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 **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)

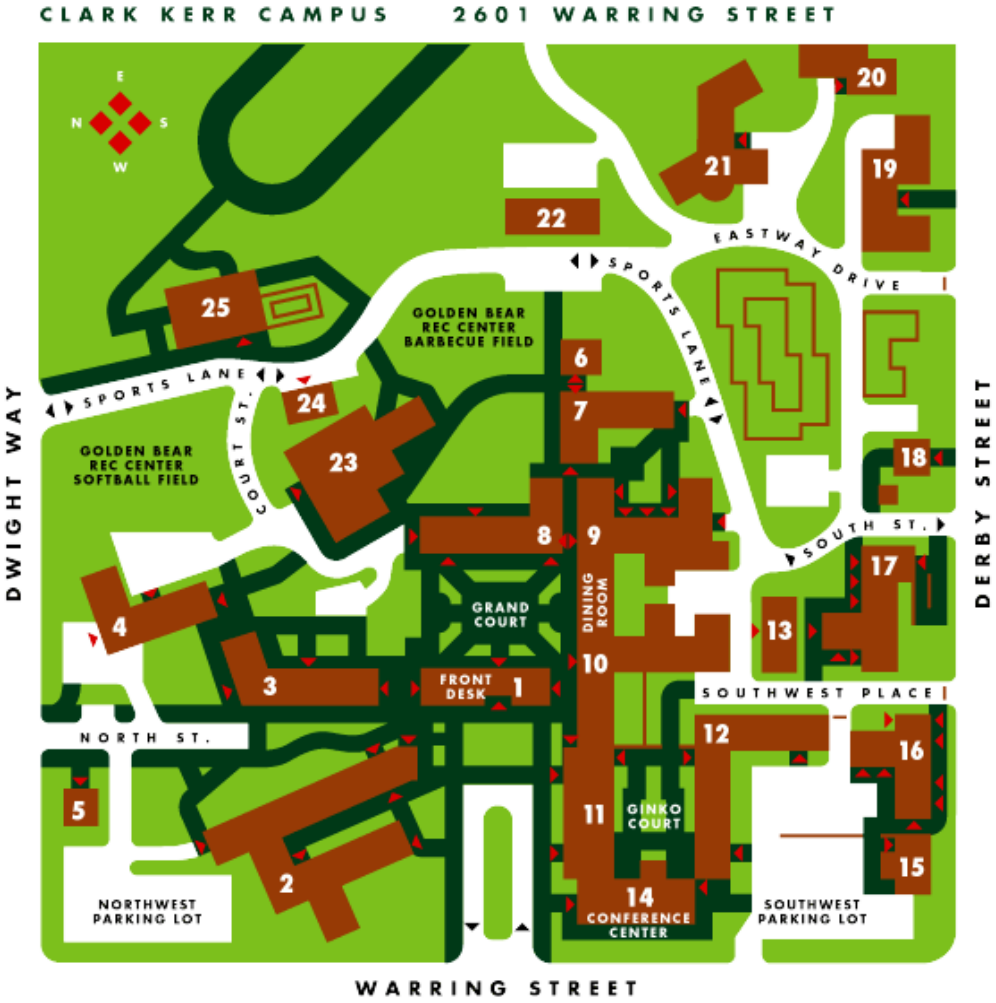
3:15 – 3:30 **Break**

3:30 – 4:00 **Issues and implications for fluid fuel technologies**
Facilitated by Manuele Aufiero (UCB) and Boris Hombourger (PSI)

