Speakers and titles of the talks

| Arias, Irene | Modeling and simulation of fracture in ferroelectric polycrystals |
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| Ariza, Pilar | Engineered grapgene based devices |
| Arroyo, Marino | Mechanics of confined solid and fluid thin films: graphene and lipid bilayers |
| Blesgen, Thomas | A Tucker Tensor approach for Kohn-Sham density functional theory |
| Cirak, Fehmi | Multiresolution subdivision surfaces in variational shape optimisation |
| Conti, Sergio | Folding patterns in partially delaminated thin films |
| Cuitino, Alberto | Non-local particle simulations reveal post-jamming response of highly confined granular solids |
| DeSimone, Antonio | Bio-inspired crawling motility across length scales: opportunities and challenges |
| Espanol, Malena | A Gamma-Convergence Analysis of the Quasicontinuum Method |
| Fraternali, Fernando | On the constitutive response and the wave dynamics of tensegrity lattices |
| Garroni, Adriana | Metastability and dynamics of screw discrete dislocations |
| Gavini, Vikram | Large-scale real-space Kohn-Sham density functional theory calculations |
| Govindjee, Sanjay | Variational upscaling in plasticity and viscoelasticity |
| Gürses, Ercan | Modeling of Spherulite Microstructure in Semicrystalline Polymers |
| Heyden, Stefanie | A micromechanical damage and fracture model for polymers based on fractional |
| | strain-gradient elasticity (poster) |
| James, Richard | How to find a better shape memory alloy than NiTi |
| Kochmann, Dennis | The Quasicontinuum Method Revisited: Recent Advances and Open Challenges |
| Kuhl, Ellen | A mechanical model explains brain development |
| Larsen, Christopher | Threshold formulations for material defects |
| Lew, Adrian | The simulation of brittle fracture problems with universal meshes |
| Leyendecker, Sigrid | Structure preserving multirate integration of constrained systems |
| Li, Bo | Dynamic inelasticity and failure in cryogenic ice under extreme loading conditions |
| Marian, Jaime | Atomistically-informed kinetic Monte Carlo simulations of Screw Dislocation Motion in Tungsten |
| Markenscoff, Xanthippi | Hadamard Instability Analysis for coupled thermo-mechanochemical Systems |
| Mielke, Alexander | Gradient structures and homogenization for thermomechanical systems |
| Molinari, Alain | A micro-mechanical approach for the dynamic fracture of ductile materials |
| Molinari, Jean Francois | A finite temperature atomistic/continuum coupled model for contact applications |
| Needleman, Alan | The Competition between Failure and Localization of Deformation in Progressively Softening Solids |
| Negri, Matteo | Quasi-static evolutions for a phase field model in fracture |
| Owhadi, Houman | Bayesian Numerical Homogenization |
| Rimoli, Julian | A Concurrent Multi-Scale Model for the Thermo-Mechanical Response of Materials |
| Romero, Ignacio | A fully Lagrangian method for fluid/solid interaction |
| Schmidt, Bernd | An analysis of crystal cleavage in the passage from atomistic models to continuum theory |
| Sulsky, Deborah | Convergence and Accuracy of the Material-Point Method |
| Yavari, Arash | Differential Complexes in Continuum Mechanics |
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