



4<sup>th</sup> International Symposium on  
**E**nergy **C**hallenges & **M**echanics  
- working on small scales

11-13 August 2015  
Aberdeen, Scotland, UK

### Speaker of Session 24

### ENERGY IMPACT OF SUPERCONDUCTORS



Dr. Yulia Trenikhina is a Postdoctoral Research Associate at Fermi National Accelerator Laboratory (Fermilab), USA. She works on material characterization of superconducting radio-frequency (SRF) resonators in order to improve their quality factor. Yulia received M.S. and Ph.D. degrees in Physics from Illinois Institute of Technology (Chicago, USA) in 2010 and 2014, respectively. Her Ph.D. thesis research was focused on characterization of nanoscale low temperature niobium hydride precipitants in superconducting niobium resonators. Her research interest covers a broad spectra of nano- and micro-scale characterization tools for material features in niobium and niobium-tin alloys.



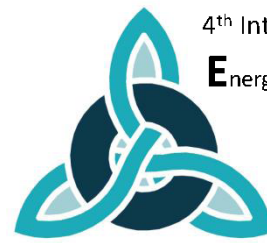


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