

# MRSEC SEMINAR SERIES

## **“New Approaches to Thermoelectric Materials Discovery and Design.”**

This talk will focus on the development of advanced thermoelectric materials within the Materials Genome Initiative paradigm. These efforts are driven by a close coupling of theory, computation, and experimental validation. The implementation of a high through-put search of known and hypothetical compounds for thermoelectric performance (NSF-DMREF) has led to the identification of new classes of thermoelectric materials. Further material development involves demonstrating materials with exceptionally strong phonon-point defect scattering cross-sections. In concert with computation, general design principles for such materials emerge.



**Eric Toberer, Ph.D.**

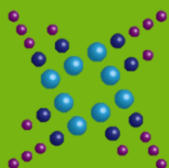
Department of Physics  
Colorado School of Mines

---

**Tuesday, August 18, 2015**

**Cook 2058**

**11:00 a.m. – 12:00 p.m.**



Northwestern University Materials Research Center

mrc@northwestern.edu - 847.491.3606

