

USFCC HFSC report

15 Aug 2024

Marcel Demarteau, Sarah Eno, Ritchie Patterson, Srin
Rajagopalan

USFCC advisory council

We are happy to announce that we have formed a USFCC advisory council. Members include Lothar Bauerdick, Sarah Eno, Julia Gonski, John Hobbs, Christoph Paus, Tor Raubenheimer, Srinivasa Rajagopalan

Ex-officio members include Marcel Demarteau and Ritchie Patterson

More accelerator-community members will be added later.

This committee will help advise the US FCC leadership, including the many tasks needed to prepare and coordinate US participation in FCC, working with and aiding our international colleagues to realize this dream. The committee will organize the next US-FCC workshop, help organize monthly US-FCC meetings, spearhead US FCC input to the 2025 European Strategy by its March deadline, work on outreach within the US, and work with the FCC speakers bureau to find US speakers for talks, as well as other similar tasks that may arrive.

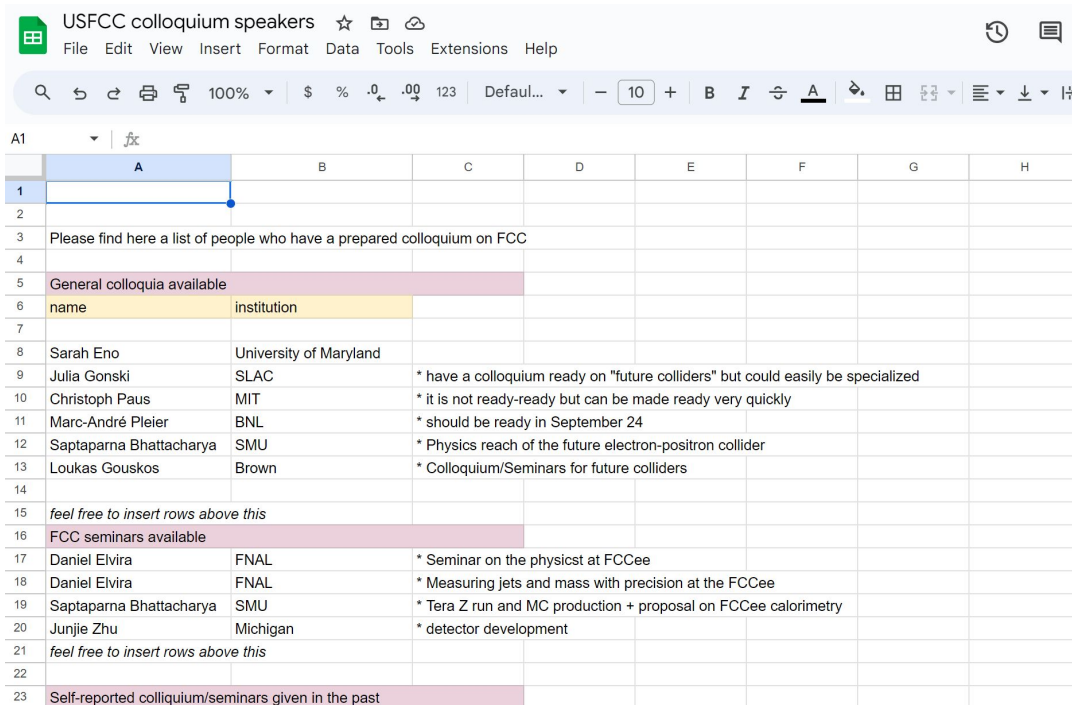
Call for host for USFCC meeting

We are happy to announce a call for institutions to host the next USFCC meeting. If you are interested, please send an email to us-fcc-ac@cern.ch with a date proposal that does not conflict with the 13-17Jan FCC physics week or the 19-23 May FCC week. Please discuss your ability to satisfy the following goals:

- Ability to host 250 participants
- At least 4 meeting rooms very close together that the participants can wander freely and easily between
- Good food nearby
- Low air fares and multiple flights with good international connections.
- Estimate of the total cost of attending including registration fee so we can look for an inexpensive choice. Dorm rooms for low cost housing if possible.
- housing/hotels that allow transport to hotel without a car
- Video remote connections to meetings allowed. Strong internet bandwidth.
- Activities of local interest
- Any other pertinent information

