Sunday October 9th, 2016

Version: 11/10/2016 16:11



16:00	Registration Foyer
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18:00 -	Welcome reception
20:00	Welcome reception  Grands Echézeaux Hall

## Monday October 10th, 2016



08:00	Registration Foyer								
•	s <b>ession 1</b> i Romanée Conti Inçois Willaime, CEA, France								
08:30	Welcome François Willaime, CEA, France								
08:40	(plenary) <b>Model-reduction in mult</b> Pierre Suquet, CNRS Marseille, Fra	iscale problems for composite and note	l polycrystalline materials						
09:30	(plenary) <b>The effect of dislocation</b> Wei Cai, Stanford University, USA	junctions on the work hardening r	ate of face-centered cubic metals						
10:20	Coffee break Foyer Bar and Hall D'Accueil								
10:50	R8 Mercurey Chair: Jim Belak, Lawrence Livermore National Laboratory, USA	C1 R3 Santenay-Chablis Chair: James Kermode, University of Warwick, UK	<b>D1</b> R4 Musigny + R5 Pommard Chair: Joerg Rottler, University of British Columbia, Canada	E1 R2 Morey Saint Denis Chair: Byeong-Joo Lee, POSTECH, South Korea	F1 R9 Saint Romain Chair: Tony Lelièvre, Ecole des Ponts ParisTech, France	<b>G1</b> R1 Amphi Romanée Conti Chair: Ghiath Monnet, EDF-R&D, France	M1 R7 Givry+Savigny Chair: Döme Tanguy, CNRS- Lyon1, France	N1 R6 Volnay Chair: Gianpietro Moras, Fraunhofer Institute for Mechanics of Materials IWM, Germany	
	(invited) Designing the mechanical response of additively manufactured silicone cellular solids with ordered porous architectures Todd Weisgraber, Lawrence Livermore National Laboratory, USA	(invited) Coarse graining interatomic potentials with machine learning Gabor Csanyi, University of Cambridge, UK	(invited) Non-equilibrium first order transition marks the mechanical failure of glasses Peter Schall, University of Amsterdam, Netherlands	(invited) Multiscale modeling of coherent precipitation in interstitial solid solutions Mark Asta, University of California, Berkeley, USA	(invited) Enhanced free energy based structure prediction in materials science Mark Tuckerman, New York University, USA	(invited) <b>First-principles</b> modelling of screw dislocation mobility in Zr and Ti Emmanuel Clouet, CEA Saclay / SRMP, France	(invited) Local strain measurements during in situ TEM deformation with nanobeam electron diffraction Christoph Gammer, Erich Schmid Institute of Materials Science, Austria	(invited) Rolling, sliding and fretting contact of viscoelastic materials Daniel Nelias, INSA Lyon, France	
11:20	An ICME approach for additive manufacturing Jim Belak, Lawrence Livermore National Laboratory, USA	Active learning of interatomic potentials Alexander Shapeev, Skolkovo Institute of Science and Technology, Russia	Emergence of cooperativity in plasticity of soft glassy materials Jérôme Crassous, Université Rennes 1, France	Nb precipitation in zirconium alloys Maeva Cottura, SRMP-CEA Saclay, France	Cross-entropy minimization and importance sampling of rare events Wei Zhang, Freie Universität Berlin, Germany	Dislocation trajectory and Schmid law deviation in BCC metals Lucile Dezerald, IJL, France	Plasticity of Olivine Mg2SiO4: Insights from nanomechanical experiments and atomistic calculations Srinivasan Mahendran, UMET University Lille 1, France	Modelling viscoelastic reciprocating contacts Giuseppe Carbone, Politecnico di Bari, Italy	
11:40	Multiscale optimization for novel material design using a combined numerical and experimental approach Grace Gu, MIT, USA	QM/MM coupling for crystalline defect simulations Christoph Ortner, University of Warwick, UK	Microscopic origin of the yielding behaviour in metallic glasses in terms of nonaffine stress relaxation and viscous stress build-up Alessio Zaccone, University of Cambridge, UK	Multiscale modelling of Ti-Al-N thin film growth using DFT and kMC approaches: microstructural evolution Cedric Mastail, Institut Pprime, France	Comparison of minimum action and steepest descent paths in gradient systems Grisell Diaz Leines, ICAMS - Ruhr University Bochum, Germany	Interaction of interstitial iron with dislocations in silicon Matous Mrovec, Fraunhofer IWM, Germany	Dislocations in ferroelectric perovskite KNbO <sub>3</sub> : Insight from theory and experiment Pierre Hirel, UMET University Lille 1, France	Multiscale plasticity simulation applied to an experimental scratch test on copper using smooth particle hydrodynamics Andras Vernes, AC2T, Austria	
12:00	Mechanical and morphological study of dental tissues Elsa Vennat, Centrale-Supélec, France	Mathematical modeling of incommensurate 2D materials Mitchell Luskin, University of Minnesota, USA	Thermal fluctuations and elastic relaxation in the compressed exponential dynamics of colloidal gels Mehdi Bouzid, Georgetown Univeristy, USA	Effect of interfacial structure on the heterogeneous nucleation of Pb at a Cu surface Brian Laird, University of Kanas, USA	Nested sampling of reaction paths Gabor Csanyi, University of Cambridge, UK	Stabilization of the screw dislocation hard core by interstitial solutes in body- centered cubic metals Berengere Luthi, CEA, France	Understanding Atomic Force Microscopy: From atomic to macroscopic scale David Gao, University College London, UK	Dislocation microstructure evolution during indentation and sliding in Discrete Dislocation Dynamics Johanna Gagel, Karlsruhe Institute of Technology, Germany	
12:20	<b>Lunch</b> Chambertin Followed by coffee in Foyer Bar an	d Hall D'Accueil							

## Monday October 10th, 2016 (continued)



13:50	A2	C2	D2	E2	F2	G2	K1	M2	N2
	R8 Mercurey	R3 Santenay-Chablis	R4 Musigny	R2 Morey Saint Denis	R9 Saint Romain	R1 Amphi Romanée Conti	R10 Monthelie	R7 Givry+Savigny	R6 Volnay
	Chair: Lorenzo Valdevit,	Chair: Alexei Lozinski, Université	Chair: Jean-Louis Barrat,	Chair: Chris Race, University of	Chair: Fabio Pietrucci, Université	Chair: Benoit Devincre, LEM,	Chair: Riccardo Ferrando,	Chair: Hosni Idrissi, Université	Chair: Kerstin Falk, Fraunhofer
	University of California Irvine,	de Franche-Comté, France	Université Grenoble Alpes,	Manchester, UK	Pierre et Marie Curie, France	CNRS-ONERA, France	University of Genoa, Italy	Catholique de Louvain, Belgium	IWM, Germany
	USA		France					, , , ,	,
	(invited) Optimal design and advanced manufacturing of micro and nano-architected materials Lorenzo Valdevit, University of California, Irvine, USA	(invited) Model order reduction techniques for numerical homogenization Assyr Abdulle, EPFL, Switzerland	(invited) Mesoscopic modeling - specific ingredients and emergent behaviors Kirsten Martens, Université Grenoble Alpes & CNRS, France	(invited) Combination of atomistic simulation and phase- field modeling techniques for a texture control in steel sheets Byeong-Joo Lee, Pohang University of Science and Technology (POSTECH), South Korea	(invited) Energy landscape and pathways of point defects in body-centered-cubic metals Mihai-Cosmin Marinica, CEA - Université Paris-Saclay, France	(invited) Atomistic simulations of screw dislocations: core structure, Peierls potential, and finite temperature motion Mark Gilbert, CCFE/Euratom, UK	(invited) Ordering and surface segregation in miscible Nanoalloys: cases of Co-Pt, Pd- Au and Pd-Pt Christine Mottet, CINaM - CNRS / AMU, France	(invited) Dislocation and back stress dominated viscoplasticity in freestanding sub-micron Pd et Cu films Thomas Pardoen, Université Catholique de Louvain (UCL), Belgium	(invited) Adhesion between elastic solids: From single- wavelength roughness to self- affine surfaces Martin Müser, Saarland University, Germany
14:20	Homogenized dynamics of lattice-structured meta-materials John Moore, Lawrence Livermore National Laboratory, USA	Control of oscillators, temporal homogenization, and energy harvest by super-parametric resonance Molei Tao, Georgia Institute of Technology, USA	Elasto-plastic automata with realistic near field interactions: avalanches and diffusion Damien Vandembroucq, ESPCI ParisTech, France	Simulation and modeling of electromigration of C in Fe: a Molecular Dynamics approach Patrice Chantrenne, INSA, France	Metadynamics simulations of phase transitions in crystalline and amorphous ice Silvio Pipolo, Université Pierre et Marie Curie, France	Kink pair production and dislocation motion Steve Fitzgerald, University of Oxford, UK	Experimental and modeling comparison in atom segregation of Ag-based bimetallic clusters Pascal Andreazza, Université d'Orléans, France	Micro-fracture testing of tungsten: Simulation and experiment Sabine Weygand, Karlsruhe Institute of Technology (KIT), Germany	Cavitation of fluids between heterogeneous slipping-sticking surfaces Daniele Savio, Fraunhofer IWM, Germany
14:40	Crystal plasticity study of monocrystalline stochastic honeycombs under in-plane compression Franz Roters, MPI für Eisenforschung, Germany	Numerical homogenization based fast solver for PDEs with arbitrarily rough coefficients Lei Zhang, Shanghai Jiao Tong University, China	Avalanche phenomena and shear localization near the fracture limit of amorphous solids David Fernandez-Castellanos, Institute of Materials Simulation (WW8) - FAU, Germany	A molecular dynamics study of the effect of helium clusters on grain boundary migration in bcc iron Aulia Tegar Wicaksono, University of British Columbia, Canada	Nucleation and interfacial adsorption in ternary systems Thomas Philippe, CNRS - Ecole Polytechnique, France	Onset of plasticity in zirconium in relation with hydrides precipitation Laurent Pizzagalli, Institut P' / CNRS, France	Multi-scale modeling of core- shell Fe@Au nanoparticles Magali Benoit, CEMES-CNRS, France	Dislocation Dynamics simulations and in-situ TEM observations of interactions between dislocations and irradiation induced loops in recrystallized Zircaloy-4 Laurent Dupuy, CEA-Saclay, France	The application of a molecular- continuum coupling strategy for the modelling of liquid lubricant Eduardo Ramos Fernandez, Imperial College London, UK
15:00	Disordered auxetic materials Charlotte Petersen, Aalto University, Finland	The local orthogonal decomposition method for problems with complex geometry Daniel Elfverson, Umeå University, Sweden	Reducing the gap between real particle rearrangements and idealized shear transformations in deformation models for amorphous solids Alexandre Nicolas, CNRS & University Paris-Sud, France	Multi-scale study of the gas- phase growth of Silicon clusters in realistic conditions Giovanni Barcaro, CNR-IPCF, Italy	Estimating rates of thermally activated events by sampling and unbiasing dynamically activated paths Manuel Athènes, CEA, France	Dislocation core transitions in disicides Vaclav Paidar, Institute of Physics AS CR, Czech Republic	A Cahn-Hilliard approach to modelling phase separation in bimetallic nanoparticles Mohammad Ahmed, University of Birmingham, UK	The effect of dimensionality and size on the nanoindentation – A combined experimental/computational multiscale study Shyamal Roy, Israel Institute of Technology, Israel	Molecular dynamics simulations of iron-oxide lubrication by glycerol/water solutions Bartlomiej Czerwinski, Luleå University of Technology, Sweder
15:20	General properties and upper bound estimates for plasticity in porous continua Amine Benzerga, Texas A&M University, USA	From the Newton equation to the wave equation in case of shocks Marc Josien, ENPC, France	-	Multiscale simulation of interface-dominated structural transformations in Fe-C alloys Xie Zhang, Max-Planck-Institut für Eisenforschung, Germany		Multiscale modelling of dislocation loops and precipitates in irradiated metals Arttu Lehtinen, Aalto University, Finland	Modeling finite-size effects on phase-separation transitions in nanoalloys Micha Polak, Ben-Gurion University of the Negev, Israel	Toward the understanding of the brittle to ductile transition at low size in silicon: experiments and simulation Julien Godet, Pprime Institute - University of Poitiers, France	
L5:40	Coffee break Foyer Bar and Hall D'Accueil								

