

PROFESSOR ANDREW J YULE: SELECTED PUBLICATIONS

2011-2014 List in Preparation **Pre-1990 Publications:** please see separate list

2006-2010

High pressure spray cooling of a moving surface. Trans. ASME, J Heat Transfer, Vol. 128, No. 8, pp 752-760, 2006.(with Nasr, G.G., Sharief, R.A. and Rho, S)

Novel developments in actuator designs for flashing household aerosols. Proc ILASS-Europe 2007, Mugla Turkey, September 2007 (with R.A. Sharief *, H.M. Abduljalil, G. Eales, and K. Laidler).

The application of fine sprays for chemical, biological, and radiological or nuclear (CBRN) decontamination. Proc ILASS-Europe 2007, Mugla Turkey, September 2007 (with G.G.Nasr *, S.E.Lloyd and A. Whitehead).

The characterisation of the spray from a new fine spray spill return swirl atomiser. Proc ILASS-Europe 2007, Mugla Turkey, September 2007 (with G.G.Nasr * and S.E.Lloyd).

CFD predictions and comparisons with experimental data for a conducted hollow-cone spray. Proc ILASS-Europe 2007, Mugla Turkey, September 2007 (with H.M. Abduljalil*, and R.A. Sharief).

Utilisation and performance analysis of fine sprays for disinfection within healthcare. Proc ILASS-Europe 2007, Mugla Turkey, September 2007 (with G.G.Nasr *, S.E.Lloyd and A. Whitehead).

Using PDA data to validate the CFD models of three airblast atomizer designs. Proc ILASS-Europe 2007, Mugla Turkey, 2007 (with M. Burby *, G.G. Nasr and A. Wheatley).

The design of emergency safety shower heads to comply with the proposed EU standard. Proc. 21st ILASS-Europe, Mugla Turkey, 2007 (with M. Burby *, G.G. Nasr, and T. Hughes).

Steady state high-pressure spray cooling of high-temperature steel surfaces. Atomization and Sprays, pp171-191, Vol 17, 2007 (with Sharief⁺, R.A., and Nasr, G.G.).

Characteristics of water droplet impaction behaviour on a polished steel heated surface: Part I. Atomization and Sprays, pp 659-681, Vol 17, 2007 (with Akhtar⁺, S.W. and Nasr, G.G.).

Characteristics of water droplet impaction behaviour on a polished steel heated surface: Part II. Atomization and Sprays, pp 683-729, Vol 17, 2007 (with Akhtar⁺, S.W. and Nasr, G.G.).

Understanding the cleaning performance of high pressure sprays at long stand-off distances. Proc ILASS Europe 2008, Como Italy, 2008 (with G.G.Nasr *, M. Burby, M. Zekari, D. Woodall and J. Clark)

The utilisation of fine sprays for chemical, biological, and radiological or nuclear (CBRN) decontamination [International Journal of Multiphysics](#), Volume 3, Number 1, pp. 61-72, January 2009, (with Nasr, G.G. and Hughes, T.).

Cleaning performance of high pressure sprays at long stand-off distances. Proc ICLASS 2009, Vail, Colorado, July 2009 (with G.G. Nasr , D Woodall and J.Clark).

A new fine spray spill-return swirl atomizer. Submitted to J. Mechanical Eng Science, Proceedings Inst. Mech. Engineers Part C, (with G.G.Nasr *, J.A. Stewart and A. Whitehead), Nov 2009.

2001-2005

INDUSTRIAL SPRAYS AND ATOMIZATION. Springer Verlag London (book 500 pages), ISBN 1852334606, July 2002 (with Nasr, G.G. and Bendig, L.).

A novel spray confinement technique for medical sprays: advanced processing and correlations with TIMP measurements. Proc ILASS-Europe 2002, Univ. Zaragoza, Sept 2002 (with Abduljalil, H.A. & Al-Suleimani, Y.)

A CFD prediction of wave development and droplet production on surface under ultrasonic excitation. Proc ILASS-Europe 2002, Univ. Zaragoza, September 2002 (with Al-Suleimani, Y.)

An alternative spray production method for pressurized metered dose inhaler. Proc ILASS-Europe 2002, Univ. Zaragoza, September 2002 (with Al-Suleimani, Y.)

