

**US LUO
Becoming an APS Unit ?**



USLUO Funding in Future

- ❑ **Goodwill-based funding cannot be guaranteed in future**
 - ➔ **Washington Visit funds are a problem, as government funds cannot be used for lobbying**
 - ❑ **2008 partially funded by DPF; remainder from University funds**
 - ❑ **2009 visit: Concerted efforts resulted in \$5K from DPF (young people), FRA, Stanford (ATLAS members) + Harvard, Caltech**
 - ❑ **2010 visit: \$ 5k from DPF and University Funds**
- ❑ **Proposal for the future**
 - ➔ **Solicit funds from membership (Fees or Voluntary) \$20k is sufficient per year**
 - ➔ **Consider becoming an APS Unit: US LUEC and DPF, and the APS Officers generally favorable [More]**



Becoming an APS Forum

- ❑ **Give US LUO an appropriate well-recognized home**
 - ➔ Coincident with APS mission: to advance & diffuse the knowledge of physics, + issues at the interface: Living & working overseas; lobbying
- ❑ **US LUO: 900+ Members: appropriate size for a Forum: ~2% of the APS membership**
- ❑ **Fulfill US LUO's Needs**
 - ➔ Obtain and maintain: some funds to operate tax free status
 - ➔ Support for business and legal operations
 - ➔ APS returns part of Society's Dues to Forums; **Expect a few k\$ per year**
 - ➔ Collecting the Rest: Annual Donations of ~\$ 20 Each; \$ 10 Per Student
- ❑ **Steps and Issues: Discussions over the past year**
 - ➔ APS Treasurer/Publisher and Exec Officer Kirby are open to It
 - ➔ **Support from DPF: Discussed at US LUO Meeting and APS Meeting (Exec. Committee) in February: Favorable**
 - ❑ This month: **Topical group focus would make DPF uncomfortable**
 - ➔ **For a Forum: APS Presidents (Callan, Barish) and Kirby note would like to see a broader mission: *Forum on Large Int'l Collaborations***



APS: Which Type of Unit A Topical Group ?

- ❑ **Focuses on a particular area of physics**
 - ➔ LHC Science is a rich area, encompassing the Energy Frontier (CMS, ATLAS), the Intensity Frontier (LHCb) and Heavy Ions (ALICE, CMS, ATLAS)
- ❑ **APS Constitution ARTICLE VIII - DIVISIONS, TOPICAL GROUPS, AND FORUMS**
 - ➔ **Organization.** - If at least two hundred members wish to advance and diffuse the knowledge of a specific subject or subfield of physics, they may petition the Council to establish a **Topical Group**. The Council shall distribute to the Chairperson and the Secretary-Treasurer of each existing Division and Topical Group a statement of the areas of interest of the proposed Topical Group for review and comment. Following Council approval, the new Topical Group shall be officially initiated and considered active when at least 200 members have enrolled. This must occur within 18 months. To remain active, a Topical Group must increase its enrollment to at least 300 within three years of approval. If at any time after the initial three-year period membership drops below enrollment of 300, the Topical Group shall become inactive and no longer allocate invited sessions at meetings or fellowship slots.



APS: Potential Topical Group Mission Statement

- ❑ *“ The Topical Group in LHC Physics was launched in 2011 to serve as a focus for research in all areas of high energy physics and accelerator physics at the LHC. We aim to highlight LHC results and synergies with explorations of dark matter, dark energy and the early universe. Other key themes of the Group are to highlight the work of young members of the LHC community, and facilitate the roles of physicists in the US and overseas.”*
- ❑ *Favored by DPF leadership, but the full DPF EC had concerns because of the overlap in the scientific mission.*



An APS Topical Group: Concerns

❑ Concerns with a Topical Group

- ➔ Aren't US LUO's roots the practical issues of enabling the community, living and working at CERN ? (Callan, DPF EC)
- ➔ Such a group should be more international rather than only US-focused. Especially as the APS will become increasingly international; this will be a major theme of the coming year. (Barish)
 - ❑ Recognizes the APS' lobbying role as well, which is naturally US-focused
- ➔ There is strong overlap with what DPF does in physics (DPF EC)



APS: Which Type of Unit A Forum ?

- ❑ **APS Constitution ARTICLE VIII - DIVISIONS, TOPICAL GROUPS, AND FORUMS**
- ❑ **If at least two hundred members wish to advance and diffuse knowledge regarding the interrelation of physics with matters not exclusively in physics, they may petition the Council to establish a Forum. The Council shall distribute to the Chairperson and the Secretary-Treasurer of each existing Forum a statement of the areas of interest of the proposed Forum for review and comment. If the membership of a Forum exceeds 2X percent of the total membership of the Society for two consecutive years, it shall qualify to have one Councilor. If the membership of a Forum falls below 1.4X% for four consecutive years, it shall lose its Councilor. If the membership of a Forum falls below two hundred for four consecutive years, it shall cease to exist.**