# Monday October 10th, 2016 (continued)



l6:10	A3	C3	D3	E3	F3	G3	J1	K2	N3
	R8 Mercurey Chair: Nathan Barton, Lawrence Livermore National Laboratory, USA	R3 Santenay-Chablis Chair: Katie Newhall, UNC Chapel Hill, USA	R4 Musigny Chair: Emanuela del Gado, Georgetown University, USA	R2 Morey Saint Denis Chair: John Ågren, KTH, Sweden	R9 Saint Romain Chair: Rodolphe Vuilleumier, Ecole Normale Supérieure - CNRS - UPMC, France	R1 Amphi Romanée Conti Chair: Laurent Pizzagalli, Institut P' / CNRS, France	R5 Pommard Chair: Nicolas Combe, Cemes, CNRS UP 8011 and Univ Paul Sabatier, France	R10 Monthelie Chair: Nils Warnken, University of Birmingham, UK	R6 Volnay Chair: Daniele Savio, Fraunhofe IWM, Germany
	(invited) Poisson's function of single-wire entangled materials: from below 0 in tension to above 0.5 in compression David Rodney, University of Lyon, France	(invited) Kinetic Modeling of Materials Coarsening: from individual grains to network statistics Maria Emelianenko, George Mason University, USA	(invited) Stress state effects on non-affine displacements and strain hardening of a metallic glass Todd Hufnagel, Johns Hopkins University, USA	(invited) Microstructural pattern formation during liquid metal dealloying Alain Karma, Northeastern University, USA	(invited) <b>Hierarchical dynamics of biomolecular processes</b> Gerhard Stock, University of Freiburg, Germany	(invited) Direct atomistic simulations of bulk crystal plasticity Vasily Bulatov, Lawrence Livermore National Laboratory, USA	(invited) Shear-coupled grain boundary motion: Atomistics to continuum Yuri Mishin, George Mason University, USA	(invited) Experimental atomic arrangements in size-selected clusters - a benchmark for nanoscale modelling Richard Palmer, University of Birmingham, UK	(invited) Tight-binding quantum chemical molecular dynamics simulations on tribochemical reaction dynamics of diamond- like carbon thin films Momoji Kubo, Tohoku University, Japan
6:40	Microstructure modeling of porous electrodes for solid oxide fuel cells (SOFCs) Jochen Joos, Karlsruhe Institute of Technology (KIT), Germany	Xiaohua Niu, Hong Kong	Metadynamics of Slow Deformation and Flow: Time- dependent amorphous plasticity (creep) Penghui Cao, MIT, USA	Diffuse interface modelling of microstructure evolution in the presence of flow: Hydrodynamics equations Amol Subhedar, ICAMS - Ruhr- Universität Bochum, Germany	Long-time atomistic simulations with Parallel Trajectory Splicing Danny Perez, Los Alamos National Laboratory, USA	Molecular dynamics investigation of dislocation- dislocation interaction at Ag precipitate interface embedded in Cu matrix Dennis Rapp, IMWF - Universität Stuttgart, Germany	Atomistic migration mechanisms of grain boundaries deviated from the symmetric tilt orientation Sherri Hadian, Max-Planck Institute, Germany	Ageing of nanoalloys: Formation and dissolution of the onion-like nanostructure Fabienne Berthier, CNRS- University Paris Sud, France	On the solid lubrication processes of silicon oxide containing hydrogenated amorphous carbon coatings Julien Fontaine, Ecole Centrale d Lyon, France
7:00	Size effects and irregularity in open cellular foams Stefan Liebenstein, Friedrich- Alexander-Universität Erlangen- Nürnberg, Germany	On the temporal coarse graining in dislocation dynamics Anter El-Azab, Purdue University, USA	Shear bands and energy dissipation in metallic and network-forming glasses Richard Jana, Karlsruhe Institute of Technology, Germany	Modeling pattern formation in multi-component fluids on the mescoscale: a phase-field approach Gyula Toth, University of Bergen, Norway	Error estimates for transport coefficients in molecular dynamics Gabriel Stoltz, Ecole des Ponts, France	Evolution of dislocations during nanoindentation and nanoscratching of HCP metals: Molecular dynamics study lyad Alabd Alhafez, University Kaiserslautern, Germany	Examining the interplay of tension and shear for a metal grain boundary through atomistic ab initio computational studies Flemming Ehlers, Université Paris Diderot, France	Investigating structural transitions in metallic nanoalloys via Metadynamics Kevin Rossi, King's College London, UK	Mechanochemical breaking of C C bonds at the tribological interface between diamond and silica Gianpietro Moras, Fraunhofer Institute for Mechanics of Materials IWM, Germany
7:20	Elaboration of BN membrane using a new elegant approach Catherine Marichy, Laboratory of Multimaterial and Interfaces - UMR 5615, France	Generic adaptive resolution approach to reverse mapping of polymer melts Jakub Krajniak, KU Leuven, Belgium	Yield cirteria developed using atomic scale simulations Gergely Molnar, Ecole des Mines de Saint Etienne, France	Metal droplet entrainment by solid particles in slags: a combined phase field – experimental approach Inge Bellemans, Ghent University, Belgium		Molecular dynamics simulations of intrusions and extrusions in iron, copper and nickel during cyclic loading Youssef Maniar, Robert Bosch GmbH, Germany	Effect of a normal stress on the shear-coupled grain boundary migration Nicolas Combe, CNRS UP 8011 and Univ Paul Sabatier, France	New designed synthesis of metallic nanoparticles and nanoalloys Christophe Petit, MONARIS UPMC, France	Tribochemistry of steel lubrication by graphene Paolo Restuccia, Universita' deg Studi di Modena e Reggio Emilia Italy
7:40		Flash posters C R3 Santenay-Chablis			Flash posters F R9 Saint Romain				

