

<b>Applied Detonation Physics and Blast Modelling Cambridge 22-26 Sept 2014</b> <i>http://www.csc.cam.ac.uk/academic/shortcourses/det2014</i>					
	Monday 22 <sup>nd</sup> September	Tuesday 23 <sup>rd</sup> September	Wednesday 24 <sup>th</sup> September	Thursday 25 <sup>th</sup> September	Friday 26 <sup>th</sup> September
09:30 - 10:20	Introduction to Shock Physics <b>WGP</b>	Hot spot Initiation of Explosives <b>JEF</b>	Mechanical Responses of Energetics across temperature and time domains <b>WGP</b>	Historic Blast Fragmentation Formulas <b>JS</b>	CFD – Numerical Methods for Compressible Reactive Flow <b>SAEGF</b>
10:30 - 11:20	Detonation – Basic Theory <b>WGP</b>	Ideal Detonation – Condensed Phase <b>MB</b>	Techniques for Studies of Impact, Fracture and Dynamic Properties of Explosives <b>JEF</b>	Theoretical Points about Fragment Size Distributions & Formulas <b>FO</b>	Blast simulations <b>SAEGF/ (GJS)</b>
11:20 - 11:40	Coffee/ Tea	Coffee/Tea	Coffee/Tea	Coffee/Tea	Coffee/Tea
11:40 - 12:30	Explosion and Detonation Physics Modelling 1 <b>MB</b>	Detonation Modelling in Commercial Explosives <b>MB</b>	Deflagration and Thermal Explosion <b>MB</b>	The Swebrec Distribution: Examples from Different Rock Fragmentation Methods <b>FO</b>	Coupled Simulations of Elastoplastic Solids and Non-Ideal Explosives <b>NN</b>
12:40 - 13:30	Lunch	Lunch	Lunch	Lunch	Lunch
13:40 - 14:30	Explosion and Detonation Physics Modelling II <b>MB</b>	Recent Research on Explosives including DDT <b>JEF</b>	Workshop 3 Deflagration <b>MB</b>	Capacity of Fragment Size Distributions to Reproduce Sieving Data <b>JS</b>	Workshop 4 CFD <b>NN</b>
14:30 - 15:00	Coffee/ Tea	Coffee/ Tea	Coffee/ Tea	Coffee/ Tea	Coffee/ Tea
15:00 - 17:00	Workshop 1 Cantera Gas Phase model <b>MB</b>	Workshop 2 Ideal Detonation <b>MB</b>		Fragmentation model for quarry blasting <b>FO</b>  15:50 Errors in Imaging Methods to Measure Fragment Size <b>JS</b>	16:00 Roundup  Tour of PCS Cavendish facilities <b>APJ</b>

Lecturers: MB (Martin Braithwaite, Cambridge), SAEGF (Sam Falle, Leeds), JEF (John Field, Cambridge), NN (Nikos Nikiforakis, Cambridge), WGP (Bill Proud, Imperial College), FO (Finn Ouchterlony, Leoben), JS (Jose Sanchidrian, Madrid): APJ (Andy Jardine, Cambridge), GJS (Gary Sharpe, Blue Dog Scientific).

**Last edited on: Friday, 21 February 2014**