



# Energy Frontier Research in Extreme Environments Center 2016 Annual Meeting

## Agenda

### Monday, October 3

“ 7:00-9:00pm **Welcome Reception** ([Argonne Guest House](#))

### Tuesday, October 4 (Morning Session)

“ 7:30-8:30am **Gather & Continental Breakfast** ([APS E1100](#))

“ 8:30-9:00am **Introductory Remarks**

“ 8:30-8:35am **Welcome**  
(Stephen Streiffer, *APS Director*)

“ 8:35-9:00am **State of EFree – Review Comments and  
Response**  
**Overall Goals for Years 3 & 4 – Looking  
Toward Renewal**  
(Russell Hemley)

“ 9:00-11:15am **New Nanophase Carbons**

“ 9:00-9:30am **Synthesis**  
(Xiang Li)

“ 9:30-9:45am **TEM Characterization**  
(Steve Juhl)

“ 9:45-10:00am **Theory I**  
(Vincent Crespi)

“ 10:00-10:15am **Theory II**  
(Bo Chen)

“ 10:15-11:15am **Discussion**

“ 11:15-11:30am **Break**

“ 11:30-12:30pm **Porous Materials**

“ 11:30-12:00pm **Recent Results & Future Prospects**  
(Kai Landskron)

“ 12:00-12:30pm **Discussion**

“ 12:30-2:00pm **Lunch** ([APS Gallery](#))



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### Tuesday, October 4 (Afternoon Session)

- " 2:00-3:30pm      **Solar Materials**
  - " 2:00-2:20pm      **Overview and Update**  
(Tim Strobel)
  - " 2:20-2:40pm      **Water Splitting & Solar Materials**  
(Venkat Bhadram)
  - " 2:40-3:00pm      **Intrinsic Clathrate Nucleation**  
(Tianshu Li)
  - " 3:00-3:30pm      **Discussion**
  
- " 3:30-3:45pm      **Break**
  
- " 3:45-5:45pm      **Neutron Scattering**
  - " 3:45-4:05pm      **Overview, Opportunities for Cell Development, Inelastic Scattering and Pressure**  
(Brent Fultz)
  - " 4:05-4:20pm      **Discussion**
  - " 4:20-4:40pm      **New Pressure Cells, Opportunities for Neutron Diffraction**  
(Chris Tulk)
  - " 4:40-4:55pm      **Discussion**
  - " 4:55-5:10pm      **Recent Results, Issues for Inelastic Scattering**  
(Chen Li)
  - " 5:10-5:20pm      **Discussion**
  - " 5:20-5:35pm      **Results from Diffraction Experiments, Instrumentation Possibilities**  
(Konstantin Lokshin)
  - " 5:35-5:45pm      **Discussion**
  
- " 6:30-8:30pm      **Dinner ([Argonne Guest House](#))**



# Energy Frontier Research in Extreme Environments Center 2016 Annual Meeting

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### Wednesday, October 5

- " 7:30-8:30am Gather & Continental Breakfast ([APS E1100](#))
  
- " 8:30-10:00am Electron Transport in Light Element Materials
  - " 8:30-8:40am Project Update  
(Russell Hemley)
  - " 8:40-9:00am Perspectives  
(Neil Ashcroft)
  - " 9:00-9:15am Experimental Overview  
(Maddury Somayazulu)
  - " 9:15-9:25am Recent Developments  
(Ajay Mishra, Konstantin Lokshin, and Hanyu Liu)
  - " 9:25-10:00am Discussion
  
- " 10:00-11:00am X-ray Scattering: Results, Techniques, and Emerging Capabilities  
(Maria Baldini)
  
- " 11:00-11:15am Break
  
- " 11:15-12:30pm Poster Session ([APS Gallery](#))
  
- " 12:30-2:00pm Lunch ([APS Gallery](#))
  
- " 2:00-3:00pm Goal Setting for Year 3 and Closing Remarks
  
- " 3:00pm Adjourn