# Tuesday October 11th, 2016



08:30	(plenary) Can a simulation be rea								
09:20	Helena Van Swygenhoven-Moens,		ex materials: the kinetic activation-	rolovotion toohniquo					
09.20	Normand Mousseau, Université de	•	ex materials. The kinetic activation-	relaxation technique					
10:10	Presentation of poster prizes (pos	ster session 1)							
10:20	Coffee break Foyer Bar and Hall D'Accueil								
10:50	R8 Mercurey Chair: Jim Belak, Lawrence Livermore National Laboratory, USA	C4 + F4 R3 Santenay-Chablis Chair: TBC	<b>D4</b> R4 Musigny Chair: Kirsten Martens, University Grenoble Alpes & CNRS, France	R2 Morey Saint Denis Chair: Alain Karma, Northeastern University Physics Department, USA	R1 Amphi Romanée Conti Chair: Daniel Caillard, CEMES- CNRS, France	R5 Pommard Chair: Rebecca Janisch, ICAMS, Germany	K3 R10 Monthelie Chair: Christophe Petit, MONARIS UPMC, France	M3 R7 Givry+Savigny Chair: Ricardo Lebensohn, Los Alamos National Laboratory, USA	N4 R6 Volnay Chair: Matous Mrovec, ICAMS, Ruhr University Bochum, Germany
	(invited) <b>Structural and</b> mechanical inhomogeneities in cement paste Katerina loannidou, MIT, USA	(invited) Continuum modeling of heteroepitaxial growth in semiconductors Francesco Montalenti, Università di Milano-Bicocca, Italy	(invited) <b>Universality of avalanche exponents in amorphous plasiticity</b> Zoe Budrikis, ISI Foundation, Italy	(invited) Multiscale modelling of structure evolution in industrial materials John Ågren, KTH, Sweden	(invited) Recent progress in dislocation dynamics simulation and its contribution to crystal plasticity modeling Benoit Devincre, LEM CNRS- ONERA, France	(invited) From random-walk to stress-driven grain boundary motion in pure FCC metals Christian Brandl, Karlsruhe Institute of Technology, Germany	(invited) Computational design of nanoalloys using DFT calculations, genetic algorithms and machine learning Tejs Vegge, Technical University of Denmark, Denmark	(invited) Using FFT-based simulations to incorporate local twinning features into Polycrystal Plasticity modeling Carlos Tome, Lawrence Berkeley National Laboratory, USA	(invited) Thermodynamics of the Aubry superlubric-pinned transition in D=2 dimensions Erio Tosatti, SISSA / ICTP / CNR-IOM Democritos, Italy
11:20	Kinetic Monte Carlo simulations of nanoparticle precipitation: the early hydration rate of cement Enrico Masoero, Newcastle University, UK	Elementary mechanisms of shear-coupled grain boundary migration Nicolas Combe, CEMES/CNRS UP 8011 and Univ Paul Sabatier, France	Avalanche statistics when approaching (or leaving) the yielding transition of amorphous solids Ezequiel Ferrero, Universite Grenoble Alpes, France	Modelling microstructure evolution in metallic alloys: elasticity and plasticity Yann Le Bouar, CNRS/ONERA, France	The interaction strengths between slip systems revisited Ronan Madec, CEA / DAM / DIF, France	Atomistic shear deformation mechanisms of interfaces in TiAl Rebecca Janisch, ICAMS Ruhr- Universitaet Bochum, Germany	Modeling of complex metal alloys and nanoparticles via multiscale first-principles methods Kari Laasonen, Aalto University, Finland	Multiscale modeling of IN718 superalloy based on micropillar compression and computational homogenization Javier Llorca, Polytechnic University of Madrid & IMDEA Materials Institute, Spain	Thermal effects on nanoscale van der Waals adhesion and sliding Mircea Rastei, IPCMS, France
11:40	Linear pore size dependence of water diffusion in nanoconfinement as assessed by noninvasive relaxometry method Dominique Petit, CNRS/Université de Montpellier, France	Multiscale modelling of materials chemomechanics James Kermode, University of Warwick, UK	Role of inertia in the rheology of amorphous systems: a finite element based elasto plastic model Kamran Karimi, University of Grenoble, France	Optimize material parameters with 4D experiments and phase- field simulations Jin Zhang, DTU, Denmark	Plastic zone properties at a crack tip investigated with the Discrete-Continuous Model Laurent Korzeczek, ONERA, France	Modelling plastic deformation in interface dominated microstructures using a dislocation based continuum formulation Markus Sudmanns, Karlsruhe Institute of Technology, Germany	Structural optimization of Au-Co nanoalloys Emanuele Panizon, University of Genoa Italy	Lattice strain evolution during biaxial loading of 316L stainless steel cruciform samples using an FE-FFT approach Manas Upadhyay, Paul Scherrer Institute, Switzerland	Viscosity and diffusivity of hydrocarbon lubricants under tribological conditions Kerstin Falk, Fraunhofer IWM, Germany
12:00	Effect of the curing temperature on the C-S-H composition and density in a Class G cement paste Sara Bahafid, Université Paris Est, France	Uncertainty quantification across the DFT/MD scale boundary in sequential multiscale simulations Peter Brommer, University of Warwick, UK	Universality of slip avalanches in flowing granular matter Dmitry Denisov, University of Amsterdam, Netherlands	Effects of fcc/fcc grain boundaries on the formation of bcc phase in pure iron by molecular dynamics simulation Xiaoqin Ou, Delft University of Technology, Netherlands	Modeling the Bauschinger effect and cyclic hardening in single crystals from dislocation dynamics simulations Sylvain Queyreau, LSPM CNRS - Univ. Paris XIII, France	Effects of interfaces on deformation mechanisms and their optimization in TiAl intermetallic alloys Dongsheng Xu, Institute of Metal Research - Chinese Academy of Sciences, China	Modelling nanoalloy catalysts: From free to oxide-supported particles Roy Johnston, University of Birmingham, UK	Quaternion correlation for tracking crystal motions Qiwei Shi, EDF R&D, France	Theoretical modeling and experimental validation of film forming mechanisms under deceleration Juliette Cayer-Barrioz, LTDS - CNRS - Ecole Centrale de Lyon, France
12:20	Lunch Chambertin Followed by coffee in Foyer Bar an	d Hall D'Accueil							

### Tuesday October 11th, 2016 (continued)



13:50	R8 Mercurey Chair: David Jauffres, SIMAP / University of Grenoble Alpes, France	C5 R3 Santenay-Chablis Chair: Christoph Ortner, University of Warwick, UK	P5 R4 Musigny Chair: Luca Cipelletti, L2C University Montpellier and CNRS, France	R2 Morey Saint Denis Chair: Maria Emelianenko, George Mason University, USA	<b>G5</b> R1 Amphi Romanée Conti Chair: Sylvain Queyreau, LSPM CNRS - Univ. Paris XIII, France	H1 R6 Volnay Chair: Pär Olsson, KTH Royal Institute of Technology, Sweden	R5 Pommard Chair: Remi Dingreville, Sandia National Laboratories, USA	<b>K4</b> R10 Monthelie Chair: Roy Johnston, University of Birmingham, UK	M4 R7 Givry+Savigny Chair: Stefan Sandfeld, University of Erlangen-Nürnberg, Germany
	(invited) 3D image-based multiscale modeling of hierarchical porous electrodes: mechanical strength and effective conductivity David Jauffres, SIMAP / University of Grenoble Alpes, France	(invited) Large-scale real-space electronic structure calculations Vikram Gavini, University of Michigan, USA	(invited) Making a jammed emulsion flow: local rearrangements and correlated motion Emanuela Del Gado, Georgetown University, USA	(invited) The role of the mesoscale in grain boundary migration Chris Race, University of Manchester, UK	(invited) Large scale dislocation dynamics simulations of plasticity and point defect evolution in persistent slip bands Jaafar El-Awady, Johns Hopkins University, USA	(invited) <b>Direct HRTEM Observation of the Clustering Process of Self-Interstitial Atoms in Iron</b> Kazuto Arakawa, Shimane University, Japan	(invited) Atomistic study of mechanism transition of grain boundary motion and dislocation nucleation from grain boundary Shigenobu Ogata, Osaka University, Japan	(invited) <b>Tight-binding strategy to</b> model the energetics of magnetic alloys and nanoalloys Christine Goyhenex, IPCMS, CNRS-Université de Strasbourg, France	(invited) Coupling microstructure- sensitive modeling and in situ experiments to improve fatigue life predictions Michael Sangid, Purdue University, USA
14:20	Enhanced resilience of architected materials with hierarchical microstructures Paolo Moretti, Friedrich-Alexander- University Erlangen-Nuremberg, Germany	Automating diffusivity calculations for interstitial and solute diffusion from first- principles Dallas Trinkle, University Illinois, Urbana-Champaign, USA	Vibrational properties of amorphous materials, and application to nanocomposites Anne Tanguy, INSA, France	Linking design of materials and technological process parameters for tailored integration in Microelectronics field: climbing the scales Anne Hemeryck, LAAS-CNRS, France	Strain bursts and dislocation avalanches in irradiated micropillars Nasr M Ghoniem, University of California, Los Angeles, USA	Effect of irradiation on chromium precipitation in ferritic steels Frederic Soisson, CEA Saclay, France	Influence of hydrogen on grain boundary cohesion in nickel Matous Mrovec, ICAMS, Ruhr University Bochum, Germany	Molecular dynamics simulations of self-propagating reactions in Ni-Al multilayer nanofoils Olivier Politano, Laboratoire ICB - Univ. Bourgogne, France	Unravelling dislocation collective properties with dislocation dynamics simulations for continuous modeling Vanessa Verbeke, CNRS - ONERA, France
14:40	Massively parallel FFT-based simulations to analyze the behavior of architected SiC/SiC composite tubes from synchrotron X-ray tomography Yang Chen, CEA - Saclay, France	The flexibility of daubechies wavelets for electronic structure calculations Thierry Deutsch, Univ. Grenoble Alpes / CEA / INAC, France	Confinement effects on the correlations of plasticity Fathollah Varnik, Ruhr-Universität Bochum, Germany	Size-effects on grain growth by MD-simulations Luis Barrales Mora, IMM, Germany	DD simulations of interactions between gliding dislocations and radiation-induced loops in α- iron: bridging the atomic and the crystalline scales Xiangjun Shi, Université Paris 13, France	and properties of nanometric-	Strength of interfaces with segregated impurities from first principles Miroslav Cerny, Academy of Sciences of the Czech Republic, Czech Republic	Nanoalloys as catalysts for fuel cell application: Multiscale simulation and experimental study Daojian Cheng, Beijing University of Chemical Technology, China	Analysis and data mining of discrete dislocation data with the D2C framework Dominik Steinberger, Friedrich- Alexander-Universität Erlangen- Nürnberg, Germany
15:00	Generation, compaction and strength of nanostructured silica aggregates using the discrete element method Étienne Guesnet, SIMAP / University of Grenoble Alpes, France	Wavefunction in DFT embedding for Materials Design Stuart Bogatko, Imperial College London, UK	Rheology of weakly attractive systems: the role of energy dissipation Ehsan Irani, University of Goettingen, Germany	Influence of precipitation kinetics on static recrystallization during hot deformation of a 2xxx aluminium alloy Evgeniya Kabliman, LKR Leichtmetallkompetenzzentrum Ranshofen GmbH, Austria	The effect of temperature and dislocation mobility on the attenuation of the dynamic yield point in shocks Benat Gurrutxaga-Lerma, Imperial College London, UK	Artificial Neural Network based cohesive model from ab initio: principles and applications to single point-defect migration in binary Fe-based alloys Nicolas Castin, SCK-CEN, Belgium	Hydrogen induced grain boundary decohesion in nickel extracted from molecular dynamics simulations Douglas Spearot, University of Florida, USA	Metallic nanoclusters on graphene/Ir(111): insights from ab-initio calculations and experiments Maria Peressi, University of Trieste, Italy	(invited) Dislocation transfer through twin-boundaries analyzed by x-ray μLaue diffraction Christoph Kirchlechner, Max-Planck-Institute für Eisenforschung GmbH, Germany
15:20	Assessing the fracture strength of geological and related materials via an atomistically based J-integral Reese Jones, Sandia, USA	Green's functions for seamless elastic boundaries in atomic- scale calculations Lars Pastewka, Karlsruhe Institute of Technology, Germany	From kinetics to rheology in inertial granular flows Eric DeGiuli, Ecole Polytechnique Federale de Lausanne, Switzerland		A discrete dislocation dynamics description of grain boundary sliding and its contribution to plastic deformation in polycrystalline materials Siu Sin Quek, Institute of High Performance Computing Singapore, Singapore	Modeling the pressure vessel steel microstructure evolution under neutron irradiation - input from ab initio calculations in Fe multi component alloys Christophe Domain, EDF R&D, France	Hydrogen segregation to grain boundaries in nickel Remi Dingreville, Sandia National Laboratories, USA	Instability of (100) facets in monolayer-thick core@shell nanoalloys: The emergence of pyritohedral and chiral symmetries Riccardo Ferrando, University of Genoa, Italy	-
15:40	Coffee break Foyer Bar and Hall D'Accueil								

