

From Materials to Structures: Various Perspectives

A workshop between the University of Cambridge and LabEx MMCD,
supported by **LABEX MMCD**



8-9 April 2019

Room to be announced

Monday 8 April		
14h30-14h40	Opening	
14h40-15h10	Gábor CSÁNYI (Univ. Cambridge, Dpt. Eng.)	The science, rather than art, of fitting interatomic potentials
15h10-15h40	Gabriel STOLTZ (École des Ponts ParisTech, CERMICS)	Error estimates in molecular dynamics
15h40-16h10	Laurent BROCHARD (École des Ponts ParisTech, Navier)	Thermo-mechanics of confined fluids and application to the anomalous thermal-pressurization of water in clay
16h10-16h30	Break	
16h30-17h	Chris PICKARD (Univ. Cambridge, Dpt. Mat. Sc. & Metallurgy)	Random search - from atoms to structures
17h-17h30	Virginie EHLACHER (École des Ponts ParisTech, CERMICS)	Tensorized adaptive biasing force method for molecular simulations
17h30-18h	Antoine LEVITT (Inria Paris)	Numerical computation of Wannier functions

Tuesday 9 April		
9h30-10h	Arthur LEBEE (École des Ponts ParisTech, Navier)	Fitting surfaces with the Miura Ori Tessellation
10h-10h30	Cyril DOUTHE / Olivier BAVEREL (IFSTTAR, Navier, & École des Ponts ParisTech, Navier)	Constructive geometry
10h30-11h	Break	
11h-11h30	Romain MESNIL / Olivier BAVEREL (École des Ponts ParisTech, Navier)	Digital construction
11h30-12h	Allan McROBIE (Univ. Cambridge, Dpt. Eng.)	Novel geometrical methods for structural analysis and design
> 12h	Lunch, followed by a visit of Lab. Navier for those interested	