

# CPM status update

NF CPM prep meeting 09/16/2020  
Patrick Huber

# CPM goals

The primary goal of the Community Planning Meeting is **to develop plans and steps to take (“Snowmass Planning”) between October 2020 and the Snowmass Community meeting in July 2021, leading to a final report in October 2021.**

Other goals include:

- Inspire the community about the field, and encourage them to engage broadly in the Snowmass process
- Inform the community about plans from other regions and from related fields and planned Snowmass activities
- Listen to the community
- Provide space for members across the field to talk to each other and to discuss, promote, and develop new ideas
- Establish cross working-group connections and identify gaps

From the CPM indico page <https://indico.fnal.gov/event/44870/>

<b>About Snowmass and Snowmass Planning Meeting</b> <i>Virtual</i>	<b>Day 1</b> 11:00 - 11:20
<b>Exciting Physics Before Us</b> <i>Virtual</i>	<i>JoAnne Hewett</i> 11:20 - 11:45
<b>Strategies and Plans in Other Regions: Europe and Russia</b> <i>Virtual</i>	<i>Jorgen D'Hondt</i> 11:45 - 12:10
<b>Strategies and Plans in Other Regions: Asia and Pacific</b> <i>Virtual</i>	<i>Geoffrey Taylor</i> 12:10 - 12:35
<b>Break and Chat</b> <i>Virtual</i>	12:35 - 13:00
<b>Strategies and Plans in Other Regions: Canada</b> <i>Virtual</i>	<i>Brigitte Vachon</i> 13:00 - 13:10
<b>Strategies and Plans in Other Regions: Latin America</b> <i>Virtual</i>	<i>Rog�rio Rosenfeld</i> 13:10 - 13:20
<b>Strategies and Plans in Other Regions: Africa and Middle East</b> <i>Virtual</i>	<i>Shaaban Khalil</i> 13:20 - 13:30
<b>Strategies and Plans in Related Fields: Astrophysics</b> <i>Virtual</i>	<i>Fiona Harrison</i> 13:30 - 13:45
<b>Strategies and Plans in Related Fields: Nuclear Physics</b> <i>Virtual</i>	<i>Kate Scholberg</i> 13:45 - 14:00
<b>Remarks from Funding Agencies to the Snowmass Process: DOE</b> <i>Virtual</i>	<i>Jim Siegrist</i> 14:00 - 14:10
<b>Remarks from Funding Agencies to the Snowmass Process: NSF</b> <i>Virtual</i>	<i>Saul Gonzalez</i> 14:10 - 14:20
<b>Break and Chat</b> <i>Virtual</i>	14:20 - 14:45
<b>Plenary Three: Voices from the Community</b> <i>Young-Kee Kim Kim</i>	14:45 - 16:00

11:00	<b>Report from Early Careers</b> <i>Virtual</i>	<b>Day 4</b> 11:00 - 11:20
	<b>Report from Energy Frontier</b> <i>Virtual</i>	11:20 - 11:40
	<b>Report from Neutrino Frontier</b> <i>Virtual</i>	11:40 - 12:00
12:00	<b>Report from Rare Processes and Precision Measurements Frontier</b> <i>Virtual</i>	12:00 - 12:20
	<b>Break and Chat</b> <i>Virtual</i>	12:20 - 12:45
	<b>Report from Cosmic Frontier</b> <i>Virtual</i>	12:45 - 13:05
13:00	<b>Report from Theory Frontier</b> <i>Virtual</i>	13:05 - 13:25
	<b>Report from Accelerator Frontier</b> <i>Virtual</i>	13:25 - 13:45
	<b>Report from Theory Frontier</b> <i>Virtual</i>	13:45 - 14:05
14:00	<b>Break and Chat</b> <i>Virtual</i>	14:05 - 14:30
	<b>Report from Computing Frontier</b> <i>Virtual</i>	14:30 - 14:50
	<b>Report from Underground Facilities and Infrastructure Frontier</b> <i>Virtual</i>	14:50 - 15:10
15:00	<b>Report from Community Engagement Frontier</b> <i>Virtual</i>	<i>Ketevi Adikle Assamagan</i> 15:10 - 15:30
	<b>Engaging the Community to Define the Future (1)</b> <i>Virtual</i>	<i>Steve Ritz</i> 15:30 - 15:40
	<b>Engaging the Community to Define the Future (2)</b> <i>Virtual</i>	<i>Jim Gates</i> 15:40 - 15:50
	<b>Closing Remarks</b> <i>Virtual</i>	15:50 - 16:00