## Tuesday October 11th, 2016 (continued)



:10	A6	C6	D6	E6	G6	H2	J4	L1	M5
	R8 Mercurey	R3 Santenay-Chablis	R4 Musigny	R2 Morey Saint Denis	R1 Amphi Romanée Conti	R6 Volnay	R5 Pommard	R10 Monthelie	R7 Givry+Savigny
	Chair: Emanuela Del Gado,	Chair: Frederic Legoll, Ecole des	Chair: Alexandre Nicolas, CNRS	Chair: Tom Arsenlis, Lawrence	Chair: Steve Fitzgerald, University	Chair: Kazuto Arakawa, Shimane	Chair: Douglas Medlin, Sandia	Chair: Patrice Turchi, Lawrence	Chair: Ruth Schwaiger, KIT,
	Georgetown University, USA	Ponts and INRIA, France	& Univ. Paris-Sud, France	Livermore, National University,	of Oxford, UK	University, Japan	National Laboratories, USA	Livermore National Laboratory,	Germany
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	(in the I) Data of managed	(in its a) A marellal	(in the d) Minnessenie demonstra	(in the d) Orangh and do only	(in its d) Continuous dislocation	(in the d) learning flow according	(in its al) Effect of his phase	(in the d) Madelling and	(in the d) Mandalling plants
	(invited) Role of mesoscale structure in the mechanical behavior of self-standing thin clay films Matthieu Vandamme, Ecole des Ponts ParisTech, France	(invited) A parallel implementation of the mixed multiscale finite element method for the simulation of two-phase flows in porous media Guillaume Enchéry, IFPEN, France	(invited) Microscopic dynamics and macroscopic rheology in a semi-crystalline polymer Luca Cipelletti, L2C University Montpellier and CNRS, France	(invited) <b>Growth and ripening under mechanochemical coupling</b> Reza Darvishi Kamachali, ICAMS - Ruhr-Uni-Bochum, Germany	(invited) Continuum dislocation modeling of wedge indentation Giacomo Po, University of California, Los Angeles, USA	(invited) <b>Impurity flux coupling and anomalous swelling in iron</b> Pär Olsson, KTH Royal Institute of Technology, Sweden	(invited) Effect of bi-phase interfaces on texture evolution in HCP/BCC nanolaminates fabricated by severe plastic deformation Irene Beyerlein, University of California at Santa Barbara, USA	(invited) Modelling and validation of rapidly solidified alloy structures Hani Henein, University of Alberta, Canada	(invited) Modelling plastic deformation in micro- and nano samples using the Discrete- Continuum Model Riccardo Gatti, LEM / UMR 104 CNRS-ONERA, France
40	Small-angle scattering analysis of empty or loaded hierarchical porous materials Cedric Gommes, University of Liege, Belgium	Asymptotic Preserving numerical schemes for multiscale parabolic problems Gilles Vilmart, University of Geneva, Switzerland	Influence of deformation induced topological anisotropy on mechanical properties of Silica Glass: An atomistic study Erik Bitzek, Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU), Germany	Ab initio study of the influence of hydrogen and iron on the nucleation of prismatic loops in Zr alloys submitted to irradiation Benjamin Christiaen, Electricité de France (EDF), France		Scaling laws for formation energy of large interstitial clusters in V, W and Fe from ab- intio simulations Mihai-Cosmin Marinica, CEA, DEN, Service de Recherches de Metallurgie Physique, France	Multi-scale simulation of mechanical properties of carbide metal interfaces from first-principles calculations Elric Barbé, CEA Saclay DEN/DMN/SRMP, France	Combining numerical modeling and ultra-fast In-situ TEM for quantitative studies of rapid solidification microstructure evolution dynamics  Jorg Wiezorek, University of Pittsburgh, USA	Incorporating the nudged elastic band method into dislocation dynamics to investigate thermally activated plastic events Pierre-Antoine Geslin, Université Lyon 1-CNRS, France
:00	Combined experimental- modeling approach towards better predictions of fruit tissue dehydration Kevin Prawiranto, ETH Zürich / Empa, Switzerland	A generalized finite element method for linear thermoelasticity Anna Persson, Chalmers University of Technology, Sweden	Small-scale mechanical response and dynamical behaviour of a model amorphous silicon solid Anne Tanguy, INSA, France	Modelling recrystallization and massive α/γ transformation during intercritical heating of a Dual Phase steel Mélanie Ollat, MATEIS INSA Lyon Lab, France	Phase-field modeling of dislocations in face-centered cubic materials involving micropores Antoine Ruffini, CNRS - ONERA, France	DFT study on the contribution of phonon and electron excitations to the free energy of embedded defect clusters  Matthias Posselt, Helmholtz-Zentrum Dresden-Rossendorf, Germany	Elastic-perfect plastic behavior in elongated Au-Si core-shell nanowires due to the confinement of the dislocations by a hard amorphous shell Julien Godet, Pprime Institute University of Poitiers, France	Solidification cracking during Selective Laser Melting of Inconel 738LC: origins and remedy Eric Jaegle, Max-Planck-Institut fuer Eisenforschung, Germany	Investigation of plasticity/fatigue mechanisms at interfaces in Ni using ex-situ and in-situ SEM/TEM micro/nano-mechanical testing Vahid Samaeeaghmiyoni, University of Antwerp, Belgium
20	Modeling the transport of water and ions tracers in a micrometric sample of clay Pauline Bacle, PHENIX / Université Pierre et Marie Curie, France	Exploiting local macroscopic quasi-homogeneities to accelerate multi-scale microstructure simulations Md Khairullah, KU Leuven, Belgium	Mapping between atomistic simulations and Eshelby inclusions in the shear deformation of amorphous Silicon Francesca Boioli, University of Lyon1, France	Phase field modeling of abnormal grain growth Ying Liu, University of British Columbia, Canada	Atomistic simulation of face- centered cubic metallic nanospheres under uniaxial compression Selim Bel Haj Salah, Institut Pprime, France	Anomalous vacancy-assisted chromium segregation in FeCr alloys Mikhail Lavrentiev, Culham Centre for Fusion Energy, UK		Numerical investigation of the columnar-to-equiaxed transition using a 2D needle network model Pierre-Antoine Geslin, Université Lyon 1-CNRS, France	Modelling of internal stresses in deformation-induced dislocation microstructures and comparison with experimental data Maxime Sauzay, CEA Saclay, France
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08:30	R2 Morey Saint Denis Chair: Christian Elsässer, Fraunhofer IWM, Germany	Chair: Mitchell Luskin, University of Minnesota, USA	Chair: M. Carmen Miguel, University of Barcelona, Spain	R1 Amphi Romanée Conti Chair: Tom Arsenlis, Lawrence Livermore, National University, USA	H3 R6 Volnay Chair: Maylise Nastar, CEA, France	R8 Mercurey Chair: Marcus Müller, Georg- August University, Germany	R5 Pommard Chair: Doug Spearot, University of Florida, UK	R10 Monthelie Chair: Markus Rettenmayr, Friedrich Schiller University Jena, OSIM, Germany	M6 R7 Givry+Savigny Chair: Manas Upadhyay, Paul Scherrer Institute, Switzerland
	(invited) Strategies and algorithms for the automated parallel data mining of annealing microstructure evolution pathways Markus Kühbach, RWTH Aachen University, Germany	(invited) Error estimators for first- principle molecular simulation Eric Cancès, CERMICS - Ecole des Ponts and INRIA, France	(invited) Avalanche phenomena in a sheared granular layer coupled to soft elastic plates Robert Ecke, Los Alamos National Laboratory, USA	(invited) Continuum dislocation dynamics: From dislocation kinematics to work hardening Michael Zaiser, FAU Universität Erlangen-Nürnberg, Germany	(invited) MMM and the challenge of driven materials Georges Martin	(invited) Multi scale modeling of block polymers for applications in patterning Juan de Pablo, University of Chicago, USA	(invited) Chemo-thermo- mechanical framework for the prediction of stress evolution during metal oxidation Amine Benzerga, Texas A&M University, USA	(invited) <b>Multiscale modeling of hot-tearing</b> Michel Rappaz, EPFL, Switzerland	(invited) <b>Predictive Metallurgy: from Quantum to Continuum</b> William A Curtin, École Polytechnique Fédérale de Lausanne, Switzerland
09:00	Coupled microstructural and mechanical models for non- isothermal treatments of a 6061 aluminum alloy Daniel Nelias, INSA Lyon, France	Foundations of kinetic Monte Carlo models and the accelerated dynamics techniques Tony Lelievre, Ecole des Ponts ParisTech, France	Yielding and flow properties of vibrated granular media Olivier Dauchot, UMR Gulliver / CNRS / ESPCI, France	Modeling the creep properties of olivine in the lithospheric mantle from dislocation dynamics models Karine Gouriet, Unité Matériaux et Transformations / CNRS UMR 8207, France	approach Pascal Bellon, University of	Molecular mechanisms of plastic deformation in sphere-forming thermoplastic elastomers Joerg Rottler, University of British Columbia, Canada	Phase field modelling of growth and failure of oxide intrusions along grain boundaries Victor de Rancourt, CEA, France	Upscaling from mesoscopic to macroscopic solidification models by volume averaging Miha Založnik, Institut Jean Lamour, France	Flaw insensitivity of defect- scarce nanowires: Atomistic simulations and experiments Christian Brandl, Karlsruhe Institute of Technology, Germany
09:20	Revealing the mechanism of Z phase-formation in 12% Cr ferritic-martensitic steels Daniel Urban, Fraunhofer IWM, Germany	Stochastic processes and diffusive molecular dynamics Gideon Simpson, Drexel University, USA	Mechanical instabilities in granular media induced by non- linear acoustic waves Julien Leopoldes, ESPCI, France	An accurate and efficient elastic force computation for discrete dislocations in anistropic polycrystals Tom Arsenlis, Lawrence Livermore National University, USA	Coupling radiation damage from binary collision Monte Carlo to phase field microstructure evolution Daniel Schwen, Idaho National Laboratory, USA	Modelling polymer deformation during 3D printing Claire McIlroy, Georgetown University, USA	Material parameter identification by using atomistic-to-continuum homogenization for thermo- mechanically coupled problems Christian Sievers, TU Dortmund, Germany	Multiscale modeling of dendritic microstructure Charles-Andre Gandin, MINES ParisTech CEMEF UMR CNRS 7635, France	MgO nanoparticle deformation at room temperature: insights from MD simulations and in situ TEM Jonathan Amodeo, INSA-Lyon, France
09:40	Mesoscale model of stacked organic light emitting diodes Alison Walker, University of Bath, UK	Assessment of phase-field- crystal concepts using long-time molecular dynamics William A Curtin, École Polytechnique Fédérale de Lausanne, Switzerland	fluctuations	Atomistically based discrete dislocation dynamics simulations of plastic deformation in Magnesium Jaafar El-Awady, Johns Hopkins University, USA	Design of radiation-resistant alloys Thomas Schuler, University of Illinois Urbana-Champaign, USA	Bridging the gap between molecular and macroscopic models of the mechanics and dynamics of anisotropic fluids Patrick Ilg, University of Reading, UK	A thermodynamically consistent diffuse interface crystal plasticity model to study grain growth during dynamic recrystallization Nikhil Chandra Admal, University of California Los Angeles, USA	Mesoscopic envelope model and phase field simulations of columnar and equiaxed dendritic growth Alexandre Viardin, ACCESS e.V., Germany	Multiscale description of the formation of spatially self-confined quasi-one-dimensional nano-phases around dislocations Gerard Paul Leyson, Max-Planck-Institut fur Eisenforschung, Germany
10:00	Gathering materials properties from literature for the design of new materials Lothar Kunz, Robert Bosch GmbH, Germany	alloys from a dynamical	Shear cessation in Brownian- dynamics simulation for 2D hard disks Sebastian Fritschi, University of Konstanz, Germany	mathematical theory of evolving curves	Modeling of radiation-induced precipitation in an under- saturated solute solution Duc Nguyen-Manh, Culham Centre for Fusion Energy, UK	Coarse-grained molecular dynamics simulation of amorphous polymers under multiaxial loading Yoshitaka Umeno, University of Tokyo, Japan	Collective influence of texture, grain shape, size and dislocation density on the plasticity of polycrystalline metallic thin films Hareesh Tummala, INP Grenoble and UCL, Belgium	convection on microstructure	Solute interaction with the bcc- fcc interface in iron Matthias Militzer, University of British Columbia, Canada
10:20	Coffee break Foyer Bar and Hall D'Accueil								
	ession 3 Romanée Conti er El-Azab, Purdue University, USA								
10:50	(plenary) <b>Data-driven materials re</b> Claudia Draxl, Humboldt University	esearch: Novel routes to new insight ,, Germany	t and predictions						
11:40	(plenary) Computational Mechan Somnath Ghosh, Johns Hopkins U	ics Approaches for Addressing the I niversity, USA	ntegrated Computational Materials	s Engineering (ICME) Initiative					
12:40	Presentation of poster prizes (poster prizes (poster prizes)  Lunch  Chambertin  Followed by coffee in Foyer Bar and	<u> </u>							
14:00 - 19:00	Excursions to Beaune or Dijon (p.	re-booked participants only)							



