FHR Integrated Research Project (IRP-2) Workshop 2

**FHR Benchmark Workshop**

Draft Workshop Agenda

*Clark Kerr Campus, Building 14*

*Berkeley, California*

*April 14-15, 2016*

**Day 0: Wednesday, April 13, 2016 (On Campus, Etcheverry Hall)**

1:00 – 2:00 **Student/Post-Doc Meet-and-Greet: Welcome to UCB**

 4118 Etcheverry Hall (TH Lab)

 Hosts: *Harry Andreades: (703) 474-4215*

 *James Kendrick: (972) 978-1671*

2:00 – 2:50 **Facilitators’ Workshop Planning Meeting: Logistics**

 1106 Etcheverry Hall

2:50 – 3:00 **Break**

3:00 – 5:00 **Berkeley Lab Tours (XPREX, CIET, Materials)**

 Starting from 4118 Etcheverry Hall

5:00 – 6:00 **Berkeley Campus Tour**

 Starting from 4118 Etcheverry Hall

6:00 – 9:00 **Reception**

 3110 Etcheverry Hall

**Day 1: Thursday, April 14, 2016 (Clark Kerr Campus)**

**ALL PARTICIPANTS**

8:00 – 8:30 **Continental Breakfast**

 *Joseph Wood Krutch Theater*

8:30 – 8:45 **Welcome and Participant Introduction**

 *Per Peterson (UCB)*

8:45 – 9:15 **Status of U.S. and International FHR Development Activities**

*David Holcomb (ORNL)*

9:15 – 9:45 **FHR MIT-IRP Overview**

 *Charles Forsberg (MIT), Per Peterson (UCB)*

9:45 – 10:15 **FHR GT-IRP Overview**

 *Farzad Rahnema (GT)*

10:15 – 10:30 **Break**

10:30 – 10:40 **Previous Workshop Summary and Workshop Objectives**

 *Per Peterson (UCB)*

**BREAKOUT SESSIONS**

*Breakout sessions will consist of meetings in separate rooms/areas for each of the three FHR IRP working groups. Discussion will focus on the working group’s FHR-specific phenomena and relevant benchmarking exercises and progress. The FHR IRP working groups are as follows:*

* *Neutronics:* ***Meet in Newell Perry Room.***
* *Thermal Hydraulics:* ***Meet in Krutch Theater.***
* *Materials, Activation, Tritium, and Transport (MATT):* ***Meet in Clark Kerr Room.***

10:40 – 12:00 **Session 1: Individual Working Group Session**

 *Discussion of working group’s objectives during workshop, definition of scope*

12:00 – 1:15 **Lunch**

 *Lunch Talk:* SINAP TMSR program update

1:15 – 5:00 **Individual Working Group Sessions**

 *Each working group continues discussion*

5:00 **Adjourn**

6:00 **Workshop Banquet**

 *Clark Kerr Campus*

**Day 2: Friday, April 15, 2016 (Clark Kerr Campus)**

**ALL PARTICIPANTS**

8:00 – 8:30 **Continental Breakfast**

 *Joseph Wood Krutch Theater*

8:30 – 9:00 **Summary of Workshop Progress and Overview of Day 2**

 *Working Group Chairs*

**BREAKOUT SESSIONS**

9:00 – 11:00 **Resume Working Group Sessions**

*Each working group resumes previous day’s discussion*

**ALL PARTICIPANTS**

11:00 – 11:15 **Working Groups Reconvene**

11:15 – 11:30 **Working Group Progress Overview: Thermal Hydraulics**

*Presented by James Kendrick and Charalampos Andreades (UCB)*

11:30 – 11:45 **Working Group Progress Overview: Neutronics**

*Presented by Lance Maul and Dan Shen (UCB)*

11:45 – 12:00 **Working Group Progress Overview: Materials, Activation, Tritium Transport**

*Presented by Nisarg Patel and Francesco Carotti (UW)*

12:00 – 1:15 **Lunch**

 *Lunch Talk:* “TerraPower: Innovation, TWRs, and Salt” by Robert Petroski

1:15 – 3:15 **Multiphysics Discussion – All WGs***Facilitated by April Novak, Xin Wang (UCB), Nisarg Patel and Francesco Carotti (UW)*

3:15 – 3:30 **Break**

3:30 – 4:00 **Issues and implications for fluid fuel technologies**

*Facilitated by Manuele Aufiero (UCB) and Boris Hombourger (PSI)*

4:00 – 4:15 **Concluding Remarks and Next Steps**

 *Charles Forsberg (MIT), Per Peterson (UCB)*

4:15 **Adjourn**

All workshop participants should prepare for the possibility of light rain on either day. An umbrella and possibly a light rain jacket might be useful items to have.

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**BUILDING 14****

*MATT WG*

*Neutronics WG*

*General Meeting/*

*Thermal Hydraulics WG*