EFree Energy Frontier Research in Extreme Environments Center

## Posters

- **Abhisek Basu** (Carnegie Institution of Washington)
  *Melting curve of iron*
- **Venkat Bhadram** (Carnegie Institution of Washington)
  1. *Discovery of new materials in Ti-O-N system using HPHT technique*
  2. *Rocksalt-ZnO:MnO solid solutions: synthesis, optical and magnetic properties*
- **Bo Chen** (Cornell University)
  *Mechanistic studies of nanothread formation from benzene under pressure*
- **Sabri Elatresh** (Cornell University)
  *Ground state of lithium: evidence from Fermi surface analysis*
- **Zachary Geballe** (Carnegie Institution of Washington)
  *Techniques to measure electrical conductivity, thermal conductivity and heat capacity at high pressure*
- **Michael Guerette** (Carnegie Institution of Washngton)
  *The Road to 24*
- **Steven Juhl** (Pennsylvania State University)
  *Low-dose transmission electron microscopy of carbon nanothreads*
- **Xiang Li** (Pennsylvania State University)
  *Synthesis and characterization of nanothread crystals under different pressure conditions*
- **Hanyu Liu** (Carnegie Institution of Washington)
  *High superconductivity in alkaline earth metal hydrides*
- **Yiqun Liu** (Lehigh University)
  *Synthesis of crystalline periodic mesoporous lithium aluminosilicate for energy applications*
- **Ajay Mishra** (Carnegie Institution of Washington)
  1. *Calcium hydrides: Synthesis at HP & HT*
  2. *Formation of S and Se hydrides at HP &HT*
- **Ivan Naumov** (Carnegie Institution of Washington)
  *Metallic surface states in insulating H, Li, Na and K*
- **Damian Paliwoda** (Lehigh University)
  *One- and three-dimensional diamond nanostructures prepared via templating method*
- **Xiao Tong** (California Institute of Technology)
  *Phonons in $Si_{24}$ at simultaneously elevated temperature and pressure*
- **Tao Wang** (Pennsylvania State University)
  *Identifying nanothreads tomic structures and exploring its electronic properties for energy application*
- **Nicholas Weadock** (California Institute of Technology)
  *Activation volume for hydrogen diffusion in $YFe_2H_{2.6}$ determined by QENS*