R1 Amph	s <b>ession 4</b> i Romanée Conti k Van der Giessen, Zemike Institute	for Advanced Materials, Netherlands	s						
08:30	(plenary) <b>Crystallography in Curv</b> Axel Voigt, Technische Universität	ed Space - the Interplay of Crystall Dresden, Germany	ine Order, Geometry and Topology						
09:20	(plenary) <b>A new simulator for real</b> Alfonso H W Ngan, University of He	-scale dislocation plasticity based ong Kong, Hong Kong	on dynamics of dislocation-densit	y functions					
10:10	Results of the Image Art Competi	tion							
10:20	Coffee break Foyer Bar and Hall D'Accueil								
10:50	R9 Saint Romain Chair: Jörg Neugebauer, Max- Planck-Institut für Eisenforschung GmbH, Germany and Daniel Urban, Fraunhofer IWM, Germany	C8 R3 Santenay-Chablis Chair: Frederic Legoll, Ecole des Ponts and INRIA, France	D8 R4 Musigny Chair: Damien Vandembroucq, CNRS/ESPCI Paris, France	E8 R2 Morey Saint Denis Chair: Luis Barrales-Mora, Institute of Physical Metallurgy and Metal Physics, Germany	G8 R1 Amphi Romanée Conti Chair: Javier Gil Sevillano, University of Navarra, Spain	H4 R6 Volnay Chair: Blas Uberuaga, Los Alamos National Laboratory, USA	R8 Mercurey Chair: Jay Schieber, Illinois Institute of Technology, USA	J6 R5 Pommard Chair: Timothy Germann, Los Alamos National Laboratory, USA	M7 R7 Givry+Savigny Chair: Chad Sinclair, University of British Columbia, Canada
	(invited) Harnessing electronic structure for engineering alloy design through big data Krishna Rajan, University at Buffalo-the State University of New York, USA	(invited) Multiscale computations with MsFEM: a posteriori error estimation, adaptive strategy, and coupling with PGD model reduction Ludovic Chamoin, ENS Cachan - INRIA, France	(invited) Cooperative phenomena in the mechanical behavior of filamentous materials with molecular motors M. Carmen Miguel, University of Barcelona, Spain	(invited) Multiscale modeling of the recrystallization Marc Bernacki, Mines ParisTech, France	(invited) Solid solution hardening in Fe-X alloys (X = Si, Ni, Al, Cr) Daniel Caillard, CEMES-CNRS, France	(invited) Multiscale modeling of the influence of semi-coherent interfaces on point defect concentrations and point defect clustering Thomas Jourdan, CEA Saclay, France	(invited) Simulating mechanical properties of nanostructured polymers with coarse grained models Jean-Louis Barrat, Université Grenoble Alpes, France	(invited) Large scale atomistic simulations of the interaction of single arm sources with grain boundaries in FCC bipillars Satish Rao, EPFL, Switzerland	(invited) Analysis of experimental grain scale data in a crystal plasticity framework Grethe Winther, Technical University of Denmark, Denmark
11:20	High-Throughput approach for the discovery of novel hardmagnetic phases Georg Krugel, Fraunhofer IWM, Germany	Localized adaptive model reduction for multi-scale problems Felix Schindler, University of Muenster, Germany	Delocalized plastic flow in proton-irradiated monolithic metallic glasses Seunghwa Ryu, KAIST, South Korea	Simulation of sub-grain growth utilizing a computationally efficient level-set model Christian Mießen, RWTH Aachen University, Germany	Cross-slip in FCC solid solutions Wolfram Nöhring, École Polytechnique Fédérale de Lausanne, Switzerland	Modeling of one-dimensional migration of interstitial clusters and their growth behavior in alpha-iron under electron irradiation Yosuke Abe, Japan Atomic Energy Agency, Japan	Effect of network structure on fracture process of double-network gels by coarse-grained molecular dynamics simulation Keisuke Saito, Tohoku University, Japan	a transition from intrinsinc ductility to brittleness Döme Tanguy, CNRS-Lyon1,	Investigation of nonmetallic inclusion-driven failures Diwakar Naragani, Purdue University, USA
11:40	Interstitial solution enthalpies derived from first-principles: Knowledge discovery using high- throughput databases Tilmann Hickel, Max-Planck- Institut für Eisenforschung GmbH, Germany	Numerical upscaling by a localized orthogonal decomposition Patrick Henning, KTH Royal Institute of Technology, Sweden	Combining continuum mechanics with microscopic descriptions of nonlinear glassy rheology: Hybrid-lattice Boltzmann simulations Thomas Voigtmann, German Aerospace Center, Germany	Investigation of nanoscale field emitters on copper surfaces under high electric field Vahur Zadin, University of Tartu, Estonia	A unified model for solid solution strengthening in high- entropy BCC alloys Francesco Maresca, École Polytechnique Fédérale de Lausanne, Switzerland	Point defects in materials: measurement of elastic dipoles and polarisability effects Celine Varvenne, CNRS - CINAM, France	Inter-particle forces beyond the classical DLVO theory Christophe Labbez, ICB UMR 6303 CNRS, France	Atomic scale study of twinning in Zirconium Olivier Mackain, CEA, France	Towards an experimentally informed multiscale model of FIB-induced irradiation damage Julien Guénolé, FAU Erlangen-Nürnberg, Germany
12:00	Three-parameter crystal- structure prediction for sp-d valent compounds Thomas Hammerschmidt, ICAMS / Ruhr-Universität Bochum, Germany	An embedded corrector problem for stochastic homogenization Virginie Ehrlacher, CERMICS - Ecole des Ponts Paristech & INRIA, France	Fragility in shear-jammed suspensions Romain Mari, University of Cambridge, UK	Comparison of dislocation- based model of recovery and cross-correlation based EBSD measurements in single crystals Szilvia Kalácska, Eötvös Loránd University (ELTE), Hungary	Dislocation multiplication and cross-slip in continuum dislocation dynamics Thomas Hochrainer, Universität Bremen, Germany	Absorption rates for cluster- dynamics modelling of mixed 1D- 3D mobile species Gilles Adjanor, EDF R&D, France	Continuous-discontinuous long fiber-reinforced polymer structures: Modeling, characterization and validation Kay André Weidenmann, Karlsruhe Institute of Technology, Germany	The role of interfaces in nucleation of dynamic damage in FCC and BCC materials Tim Germann, Los Alamos National Laboratory, USA	Combined molecular dynamics/experimental study of the strength of Cu   Au multilayer nanopillar systems Adrien Gola, KIT / IAM-CMS, Germany
12:20	<b>Lunch</b> Chambertin Followed by coffee in Foyer Bar an	d Hall D'Accueil							

