

Program Committee Meeting

May 18, 2022

J. Butler, Fermilab

PC Co-chairperson

Purpose of the afternoon plenaries

- To present the most important ideas and considerations that go into the formation of our **shared** scientific vision so everyone can understand, question, and hopefully eventually support it.
 - While we strive to avoid it, our community and Snowmass still suffer from compartmentalization, specialization, and stove piping.
 - **The frontiers were asked to propose topics that they particularly wanted to communicate to the whole community**
 - This is your chance to present and explain your vision to the whole community, identify its value to other programs and the importance of other programs to yours
 - Similarly, DPF, the SG, and the PC had a collection of topics that they wanted addressed
 - Some were presentations by various groups international or national or topical groups
 - Others were massively cross-cutting issues such as DEI, career issues for young scientists, sustainability, broader impacts, opportunities by young scientists to speak and present their issues.
 - Snowmass is a well-publicized event. The press will be present. We want to also project a good image.
 - We are already getting inquiries
 - We have yet to consider how to present ourselves to the public and press

	A	B	C	D	E	F	G	H	I	J	K	L	
1		Sunday, July 17	Monday, July 18	Tuesday, July 19	Wednesday, July 20	Thursday, July 21	Friday, July 22	Saturday, July 23	Sunday, July 24	Monday, July 25	Tuesday, July 26	Wednesday, July 27	
2		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10		
3	07:30 - 08:00 AM	Registration											LIGO Hanford Tour
4	08:00 - 08:30 AM												
5	08:30 - 09:00 AM												
6	09:00 - 09:30 AM												
7	09:30 - 10:00 AM	Introductory Plenary	Parallel	Parallel	Parallel	Parallel	Parallel	Parallel		Summary Plenary Closeout Plenary			
8	10:00 - 10:30 AM		Parallel	Parallel	Parallel	Parallel	Parallel						
9	10:30 - 11:00 AM		Parallel						Parallel				
10	11:00 - 11:30 AM												
11	11:30 - 12:00 PM												
12	12:00 - 12:30 PM												
13	12:30 - 01:00 PM	Lunch	Lunch, Poster & Exhibit	Lunch, Poster & Exhibit	Lunch, Poster & Exhibit	Lunch	Lunch	Lunch	Lunch	Lunch			
14	01:00 - 01:30 PM												
15	01:30 - 02:00 PM												
16	02:00 - 02:30 PM	Introductory Plenary	I Underground	G Panel: Careers and Training the Next Generations	ITF Report LQCD	Muon Collider Cosmic	RP+AMO Neutrino	ee Collider underground	G Snowmass Early Career	G Panel: Interconnections with other fields			
17	02:30 - 03:00 PM		I Cosmic	I Rare Processes	I Instrumentation	I Accelerator	I Theory	I Computing	Panel: Underrepresented Minorities; Instr awards	Coffee			
18	03:00 - 03:30 PM		Coffee										
19	03:30 - 04:00 PM	G Planning US HEP, past, present, future	Coffee							G Panel: where will we find new physics?			
20	04:00 - 04:30 PM	I Community Engagement	I DEI: Talks and Panel										
21	04:30 - 05:00 PM												
22	05:00 - 05:30 PM												
23	05:30 - 06:00 PM												
24	06:00 - 06:30 PM												
25	06:30 - 07:00 PM												
26	07:00 - 07:30 PM												
27	07:30 - 08:00 PM	Reception and Poster and Industry	Industry Networking		Adam Riess Public Lecture	Physics Slam	Conference Dinner						
28	08:00 - 08:30 PM							ColliderScope					
29	08:30 - 09:00 PM												
30	09:00 - 09:30 PM												
31	09:30 - 10:00 PM												
32	10:00 - 10:30 PM												
33	10:30 - 11:00 Pm												

I → Long plenary for Primary presentation of the Frontiers (10)
 II → Split session (two topics in parallel. Secondary presentations by Frontier (5x2)
 G → General topic (not specific to any frontier) (7)

