ATOMIZATION FOR METAL POWDERS

28th and 29th September 2023

Atomising Systems Limited

COURSE LECTURERS

John J Dunkley (Chairman), Dirk Aderhold (Technical Director) & Tom Williamson (Research & Development Manager), all of Atomising Systems Ltd.

COURSE STRUCTURE

An intensive course in Manchester (UK) covering: the main methods of atomizing metals; specific requirements for different metals; the design, operation and economics of plant; manufacturing and characterising powder for Additive Manufacturing and other Advanced Manufacturing techniques. Lunches and refreshments, printed notes and a USB, available upon request, containing the course material, are included. Registrants have opportunities to discuss their interests with the course presenters and the presenters tailor their presentations to optimise their relevance to registrants.

ATOMISING SYSTEMS LTD (www.atomising.co.uk)

ASL specialises in the technology of powder or granule production by the atomisation of melts. Established in 1992, the company and its founder have 40 years' experience of the technology and have delivered more than 130 plants for metal powder atomisation in 35 countries in six continents. ASL operates 4 different atomisers for industrial powder production and this experience informs the course presentations.

COURSE CONTENT

Revisions this year reflect growing interests in Additive Manufacturing & other advanced manufacturing & special alloy powders.

1. This course meets the needs of industrialists and researchers involved in the atomization of molten metals for powder production.

2. It emphasises Systems Engineering of entire plants; melting to cooling, drying, dewatering, sieving, conveying, feeding etc.

3. The technology of atomizing of metals and other melts must compete against other methods of production. The factors affecting the relative attractiveness of atomization and alternative methods are discussed.

4. The course emphasizes both current practice and key areas of current interest in these fields, including the main atomization techniques in current use and the requirements of powders for different applications, in particular Additive Manufacturing and other Advanced Manufacturing methods.

5. The principles of atomization and the physical processes involved when atomizing different metals are covered with clarity

6. Manufacturing different metal alloy powders, including Ti alloys, is covered.

The organisers & lecturers reserve the right to modify details of courses if required. Courses run conditionally on meeting minimum delegate numbers.

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BACKGROUND OF THE COURSE

1. To satisfy requests from industry the Lecturers developed this course devoted entirely to Atomizing Metals for Powder Production.

2. The course is held annually with updates each year and has been attended by over 350 specialists from 17 countries and 5 continents.

3. The course provides a cohesive overview suitable for those in both the industrial and research environments. It also acts as a concise up-to-date introduction to those new to the field.

4. It is believed to be unique in the World in its subject matter and content.

The Course Fee is £995

LARGE EARLY BIRD DISCOUNTS: 10% IF YOU REGISTER BEFORE 1st August 2023;

MULTIPLE BOOKINGS: 12.5% DISCOUNT FOR 2nd AND FURTHER PERSONS FROM ONE FIRM;

LINK TO REGISTRATION FORM: https://form.jotform.com/231063781263352

John Dunkley and Andrew Yule published their book "Atomization of Melts" in 1994 (Oxford University Press). Since that time there have been further developments in the field, and ASL has supplied more than 100 plants: this experience adds to the value of the course, beyond the book contents. The book "Industrial Sprays and Atomization" published in 2002 (Springer-Verlag), covers manufacturing techniques, atomizer types, and measurement techniques developed in recent years.

NB: Subject to availability, registrants will be able to purchase copies of the recently reprinted book "Atomization of Melts" during the Course at a discounted price.

THE VENUE

All lectures and lunches will be held in the Graphene Suite of the Manchester Conference Centre, Sackville Street, Manchester M1 3BB. Discounted hotel rates will be offered. Manchester Airport has direct services to most European countries and many long-haul flights throughout the World. The airport is directly linked by train to central Manchester (15 min journey).

FOR FURTHER INFORMATION OR QUERIES, PLEASE CONTACT: la@atomising.co.uk

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