Colloquium campaign

We think it would be useful to build excitement for FCC not only within our community, but in the broader physics community. We encourage you to invite and give colloquia. Please find a data base at:
<https://docs.google.com/spreadsheets/d/16ft0UeMhzG8V4hc8is0CKWHI54akNODqJufryauWkyl/edit?usp=sharing>



The image shows a Google Sheet titled "USFCC colloquium speakers". The sheet contains a list of speakers and their institutions, organized into sections. The first section is "General colloquia available", followed by "FCC seminars available", and finally "Self-reported colloquium/seminars given in the past".

name	institution	
Please find here a list of people who have a prepared colloquium on FCC		
General colloquia available		
name	institution	
Sarah Eno	University of Maryland	
Julia Gonski	SLAC	* have a colloquium ready on "future colliders" but could easily be specialized
Christoph Paus	MIT	* it is not ready-ready but can be made ready very quickly
Marc-André Pleier	BNL	* should be ready in September 24
Saptarna Bhattacharya	SMU	* Physics reach of the future electron-positron collider
Loukas Gouskos	Brown	* Colloquium/Seminars for future colliders
feel free to insert rows above this		
FCC seminars available		
Daniel Elvira	FNAL	* Seminar on the physicist at FCCee
Daniel Elvira	FNAL	* Measuring jets and mass with precision at the FCCee
Saptarna Bhattacharya	SMU	* Tera Z run and MC production + proposal on FCCee calorimetry
Junjie Zhu	Michigan	* detector development
feel free to insert rows above this		
Self-reported colloquium/seminars given in the past		

European Strategy: your questions asked

It is important to help FCC prepare for the upcoming European strategy (<https://europeanstrategyupdate.web.cern.ch/welcome>) They have requested the US to think about questions people might have about FCC so they can prepare answers. Please contribute to this effort at: <https://docs.google.com/document/d/1ubEkqr1wYZIfpcJ4SSDSNNiyTC48hcmjDLyeLapqLFA/edit>

FCC: Your questions asked in the US. ☆ 📄 📄

File Edit View Insert Format Tools Extensions Help

100% Normal text Arial 14 B I U A

You're suggesting

List of questions asked about FCC.

Can cover scientific aspects, environmental aspects, financial aspects, (geo-)political aspects, even moral aspects, a more, provided they are related to FCC. Don't be shy!

Reminder : A preprint entitled "FCC-ee: Your Questions Answered" was prepared for the previous European Strategy Update (2018-2020), it can be found at <https://arxiv.org/abs/1906.02693>. The goal of this list is to gather all questions that were not asked at the time, and to update the document with new answers for the most popular questions. The answers already present in the document will also be updated / improved to include the latest studies and thoughts.

- Have a look at the [Snowmass Agora](#) questions, compiled in January 2022 in [this google doc](#), and answered in March 2022 in [this google doc](#)
- Have a look at the [BNL P5 meeting](#) questions and answers, compiled in April 2023 [in this google doc](#)

You may also suggest modifications to already answered questions in the original preprint. Please add your suggestions below (also state your name).

Add your questions below.

- ...
- ...

Andy Jung (Purdue U)

- What are the options to have polarized beams? What is the schedule flexibility for doing top quark runs at different times? T

