

FUSION POWER ASSOCIATES  
38<sup>TH</sup> ANNUAL MEETING AND SYMPOSIUM  
**PATHWAYS AND PROGRESS TOWARD FUSION POWER**  
DECEMBER 6-7, 2017  
GRAND HYATT WASHINGTON HOTEL  
1000 H STREET NW, Washington, DC 20001

**AGENDA (12-04-17)**

**Breakfast Options:**

There is a Starbucks in the main lobby.

The hotel has a buffet breakfast in the Cabinet Room, next to our meeting location (for a price).

We will have a light complimentary continental breakfast in our meeting room, starting at 7:30 am.

**Wednesday December 6 – Declaration AB Room**

**7:30 Registration and Continental Breakfast**

8:00 **1. Welcome – Farrokh Najmabadi, Chairman of the Board, FPA**

8:10 2. Presentation of Awards – Stephen O. Dean, President, FPA

8:30 3. Keynote Address – Fusion in the Context of Future Energy Sources  
– Osamu Motojima, President, Future Energy Research Association  
(20 min talk plus 10 min audience participation)

9:00 4. American Security Project Perspective on Future Energy Sources  
– Andrew Holland, ASP (20 min talk plus 10 min audience participation)

9:30 5. EU Demo Study: Status and Issues – Gianfranco Federici, Head, Technology Dept, EUROfusion Consortium (20 min talk plus 5 min audience participation)

9:55 Break

**10:25 Session Chair – Dennis Whyte, MIT** (talks 15 min each including questions)

10:25 European and Asian Perspectives on Pathways and Technology Needs (Magnetic)  
6. Gianfranco Federici, Head, Technology Dept, EUROfusion Consortium  
7. Kenji Tobita, Director, Dept. of Fusion Reactor Systems Research, QST (Japan)  
8. Keeman Kim, President, National Fusion Research Institute (Korea)  
9. Baonian Wan, Director, Institute of Plasma Physics, CAS (China)

**11:25 Lunch Options:**

If it is a nice day, recommend going to **Capitol City Brewing Company**, corner 11<sup>th</sup> and H Streets.(diagonally across the street from the hotel front entrance).

**Or Cure Bar and Bistro**, in the hotel lobby first floor

**12:45 Session Chair – Farrokh Najmabadi, UCSD** (12 min including questions)

12:50 Perspectives on Pathways and Progress (Magnetic)

10. Steven Cowley, Oxford U.

**11. Dennis Whyte, MIT**

12. Michl Binderbauer, Tri Alpha Energy, Inc.

13. Raffi Nazikian, PPPL

**14. Tony Taylor, General Atomics**

Audience Participation (10 min)

- 2:00 Session Chair – Mike Campbell, U Rochester LLE** (talks 12 min incl. questions)
- 2:00 Perspectives on Pathways and Progress (Inertial and Magneto-Inertial)
- 15. Riccardo Betti, U. Rochester LLE
  - 16. Stephen Obenschain, Naval Research Lab
  - 17. Shinsuke Fujioka, Professor, Inst. of Laser Engineering, Osaka U.
  - 18. Daniel Sinars, Sandia Laboratories
- Audience Participation (12 min)
- 3:00 Break
- 3:30 Session Chair – Mark Haynes, Concordia Power** (talks 15 min plus 5 min discussion)
- 3:30 19. Report on NAS Fusion Study – Mike Mauel, Columbia U.
  - 3:50 20. Progress and Plans on DIII-D – David Hill, General Atomics
  - 4:10 21. High Energy Density Science at SLAC – Siegfried Glenzer, SLAC
  - 4:30 22. Status and Plans at Tri-Alpha Energy – Michl Binderbauer, Tri Alpha Energy
  - 4:50 23. Status of ARPA-E ALPHA Program – Patrick McGrath, ARPA-E
  - 5:10 General Discussion
  - 5:30 Adjourn

**5:30 – 7:00 Reception, Grand Foyer**

**7:00 – 8:00 FPA Board of Directors Meeting –Benneker Room**

#### **Thursday December 7 – Declaration AB Room**

- 7:30 Registration and Continental Breakfast**
- 8:00 Congressional Perspective (Senate) – Speaker TBD
- 8:30 US Fusion Program Overview – Jim Van Dam, Acting Director, OFES DOE
- 9:00 Status of ITER – Bernard Bigot, Director General, ITER Organization
- 9:30 Audience Discussion
- 9:45 Break
- 10:15 Session Chair – David Babineau, Savannah River National Lab**
- 10:15 Technology Issues for Fusion Power
- Steve Zinkle, ORNL
  - Mohamed Abdou, UCLA
  - Yican Wu, Director General, INEST (China)
- 11:00 Status of US Contributions to ITER Construction – Ned Sauthoff, US ITER
- 11:20 Lunch
- 12:30 Session Chair-- Jerry Navratil, Columbia U.**
- 12:30 Status and Progress on NIF – Mark Herrmann, LLNL
  - 12:50 Ignition Hydroequivalence Progress on OMEGA– Valeri Goncharov, U. Rochester
  - 1:10 Status and Progress on MAGLIF – Daniel Sinars. Sandia National Laboratories
  - 1:30 Progress and Plans at General Fusion – Michael Delage, General Fusion
  - 1:50 Fusion Energy Sciences at LBNL – Peter Seidl, LBNL
- 2:10 Session Chair – Steve Dean, FPA**
- 2:10 Congressional Perspective (House) – Emily Domenech and Adam Rosenberg
  - 2:30 US Contributions to ITER Physics – Charles Greenfield, USBPO
  - 2:50 Fusion Rocket for In-Space Propulsion – Michael Paluszek, Princeton Satellite Systems
  - 3:10 Successes of the Early Career Award Program – Nirmol Podder, DOE OFES
  - 3:30 High Energy Density Microphysics: Progress and Plans -- Rip Collins, U. Rochester
  - 3:50 Adjourn