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**Cc:** "[Assamagan, Ketevi](#)"; "[Breese Quinn](#)"  
**Subject:** Physics Education Meeting 12.8.2020 - Summary and Action Items  
**Date:** Tuesday, December 8, 2020 5:03:00 PM  
**Attachments:** [image001.png](#)

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Dear All,

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

## Physics Education Meeting

**Tuesday, December 8, 2020**

**1:00 – 2:30 PM EST**

**Attended:** Randal Ruchti, Azwinndini Muronga, Sudhir Malik, Marge Bardeen, Ken Cecire, Breese Quinn, Kétévi Assamagan, Scott Kravitz, Daria Wang

### Summary:

- Summary and Action Items from each meeting are posted on Indico.
- CEF TG convener meeting took place on Fri, Dec. 4. Sudhir reported on the current progress made by the TG.
- Discussion on extension of the Snowmass process beyond Summer 2021.
  - o Email from DPF Chair about delaying Snowmass by 1 year. Reasons: large construction projects, based on the 2014 P5 recommendations, got delayed due to the COVID-19 pandemic and as a result, the original P5 timeline (the P5 report by the end of 2022) can be relaxed. Concern that people have not been able to contribute to Snowmass well enough due to pandemic. Concerns that face-to-face meeting in summer 2021 will not be possible.
  - o Benefits: flexibility with the timeline, can help us get more work done.
  - o Disadvantages: commitment extends to 2.5 years. A lot of people have put in a lot of work already – might lose momentum. Will lose people if paused. Burnout. Will not get a better product. Loss of motivation. People will continue working anyway. Extra year of 10% commitment each week.
  - o Suggestion: keep CSS scheduled as is and make it a workshop to exchange ideas, but push the deadline for WP completion to take advantage of the summer break to work on the final product. Complete WPs by Thanksgiving 2021.
- Kétévi shared that Kathryn Jepsen had a suggestion about keeping our activities going beyond Snowmass since the issues we are discussing are not going to disappear when Snowmass process is over. Want to find a way to continue the momentum. How do we ensure the implementation of the non-project recommendations. What if financial support is needed.
- White Paper group formation. See document [here](#).
  - o Received 30 LOIs. Formed a total of 5 White Papers:
    - Career/Education (Sudhir; Randy, SdJ)
      - Meeting the Challenges and the Opportunities - Educational Preparation and Training for Particle Physics and Related Research

and Technical Careers.

- General Education – K/12 and Up (TBD; Randy, SdJ)
  - Rethinking Science and Mathematics in Secondary Education - Bridging of K/12 Education and Research Science.
- Particle Physics Specific Education (SdJ; Randy, TBD)
  - Restructuring the Particle Physics Curriculum in Higher Education to meet Twenty-first Century Challenges.
- Global Software Issues and HEP (Sudhir; SdJ)
  - Recasting Software and Computing Education to Drive Experimental and Theoretical Advances in Particle Physics.
- Public Education and International Connections (TBD; Ketevi, Azwinndini, SdJ)
  - Particle Physics Without Boundaries – Scientific Experiments and Data Online and in your Hands.
- WP #6 ungrouped. Sudhir reached out to the author. Discussed that the author will be working on the paper on their own. Marge and Ken can potentially join this working group. Randy and Sudhir can make introductions via email.
- Marge and Ken could contribute to the General Education WP:
  - Driver: Rethinking Science and Mathematics in Secondary Education - Bridging of K/12 Education and Research Science.
  - WP2 outside expertise initial list (more points are welcome):
    - AAPT and APS Expertise and Data
    - QuarkNet and HS Teacher/Student Research Programs
    - HS, MS and ES teachers
    - National and Local Education Science and Mathematics Standards
    - International Expertise and Input
    - Input from Underrepresented Communities
    - Materials and Resources
  - Participants are those from our Topical Group and authors of LOIs. Group Organizers are to be in charge. Outside experts are also welcome to join the meetings.
  - Involve APS, their expertise, interest and engagement is welcome.
- Group organizers to take the lead and get LOI authors together. Reports from each working group should be provided to the Topical Group leaders. Working groups have autonomy to work on their WPs. Get started full speed in January 2021.
- Marge and Ken can also consider White Paper on Career and Education.
- Physics Education Topical Group meeting takes place every week on Tuesday at 1:00 PM EST. Marge and Ken are welcome to join any time.
- December 22 and 29 – no meeting.

#### **Action items:**

- Share your thoughts on the Snowmass extension deadline [here](#).
- Marge and Ken to take on the General Education WP, identify organizers and engage more participants.
- Discuss the structure and plan moving forward once the working groups are formed: format, schedule for updates etc. during the next meeting.

Thank you,

**Daria Wang, CMP**

**Event Project Planner**

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