A novel spray confinement technique for medical sprays: detailed investigative measurements of six geometrical configurations. Proc ILASS-Europe 2002, Univ. Zaragoza, September 2002 (with Abduljalil, H.A. and Al-Suleimani, Y.)

Transient high pressure spray cooling of moving high temperature surfaces. Paper 8-11, Proc ICLASS 2003, Univ. Naples, Sorrento, July 2003 (with Nasr, G.G., Sharief, R.A. and Rho, S.)

Novel developments in actuator designs for flashing household aerosols. Paper 16-13, Proc ICLASS 2003, Univ. Naples, Sorrento, July 2003 (with Sharief, R.A. and Laidler, K)

The household aerosol: present and future of the world's greatest market for spray technology. Invited Plenary Paper, Proc ICLASS 2003, Univ. Naples, Sorrento, July 2003

Electrohydrodynamics of charge injection atomization: regimes and fundamental limits. Atomization and Sprays, 13, 2, 173-190, 2003. (with Shrimpton, JS).

CFD predictions of three overlapping sprays discharged in hot turbulent flows. Proceedings of ILASS-Europe-2004, University of Nottingham, September 2004. (with Nhumaio, G.C.S., and Watkins, A.P.)

Experiments and simulations of impinging sprays. Proceedings of ILASS-2004, University of Nottingham, September 2004. (with Nhumaio, G.C.S., and Watkins, A.P.)

Detailed study of confined spray characteristics with variable coflowing air velocities. Proc ILASS-Europe-2004, University of Nottingham, September 2004. (with Abduljalil, H.M., Eales, G. and Sharief, R.A.)

Advanced developments in actuator designs for aerosols. Paper 96, Proceedings of ILASS-Europe-2004, University of Nottingham, September 2004. (with Sharief, R.A., Eales, G. and Laidler, K.)

A comparison of analytically and experimentally determined wave parameters on the liquid interface of the aircore of a swirl atomizer. Proc ILASS-Europe-2004, Univ Nottingham, 2004. (with Chinn, J.J. & Cooper, D.)

Examination of primary droplet generation and atomization performance in pneumatic atomizers. P 92, Proc ILASS-Europe'04, Univ Nottingham, 2004 (with Eales, G.C., Sharief, R.A., Abduljalil, H., Cole, N. and Parsons, G.)

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Spray characterisation and performance tests for an ultrasonic atomizer in the decontamination Process. Proc ILASS Europe 2005, Orleans, (with Burby, M., Nasr, G.G., and Hughes, T.), 2005.

Electrostatic effects on agricultural air-atomized sprays and deposition. Part I: an experimental study. Atomization and Sprays, pp 603-628, Vol 15, 2005. (with Jahannama, M.R. and Watkins, A.P.)

Electrostatic effects on agricultural air-atomized sprays and deposition. Part II: a computational study. Atomization and Sprays, pp 629-660, Vol 15, 2005. (with Jahannama, M.R. and Watkins, A.P.)

1996-2000

The effect of boundary conditions on the downstream penetration of pulsed sprays after impaction on a flat surface. Proc. of Inst. Mech. Engineers, J. Automobile Eng., 210, pp249-260, 1996. (with Mirza, M.R.).

Electrostatic atomization of insulating oils and the associated charge injection mechanism. J. Institute of Physics, Conf. Series, 143, pp205-210, 1996. (with Hu[†], D., Balachandran, W., Shrimpton, J.S. and Watkins, A.P.).

Combustion of electrostatically atomized hydrocarbon sprays and the effect of applied electric fields. Proc. Joint Meeting of Portuguese, British, Spanish and Swedish Sections of Combustion Institute, Funchal, Madeira, pp18.8.1-18.8.4, April 1996. (with Shrimpton[†], J.S, Watkins, A.P. and Balachandran, W.).

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Pressure swirl atomizer internal flow. Proc. ILASS-Europe '97, 96-102 Florence, (ENEL Pisa), July 1997 (with Chinn, J.J.).

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Transient cavitation and separation in a scaled-up model of a VCO orifice. Proc. ILASS-Europe'98, 230-235, UMIST, Manchester, England July 1998 (with Dalli, A. and Yeong, K.B.).

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Investigations of diesel spray structure and impaction. 6th Annual Conference of ILASS-Europe, University of Pisa, 4th-6th July 1990 (with Watkins, A.P., Mirza, R., Khaleghi, H., Aval, S.M. and Wang, D.M.).

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