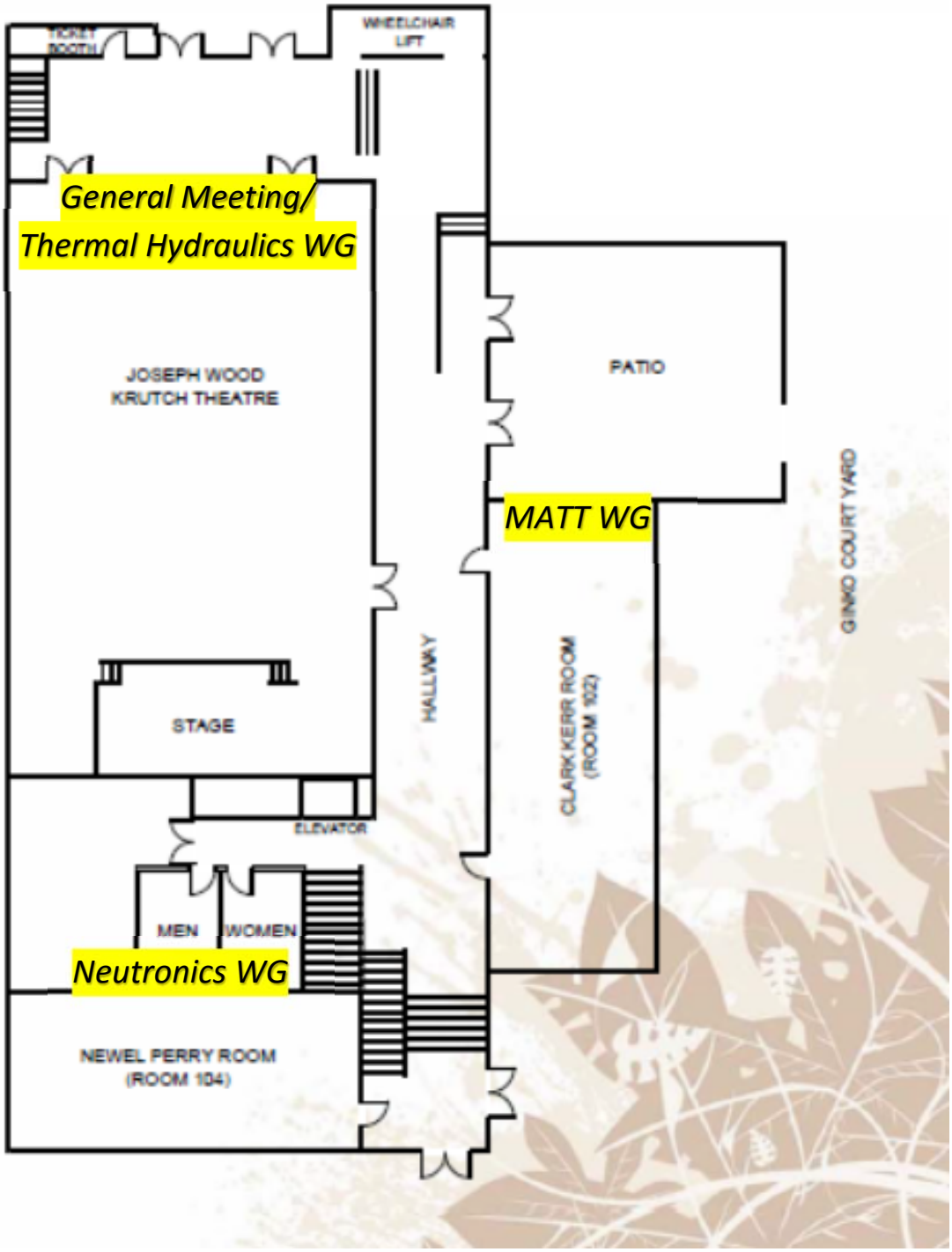
4:00 – 4:15 **Concluding Remarks and Next Steps**
Charles Forsberg (MIT), Per Peterson (UCB)

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.



BUILDING 14


TICKET BOOTH
WHEELCHAIR LIFT
General Meeting/
Thermal Hydraulics WG
JOSEPH WOOD
KRUTCH THEATRE
PATIO
MATT WG
GINKO COURT YARD
HALLWAY
CLARK KERR ROOM
(ROOM 102)
STAGE
ELEVATOR
MEN
WOMEN
Neutronics WG
NEWEL PERRY ROOM
(ROOM 104)