

Key Concepts of Shock Hydrodynamics

Short Course Tutor: Ron Winter

Monday 13th – Friday 17th April 2015



The aim of the course is to help students understand the key concepts underpinning shock physics and thereby to provide a grounding for further study and research in this field. It will be shown how experimental data, computer simulations and (fairly simple) mathematical analysis can be used together to illustrate, and quantify, the important phenomena. MS Excel will be used extensively to depict key equations, analyse experimental data and predict experimental results. Students will be expected to test and consolidate their understanding by using Excel to complete a series of 'homework' questions. Each student will be provided with a hard copy of the course notes. More detail and timetabling can be found online: <http://www3.imperial.ac.uk/shockphysics/courses/shortcourses>

VENUE and FORMAT

The course will be hosted by the **Institute of Shock Physics at Imperial College London, Room 741 Blackett Laboratory, South Kensington Campus**. It will be run over five days. Two lectures will be delivered nominally from **10:00 - 11:15** and **11:30 - 12:45** each morning (*refreshments will be provided mid-morning and midday*). The afternoons will be available for students to complete their homework assignments, which should then be given to the class tutor for checking.

HOW to REGISTER

To register for this course please contact the ISP Administrator Ciara Mulholland - c.mulholland@imperial.ac.uk. The deadline for registration is February 20th 2015, however we do invite early registrations!

Imperial College Students and ISP Associates free of charge – Non-ICL students - £200, Non ICL academics - £400,

All other Industry attendees £1000 for the entire week

(Course fees will be invoiced to your organisation and payable immediately)