

DOE-CEA Meeting

August 21-23, 2018

**North Carolina State University (NCSU)
Duke Energy Conference Room (room 1121 Burlington Labs)
2500 Stinson Drive, Raleigh, NC 27695-7909**

AGENDA

Participants:

David Henderson (DOE)

J-P Hudelot & Patrick Blaise (CEA)

Phillip J. Finck (INL);

Temí Taiwo (ANL)

Chris Petrie (ORNL)

Kostadin Ivanov, Ayman Hawari, Nam Dinh, Scott Palmtag & John Gilligan (NCSU)

Tuesday – August 21, 2018

09:00 am Opening remarks and introduction – Kostadin Ivanov

09:05 am CASL presentation – Scott Palmtag

09:45 am PULSTAR Reactor Utilization in Benchmark and Multi-Physics Validation
Experiments – Ayman Hawari

10:30 am *Coffee break*

10:45 am CABRI within the frame of the OECD multi-physics group – J-P Hudelot, Patrick
Blaise

11:30 am Zephyr status (working on the inclusion of fast applications) - J-P Hudelot, Patrick
Blaise

12: 15 pm *Lunch*

01:30 pm *Visit of the PULSTAR reactor*

Wednesday – August 22, 2018

Start at 9 am

Coffee breaks at 10:30 am and 3:00 pm

Lunch from 12 to 1 pm

End at 5 pm

Facilities collaboration framework

1. Past facilities (criticals, irradiations, loops, reactors)
 - a. Lessons learned on operations
 - b. Lessons learned on experimental techniques
 - c. Experimental data
 - i. Availability
 - ii. Quality
 - iii. Potential improvements
 - iv. Potential exchanges
2. Existing facilities (TREAT/CABRI; ATR-HFIR/RJH; loops)
 - a. Lessons learned
 - b. Strategic sharing programs + complementarity
 - c. Experimental techniques
 - d. Use of results
3. Future facilities
 - a. Definition of needs (phenomenology; validation; demonstration)
 - b. Planned facilities
 - c. Experimental techniques
 - d. Data integration

In-vessel experiment capabilities at HFIR - Chris Petrie

Thursday – August 23, 2018

09:00 am Data-Driven Methodology for Validation – Nam Dinh

10:30 am Coffee Break

10:45 am Other presentations and discussions

12:00 Lunch