabia | Maria Virginia Manna | Raffaele Ragucci | Mara de Joannon | | | | |

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| ACS-045 | Plenary: Flammability of Hydrogen Sulfide (H ₂ S) and Carbon Disulfide (CS ₂) – Review of Present Insights into Reaction Mechanisms | Bogdan Dlugogorski | Zhe Zeng | Ibukun Oluwoye | Mohammednoor Altarawneh | | | | |
| ACS-046 | Invited: Industrial Gas Turbine Combustor Design: Exhaust CO Emissions | Robert Gordon | | | | | | | |
| ACS-047 | Invited: Sound sources in premixed flames | Mohsen Talei | | | | | | | |
| ACS-048 | Classification of MILD and autoignitive ethylene flames diluted with N ₂ , O ₂ and CO ₂ | Jordan Kildare | Michael Evans | Alfonso Chinnici | Paul Medwell | | | | |
| ACS-049 | Numerical Modelling of Mild Combustion at Elevated Pressures | Douglas Proud | Michael Evans | Paul Medwell | | | | | |
| ACS-050 | Bilger Lecture: Recent developments in turbulent combustion modelling and laser-based experiments and their relevance to practical systems | Epaminondas Mastorakos | | | | | | | |
| ACS-051 | Plenary: Stability of MILD Combustion in temperature tailored reactors - A perspective on thermal conversion of energy carriers | Mara de Joannon | | | | | | | |
| ACS-052 | Invited: What is important for accurate soot predictions? | Heinz Pitsch | | | | | | | |
| ACS-053 | Influence of steam dilution on flame structure and soot formation of hot, diluted ethylene flames | Alfonso Chinnici | Michael Evans | | | | | | |
| ACS-054 | Hybrid solar-combustion processes of renewable fuels | Alfonso Chinnici | Gus Nathan | Bassam Dally | | | | | |
| ACS-055 | Experimental Investigation of Soot Evolution in Turbulent Non-premixed Bluff-body Ethylene/Nitrogen Flames | Amir Rowhani | Zhiwei Sun | Paul Medwell | Gus Nathan | Bassam Dally | | | |
| ACS-056 | An Experimental Study of Laminar Flame Speed of Partially Dissociated NH ₃ and Air Mixtures | Harry Lesmana | Mingming Zhu | Zhezi Zhang | Jian Gao | Junzhi Wu | Dongke Zhang | | |
| ACS-057 | Computational Fluid Dynamics Modelling of Rotating Detonation Engines | Ian Shaw | Michael Evans | Rey Chin | Paul Medwell | | | | |