

Public Information about the 2014 FESAC Strategic Planning (SP) Panel:  
Tentative Presentation Schedule for 8-10 July, 8:30am – 5:45pm  
<https://www.burningplasma.org/activities/?article=2014%20FESAC%20Strategic%20Planning%20Panel>  
Meeting Hotel: Gaithersburg Marriott Washingtonian Center, 301-590-0044  
9751 Washingtonian Boulevard, Gaithersburg, MD. 20878

**Tuesday July 8 Meeting** (16 talks)

0830 **Zohm**, *ASDEX-Upgrade*

0905 **Horton**, *JET*

0940 **Guo**, *EAST*

1015 Break

1045 **Kwak**, *KSTAR*

1120 **Kamada**, *The JT-60SA research regimes for ITER and DEMO*

1155 **Litaudon**, *EUROfusion Roadmap*

1225 **Litaudon**, *WEST facility*

1300 Lunch

1415 **Menard**, *NSTX-U: ST research to accelerate fusion development*

1445 **Majeski**, *LTX: Exploring the advantages of liquid lithium walls*

1515 **Fonck**, *Initiatives in non-solenoidal startup and edge stability dynamics at near-unity aspect ratio in the PEGASUS experiment*

1545 Break

1600 **Marmar**, *Successful completion of Alcator C-Mod, and transition to a new, advanced divertor facility (ADX) to solve key challenges in PMI and development of the steady-state tokamak: Maintaining world-leadership on the high magnetic field path to fusion*

1630 **Wade**, *DIII-D 10-year vision: Develop the scientific basis for burning plasma experiments and fusion energy development*

1700 **Raman**, *Simplifying the ST and AT concepts*

1730 **Guo**, *Developing plasma-based divertor solutions for next step devices*

1800 **Coppi**, *The high-field compact line of experiments: From Alcator to Ignitor & beyond*

1830 **Freidberg**, *MIT-PSFC makes the case for QUASAR*

1900 Public Meeting Adjourns for the day

**Wednesday July 9 Meeting** (15 talks)

0830 **Greenwald**, *Implications and lessons from 2007 strategic planning activity and subsequent events: A personal view*

0900 **Meade**, *U.S. road map activity*

0930 **Taylor**, *A U.S. domestic program in the ITER era*

1000 **Greenfield**, *USBPO high priority research in support of ITER*

1030 Break

1100 **Boivin**, *Enhanced Validation of Performance-Defining Physics through Measurement Innovation*

1130 **White**, *Advanced diagnostics for validation in high-performance toroidal confinement experiments*

1200 **Crocker**, *Validating electromagnetic turbulence and transport effects for burning plasmas*

1230 **Brower**, *A burning plasma diagnostic technology initiative for the U.S. magnetic fusion energy science program*

1300 Lunch

1445 **Petty**, *Preparing for burning plasma operation and exploitation in ITER*

1515 **Sabbagh**, *Critical need for disruption prediction, avoidance, and mitigation in tokamaks*

1545 **Strait**, *Stability control, disruption avoidance, and mitigation*

1615 **Ferraro**, *Increased understanding and predictive modeling of tokamak disruptions*

1645 Break

1700 **Podesta**, *Development of tools for understanding, predicting and controlling fast-ion-driven instabilities in burning plasmas*

1730 **Fu**, *Integrated simulation of performance-limiting MHD and energetic particle instabilities with micro-turbulence*

1800 **Goldston**, *A strategy for resolving problems of plasma-material interaction for FNSF*

1830 Public Meeting Adjourns for the day

#### **Thursday July 10 Meeting (16 talks)**

0830 **Tang**, *Validated integrated fusion simulations enabled by extreme scale computing*

0900 **Snyder**, *Crossing the threshold to prediction-driven research and device design*

0930 **Hammett**, *Integrated computing initiative to predict fusion device performance and study possible improvements*

1000 **Chang**, *First-principles simulation of whole fusion device on leadership class high-performance computers in collaboration with ASCR scientists*

1030 Break

1100 **Xu**, *International collaboration on theory, validation, and integrated simulation*

1130 **Phillips**, *International collaborative initiative for RF simulation models in support of ITER and the ITER integrated modeling program*

1200 **Catto**, *Unique opportunities to advance theory and simulations of RF heating & current drive and core & pedestal physics at reactor relevant regimes in the Advanced Divertor Experiment*

1230 **Terry**, *Role of analytic theory in the U.S. magnetic fusion program*

1300 Lunch

1415 **Hillis**, *Materials facilities initiative*

1445 **Unterberg**, *Advanced Materials Validation in Toroidal Systems for Next-Step Devices*

1515 **Maingi**, *A liquid-metal plasma-facing-component initiative*

1545 **Jaworski**, *Liquid metal plasma-material interaction science and component development toward integrated demonstration*

1615 **Allain**, *Establishing the surface science and engineering of liquid-metal plasma-facing components*

1645 Break

1700 **Baylor**, *Plasma controlling and sustainment technologies that enable long-pulse burning plasma science*

1730 **Gekelman**, *The Basic Plasma Science Facility – Upgrade for the next decade & beyond*

1800 **Prager**, *The PPPL perspective on the charge to the FESAC strategic planning panel*

1830 Public Meeting Adjourns for the day