## Thursday October 13th, 2016 (continued)



B3	C9	F9	G9	H5	13	17	13	N5
								R7 Givry+Savigny
	Chair: William Curtin, École	Chair: Anter El-Azab, Purdue	•	Chair: Mira Todorova, Max-	Chair: Mikko Kartunnen,	0 ,	Chair: Aurelien Perron, Lawrence	Chair: Julien Fontaine, Ecole
	Polytechnique Fédérale de	University, USA	Universität Bremen, Germany	Planck-Institut fuer	Eindhoven University of	•	Livermore National Laboratory,	Centrale de Lyon, France
		•		Eisenforschung, Germany	Technology, Netherlands		· · · · · · · · · · · · · · · · · · ·	
Germany				G. ,				
(invited) <b>First-principles materials exploration of piezoelectrics</b> Tamio Oguchi, Osaka University, Japan	(invited) Speculatively parallel temperature accelerated dynamics Arthur Voter, Los Alamos National Laboratory, USA		(invited) Crystal Plasticity simulations of the mechanical behavior of Mg alloys Javier Segurado, Polytechnic University of Madrid, Spain	(invited) Mesoscale modeling of laser-induced crystallization of amorphous Ge Jaime Marian, University of California Los Angeles, USA	(invited) Multiscale modelling approach to the rheological behaviour of polymer nanocomposites: Nonequilibrium thermodynamics modeling coupled with NEMD simulations Pavlos Stephanou, ETH Zurich, Switzerland	(invited) Boundary layer formation in continuum dislocation dynamics Philip Eisenlohr, Michigan State University, USA	(invited) Crystal-melt interfacial fields: Determinism in pattern dynamics Martin Glicksman, Florida Institute of Technology, USA	(invited) Friction is Fracture: Classical shear cracks drive the onset of frictional motion Jay Fineberg, Hebrew University of Jerusalem, Israel
Synthetic screening of electrolytes for Li-Air batteries Reese Jones, Sandia, USA	Coupled atomistic/discrete- dislocation method in 3d Max Hodapp, Ecole Polytechnique Fédérale de Lausanne, Switzerland	A crystal plasticity formulation for HCP metals informed by dislocation dynamics Nathan Barton, Lawrence Livermore National Laboratory, USA	Intrinsic scale effects in the deformation of structural materials Christopher Woodward, Air Force Research Laboartory, USA	Alloying effects on the formation of C15 interstitial clusters in iron Luca Messina, CEA, DEN, Service de Recherches de Métallurgie Physique, France	Simulation of viscoelastic flows via Smoothed Particle Hydrodynamics combined with the Discrete Slip-Link Model Jay D Schieber, Illinois Institute of Technology, USA	Interface controlled devitrification kinetics in a binary Fe-C glass Chad Sinclair, University of British Columbia, Canada	Simulating rapid solidification by a self-consistent sharp- interface model Klemens Reuther, Friedrich Schiller University Jena, Germany	Molecular modeling of liquid/solid friction for nanofluidic applications Laurent Joly, Institut Lumière Matière, Université Lyon 1, France
molecular dynamics simulation on chemical reaction between	Using embedding into a polarizable solid to study defects in insulators David Gao, University College London, UK	Dislocation multiplication by glissile junction formation in discrete dislocation dynamics and crystal plasticity Markus Stricker, KIT-IAM Karlsruhe Institute of Technology - Institute for Applied Materials, Germany	A multi-scale model of dislocation creep in MgSiO3 perovskite Philippe Carrez, University of Lille 1, France	Multiscale study of plasma induced trapping of hydrogen isotopes in tungsten Petr Grigorev, SCK-CEN, Belgium	Multiscale modelling of buckling in thin polymer films and characterization by molecular dynamics Fabrice Detrez, Université Paris Est, Laboratoire MSME, France	towards a mesoscale	•	Contact mechanics of polymer composites; a decoupled multi- level approach Lambert van Breemen, Eindhover University of Technology, Netherlands
Investigating the relation of molecular conductance and structure for thousands of junction geometries Hector Vazquez, Czech Academy of Sciences, Czech Republic	A study of conditions for dislocation nucleation in coarser- than-atomistic scale models Akanksha Garg, FM Global, USA	microstructure variations on property scatter in additive	deformation of Earth's materials: recovery process and viable strain producing mechanism Francesca Boioli, Institut Lumière Matière, University of Lyon1,	in polycrystalline iron	Minimalist two-scale model for the viscoelastic behavior of elastomers filled with hard nano- particles Markus Hütter, Eindhoven University of Technology, Netherlands		of eutectic growth kinetics of NiZr-NiZr2 alloy at low undercoolings Sumanth Nani Enugala, IAM- CMS, Karlsruhe Institute of	Towards a full picture of a lubricant behavior under severe conditions Laetitia Martinie, INSAVALOR, France
Atomic-Green's-Function approach to phonon scattering by extended defects in silicon	Using Zwanzig's technique to investigate stochastic defect motion over small and large barriers	Rafting of single crystal Ni- based superalloys: results from a coupled phase-field and continuum dislocation dynamics	Unraveling the temperature dependence of the yield strength of tungsten single crystals using atomistically-informed crystal plasticity	Modeling of out-of-local equilibrium flux couplings in dilute aluminum alloys Maylise Nastar, CEA, France			Transition path sampling simulations of nucleation during solidification in nickel Grisell Diaz Leines Interdisciplinary Centre for	Capturing the small and large scales effect when modelling mixed lubrication Noel Brunetiere, Institut Pprime - CNRS, France
	Chair: Isao Tanaka, Kyoto University, Japan and Lothar Kunz, Robert Bosch GmbH, Germany  (invited) First-principles materials exploration of piezoelectrics Tamio Oguchi, Osaka University, Japan  Synthetic screening of electrolytes for Li-Air batteries Reese Jones, Sandia, USA  Tight-binding quantum chemical molecular dynamics simulation on chemical reaction between organic carbonate and Li anode in Li-air battery Keita Watanabe, Tohoku University, Japan  Investigating the relation of molecular conductance and structure for thousands of junction geometries Hector Vazquez, Czech Academy of Sciences, Czech Republic  Atomic-Green's-Function approach to phonon scattering	R9 Saint Romain Chair: Isao Tanaka, Kyoto University, Japan and Lothar Kunz, Robert Bosch GmbH, Germany  (invited) First-principles materials exploration of piezoelectrics Tamio Oguchi, Osaka University, Japan  Synthetic screening of electrolytes for Li-Air batteries Reese Jones, Sandia, USA  Tight-binding quantum chemical molecular dynamics simulation on chemical reaction between organic carbonate and Li anode in Li-air battery Keita Watanabe, Tohoku University, Japan  Investigating the relation of molecular conductance and structure for thousands of junction geometries Hector Vazquez, Czech Academy of Sciences, Czech Republic  Ras Santenay-Chablis Chair: William Curtin, École Polytechnique Fédérale de Lausanne, Switzerland  Coupled atomistic/discrete- dislocation method in 3d Max Hodapp, Ecole Polytechnique Fédérale de Lausanne, Switzerland  Using embedding into a polarizable solid to study defects in insulators David Gao, University College London, UK  A study of conditions for dislocation nucleation in coarser- than-atomistic scale models Akanksha Garg, FM Global, USA  Atomic-Green's-Function approach to phonon scattering  Using Zwanzig's technique to investigate stochastic defect	R9 Saint Romain Chair Isao Tanaka, Kyoto University, Japan and Lothar Kunz, Robert Bosch GmbH, Germany  (invited) First-principles materials exploration of piezoelectrics Tamio Oguchi, Osaka University, Japan  Synthetic screening of electrolytes for Li-Air batteries Reese Jones, Sandia, USA  Synthetic screening of electrolytes for Li-Air batteries Reese Jones, Sandia, USA  Tight-binding quantum chemical molecular dynamics simulation on chemical reaction between organic carbonate and Li anode in Li-air battery  Keita Watanabe, Tohoku University, Japan  R2 Morey Saint Denis Chair. William Curtin, École University, USA  (invited) Plasticity at the microscale: a discrete dislocation Arthur Voter, Los Alamos National Laboratory, USA  A crystal plasticity formulation for HCP metals informed by dislocation dynamics Nathan Barton, Lawrence Livermore National Laboratory, USA  Tight-binding quantum chemical molecular dynamics simulation on chemical reaction between organic carbonate and Li anode in Li-air battery  Keita Watanabe, Tohoku University, Japan  Investigating the relation of molecular conductance and structure for thousands of junction geometries Hector Vazquez, Czech Academy of Sciences, Czech Republic  Ratury of conditions for dislocation nucleation in coarser- than-atomistic scale models Akanksha Garg, FM Global, USA  Atomic-Green's-Function approach to phonon scattering  Atomic-Green's-Function approach to phonon scattering  R2 Morey Saint Denis Chair. Arter El-Azab, Purdue University, USA  (invited) Plasticity at the microscale: a discrete