APS Forum for LHC Science

- ❑ **A possible mission statement for an FLHC:**
- ❑ ***“The Forum for LHC Science (FLHC) was launched in 2011 in order to facilitate the roles of APS physicists in the US and overseas in worldwide Large Hadron Collider collaborations in particle physics, heavy ion physics and accelerator physics. Key themes are to highlight the scientific work of young members of our LHC community in these large, international collaborations, to share and coordinate information and help with issues affecting physicists working at a great distance from their experiments or far from their home institutions, and to aid in the dissemination of LHC results to non-specialist audiences. In these matters, the Forum for LHC Science shares a broad outreach role with the Division of Particles and Fields. FLHC will seek to broadly address issues affecting physicists living and working abroad in coordination with the major international collaborations in other fields of physics, with the Forum on International Physics, the Forum on Graduate Student Affairs, the Committee on International Scientific Affairs and other APS units and committees as appropriate.”***
- ❑ ***Sent to APS Executive Officer (Kirby); discussed with the APS President and President-Elect and Treasurer.***
 - ➔ **Concerns**



APS Forum for LHC Science

- We received a welcoming reply from Kate Kirby but with the following advice:

“ ... Those that did weigh in were concerned about a Forum just focusing on a specific area of physics (i.e. LHC science). There was the suggestion that this proposal would be much more favorably looked upon if it were broader – i.e. encompassing other major international collaborations. One can think of such collaborations as becoming more frequent in the future, although I can think of a number going on right now: in astrophysics (ALMA – Atacama Large Millimeter Array), in fusion/plasma physics (ITER), etc. Whereas this forum might start out focusing on LHC science issues, as you point out in the last sentence of your draft mission statement, addressing "issues affecting physicists living and working abroad in coordination with the major international collaborations in other fields of physics" could be viewed as beneficial across a large spectrum of the APS. What about Forum on Large International Collaborations (FLIC)?? By broadening your scope I think that you enlist support from a larger segment of the physics community, and you do not tread on DPF turf.”



APS Forum for Large International Collaborations in Physics (FLIC)

□ A possible mission statement for an FLIC:

Following up on Kate's reply, here is a possible mission statement, to discuss.

“The Forum for Large International Collaborations in Physics (FLIC) was launched in 2011 in order to facilitate the roles of APS physicists in the US and overseas in worldwide collaborations in physics, including the LHC and other major high energy and nuclear physics collaborations, LIGO, the Virtual Observatory, ALMA, and many others. Key themes are to highlight the scientific work of young members of these large, international collaborations, to share and coordinate information and help with issues affecting physicists working at a great distance from their experiments or far from their home institutions, and to aid in the dissemination of results to non-specialist audiences. FLIC will broadly address issues affecting physicists living and working abroad, and will carry out its outreach roles in coordination with the Forum on International Physics, the Forum on Graduate Student Affairs, the Committee on International Scientific Affairs and other APS units and committees, as well as DPF and other Divisions as appropriate.”



APS Forum for Large International Collaborations in Physics (FLIC)

- ❑ **Present Status; Reply to the APS Executive:**
- ❑ “As previously noted, there may be a tension between the broad role of the FLIC, and the specific concerns of the LHC community which comprise much of the Forum's initial impetus. While the LHC will be a natural main focus of this Forum at the outset, in the longer term we will need to maintain some of the focus we have in US LUO, with attention to the specific issues of working at CERN and living in the surrounding region, and sessions at APS meetings and other activities by members of the LHC community.

Discussions therefore will need to continue, to refine and finalize the mission, and to determine how the appropriate level of LHC focus can be maintained within the context of the APS, even as we proceed to address the issues broadly, from an international perspective, which should be of interest to many APS units.

As the LHC program comprises the largest set of collaborations with worldwide extent, and is deeply engaged in and has found effective approaches to deal with some of the international issues that will affect many future collaborations, I do think it will be of great benefit to the APS for us to find the right balance, and to initiate this forum.”



US LUO: Benefits and Obligations of an APS Forum

- ❑ **US LHC APS Session at April Meeting [Also at the March Meeting]**
 - ➔ More Opportunities for LHC Talks by Students; Also to Other Fields
 - ➔ Engage with other Large Collaborations in HEP, NP, Astro, LIGO, etc., other APS Units (FIP, FPS) and Committees (CISA) on Common Issues
 - ➔ Invite prominent physicists and/or policy makers to give talks, or be members of focus panels
- ❑ **Can nominate members to be APS Fellows**
- ❑ **Student Talk Day at US LUO Annual Meeting**
Can be an APS Endorsed Conference and Announced
- ❑ **Obligation: US LUO Must Be an Organizational Unit of the APS**
 - ➔ APS officers (Ex-Officio; non-voting) on Our Executive Committee
 - ➔ Adopt the standard Executive Line structure of a Unit: Vice-Chair, Chair-Elect, Chair, Past Chair; Sec'y/Treasurer; plus At-Large Members; Newsletter (Editor)
 - ➔ Maintain Accounts at APS
 - ➔ For Lobbying Activities: Coordinate with APS Public Affairs (Lubell)
- ➔ **Note: Hypothetical Until It Is Done**



US LUO: Next Steps Towards An APS Forum

- ❑ Discussion among US LUEC, and US LUO
- ❑ Discuss with DPF (Chip Brock, Patty McBride)
- ❑ US LUEC Discussion (e.g. Half Day Meeting) With APS Presidents & Executive, together With DPF
 - ➔ Finalize Mission Statement and discuss activities
 - ➔ If favorable, review rules, obligations and opportunities
 - ➔ Detailed answers to questions: how to solicit and collect donations; how to start-up with a positive fund balance [With Treasurer Joe Serene]
 - ➔ Sketch out schedule for the process: (APS Council meets twice per year)
- ❑ Next: The First Steps in the Process:
 - ➔ Collect signatures (> 200)
 - ➔ Formulate proposal to APS Council