# Voices from the community

- 75 minutes on day 1
- 20-25 3 minute presentations
- Focus on smaller, newer and less known projects/ideas
- Room also for general comments
- Goal is have a representative cross section of the field
- Selected from submitted abstracts by the Snowmass Steering Committee
- For details, see recent email from Joel Butler

# CPM parallels

- 9 hour parallel time on days 2 & 3
- 75 minutes for Outreach & Community engagement
- 45 agreed-on cross-cutting sessions, 11 with NF involvement
- 2 hour NF exclusive time to come up with and/or refine plan towards CSS 21
- 30 minutes at the start of day 2 for orientation
- 90 minutes at the end of day 3 to consolidate

# Community Engagement Across the Frontiers

- Over the next decade it will be **vital** to ensure that neutrino physics is well represented to the public, government, and in other community engagement areas:
  - A majority of Americans are indifferent to US leadership in STEM research
  - The public feels that **it's their right to pick and choose** what science is valid, based upon the **payoff** (not the data)
  - Source: <https://www.youtube.com/watch?v=J1NJG98PaXY> Dr Christopher Volpe, SciComm2020 keynote
- There will be a 75 minute plenary session at the beginning of day 3 of the CPM.
  - Brief 15 minute talk to start
  - 60 minute panel discussion in which we discuss the concerns/ideas/positions on CEF issues in our respective Frontiers.
  - Panelists are all the CEF liaisons (Claire Lee for NF)

## Topical groups

- [CommF1: Applications & Industry](#)
  - [CommF2: Career Pipeline & Development](#)
  - [CommF3: Diversity & Inclusion](#)
  - [CommF4: Physics Education](#)
  - [CommF5: Public Education & Outreach](#)
  - [CommF6: Public Policy and Government Engagement](#)
- We're now preparing for the panel session, focusing on CEF from a NF perspective.
    - Is there a particular CEF issue that is on your mind?
    - Is there something in particular you would like to highlight, or get people involved in?
    - [Please get in touch with Claire Lee \[claire.lee@cern.ch\]\(mailto:claire.lee@cern.ch\) to make sure it's represented at the discussion!](#)

Slide courtesy Claire Lee

# Sessions with NF involvement

3	ID	Frontiers	Inter Frontier Theme	Topical Groups	Meeting time
4	29	EF, TF, RF, NF	Low-energy precision experiments	EF04, RF03, TF02, TF05, TF06, NF05, NF03	60'
5	51	IF, NF, RF	Detector requirements with NF	IF01, IF02, IF04, IF05, IF07, IF08, IF09, NF, RF4	60'
6	61	AF, NF (same as #112)	Energy and Power and Time structure goals for Neutrino Frontier programs	AF2, AF7, NF	90
7	77	CF, TF, IF, UF, NF	Dark matter and quantum sensors	CF1, CF2, CF3, IF1, IF2, TF, UF, NF10, NF05	60
8	97	TF, CompF, NF, CF	Neutrino and astroparticles	TF11, NF01-06, NF09, TF05, TF07, CompF2, CompF7, CF7	60
9	108	RF, TF, CF, EF, NF	Light dark matter (keV-GeV) (or maybe light BSM at neutrino experiments)	EF09,EF10, EF4, CF1, RF6, TF11, TF09, NF02, NF03, NF05, NF09, AF05	120
10	109	RF, TF, NF	Neutrino mass and Dirac/Majorana nature	RF, CF7, TF11	120
11	110	NF, UF, RF	Lepton and baryon number violation	NF, RF4, UF1	60
12	81	NF (same as #114),	Computing Requirements/Opportunities NF	NF, CompF1, CompF4, CompF2, CompF3,	60
13	115	NF, UF	Neutrinos and underground facilities	NF, all UF	60
14	119	All Frontiers + Early Careers	HEP Workforce Staffing and Training	CommF4,CommF3, CommF2, all other Frontiers + early careers, , CompF1, CompF2, CompF3, CompF4, CompF5, CompF6, CompF7	90'

Note, titles are not necessarily accurate reflection of content at this stage and may change, look at the detailed program on Indico once available

# CPM parallels cont'd

- How to organize these sessions?
- Several frontiers are together, need to be mindful of different goals and physics perspectives
- 60-120 minutes and many topics to cover
- Can not be 1 talk per 1 LOI!
- At least 1/3 of the time should be for discussion/questions
- Please, make yourself available if asked to present
- Participate in the discussions