Keynote Lecturer Biography:

Prof. Matthew McCarthy
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Dr. Matthew McCarthy is an Assistant Professor in the Department of Mechanical Engineering and Mechanics at Drexel University in Philadelphia. He joined Drexel in the fall of 2010, and prior to that held Postdoctoral appointments in the Department of Mechanical Engineering at the Massachusetts Institute of Technology (2009-2010) and the Department of Electrical and Computer Engineering at the University of Maryland College Park (2007-2008). He received both his M.S. (2004) and Ph.D. (2006) degrees in Mechanical Engineering from Columbia University and his B.S. degree (2002) in Aerospace Engineering from Syracuse University. He is the director of the Multiscale Thermofluidics Laboratory at Drexel University and his research interests are in the areas of multi-scale thermal and fluidic systems with a focus on developing micro and nano fabricated structures for enhanced phase-change heat transfer, alternative dry-cooling technologies for energy applications, and chemical and biological separations. His research is funded by the National Science Foundation (NSF) and the Electric Power Research Institute (EPRI).