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## Biography

Damon Honnery is Deputy Dean Operations in the Faculty of Engineering, a Professor in the Department of Mechanical and Aerospace Engineering, and he jointly directs the Laboratory for Turbulence Research in Aerospace and Combustion. He obtained his undergraduate degree in mechanical engineering from the University of Sydney in 1985. Following this he was employed as a research fellow at the University of Sydney during which he obtained a MEngSc in 1987. In 1987 he was awarded a cadet research scientist position in the Aeronautical Research Laboratory (ARL-DSTO, now DSTG) during which he obtained his PhD in gas turbine related research from the University of Sydney in 1992. This was followed by an appointment as a research scientist at ARL in the Propulsion Branch where he undertook research on soot formation in gas turbines systems. In 1993 he took up a lectureship at Monash University at the Caulfield Campus, he then moved to the Clayton Campus in 1999 where he established the Monash Aerospace Engineering Degree. With Julio Soria he jointly established the Laboratory for Turbulence Research in Aerospace and Combustion in 1999. In the Department of Mechanical and Aerospace Engineering he has been Aerospace Course Director, Director of Undergraduate Affairs, Director of Research, and Deputy Head. In the Faculty of Engineering he has played a leading role in the development of the Monash Makerspace and was Interim Joint Director of the Woodside-Monash Energy Partnership. His research interests range from spray systems, particle flows, pollutant formation, renewable energy and climate change mitigation.

## Qualifications

### Research output

#### **Life-cycle greenhouse gas emissions and net energy assessment of large-scale hydrogen production via electrolysis and solar PV**

Palmer, G., Roberts, A., Hoadley, A., Dargaville, R. & Honnery, D., 19 Aug 2021, In: Energy and Environmental Science. 14, 10, p. 5113-5131 19 p.

#### **Combining modelling with advanced experimental techniques to optimize formulation and nozzle design for low GWP pMDIs**

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#### **Using the Plateau-Rayleigh Instability to Produce HFA152a Droplets**

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#### **Increasing the fine particle fraction of pressurised metered dose inhaler solutions with novel actuator shapes**

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#### **The generation of screech tones by shock leakage**

Edgington-Mitchell, D., Weightman, J., Lock, S., Kirby, R., Nair, V., Soria, J. & Honnery, D., 15 Dec 2020, In: Journal of Fluid Mechanics. 908, 33 p., 908A46.

#### **Influence of pressure transducer protrusion depth on pressure measurements of shock waves in shock tubes**

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#### **Acoustic pMDI Patient Guidance Device: Impact on Drug Delivery**

Sanders, M., Duke, D. J. & Honnery, D., 2020, *Respiratory Drug Delivery 2020*. Vol. 2. 7 p.

#### **Evaluation of shock dividers using numerical and experimental methods**

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**Multimodal X-ray and laser diagnostics for pressurized metered dose inhaler sprays**

Duke, D. J., Mason-Smith, N., Kastengren, A. L., Ilavsky, J., Young, P., Traini, D., Lewis, D., Edgington-Mitchell, D. & Honnery, D., 2020, *ICLASS 2018 - 14th International Conference on Liquid Atomization and Spray Systems*.

**Redistribution of transient shock waves using shock dividers**

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**Understanding flow rate influence on clip-tone guided inhaler delivery**

Sanders, M., Johnson, R., Young, P., Duke, D. J., Honnery, D. & Tran, C., 2020, p. A20-A21. 2 p.

**X-ray and optical assessment of alternative propellant p-152A in pMDI sprays**

Duke, D. J., Sforzo, B. A., Kastengren, A. L., Young, P. M. & Honnery, D., 2020, p. A8-A8. 1 p.

**Effect of turbulence on drop breakup in counter air flow**

Zhao, H., Nguyen, D., Duke, D. J., Edgington-Mitchell, D., Soria, J., Liu, H. F. & Honnery, D., 1 Nov 2019, In: *International Journal of Multiphase Flow*. 120, 10 p., 103108.

**The influence of cylindrical spray chamber geometry on the evolution of high pressure diesel sprays**

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**Energy efficiency or conservation for mitigating climate change?**

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**Drug distribution transients in solution and suspension-based pressurised metered dose inhaler sprays**

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**Advanced numerical analyses on thermal, chemical and dilution effects of water addition on diesel engine performance and emissions utilizing artificial inert species**

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**Impact of coherence decay on wavepacket models for broadband shock-associated noise in supersonic jets**

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**Nozzle external geometry as a boundary condition for the azimuthal mode selection in an impinging underexpanded jet**

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#### **Bioenergy with carbon capture and storage in a future world**

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#### **Global renewable energy resources and use in 2050**

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#### **Plateau-Rayleigh breakup of supercooled refrigerant droplets**

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#### **Signatures of shear-layer unsteadiness in proper orthogonal decomposition**

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#### **Coupling modes of an underexpanded twin axisymmetric jet**

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#### **Energy policy and economics under climate change**

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**Synchrotron x-ray measurements of pMDI sprays: enabling improved nozzle design**

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**The effect of jet exit pressure ratio on a jet in cross flow**

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**Three futures: Nightmare, diversion, vision**

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**State of charge estimation for battery packs using H-infinity observer in underground mine electric vehicles**

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**Multi-zone model for diesel engine simulation based on chemical kinetics mechanism**

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**Fuzzy parameter tuning sliding mode control for longitudinal motion of underground mining electric vehicles based on a single wheel model**

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**Review: Assessing the climate mitigation potential of biomass**

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**Engine tail pipe particulate emissions and fault detection using an ion current sensor**

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**High-speed x-ray imaging of pressurized metered-dose inhaler sprays with variable ethanol content**

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**Improved predictions of broadband shock associated noise in supersonic jets**

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**Novel method for investigating broadband velocity fluctuations in axisymmetric screeching jets**

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**On the effects of nozzle lip thickness on the azimuthal mode selection of a supersonic impinging flow**

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**Particle image velocimetry analysis of the twin supersonic jet structure and standing-wave**

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**Ultra high speed investigation of gaseous jet injected by a single-hole injector and proposing of an analytical method for pressure loss prediction during transient injection**

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