A Variant

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16	02:00 - 02:30 PM	Introductory Plenary	Underground; AI/ML	G Panel: Careers and Training the Next Generations	Neutrino; RP& AMO	I Rare Processes	I Underground	I Cosmic	G Snowmass Early Career	G Panel: Interconnections between frontiers and with other fields	LIGO Hanford Tour							
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18	03:00 - 03:30 PM		Coffee	Coffee		Coffee	Coffee	Coffee	Coffee	G Panel: where will we find new physics?								
19	03:30 - 04:00 PM		G Planning US HEP, past, present, future	I DEI: Talks and Panel	I Community engagement		I Energy	G DOE, NSF, FNAL Director	G International Status and Plans	G Quantum Science in HEP								
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Purpose of the various types of talks

- We envisage that the blocks labelled “I” will be where the Frontier groups deliver their main message to the entire community in simple, direct terms, including conveying the excitement and greatest challenges
 - **There should be ample time for discussion, at least 20 minutes**
 - We will hold speakers to their time so that the discussion and Q&A does not get sacrificed
 - We will use ways of allowing questions to be submitted in advance and allow remote participation, with priority given to those who are attending in-person
- The blocks labelled II will be for more detailed, but still of wide interest, issues
- The blocks labelled “G” are for community wide issues,
 - including information transfer, plans from international partners, funding agencies, national and international laboratories
 - topics that are shared by all, or many, frontiers or are field-wide issues
 - Career issues
 - DEA
 - Training the next generation
 - ...

Notes

- Lunch break is two hours
- There is a 30-minute coffee break in the afternoon
- **Some of the evening events have been moved around and their starting time and duration may be changed to make sure that there is adequate time between the afternoon session and the event, and the event is placed appropriately for the intended audience.**
- Some rest and relaxation time is added on Wednesday, Friday, and Sunday
- I think some of the evening activities should be moved 30-60 minutes later

Some scheduling issues

- The speakers at the general session are agency or international people or members of the political system or public that have constraints.
 - They may not be able to be at Snowmass for the whole time
 - ECFA meeting at CERN on July 20/21
 - We have information about three important leaders from Europe
 - Fabiola Gianotti (CERN DG), Karl Jacobs (ECFA chair) plan to be full time for the 24 and the 25 and leave early on the 26th.
 - Eliezer Rabinovici, president of the CERN Council will arrive on July 23, so will have approximately the same stay
- There are other constraints, such other conferences and workshops
- **We are likely to get new requests**
 - **We expect a request from DOE/NSF for the types of meetings they have held at previous conferences and workshops, including Snowmass 2013.**
 - **Same is true with NSF**
- If some Frontiers may be willing to reduce their requests that would help (no takers so far)

DOE Meetings during the CSS

There are three types of activities. While this may not be what one thinks of for a Snowmass, there is precedent from 2013, where these meetings were felt to be valuable and were well attended. This year, the agencies are trying to reconnect in-person with their PIs and this Snowmass provides a good opportunity. All the Program Managers from the main science sectors are showing up in-person, along with much of OHEP upper management.

- DOE Program Officers (HEP, Intensity, Cosmic, Theory) each want two hours to meet with their constituencies, i.e., PIs they support. The size of the groups will vary but will not exceed 100. They expect two of these to be in parallel on two evenings (e.g. Tuesday and Thursday). So, we need two rooms on each day for two hours.
- Small meetings with individual PIs or their groups, so up to 10 people. They need access to 5 small rooms for a few days. Could be during the mornings or afternoons.
- (This may not be something they decide they want) rooms for 1-2 hours for a large number of people to hear about major DOE programs such as FOAs, budget outlook early career issues,... Possibly during lunch, now that we can order in.
- Even without group 3, this requires a lot of rooms and occupy people for a lot of their time. However, the meetings were reasonably well attended in 2013. Tuesday and Thursday evening are the best days to do group 1. Group 2 would probably need to be over a few lunches during the week, if they are in fact needed.

