

ZFSP 2023 Workshop Agenda

Tuesday August 8

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

Wednesday August 9

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 Michael Jones, Sandia
Z Machine update

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

10:00 – 10:30 Break

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

11:00 – 11:30 Roberto Mancini, University of Nevada
Laboratory photoionized plasma experiments on Z

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

12:00 – 1:30 Lunch

1:30 – 4:00 Plenary session program reviews: Barcelona

1:30 – 2:00 Patty Cho, University of Texas, Austin
Testing high-density and transient effects in photoionized plasma emission from black hole accretion

2:00 – 2:30 Kathy Chandler, Sandia
MARZ: Magnetically ablated reconnection on Z

2:30 – 2:45 Derek Schaeffer, University of California Los Angeles
Magnetized Collisionless Shocks on Z

2:45 – 3:15 Break

3:15 – 3:45 Ronald Redmer, University of Rostock / Sakun Duwal, Sandia
Jovian Planets

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

Thursday August 10

- 8:30 – 11:45 Plenary session program reviews: Barcelona
- 8:30 – 9:00 Sarah Stewart, University of California, Davis
Formation and evolution of Earth-like and Water-World planets
- 9:00 – 9:30 Alisha Clark, University of Colorado, Boulder
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 Break
- 10:30 – 11:00 Sally June Tracy, Carnegie Institution for Science
Shock compression of pre-synthesized dense high-pressure phases
- 11:00 – 11:30 Ivan Oleynik, University of South Florida
Phase transitions in SiC in the interiors of carbon-rich planets
- 11:30 – 11:45 Mike Winey, Washington State University
Shock-induced melting in diamond single crystals
- 11:45 – 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 11

- 8:30 – 9:30 Plenary session: Barcelona
- 8:30 – 9:30 Nathan Moore, Sandia
IMPACT: X-ray generated plasmas and multiphase hydrodynamics
- 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