International Benchmarking Panel

The International Benchmarking Panel is a HEPAP Subpanel charged by the Department of Energy and the National Science Foundation to "develop a report providing further input on possible P5 implementation strategies, particularly in the unique international context of particle physics". A link to the charge and the specific questions the Panel is to consider can be found here. The Panel will provide a report to HEPAP in the fall.

The Panel is comprised of the following experts across HEP:

Mei Bai (SLAC), Marcela Carena (FNAL), Scott Dodelson (CMU), Dan Dwyer (LBL), Tova Holmes (UTK), Andy Lankford (UCI), Wim Leemans (DESY), Sekazi Mtingwa (NRC), Tsuyoshi Nakaya (Kyoto), Brian Nord (FNAL), Ian Shipsey (Oxford), Stefan Soldner-Rembold (Manchester), Lindley Winslow (MIT), Bonnie Fleming (Yale, Co-Chair), Patricia McBride (FNAL, Co-chair), JoAnne Hewett (HEPAP Chair, ex-officio)

We welcome community feedback! Please reach out to anyone on the Panel to express your thoughts and views on our charge.

https://sites.google.com/yale.edu/internationalbenchmarkingpanel/home

Committee

Spans expertise across areas relevant for the 2014 P5 Science Drivers

Mei Bai (SLAC), Marcela Carena (FNAL), Scott Dodelson (CMU), Dan Dwyer (LBL), Tova Holmes (UTK), Tsuyoshi Nakaya (Kyoto), Andy Lankford (UCI), Wim Leemans (DESY), Sekazi Mtingwa (NRC), Brian Nord (FNAL), Ian Shipsey (Oxford), Stefan Soldner-Rembold (Manchester), Lindley Winslow (MIT)

Co-Chairs: Patty McBride (FNAL), Bonnie Fleming (Yale)

Ex-officio: JoAnne Hewett (SLAC)

Report Charge questions:

- How can the U.S. particle physics program maintain critical international cooperation in an increasingly competitive environment for both talent and resources? In areas where the U.S. is leading, how can we sustain our roles and attract the best international partners? In other areas, how can the U.S. build and maintain its reputation as a “partner of choice”? In general, are there barriers that can hinder our ability to form effective and enduring international partnerships?

Report Charge questions:

- Identify key areas where the U.S. currently has, or could aspire to, leadership roles in High Energy Physics (HEP) via its unique or world-leading capabilities (i.e., advanced scientific facilities and tools), or leading scientific and technical resources, including highly trained personnel and supporting infrastructure. This may include emerging areas or opportunities that offer significant promise for leadership. To preserve and foster U.S. leadership roles within reasonable resource constraints, are there particular technical areas or capabilities that could be emphasized? Are there other technical resources and capabilities that could be leveraged in to achieve these goals, possibly through collaborations within and beyond the HEP community?

Report Charge questions:

- How can programs and facilities be structured to attract and retain talented people? What are the barriers to successfully advancing careers of scientific and technical personnel in particle physics and related fields, and how can U.S. funding agencies address those barriers? A complete answer to these questions must address how we can ensure that we are recruiting, training, mentoring, and retaining the best talent from all over the world, including among traditionally underrepresented groups within the U.S.

Panel Organization

4 sub-committees:

- Big experiments (LHC, DUNE, Cosmic) (Chair: Andy Lankford)
- Small experiments/Instrumentation/Quantum/AI/ML (Chair: Ian Shipsey)
- Accelerator program (Chai: Mei Bai)
- Workforce (Chair: Sekazi Mtingwa)

Town hall format: Hear briefly from each sub-committee Chair followed by feedback/questions/comments from all of you…