Need to find out what NSF needs!

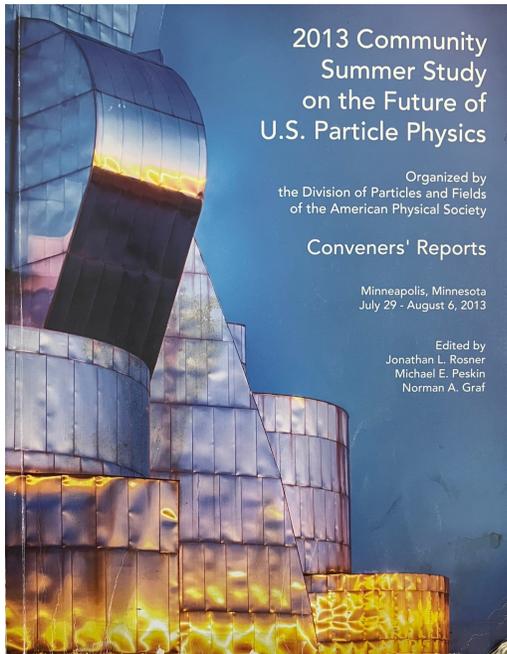
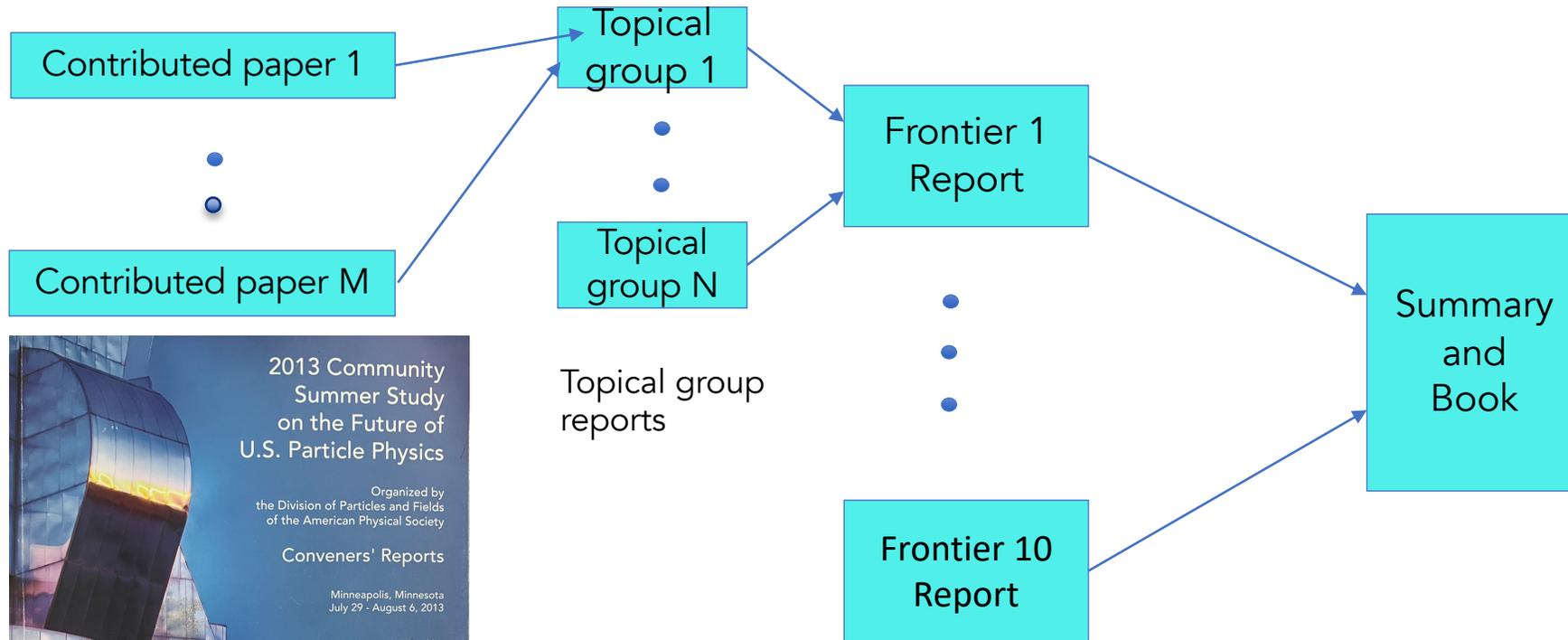
Day 1: July 17

