## Scientific Challenges to Elimination of HEU in Civilian Research Reactors

Workshop Agenda – April 3, 2017

APS Office of Public Affairs - 529 14<sup>th</sup> Street, NW, Suite 1050, Washington, DC <a href="https://attendee.gotowebinar.com/register/5257247059697419521">https://attendee.gotowebinar.com/register/5257247059697419521</a>

## ~MORNING SESSIONS~

8:00	Welcome/Introductions	J. Wells (University of Michigan, Ann Arbor) Study Chair	
	Overview of Study Motivation and Goals	J. Phillips (Sandia National Laboratories) *retired	
8:15	Status of US Neutron User Facilities		
	<ul> <li>Performance, International Standing, Scientific Trends, Demand, and Projections</li> </ul>	D. Neumann (Nat'l Institute of Standards and Tech.)	
9:15	HEU-Fueled Reactors and High-Flux Materials Testing Applications		
	• ATR and Materials Testing (30 mins.)	S. O'Kelly (Idaho National Laboratory)	
	• HFIR and the Isotope Production Program (30 mins.)	D. Dean (Oak Ridge National Laboratory)	
10:15	Science Conducted at HEU Civilian Reactors		
	<ul> <li>Hard Condensed Matter Science with Neutrons (30 mins.)</li> </ul>	K. Ross (Colorado State University)	
10:45	~BREAK~		
11:00	Science Conducted at HEU Civilian Reactors (continued)		
	■ Soft Matter Science with Neutrons (30 mins.)	J. Kornfield (California Institute of Technology)	
	<ul> <li>Fundamental Physics with Neutrons (30 mins.)</li> </ul>	G. Greene (Oak Ridge National Laboratory)	
	<ul> <li>Biological Sciences with Neutrons (30 mins.)</li> </ul>	J. Katsaras (Oak Ridge National Laboratory)	

12:30 ~LUNCH~

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## ~AFTERNOON SESSIONS~

1:15	HEU vs. Spallation Sources	R. Pynn (Indiana University, Bloomington)
1:45	Proliferation and HEU Reactors	A. Glaser (Princeton University)
2:15	~BREAK~	
2:30	HEU to LEU Conversion	P. Lemoine (CEA - The French Atomic Energy Commission)
3:00	International Perspective on Neutron Science Facilities	W. Petry (Technical University Munich)
3:30	Adjournment	