

Sixth Virtual Meeting of the Fusion Energy Sciences Advisory Committee

May 25, 2022

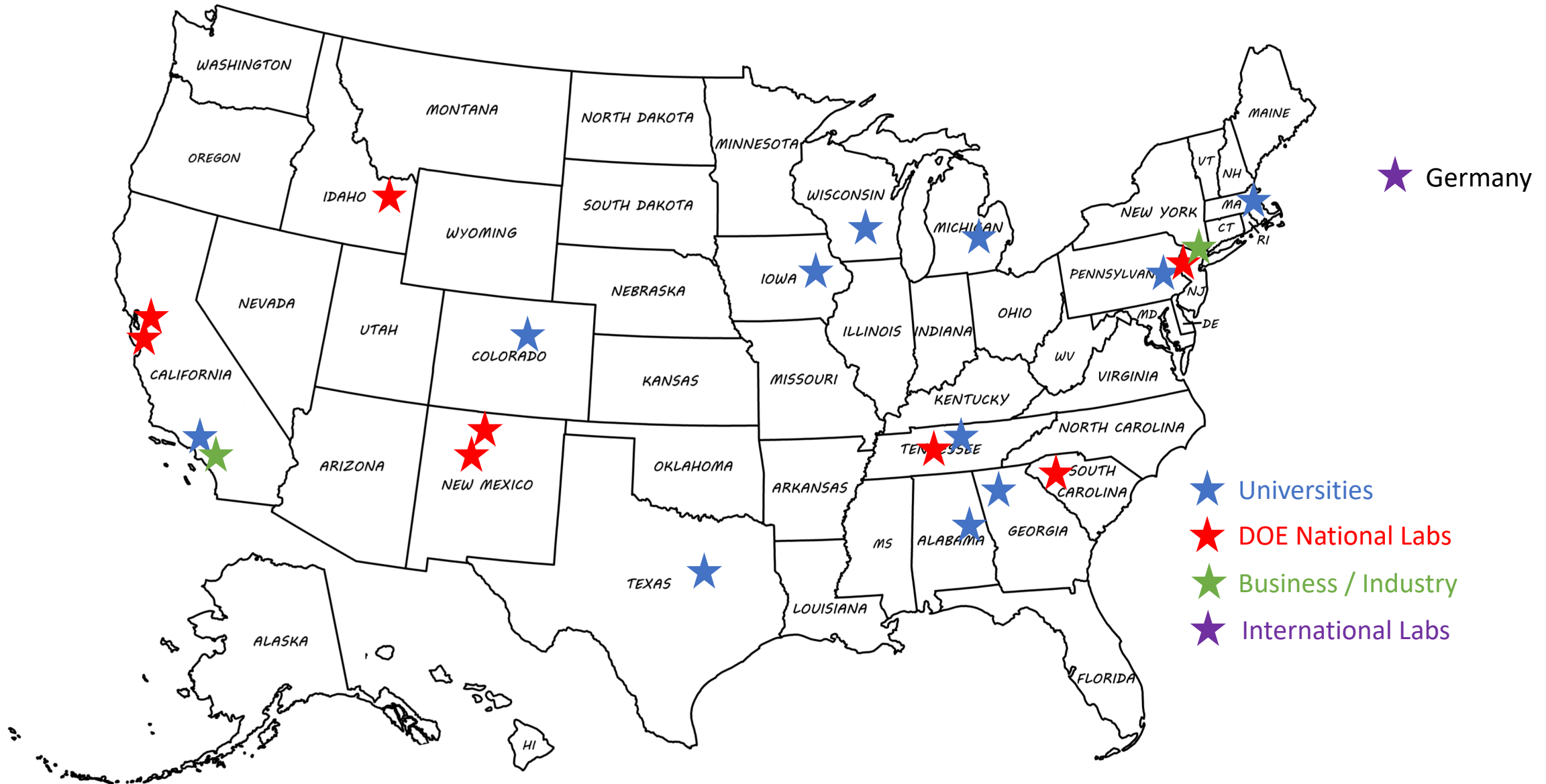
Welcome and Opening Remarks

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

About the Fusion Energy Sciences Advisory Committee (FESAC)

- The Fusion Energy Sciences Advisory Committee (FESAC) has been Chartered pursuant to Section 14(a)(2)(A) of the Federal Advisory Committee Act Public Law 92-463 and Section 101-6.1015, title 41 Code of Federal Regulations.
- The committee provides independent advice to the Director of the Office of Science on complex scientific and technological issues that arise in the planning, implementation, and management 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.
- To learn more about FESAC, please see this website: <https://science.osti.gov/fes/fesac>

FESAC Members May 2022



Announcements

On June 2, 2022, FESAC will bid farewell to

- **Don Rej, Outgoing FESAC Chair, LANL**
- **Steve Knowlton, Outgoing FESAC Vice Chair, Auburn University**
- **Brian Wirth, University of Tennessee**
- **Rajesh Maingi, PPPL**
- **Chuck Kessel, ORNL**
- **Scott Parker, University of Colorado**
- **Fred Skiff, University of Iowa**
- **Phil Snyder, ORNL**
- **Thomas Sunn Pedersen, University of Greifswald & Max-Planck Institute of Plasma Physics**

Thank you for your service!