Note that you will need to request permission to edit the document

Upcoming FCC meetings

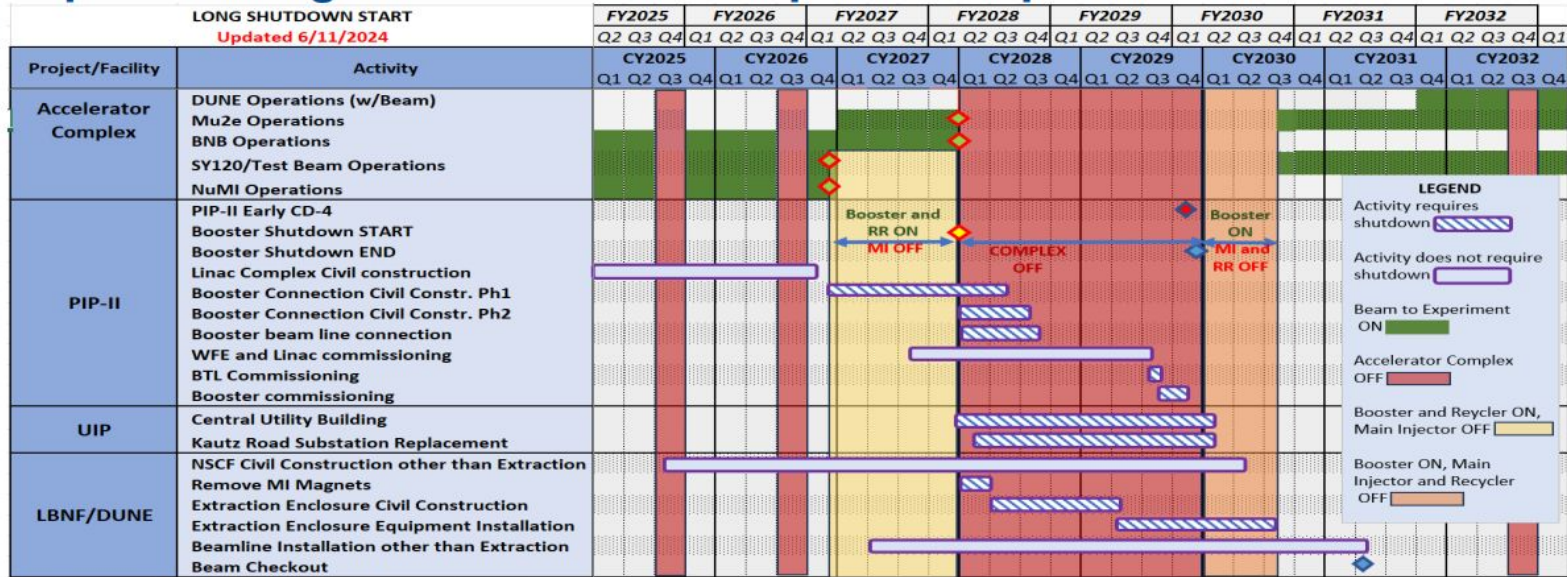
- FCC-hh miniworkshop 3 Sep. virtual <https://indico.cern.ch/event/1439072/>
- Next USFCC meeting 19 Sept 18:00 cern time
<https://indico.cern.ch/event/1445938/>
- ECFA Paris 9-11 October <https://indico.in2p3.fr/event/32629/overview>
- FCC Physics week. 13-17 Jan At CERN. Free for students.
- FCC week. 19-23 May Vienna

Technical focus

Please nominate yourself to give a short “technical focus” talk at an upcoming USFCC meeting by emailing Sarah Eno eno@umd.edu

Updated final test beam schedule

Updated long-term Accelerator Operations plan – 2028 shutdown

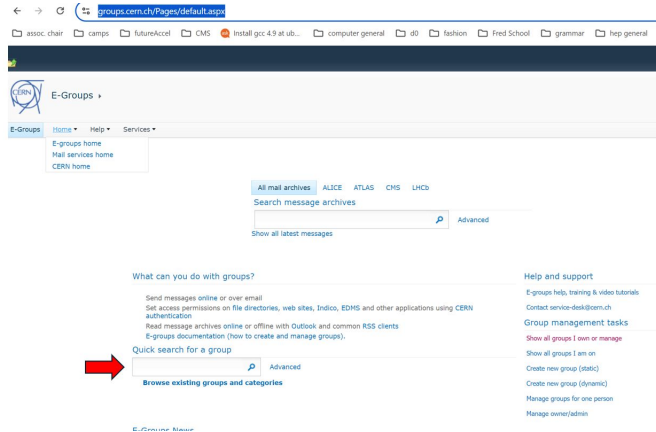


- Allows 12 months of Mu2e data taking
- Additional year of BNB operations to provide more data to SBND
- Main Injector shutdown as planned earlier in CY27 for cost savings and access for ACE-MIRT execution

reminder:

Sign up for USFCC mailing lists as follows:

- Go to <https://groups.cern.ch/Pages/default.aspx>
- In the box with the red arrow pointing towards it, type us-fcc



Sign up for FCC mailing lists as described at: <https://fcc-ped.web.cern.ch/###>