

CEF4: Fortnightly TG Conveners' Discussion 16.Mar.21

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1. Minutes: Summary and Action Items from the last meeting of 2.Mar.21.

- Attached to Indigo agenda
- Thanks to Daria.
- Please review and send any comments.

2. For discussion today:

- Our coming fortnightly meetings are: March 30; April 13, 27.
- Ongoing discussion with our WP groups
 - There are 5 WP groups. Goal is to be ready to resume action by end of June 2021.
 - We request a very rough TLC draft from each by April 27, for those that can supply it.
 - We intend to have informal discussions during this period to provide guidance or input...
 - Information is being assembled on a googledrive set up by Vetri.
 - <https://drive.google.com/drive/folders/1evkFhL5OV7k8FYR6YLIPvPE8liEumsXw>
- Today's discussion is to review and discuss issues for WP5: Public Education and International Connections

Draft White Paper Titles (“Drivers”) to encourage participation and initiate group progress...

1. Career/Education (Sudhir; Randy, SdJ, _____)
 - Meeting the Challenges and the Opportunities - Educational Preparation and Training for Particle Physics and Related Research and Technical Careers.
2. General Education – K/12 and Up (Marge B; Randy, SdJ, _____)
 - Rethinking Science and Mathematics in Secondary Education - Bridging of K/12 Education and Research Science.
3. Particle Physics Specific Education (SdJ; Randy, Yining, _____)
 - Restructuring the Particle Physics Curriculum in Higher Education to meet Twenty-first Century Challenges.
4. Global Software Issues and HEP (Sudhir; SdJ, _____)
 - Recasting Software and Computing Education to Drive Experimental and Theoretical Advances in Particle Physics.
5. Public Education and International Connections (Ketevi, Azwinndini, Ken C, SdJ)
 - Particle Physics Without Boundaries – Scientific Experiments and Data Online and in your Hands.

WP5: LOIs and Public Education LOIs...

LOI	Title	Topical Group	Primary Contact	Alt TGs
058	Training in the US of Italian Science Students	CEF4	E. Barzi, G. Belletini, C.Luongo, S. Donati	
065	Expanding Fermilab's International outreach through European Networks	CEF2	E. Barzi	
002	The African School of Fundamental Physics and Applications (ASP)	CEF4, CEF6	K. Assamagan	

9,10,24 (multiple same submission)	An Extensible, experiment-agnostic file format to facilitate educational access to HEP datasets
27	CREDO-Maze: Multi-stage Global Network of school EAS Mini-arrays ('the quest for the unexpected')
29	The Cosmic Ray Extremely Distributed Observatory as a new quality public engagement and edutainment environment

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Public Education and International Connections

- Driver: Particle Physics Without Boundaries – Scientific Experiments and Data Online and in your Hands.
- WP5 Group Organizers
- WP5 Participants
- WP5 Outside Expertise
 - Practitioners and Developers
 - QuarkNet, IPPOG and Laboratory Education Projects
 - International Schools
 - International Education Practices
 - US Students at International Laboratories
 - International Students at US National Laboratories
 - Science diplomacy and Science for Peace

Draft: WP-TLC (White Paper Template/Logistics/Checklist)

CEF4: WP Title		
WP Coordinators		
WP Participant List and Contact Information		
Topic Driver(s)	Topic Leaders	
Work Organization	<p>What Needs to be Accomplished</p> <p>Timeline</p> <p>Meeting Schedule</p> <p>Presentations/Reporting</p>	<p>Deliverables</p> <p>Data to support deliverables</p> <p>Snowmass Meetings, Elsewhere</p> <p>To Snowmass groups</p> <p>To outside groups</p>
Connections/Links	<p>Links to other LOI</p> <p>Links to other CEF groups</p>	
Resources and Materials	<p>Data Collection</p> <p>External Expert Input</p> <p>Reference Documentation</p> <p>Funding needs (if any)</p>	<p>Input from other CEF groups</p> <p>Input from other Frontier groups</p> <p>Liaison assistance</p> <p>Input from APS, DPF, AAPT</p> <p>Input from DOE or NSF</p> <p>National Academy Studies, Snowmass2013 reports</p> <p>For information gathering</p>
Document Preparation	<p>Editor(s) selection</p> <p>Methodology</p>	<p>Googledoc...</p>
	Draft Abstract	Have this right away, then modify as work gets done?
	References	

Following dated slides for reference...

CEF4:WP2 - White Paper 2

General Education – K/12 and Up

- Driver: Rethinking Science and Mathematics in Secondary Education - Bridging of K/12 Education and Research Science.
- WP2 Group Organizers
- WP2 Participants
- WP2 Outside Expertise
 - 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

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Particle Physics Specific Education

- Driver: Restructuring the Particle Physics Curriculum in Higher Education to meet Twenty-first Century Challenges.
- WP3 Group Organizers
- WP3 Participants
 - Student(s) and postdoc(s)
- WP3 Outside Expertise
 - Graduate Curriculum Developers
 - Summer Studies and Summer Schools
 - Computational and Experimental/Theoretical Opportunities
 - Materials and Resources

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Global Software Issues and HEP

- Driver: Recasting Software and Computing Education to Drive Experimental and Theoretical Advances in Particle Physics.
- WP4 Group Organizers
- WP4 Participants
- WP4 Outside Expertise
 - Curriculum Developers
 - Summer Studies and Summer Schools
 - Computational and Experimental/Theoretical Opportunities
 - Materials and Resources