

24th - 25th September 2015

SPRAY & AEROSOL TECHNOLOGY: AN INTENSIVE OVERVIEW

A 2-Day Course for Industry & Researchers



OUTLINE PROGRAMME

Commence 9.30am Thursday
24th September

Introduction

Properties of Sprays Related
to their Uses

Atomizer Types & Applications

How Sprays are Formed

Liquid Pressure Atomization

Two Fluid Atomization

Rotary Methods

How Sprays are Measured

Practical Sessions

How Sprays are Predicted

Electrical, Ultrasonic, and
Other Atomization Methods

End of Course 4.15pm Friday
25th September



BACKGROUND

During the period 1982 to 2008 Professor Andrew Yule organized more than 20 Short Courses on atomization and spray science and technology. They attracted 600 registrants from industry, universities and research organisations; from UK, mainland Europe and further afield. A new 2-day course has been held three times since 2010 and it addresses the need for a thorough introduction to the subject and an overview of the important aspects such as atomizer design, measurement, and modelling. This revised and updated version of the 2-day course focuses exclusively on material that is of direct use to those in the field of design, development or use of aerosol or spray systems, and to researchers interested in the subject area.

COURSE CONTRIBUTORS

Presenters include.

Professor Andrew Yule (Emeritus Professor
Manchester University): organiser

Professor Wamaveda Balachandran (Brunel
University)

Dr Martin Hyde (TSI Ltd)

Dr Arvind Jasuja (Cranfield University)

They have been involved for many years in the design, application, performance characterisation and prediction of atomization and two phase flow systems and they have worked closely with many major companies.

COURSE STRUCTURE

The course will be held in the Conference Hotel in Central Manchester. The start and finish times of the Course allow for travel to and from Manchester on these days, including via Manchester Airport if travelling from Mainland Europe. The Course contains extensively illustrated lectures interspersed with videos.

Demonstrations of instruments are provided.

Registrants will have opportunities to discuss their areas of interest with the course presenters and the presenters tailor their presentations to optimise their relevance to registrants.

Spray and two-phase flow instrumentation support by TSI Ltd

LEARNING OUTCOMES

The course is aimed at providing each registrant with a concise but wide ranging and up-to-date knowledge and understanding of the science and technology of sprays, their production and their utilisation in several key areas of application. On completion of the course the registrant will be equipped to plan and undertake R&D projects that utilise sprays, and to select atomizers for applications, with an understanding of the changes in design features that affect spray quality and structure.

Websites:

Perdac: www.perdac.com

ILASS-Europe: www.ilasseurope.org

Prof Yule: www.andrewyule.co.uk

TSI Ltd: www.tsi.com

ATOMIZATION & APPLICATIONS

Atomization occurs in many applications and for widely different liquids, from molten metal to perfume. It may use many techniques, from imparting angular momentum to injecting electric charge. Reasons for atomizing vary from the production of flames to the production or coating of foodstuffs. The ideal requirements for a spray may vary from a narrow size range of large high energy droplets to a broad size range of small droplets. In spite of this diversity there is commonality in the design requirements of atomizers, and how their sprays are measured or predicted. The extensive experience of the lecturers brings together these common strands so that the course will be found of value to all with an interest in sprays.



APPLICATION SLIP: AEROSOL & SPRAY TECHNOLOGY: AN INTENSIVE OVERVIEW

We recommend registering via the PERDAC website, www.perdac.com

OR Please return this slip (or fax/email information) as soon as possible to ensure your place

Name/Title Tel no Fax

Appointment/Occupation..... Email

Address

Name/Address for Invoice (if different from above).....

The Course Fee is £890 plus VAT.

Accommodation : Perdac will provide you with a list of recommended hotels.

EARLY BIRD DISCOUNTS; £190: REGISTER BEFORE 11th June 2015

or £120: REGISTER BEFORE 10th August 2015

MULTIPLE BOOKINGS: £150 DISCOUNT FOR 2nd & FURTHER PERSONS FROM ONE FIRM

STUDENT DISCOUNTS: LARGE DISCOUNTS FOR STUDENTS: PLEASE ENQUIRE

Contact Details: Email: courses@perdac.co.uk

Technical Queries to Prof Yule; ayule@perdac.co.uk

Mail Address: Perdac Ltd, Glendon, Castleton Road

Hathersage, Hope Valley S32 1EH, England.

INFORMATION ON THE APPLICATION FORM MAY BE EMAILED TO US IF PREFERRED

BACKGROUND OF REGISTRANTS

Course registrants usually have a background of (or equivalent to) a degree in an applied science subject. However many registrants in areas such as medical devices have benefited from the course in the past. The course requires no prior knowledge of the field of atomization and sprays. High level mathematical content is kept to the absolute minimum required.

INCLUDED IN THE COURSE FEE: Full lecture notes, CD ROM of course content, lunches on Thursday and Friday, refreshments during breaks

THE VENUE

Registration, practical sessions and lectures on both days will be at the Britannia Hotel in Central Manchester.

On receipt of registration, registrants will be emailed Invoices, Joining Instructions, Accommodation and Travel Information; an On-Line payment option is available

ABOUT PERDAC

Perdac is a Manchester University Campus Ventures company formed in 2000, with the mission to organise and present high quality advanced short courses based upon contributions from University and Industrial Scientists and Engineers who are at the highest levels in their fields. Perdac also provides consultancy and R&D in its areas of specialised competence

Drawing courtesy of BAMA London UK

THE ORGANISERS RESERVE THE RIGHT TO MODIFY DETAILS OF THE COURSE ORGANISATION SHOWN IN THIS LEAFLET