microscale: a discrete microscale: a discrete dislocation dynamics Nathan Barton, Lawrence Livermore National Laboratory, USA  Dislocation multiplication by glissile junction formation in discrete dislocation dynamics and crystal plasticity and referctive plasticity of silversity College Livermore National Laboratory, USA  Polytechnique Fédérale de Lausanne, Switzerland  A crystal plasticity for HCP metals informed by dislocation multiplication by glissile junction forma	R9 Saint Romain Chair: Isao Tanaka, Kyoto University, Japan and Lothar Kunz, Robert Bosch GmbH, Germany  (invited) First-principles materials exploration of plezoelectrics Tamio Oguchi, Osaka University, Japan  Coupled atomistic/discreta- discoation without on pale lectrolytes for LI-Air batteries Reese Jones, Sandia, USA  Tight-binding quantum chemica molecular dynamics smulation on chemical reaction between organic carbonate and U anode in Li-air battery Letta Varquez, Czech Aeademy of Sciences, Czech Republic  Atomic-Green's-Function approach to phonon scattering and carbonate and by nonon scattering approach to phonon scattering letting the relation of approach	R3 Santenay-Chabins Chair Issa Tanaka, Kyoto University, Japan and Lother Region (Invited) First-principles materials exploration of plezoelectrics Japan  (Invited) First-principles materials exploration of plezoelectrics Japan  (Invited) Speculatively parallel temperature accelerated dynamics Japan  (Invited) First-principles materials exploration of plezoelectrics Japan  (Invited) Speculatively parallel temperature accelerated dynamics Japan  (Invited) Plasticity at the microscale: a discrete discoation dynamics study of parallel wegyand, Karisruhe Institute of Technology, Germany  (Invited) Plasticity Simulations of the mechanical behavior of Ng alloys Javier Segurado, Polytechnic Javensce Javen	Research Jones, Sanda, USA  Synthetic screening of electrohytes for U-Ar batteres Resea Jones, Sanda, USA  Tight-binding quantum chemical molecular dynamics shulation of patient decembers of the content and large to the molecular dynamics shulation of patient dynamics shulation of patient decembers of the content of the	RS Sent Romain Committee Could Chart Assort Sental Romain Count Count Assort Sental Romain Count Count Romain Count Count Romain Count Count Romain R	162 Sametrays, Pyropic Clark Same Transis, Pyropic Clark Same Transis Contract Same Transis Cont

#### Thursday October 13th, 2016 (continued)



C O M E (i n ttl	R9 Saint Romain Chair: Alison Walker, University of Bath, UK and Tilmann Hickel, Max-Planck-Institut für Eisenforschung GmbH, Germany (invited) Optimization of	R3 Santenay-Chablis Chair: Alexei Lozinski, Laboratoire de Mathématiques de Besançon, France	R2 Morey Saint Denis Chair: Daniel Weygand, Karlsruhe Institute of	R1 Amphi Romanée Conti Chair: Javier Segurado Escudero,	R6 Volnay	R8 Mercurey	R4 Musigny + R5 Pommard	R10 Monthelie	R7 Givry+Savigny
n ti e	(invited) Ontimization of		Technology, Germany	Polytechnic University of Madrid, Spain	Chair: Thomas Jourdan, CEA Saclay, France	Chair: Lambèrt van Breemen, Eindhoven University of Technology, Netherlands	Chair: Ricardo A Lebensohn, Los Almos National Laboratory, USA	Chair: Patrice Turchi, Lawrence Livermore National Laboratory, USA	Chair: Guiseppe Carbone, Politecnico di Bari, Italy
	nanostructured materials for thermoelectric and electrothermal applications Ali Shakouri, Purdue University, USA	(invited) Adaptive GMsFEM and its applications Eric Chung, The Chinese University of Hong Kong, Hong Kong	(invited) Computational modeling of dislocations microstructure in deformed crystals and comparison with 3D X-ray microscopy Anter El-Azab, Purdue University, USA	(invited) Elasto-plastic behaviour of nanostructured bcc iron columnar structures Javier Gil Sevillano, University of Navarra, Spain	(invited) Formation and dissolution of protective oxide layers in a wet electrochemical environment Mira Todorova, Max-Planck- Institut fuer Eisenforschung, Germany	(invited) Micromechanics of semicrystalline polymers: towards quantitative predictions Hans van Dommelen, Eindhoven University of Technology, Netherlands	(invited) Continuous modeling of grain boundary structure in a field theory of dislocations and generalized disclinations Claude Fressengeas, LEM3 CNRS, France	(invited) Solidification in 4D: from Dendrites to Eutectics Peter Voorhees, Northwestern University, USA	(invited) An adhesive wear map for rough surfaces in dry sliding contact Jean-Francois Molinari, EPFL, Switzerland
tı c d N	Ab-initio modeling of thermal transport beyond the single crystal: effects of size, defects, dimensionality, and soft modes Natalio Mingo, CEA-Grenoble, France	Analysis and numerical simulation of patterns in incommensurate 2D layered materials Paul Cazeaux, University of Minnesota, USA	-	Heterogeneous deformation in ductile FCC single crystals in biaxial stretching: the influence of slip system interactions Jean-Lin Dequiedt, CEA, DAM, DIF, France	Hydrogen influence on diffusion in nickel from first-principles calculations Döme Tanguy, CNRS-Lyon1, France	Tensile deformation of amorphous and semicrystalline polymers Sara Jabbari-Farouji, University of Mainz, Germany	A FFT based-method for continuum dislocation and generalized disclination mechanics Stephane Berbenni, CNRS, LEM3 UMR 7239, France	Critical role of crystal orientation in the large-scale long-time spatiotemporal evolution of array patterns in directional solidification Alain Karma, Northeastern University, USA	Simulation of dry friction and wear at mesoscale using a multibody approach Guilhem Mollon, INSA Lyon, France
H fi P	Thermoelectric properties of half- Heusler heterostructures from first-principles calculations Peter Kratzer, University Duisburg- Essen, Germany	Multiscale Finite Element type approaches for convection- dominated problems in heterogeneous media Frédéric Legoll, Ecole des Ponts and INRIA, France	Impact of atomic scale segregation effects on microstructural evolution in binary magnesium-rare earth alloys Christian Mießen, RWTH Aachen University, Germany	Multiscale investigation of strain aging phenomena of pure alpha titanium Arina Marchenko, EDF R&D, France	Field modified diffusion in a hexagonal cell structure Markus Tautschnig, Imperial College London, UK	Polymer mechanical spectroscopy using coarse- grained molecular dynamics Morgane Mahaud, Mateis, France	Role of lattice curvatures on mechanical response of nanocrystalline materials using a couple stress elasto- viscoplastic fast Fourier transform framework Manas Upadhyay, Paul Scherrer Institute, Switzerland	Phase-field simulations and geometrical analysis of cellular solidification fronts Mathis Plapp, CNRS/Ecole Polytechnique, France	Thermostatting effects on microstructure evolution and material removal during grindin of a polycrystalline Fe surface - A molecular dynamics analysis Stefan J Eder, AC2T Research GmbH, Austria
la ti ti L	Ab initio calculations of the lattice thermal conductivity and the discovery of new thermoelectric materials Laurent Chaput, Université de Lorraine, France	Long-range electrostatic energies and forces for fragmentation methods Frederik Heber, Universität des Saarlandes, Germany	Multiscale modeling of a-boron and boron carbide Pavel Pokatashkin, Dukhov Research Institute of Automatics, Russia	Atomistically-informed crystal plasticity in MgO polycrystals under pressure Jonathan Amodeo, MATEIS Laboratory, INSA-Lyon, France	Multiscale thermo-chemo- magneto-mechanical modeling of polycrystalline magnetic shape memory alloys Olivier Hubert, LMT-Cachan, France		Grain boundaries in Field Dislocation Mechanics: a thermodynamic formulation for the tangeantial continuity condition of distortion at the interface Laurent Capolungo, MST-8, Los Alamos National Laboratory, USA	Mushy zone solidification and Temperature Gradient Zone Melting Guillaume Boussinot, ACCESS, Germany	Lattice defects evolving in subsurface zones during grindin processes of polycrystalline ferritic iron Ulrike Cihak-Bayr, AC2T Researc GmbH, Austria
<b>u</b> <b>a</b> G	using the quasi-harmonic approximation	From atoms to models of aging in metal tritides Peter Schultz, Sandia National Laboratories, USA	Microstructure formation during alloying reactions in nanofoils Vladyslav Turlo, Universite de Bourgogne, France	Dislocation based modeling for nuclear ceramics viscoplastic behavior Luc Portelette, CEA, France			Effects of interfaces and grain-to- grain interactions on shear banding in Al-Cu-Li rolled sheets Vincent Taupin, LEM3, France	Coupling CALPHAD to phase- field modeling for prediction of microstructure evolution during solidification Aurelien Perron, Lawrence Livermore National Laboratory, USA	Effect of the metallic counterface material on tribochemical wear of DLC coatings Julien Fontaine, Laboratoire de Tribologie et Dynamique des Systèmes, France
.8:00 B	Break								