- 9:15 – 09:35:
 - CSS Welcome and meeting logistics (5 min)
 - UW Welcome (University, Physics, HEP) (15 min?)
- 09:35 – 09:50: Charge and goals for the workshop
- 09:50 – 10:20: Two frontier workplans
- 10:20 – 10:50: Coffee break
- 10:50 – 11:35: Three frontier workplans
- 11:35 – 12:00: Vision Talk
- 12:00 – 13:30: Lunch
- 13:30 – 14:00 Science talk
- 14:00 – 14:30 Two Frontier Workplans
- 14:30 – 14:45 Snowmass Early Career Workplan
- 14:45 – 15:30 Three frontier Workplans
- 15:30 – 16:00: Coffee break
- 16:00 – 18:00: Snowmass/P5 2013/2014 retrospective, lessons learn
 - Where we are on implementation of P5/2014
 - Finishing the Snowmass/2021(?) Book
 - Planning exercises in 2022/23: View from HEPAP: Snowmass, NAS study, International Benchmarking subpanel

Days 9 and 10: Preliminary Thoughts

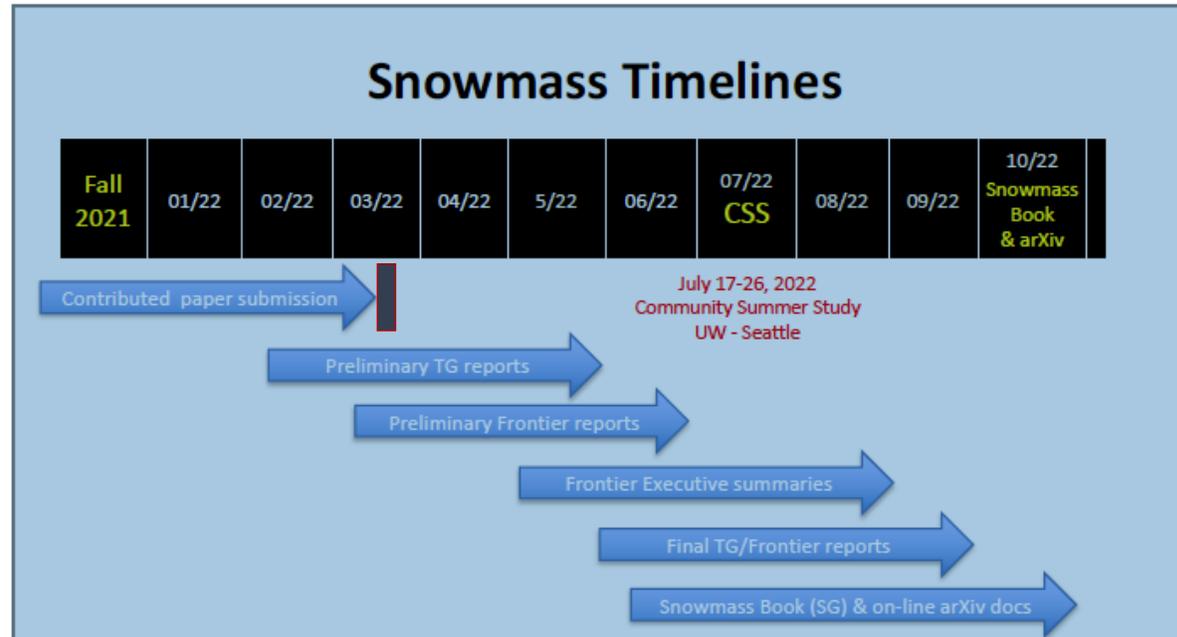
- We have 5 hours possibly available for Frontier summaries and other talks
 - This is reduced to 4.5 hours by the need for a morning coffee break
- If we allow 20'/frontier, we use , 3 hours and 20 minutes and have time for another talk session.
- The goal of the talk is to remind people of the major recommendations but mainly to focus on the state of your report for the Snowmass book, which should in general be “almost done”, so you could provide a “punchlist” of important tasks that are incomplete.

