

2025 ZFS Workshop Agenda

Tuesday August 5

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

Wednesday August 6

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

8:30 – 9:00 Greg Rochau, 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, Reno
The gas cell photoionized plasma Experiment at Z

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

12:00 – 1:40 Lunch

1:40 – 3:30 Plenary session program reviews: Barcelona

1:40 – 2:00 Isaac Huegel, University of Michigan
Benchmark time-resolved emission spectra for accretion-powered objects

2:00 – 2:30 Lansing Horan IV, Massachusetts Institute of Technology
MARZ: MAgnetic Reconnection on Z

2:30 – 3:00 Heath LeFevre, University of Michigan
Photoionization front experiments on the Z machine

3:00 – 3:30 Break

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

Thursday August 7

8:30 – 12:00	Plenary session program reviews: Barcelona
8:30 – 9:00	Sarah Stewart, Arizona State University Formation and evolution of Earth-like planets: fundamental planetary material property experiments on Z
9:00 – 9:30	Sally Tracy, Carnegie Institute for Science Melting of bridgmanite: implications for the internal structure of super-Earths
9:30 – 10:00	Jean-Paul Davis, Sandia Origin of the ultra-low velocity zones atop Earth's core-mantle boundary
10:00 – 10:30	Break
10:30 – 11:00	Mike Winey, Washington State University Orientation dependence and inhomogeneity of melting in shocked diamond single crystals
11:00 – 11:30	Jean-Paul Davis / Chad McCoy, Sandia Origin of Earth's water: role of hydrous melts at extreme P-T conditions
11:30 – 12:00	Tom Ao, Sandia Development of a flyer driven hydrodynamic pressure amplifier system for the study of quartz Hugoniot and release on Z.
12:00 – 1:30	Lunch
1:30 – 4:00	Break-out sessions: Barcelona, Majorca, Catalina, Valencia
4:00 – 4:30	Poster session setup
4:30 – 6:30	Student poster session

Friday August 8

8:30 – 9:00	Plenary session: Barcelona
8:30 – 9:00	Marcus Knudson, Sandia Plenary session closing remarks
9:00 – 11:30	Break-out sessions: Barcelona, Majorca, Catalina, Valencia
11:30 – 1:00	Lunch