

# ZFSP 2022 Workshop Agenda

## Tuesday August 2

6:00 to 8:00 pm Registration and reception with appetizers: Casablanca

## Wednesday August 3

8:30 – 12:00 Plenary session opening remarks, Z Facility status, and program reviews: Barcelona

8:30 – 9:00 Dan Sinars, Sandia  
Welcome and introduction

9:00 – 9:30 Chris Bourdon, Sandia  
Z Machine update

9:30 – 10:00 Michael Jones / Eric Harding, Sandia  
Diagnostic update

10:00 – 10:30 Break

10:30 – 11:00 Dan Mayes, University of Texas  
Laboratory tests of stellar interior opacity models

11:00 – 11:30 Georges Jaar, University of Nevada  
Radiation heating and cooling, and the thermal stability of x-ray photoionized plasmas

11:30 – 12:00 Bart Dunlap, University of Texas  
Atomic processes in white dwarf atmospheres in the laboratory

12:00 – 1:15 Lunch

1:15 – 3:45 Plenary session program reviews: Barcelona

1:15 – 2:00 Patty Cho, University of Texas / Guillaume Loisel, Sandia  
Testing high-density and transient effects in photoionized plasma emission from black hole accretion

2:00 – 3:00 Jack Hare, Massachusetts Institute of Technology  
MARZ: Magnetically ablated reconnection on Z

3:00 – 3:15 Break

3:15 – 3:45 Ivan Oleynik, University of South Florida  
Phase transitions in SiC in the interiors of carbon-rich planets

3:45 – 5:30 Break-out sessions: Barcelona, Majorca, Casablanca, Valencia

#### **Thursday August 4**

- 8:30 – 10:30 Plenary session program reviews: Barcelona
- 8:30 – 9:00 Stein Jacobsen, Harvard University  
Formation and evolution of Earth-like and Water-World planets
- 9:00 – 9:30 Alisha Clark, University of Colorado  
Origin of Earth's water: Role of hydrous melts at extreme P-T conditions
- 9:30 – 10:00 Steven Jacobsen, Northwestern University  
Origin of the ultra-low velocity zones atop Earth's core-mantle boundary
- 10:00 – 10:30 Yingwei Fei, Carnegie Institution for Science  
Shock compression of pre-synthesized dense high-pressure phases
- 10:30 – 12:00 Break-out sessions: Barcelona, Majorca, Casablanca, Valencia
- 12:00 – 1:15 Lunch
- 1:15 – 4:00 Break-out sessions: Barcelona, Majorca, Casablanca, Valencia
- 4:00 – 4:30 Poster session setup
- 4:30 – 6:30 Student poster session

#### **Friday August 5**

- 8:30 – 9:30 Plenary session program reviews: Barcelona
- 8:30 – 9:30 Nick Hawker, First Light Fusion  
TBD
- 9:30 – 11:30 Break-out sessions: Barcelona, Majorca, Casablanca, Valencia
- 11:30 – 12:00 Plenary session closing remarks: Barcelona
- 12:00 – 1:30 Lunch