The Snowmass Book - 2021



- Report cover from Snowmass 2013, report is~ 350 pages
- The new report is expected to be ~500 pages
- All Contributed Papers will remain part of the permanent record of Snowmass

Timeline for Snowmass Book



- **March 15: Contributed papers (a.k.a. White Papers)**
- **May 31: Preliminary Topical Group Reports**
- June 30: Preliminary Frontier Reports
- **July 17 – 26: Converge on reports for all the frontiers and produce executive summaries representing the views of their communities and providing the basic input needed for P5**
- September: draft Executive Summary and Report Summary
- October- November: Snowmass Book finalized and ready for submission

Backup Slides

Suggestions for Plenary Sessions Organized by the Program Committee – Some examples

- RPF
 - Colloquium 1 (**full plenary block**):
 - Flavor physics and QCD
 - Discrete symmetries, baryon, and lepton number violation
 - Dark matter and rare processes
 - Colloquium 2 (**shared block**):
 - RPF+AMO
- CF
 - Colloquia 1: Dark Matter as a Science driver for fundamental physics (community wide, with representatives from energy, rare processes, theory, and neutrino, ~3 hours).
 - Colloquia 2: Cosmic Probes of Fundamental Physics (community wide, with representatives from energy, rare processes, theory, and neutrino, ~2 hours)
- CEF
 - Colloquium 2.5h. CEF will propose the topics and format after their April 29 meeting. This could be arranged as a panel discussion.
- IF
 - Special CPAD Awards ceremony with invited talks by 2021 DPF Instrumentation Award winners and GIRA award winners, highlighting recent achievements in instrumentation and current key challenges, as well as career pipeline
 - Colloquium: motivational talks about direction, technological key issues, career pipeline, facilities

<https://docs.google.com/document/d/11F9W5JwVZLp9JfUN7EhVUg5orycYMNOO36i1saqoFrg/edit>

Snowmass SLACK channel: ssss-program-committee

Categories for General Sessions – Preliminary Thoughts - DPF Chair Line

- **Domestic Program:**
 - Overview from US funding agencies
 - Overview from US Lab directors
 - View from HEPAP and Previous P5 chairs and members
 - DOE and NSF also want to do some focused activities, such as meeting with PIs to discuss grant issues
 - Perhaps a perspective from some people in Government, Congress,
- **International and Interdisciplinary Program**
 - Presentations and panels of foreign lab directors
 - Plans and planning process in other regions and nations
 - ICFA, ECFA, perspective etc
 - CERN and US collaboration
 - Possibly Ukraine, Russia impacts
 - Collaboration with Astrophysics (DAP), Nuclear (DNP), Gravity (DGRAV), DPB (also AF)
- **Special sessions on New and Evolving Technologies**
 - Special session on Quantum including academic and commercial participation. how can HEP contribute?
 - Special session on Gravitational Waves - HEP community is excited about this new way to experimentally probe the universe. How can HEP make the most out of this new opportunity?
 - Special session on AI – how can HEP contribute?
- **Engagement**
 - STEM,
 - Promoting DEI: Gender, race, sexual orientation,
 - supporting people with disabilities,
 - Careers issues in HEP,
 - How can we encourage people to work on “enabling technologies” in HEP? Instrumentation, computing, etc
 - Sustainability in the next round of HEP projects, current operations, etc,
 - A report on the US Congressional visits and other outreach activities to the government,
 - Outreach: do we do it well enough