

Ninth Virtual/Hybrid Meeting of the Fusion Energy Sciences Advisory Committee

April 30, 2024

Welcome and Opening Remarks

Anne White, Department of Nuclear Science and Engineering, MIT and FESAC Chair

These slides will be posted on the FESAC Website after the meeting.

Fusion Energy Sciences Advisory Committee (FESAC)

Purpose of the Committee:

- The purpose of FESAC is to make recommendations on a continuing basis to the Director, Office of Science of the Department of Energy, on the many complex scientific and technical issues that arise in the development and implementation of the fusion energy sciences program.
- The Director of the Office of Science charges the committee to provide advice and recommendations on various issues of concern to the Fusion Energy Sciences program.
- The Committee conducts its business in public meetings and submits reports containing its advice and recommendations to the Director of the Office of Science.
- Notices of upcoming FESAC meetings are published in the Federal Register at least two weeks before the scheduled date of the meeting.

FESAC as a federal advisory committee is operated according to FACA rules.

<https://www.gsa.gov/policy-regulations/policy/federal-advisory-committee-management/advice-and-guidance/faca-brochure>

FESAC Meetings and Records are All Public:

- Meeting agendas and materials are found here: <https://science.osti.gov/fes/fesac/Meetings>

FESAC Members

FESAC Members are drawn from universities, national laboratories, and industrial companies.

- Members serve three-year terms and may be reappointed to serve multiple terms.
- Members are appointed as experts in specific fields, so it is necessary for them to also be appointed as Special Government Employees, a role in which they serve whenever they are involved in FESAC business

Thank you to FESAC members for your service!

Full list of members and short biographies are found online

<https://science.osti.gov/fes/fesac/Members>



Thank you also to Sandy Newton and Dr. Sam Barish from DOE and Paul Hudson and colleagues from ORISE for support of FESAC!

Subcommittees of FESAC and FACA

A FESAC Subcommittee is formed in response to a charge.

- Each Subcommittee will have a chair or co-chair and a member roster.
- Subcommittee chair(s) and members are drawn from the community using same principles as FESAC as a whole.

FESAC Subcommittees are not required to follow FACA management rules, and are deployed to help meet expectation that FESAC can act promptly and provide timely advice to government

- Subcommittees have more operational flexibility than FESAC, which helps achieve fast action
 - Not all work must be done in public
 - Relaxed record keeping
 - (cost controls still in place)
- Subcommittees use variety of mechanisms to engage community to answer charge and provide advice to DOE.
 - Subcommittees can call meetings quickly and engage with the community using a variety of important forums that are familiar to us in the academic, lab, and industry spaces, but which would be difficult for FESAC as a whole body to utilize at speed.
 - Non-exhaustive list of examples
 - Calls for white papers and author meetings with Subcommittee members
 - Community meetings (virtual or in-person) hosted by Subcommittee members
 - Subcommittee meetings multiple times a week (and on weekends) to complete effort on a charge

Context and Background for Two Subcommittees Reporting at Today's FESAC Meeting

From the December 13, 2023, Meeting Website And Links To Presentations

<https://science.osti.gov/fes/fesac/Meetings/2023-12>

At this website you will find four important documents that provide context for April 30, 2024 FESAC Meeting Agenda and Discussions

- “Vision for the Fusion Energy Sciences Program”, Dr. Jean Paul Allain Associate Director for Fusion Energy Science.
- Two Charges to FESAC at the Dec. 2023 meeting
 - Charge to FESAC on the FES Decadal Plan
 - Charge to FESAC on the Facilities Construction Projects (FCP)
 - List of Projects in the FCP charge.



Logistics 1/3: Important Notice: Public Comments
There will be Public Comments TODAY @ 4:30 p.m. ET

If you would like to make a 5-Minute Public Comment at this virtual meeting, please send your comment to:

Dr. Sam Barish by email (sam.barish@science.doe.gov)

No later than 12 p.m. ET today

Logistics 2/3: Use of Chat Feature in Zoom

- The chat will not be used for the FESAC deliberations or for public comment.
- FESAC Members: During the meeting, your questions/comments should be done by raising your hand (ideally virtual) and the Chair will call on you.

Logistics 3/3: Process for Managing Recusals from Discussion and Voting at this Meeting

- **The DOE Office of General Counsel has determined that several FESAC members should be recused from discussing and voting on the draft report of the FCP subcommittee.**
- Between 1:00pm-3:15pm, those FESAC members must refrain from making comments or asking questions
- Recusals with respect to the Draft Report on Facilities Construction Projects (FCP):
 - Emily Belli
 - Luis Delgado-Aparicio
 - Franklin Dollar
 - Brenda Garcia-Diaz
 - Paul Humrickhouse
 - Anne White – COI because of membership on an Advisory Board for Princeton University re PPPL.
 - US ITER is managed by ORNL, with subcontract to PPPL and ORNL.
 - NSTX-U Liquid Metal/Core Edge Facility (LMCE) is potentially hosted at PPPL.
- General Counsel has also advised that to be consistent with the parallel FCP Subcommittees of other DOE SC advisory committees, the report should be voted on in its entirety. This means the above members also may not vote on the report.
- Between 1:00pm-3:15 pm, Dr. Mitchell Walker will chair the FESAC meeting as a substitute for Dr. Anne White

FESAC Meeting Agenda

April 30, 2024

MORNING

AFTERNOON

Time (All times are EDT)	Topic	Speaker
10:00 a.m.	Welcome and Opening Remarks	Professor Anne White Massachusetts Institute of Technology
10:10 a.m.	Under Secretary for Science and Innovation Perspective	Dr. Geraldine Richmond Under Secretary for Science and Innovation (prerecorded remarks)
10:20 a.m.	Office of Science Overview and Update	Dr. Harriet Kung Acting Director Office of Science
10:40 a.m.	FY 2024 Enacted Budget for the Fusion Energy Sciences Program	Dr. Jean Paul Allain Associate Director for Fusion Energy Sciences
11:00 a.m.	Draft Report of the FESAC Facilities Construction Projects Subcommittee	Dr. Brian Wirth, Subcommittee Chair University of Tennessee Dr. Carlos Paz-Soldan, Subcommittee Vice Chair Columbia University

Time (All times are EDT)	Topic	Speaker
12 noon	Lunch	
1:00 p.m.	Discussion of the Draft Report on Facilities Construction Projects	Professor Mitchell Walker (substitute for Professor Anne White)
3:15 p.m.	Break	
3:30 p.m.	Update on the FESAC Decadal Plan Subcommittee	Professor Troy Carter, Subcommittee Chair University of California Los Angeles Dr. Tammy Ma, Subcommittee Vice Chair Lawrence Livermore National Laboratory
4:30 p.m.	Public Comment	
5:00 p.m.	Adjourn	