14:00 End of conference



08:30	B5	C11	E11	G11	H7	15		N7
	R9 Saint Romain Chair: Thomas Eckl, Robert	R3 Santenay-Chablis	R2 Morey Saint Denis Chair: Franz Roters, MPI für	R1 Amphi Romanée Conti	R6 Volnay	R8 Mercurey	R4 Musigny + R5 Pommard	R7 Givry+Savigny Chair: Laetitia Martinie,
	Bosch GmbH, Germany and	Chair: Frederic Legoll, Ecole des Ponts and INRIA, France	Eisenforschung, Germany	Chair: Akiyoshi Nomoto, Central Research Institute of Electric	Chair: Jaime Marian, University of California Los Angeles, USA	Chair: Markus Hütter, Eindhoven University of Technology,	Chair: Stéphane Berbenni, Université de Lorraine, France	INSAVALOR, France
	Christian Elsässer, Fraunhofer	r ones and invita, rrance	Lisemorsening, dermany	Power Industry, Japan	or camornia 203 Angeles, COA	Netherlands	onversite de Londine, France	montheon, transc
	IWM, Germany			. ooaacay, sapa				
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	(invited) Intermediate models for	` '	(invited) Multiscale modelling of	(invited) Time evolution of the	(invited) Correlating disordering	(invited) Fluid flow and	(invited) Grain boundary plane	(invited) The impact of
	bridging from high-throughput	low-damping ferromagnetic	microstructure evolution in	velocity distribution of	energetics and amorphization	percolation in elastic contacts	structure-property relationships	coulombic interactions among
	data to materials properties Ralf Drautz, ICAMS, Germany	models Katie Newhall, UNC Chapel Hill,	polycrystalline materials: physical and numerical	dislocations Istvan Groma, Eötvös University,	resistance in complex oxides Blas Uberuaga, Los Alamos	Martin Müser, Saarland University, Germany	and fundamental zones Eric Homer, Brigham Young	polar molecules and metal substrates on lubrication
	Rail Diauz, ICAWS, Germany	USA	challenges	Hungary	National Laboratory, USA	oniversity, definially	University, USA	properties
		00/1	Ricardo Lebensohn, Los Alamos	ga.)	riadonal Eddoratory, Cort		omvoidity, core	Konstantinos Gkagkas, Toyota
			National Laboratory, USA					Motor Europe NV/SA, Belgium
00-00	O	Ab initia toolood a constanting	-	Managed Thomas of	Mississimological and the set	Multipole about a to		Hadamaa dhadab a kib aladaal
09:00	Combining the many-body GW and bethe-salpeter formalisms	Ab initio trained neural-network driven kinetic Monte Carlo		Mesoscale Theory of Dislocations: from the discrete	Microstructural evolution of graphite under irradiation: large	Multiscale phenomena in filament networks: What is	Continuous modeling of a grain boundary in MgO and its	Understanding the tribological behavior of industrial additives
	with polarizable continuum or	simulations of microstructure		to the continuum	scale molecular dynamics	common with buckypaper and	disclination induced grain-	in ACH/ACH systems using Tight-
	discrete models	evolution of irradiated iron		Alphonse Finel, LEM	simulations	cell division	boundary migration mechanism	Biding Quantum
	Xavier Blase, Institut Néel /	alloys		(ONERA/CNRS), France	Alain Chartier, CEA, France	Mikko Karttunen, Eindhoven	Xiaoyu Sun, Université Lille 1,	Chemicamethod
	CNRS, France	Luca Messina, CEA, DEN, Service				University of Technology,	France	Estelle Deguillard, Total, Japan
		de Recherches de Métallurgie				Netherlands		
		Physique, France						
09:20	Materials design of a room-	Stochastic approach to cluster	Heterogeneous deformation in	The role of weakest links and	Large scale simulations of	Chemo-mechanical coupling in	Investigating the interplay	Effect of graft density on the
	temperature maser	dynamics method	nickel-based superalloys	system size scaling in multiscale	monazite-type ceramic nuclear	shape memory polymers: Theory	between grain boundary facet	wear of polymer brush by coarse-
	Stuart Bogatko, Imperial College	Pierre Terrier, Université Paris-Est,	Hector Basoalto, University of	modeling of stochastic plasticity	waste forms	versus experiment	junctions and interfacial	grained molecular dynamics
	London, UK	CERMICS (ENPC) & CEA,	Birmingham, UK	Péter Dusán Ispánovity, Eötvös	Yaqi Ji, Forschungszentrum	Fathollah Varnik, Ruhr-Universität	dislocations	simulation
		DEN/SRMP, France		University, Hungary	Juelich, Germany	Bochum, Germany	Douglas Medlin, Sandia National	Ryo Takakuwa, Tohoku University,
							Laboratories, USA	Japan
				-	-	·	-	
09:40	Molecular origin of the charge	A numerical study of non-linear	A spectral method to solve multi-	• .	Multi-scale simulation of the	A FFT-based numerical	Connecting radiation damage	lonic liquids as lubricants: a
	carrier mobility in small molecule organic	polycrystalline materials through a homogenization technique	physics coupled elasto- viscoplastic boundary value	shedding in polycrystalline titanium alloys using discrete	experimental response of ion- irradiated zirconium carbide:	homogenization tool for the study of the thermal expansion	evolution and grain boundary structure	multi-parameter and multi-scale puzzle
	semiconductors	Thiago Schlittler, Laboratoire	problems	dislocation plasticity	role of the diffusion driven	of a TATB-based pressed	Blas Uberuaga, Los Alamos	Nicolas Voeltzel, LaMCoS - INSA
	Pascal Friederich, Karlsruhe	MSSMat - CentraleSupelec,	Pratheek Shanthraj, Max Planck	Zebang Zheng, Imperial College	clustering of interstitials	explosive	National Laboratory, USA	Lyon, France
	Institute of Technology, Germany		Institut für Eisenforschung,	London, UK	Jean-Paul Crocombette, CEA	Jean-Baptiste Gasnier, MINES		
			Germany		Saclay, France	ParisTech, France		
10:00	Coffee break							
	Foyer Bar and Hall D'Accueil							
Plenary s								
•	i Romanée Conti rmen Miguel, University of Barcelona	Snain						
		•						
10:30	(plenary) Size effects in fracture a Stefano Zapperi, University of Mila							
11:20	(plenary) Programming shape							
	L Mahadevan, Harvard University,	USA						
12:10	Closing remarks							
	François Willaime, CEA, France							
12:20	Lunch (pre-booked participants of	only)						
	Chambertin	d Hall D! Acquail						
	Followed by coffee in Foyer Bar an	u nali D'Accuell						