

The Burning Issues:
U.S. Burning Plasma Organization e-News
October 25, 2006
from Ray Fonck, USBPO Director

CONTENTS:

1. Topical Group Meetings at the APS 48th Annual Meeting of the Division of Plasma Physics in Philadelphia
2. ITER Town Meeting at APS/DPP meeting
3. Upcoming Diagnostics Workshop
4. Status Update, ITER Physics Tasks
5. Status Update, ITER Issue Cards

Dear Burning Plasma Aficionado:

This note is being sent to give you a short update on U.S. Burning Plasma Organization activities.

These news notes will also be posted on the BPO website at <http://burningplasma.org/news.html>

Thank you for your interest in Burning Plasma research in the U.S.!

1) TOPICAL GROUP MEETINGS AT THE APS 48TH ANNUAL MEETING OF THE DIVISION OF PLASMA PHYSICS

The following Topical Groups have scheduled specific meetings during the APS DPP meeting during the week of October 30, 2006. Please note that leaders for all of the Topical Groups will be available for informal discussions following the ITER Town Meeting on the evening of Tuesday, October 31.

Integrated Scenarios

Date: Wednesday, November 1

Time: 3:30pm

Location: Currently planned to meet at the tables in the poster hall.

Agenda:

1. Discuss the role that this group intends to play in the Burning Plasma Organization.

2. Discuss the proposed BPO task on "Limitations to Plasma Startup Flexibility for Advanced Scenarios for ITER." A strawman description of this task was posted in the Integrated Scenarios forum by Chuck Kessel on September 22.

MHD, Macroscopic Plasma Physics

Date: Tuesday, October 31

Time: 5:30pm-7:00pm (hopefully only until 6:30pm)

Location: Room 304, Philadelphia Marriott

Agenda:

1. J. Menard will summarize ITPA MHD meeting outcome as it relates to ELM/RWM/EF coil analysis task.
2. T. Evans, G. Navratil, and M. Schaffer will discuss status and plans for ELM/RWM/EF analysis.

Modeling & Simulation

Date: Tuesday, October 31

Time: 4:30pm

Location: Currently planned to meet at the tables in the poster hall.

2) TOWN MEETING ON ITER PROGRESS, FOLLOWED BY INFORMAL MEETINGS WITH TOPICAL GROUP LEADERS

A general town meeting will be held APS/DPP meeting in Philadelphia at 8:00 pm Tuesday, Oct. 31 in Grand Salon CDE of the Philadelphia Marriot. The topic will be ITER Progress, with presentations from N. Holtkamp, Principal Deputy Director General of ITER, N. Sauthoff, Head of the U.S. ITER Project Office, and R. Fonck for the U.S. Burning Plasma Organization.

Following this session, there will be informal gatherings of USBPO Topical Groups in the same area. Many Topical Group leaders will be available to meet with community members to discuss issues of interest to BPO members. All members of the U.S. fusion community are welcome.

3) UPCOMING DIAGNOSTICS WORKSHOP – SPONSORED BY THE USBPO

The first USBPO-sponsored workshop on diagnostic development for burning plasmas will be held on February 6-8, 2007, at General Atomics. We anticipate the use of remote participation as much as possible.

The agenda will include:

Overview talks

- ITER Diagnostics
- US plans

Invited presentations

- US tasks reports (US IPO sponsored)

- Expected performance
- Physics Requirements
- Discussions on issues
- Uncredited systems/Non US systems

Contributed presentations

- Potential US contributions
- Generic issues (mirrors, deposition, erosion, radiation effects)
- Additional measurements

Poster session

- Detailed ITER diagnostics (overall)
- High priority issues (ITPA)
- ITER issue cards
- Individual contributions

The agenda will include a significant amount of time for discussion, and some contributions may be assigned to the poster session(s).

This will be a meeting dedicated for the U.S. community, so we will not seek international attendance (except from the ITER team), although they will be welcome to attend. Additional details, including a web site address, will be forthcoming.

4) STATUS UPDATE, ITER PHYSICS TASKS

The USBPO is currently negotiating with the ITER Central Team using the priorities outlined on the USBPO bulletin board forum [U.S. Burning Plasma Organization Forum>Task Groups>ITER Physics Tasks 2006-2007](#), 14 High-Priority Tasks Submitted for Consideration.

Chuck Greenfield, Jon Menard, and Nermin Uckan are working with the ITER Central Team to further define the submitted tasks, as needed, to determine which tasks the U.S. community will be responsible for.

5) STATUS UPDATE, ITER ISSUE CARDS

A posting regarding the ITER Issue Cards can be found on the USBPO bulletin board forum at [U.S. Burning Plasma Organization Forum>Task Groups>ITER Issue Cards](#), ITER Issue Card Topics - version 1, First list submitted from Research Committee - 9/6/06.

