

Tenth Virtual Meeting of the Fusion Energy Sciences Advisory Committee

September 30, 2024

Welcome and Opening Remarks

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

Register On Zoom: https://www.zoomgov.com/webinar/register/WN_xisBT3ROQK6Nb8ChYg6k8A

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 the Subcommittee Update at Today's FESAC Meeting (1/2)

Website And Links To Presentations: <https://science.osti.gov/fes/fesac/Meetings/>
From the December 13, 2023 and April 30, 2024 Meetings

- **December 13, 2023 Meeting**
 - 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)
- **April 30, 2024 Meeting**
 - During this meeting, FESAC discussed and approved the Report of the FESAC Facilities Construction Projects Subcommittee completing the charge on this subject.
 - Subcommittee Update on the FESAC Decadal Plan Subcommittee

Meetings



Charges and Reports



Context and Background for the Subcommittee Update at Today's FESAC Meeting (2/2)

Today: Will hear a second update from the FESAC Decadal Plan Subcommittee

Grateful to the Subcommittee for their extensive and thorough work, which will continue.

This is a mid-process update today.

Important boundary conditions for discussion:

- The subcommittee will not present recommendations.
- The subcommittee will update on progress and process.
- The subcommittee is still gathering input from community and deliberating. [SEP]

Meetings



Charges and Reports



Logistics 1/3: Important Notice: Public Comments

There will be Public Comments TODAY @ 2:25 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)

Send to Dr. Barish no later than 12:30 p.m. ET today

Logistics 2/3: Use of Chat Feature in Zoom

- The chat will not be used for the FESAC deliberations.
- The chat will not be open to the public; will not be used 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 at this Meeting

The DOE Office of General Counsel has determined that several FESAC members should be recused from discussing the presentation of the DP subcommittee

Recusals 9/30/24

Erica Salazar

Derek Sutherland

Bhuvana Srinivasan

FESAC Meeting Agenda

September 30, 2024

MORNING

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.	Office of Science Overview and Update	Dr. Harriet Kung Acting Director Office of Science
10:40 a.m.	Update from the Office of Fusion Energy Sciences	Dr. Jean Paul Allain Associate Director for Fusion Energy Sciences
11:10 a.m.	Update from the FESAC Decadal Plan Subcommittee	Professor Carlos Paz-Soldan, Subcommittee Chair Columbia University Dr. Tammy Ma, Subcommittee Vice Chair Lawrence Livermore National Laboratory
12:10 p.m.	Lunch	

AFTERNOON

12:10 p.m.	Lunch	
12:55 p.m.	Discussion of the Update from the FESAC Decadal Plan Subcommittee	Professor Anne White
2:25 p.m.	Public Comment	Professor Anne White
2:55 p.m.	Break	
3:10 p.m.	Discussion of the Update from the FESAC Decadal Plan Subcommittee (cont'd)	Professor Anne White
4:10 p.m.	U.S. Fusion Science and Technology Roadmap Update	Dr. Jean Paul Allain
5:00 p.m.	Adjourn	