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Subject: Physics Education Meeting 3.2.2021 - Summary and Action Items
Date: Tuesday, March 2, 2021 4:38:00 PM
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Dear Randy and All,

Below are notes and action items from today's meeting.

Physics Education Meeting

Tuesday, March 2, 2021

1:00 PM – 2:03 PM EST

Attended: Randal Ruchti, Azwinndini Muronga, Yining You, David DeMuth, Marge Bardeen, Kenneth Cecire, Sijbrand de Jong, Sudhir Malik, Ketevi Assamagan, Daria Wang (ORISE)

- This group is operating on a "fortnightly" schedule. End of June we will resume with the regular schedule. Last time we discussed WP2 (K-12 education issues). 2 weeks prior to that Yining and his colleagues talked about WP3 (graduate education with focus on particle physics). WP1 (career and education) and WP5 (public education and international connections) – to be discussed today and during the next meeting.
- While there might be some limitations on the number of pages for the Topical Group and Frontier reports, there is no page limit for white papers. Recommended to first gather information and then cut it down to what's essential for the White Paper. We will use Microsoft Word and Google doc since we are not doing many equations.
- WP1 (Career and Education)
 - o LOIs:
 - 4 - Improving access to careers within HEP 4-yr Institutions
 - 14 - Study of the Potential for a new Masters Degree in Applied Physics
 - 15 - Preparing and Educating the Research Community and the Public for Particle Physics over the next two decades (2021-2040)
 - 19 - Study of New Mechanisms for Faculty Collaboration Across Academia
 - o Abstract as a starting point:
 - o Additional thoughts: DOE has Instrumentation Development Program which provides support for graduate students. It might be possible to encourage them to include stipend for Master's level students as a way of building up some momentum in this direction. Ways to join physics: coding engineers, hardware engineers, electrical engineers.
- WP5 (Public Education and International Connections)
 - o A [list of existing programs](#) is saved in the [google folder](#), they include:
 - African School of Fundamental Physics and Applications (diverse countries, Africa)
 - COSMICA (Mexico)
 - Life Lab Foundation QuarkNet-India (India)
 - MICA (Chile)
 - Netzwerk Teilchenwelt (Germany)
 - QuarkNet Cymru (Wales, southeast England)
 - QuarkNet-TW (Taiwan)
 - TanQ (Japan)
 - o In some instances there might not necessarily be established programs but there is some sort of work being done in classrooms due to the outreach done by QuarkNet. As an example, we have regular contact with China because one of our teachers is teaching in Shanghai.
 - o Additional thoughts: create a colorful map to indicate countries which have been reached; organize a zoom call for people involved in these efforts (perhaps, split in two calls to allow for different time

zones).

- Next meeting in 2 weeks from today.

Action Items:

- Shared google doc to collect all information is [here](#). LOIs need to be added here as well. Need to work out what these documents should look like, how to organize them.
- We will focus on International and Public Education WP next time. We will build on what Kenneth was talking about and then we will come back to WP1.
- Two meetings away we need to address computing (WP4).

Please, let me know if any changes are needed.

Thank you,

Daria Wang, CMP, DES

Event Project Planner

Scientific and Technical Resource Integration (STRI)



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