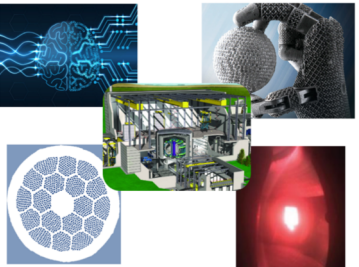
To the continuing members of FESAC, thank you for your continuing service!

We hope to welcome new FESAC members soon after this meeting.

Recent Reports and Community Activities

**FUSION ENERGY SCIENCES
ADVISORY COMMITTEE REPORT**

Transformative Enabling Capabilities for
Efficient Advance Toward Fusion Energy



Feb. 2018

U.S. DEPARTMENT OF ENERGY Office of Science Fusion Energy Sciences

**A Community Plan for Fusion Energy
and Discovery Plasma Sciences**

Report of the 2019–2020 American Physical Society Division of
Plasma Physics Community Planning Process



The National Academies of
SCIENCES • ENGINEERING • MEDICINE
CONSENSUS STUDY REPORT

The National Academies of
SCIENCES • ENGINEERING • MEDICINE
CONSENSUS STUDY REPORT

**BRINGING
FUSION
TO THE U.S. GRID**



The National Academies of
SCIENCES • ENGINEERING • MEDICINE
CONSENSUS STUDY REPORT



WHITE HOUSE SUMMIT:
*Developing a Bold Decadal Vision for
Commercial Fusion Energy*

THURSDAY, MARCH 17, 2022
10:00 AM – 1:00 PM ET

WWW.WHITEHOUSE.GOV/OSTP/EVENTS-WEBINARS/

ENERGY.GOV

The National Academies of
SCIENCES • ENGINEERING • MEDICINE
CONSENSUS STUDY REPORT

Final Report of the Committee on a Strategic Plan for U.S.

**BURNING PLASMA
RESEARCH**



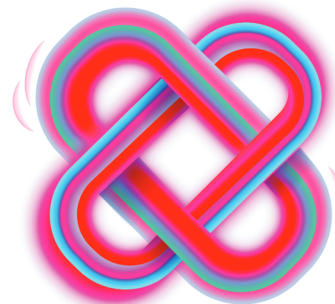
The National Academies of
SCIENCES • ENGINEERING • MEDICINE
CONSENSUS STUDY REPORT

PLASMA SCIENCE
Enabling Technology, Sustainability,
Security, and Exploration



A Report of the Fusion Energy Sciences Advisory Committee

Powering the Future
Fusion & Plasmas



A long-range plan to deliver fusion energy and to advance plasma science

2020

Morning Agenda, May 25th

Time	Topic	Speaker
10:30 a.m. EDT	Welcome and Opening Remarks	Professor Anne White FESAC Chair Massachusetts Institute of Technology
10:40 a.m.	Introduction of the Under Secretary for Science and Innovation	Dr. Stephen Binkley Principal Deputy Director Office of Science
10:50 a.m.	News from the Under Secretary for Science and Innovation	Dr. Geraldine Richmond Under Secretary for Science and Innovation (pre-recorded)
11:00 a.m.	FES Perspective	Dr. James Van Dam Associate Director for Fusion Energy Sciences
11:45 a.m.	The Path Forward After the White House Summit on Fusion	Dr. Scott Hsu Senior Advisor and Lead Fusion Coordinator Office of the Under Secretary for Science and Innovation
12:15 noon	Lunch	

Afternoon Agenda, May 25th

Time	Topic	Speaker
1:00 p.m.	Exascale Computing Project	Dr. Douglas Kothe Director Exascale Computing Project Oak Ridge National Laboratory
1:30 p.m.	The UK Fusion Programme and an Update on the Spherical Tokamak for Energy Production (STEP) Programme	Professor Ian Chapman Chief Executive Officer UK Atomic Energy Authority Head Culham Centre for Fusion Energy
2:00 p.m.	FESAC Charge on Collaborations on International Fusion Facilities	Professor Anne White
3:00 p.m.	National QIS Research Centers	Professor Andrew Houck Department of Electrical and Computer Engineering Princeton University
3:30 p.m.	Public Comment	Professor Anne White
4:00 p.m.	Adjourn	

Important Notice

There will be Public Comments TODAY @ 3:30 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 phone (301-903-2917) or email
(sam.barish@science.doe.gov)

and/or Prof. Anne White by email (whitea@mit.edu)

No later than 12:00 p.m. ET, TODAY

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