



**Department of Mathematical Sciences**  
**RESEARCH CENTRE IN MATHEMATICS & MODELLING**

**Industrial Workshop on “Waves in Structured Media and Localisation”**  
organised by Liverpool University, LJMU, SERCO, sponsored by RCMM

**Friday, 19<sup>th</sup> June 2009, in**  
**Room G16, Mathematical Sciences Building, University of Liverpool**

09:30 – 10:00 Coffee

10:00 – 10:35 W.Daniels (SERCO Assurance)  
**“Inspection Modelling Requirements for Industry”**

10:35– 11:10 I.S. Jones (LJMU)  
**“Thermal striping and modelling of thermo-elastic solids with surface breaking cracks”**

11:10 – 11:45 G. Rogerson (Keele University)  
**“The influence of a finite simple shear deformation on long wave motion in an incompressible elastic layer”**

11:45 – 12:20 D. Colquitt (UoL)  
**“Harmonic elastic waves in stratified welds”**

12:20 – 12:50 **L u n c h**

12:50 – 13:10 Outline of a prospective Grant Proposal / Discussion

13:10 – 13:45 N. Movchan (UoL)  
**“Phononic crystals and transmission/reflection of flexural waves within structured elastic plates”**

13:45 – 14:20 W. Parnell (Manchester University)  
**“Some new applications of homogenization and micromechanics ”**

14:20 - 14:55 A. Diatta (UoL)  
**“Models of metamaterials and photonic/phononic cloaks”**

14:55 - 15:30 A. Movchan (UoL)  
**“Dynamic fracture in structured media: localisation and paradoxes of continuum models”**

15:30 – 16:30 Coffee and Discussion

**E n d o f W o r k s h o p**

All are welcome