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ZFSP 2016 Workshop Agenda

Sunday July 31

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

Monday August 1

8:00 – 8:15 am Keith Matzen, opening remarks

8:15 – 8:30 am Sean Finnegan, OFES perspective

8:30 – 8:55 am Joel Lash, Z Facility Status

8:55 – 9:20 am Chris Bourdon, Diagnostics on Z

9:20 - 10:00 am David Arnett, Stars in the Laboratory

10:00 – 10:15 am Break

10:15 – 10:45 am Sarah Stewart, Does Earth remember accretion? Evolving ideas about the thermodynamics of growing planets

10:45 – 11:15 am Jim Bailey, Can we predict emission spectra from photoionized plasmas?

11:15 – 11:45 am Kyle Peterson, MagLIF research directions and progress

11:45 – 12:15 pm Ronald Redmer, H-He demixing and evolution of gas giants - Saturn

12:15 – 1:15 pm Lunch

1:15 – 1:45 pm Yogendra Gupta, The importance of x-ray measurements in dynamic compression – Dynamic Compression Sector and the Z-machine.

1:45 – 2:15 pm Guy Malamud, Kelvin-Helmholtz instability growth inhibition and vortex merger in a supersonic HEDP flow

2:15 – 2:45 pm Aaron Bernstein, Preparations for EOS and transport measurements of Fe at Earth core conditions on Z

2:45 – 3:30 pm Break and student poster session

- 3:30 – 4:00 pm Stein Jacobsen, Properties of the Bulk Silicate Earth (BSE) composition and the origin of Earth-like planets
- 4:00 – 4:30 pm Tom White, Resolving ion acoustic waves in warm dense matter
- 4:30 – 5:00 pm Taisuke Nagayama, Sandia; Stellar interior opacity measurements
- 5:00 – 5:30 pm Anil Pradhan and Sultana Nahar, Ohio State University; Enhancement of bound-free continuum opacity

Tuesday August 2

- 8:15 – 8:45 am Marc Schaeuble, U. Texas; White dwarf photosphere experiments for hydrogen, helium, and carbon rich white dwarf.
- 8:45 – 9:15 am Roberto Mancini, Non-equilibrium x-ray heating of a gas cell photoionized plasma at Z
- 9:15 – 12:00 pm Break-out sessions: Astrophysics, Planetary & materials, and Magnetized plasma physics.

****Breakout session: Diagnostic capabilities and needs for MagLIF****

- 9:15 - 9:35 am Matt Gomez, Sandia; Recent experimental MagLIF Results*
- 9:35 - 10:10 am Eric Harding, Sandia; X-ray diagnostic capabilities and needs*
- 10:10 - 10:45 am Kelly Hahn, Sandia; Neutron diagnostic capabilities and needs*

****Breakout session: University research efforts in magnetized HEDP and pulsed power****

- 10:45 - 11:10 am David Hammer, Cornell; Overview of Cornell HED plasma research portfolio*
- 11:10 - 11:30 am Vladimir Ivanov, UNR; A Laser Produced Plasma in Multi-MG Magnetic Fields*
- 11:30 - 11:50 am Austin Anderson, UNR; Investigation of Laser Generated Plasma Plumes as a Z-Pinch Target*
- 11:50 - 12:15 pm Community discussion of potential avenues for university participation in MagLIF effort*

- 12:00 – 1:00 pm Lunch
- 1:00 – 1:30 pm Dan Sinars, PPS&T national plan overview (tentative)
- 1:30 – 2:00 pm Andreas Neuber, Pulsed Power S&T – a national perspective
- 2:00 – 2:30 pm Edl Schamiloglu, Pulsed Power S&T – an international perspective
- 2:30 – 2:40 pm Break and split for break-out sessions
- 2:40 – 4:10 pm Breakout working sessions to discuss role of academia and NNSA calls
- 4:10 – 4:20 pm Break and reconvene in joint session

4:20 - 5:00 pm Dan Sinars, Closure and next steps

Wednesday August 3

8:15 – 8:45 am Mark Koepke, Improving spectral interpretation fidelity for development of a cross-cutting, computationally assisted, multi-element, Stark-broadening diagnostic technique on Z and NIF.

8:45 – 9:15 am Plenary 2, To Be Determined

9:15 – 10:45 am Break-out sessions: Astrophysics, Planetary & materials, and Magnetized plasma physics.

Breakout session: Implosion dynamics and stability of dense metal shells

9:15 - 9:45 am Tom Awe, Sandia; *Electrothermal Instability Evolution on Z-Pinch Rods and Imploding Liners Pulsed with Intense Current*

9:45 - 10:05 am Trevor Hutchinson, UNR; *Thick-wire Electrothermal Instability Growth under Dielectric Coatings*

10:05 - 10:45 am Matthew Martin, Sandia; *Direct Measurement of the Confinement Time in a Magnetically Driven Liner Stagnation*

10:45 – 12:00 pm Plenary session, including out-briefs from break-out sessions and final remarks.

12:00 – 1:00 pm Box lunch Hotel Lobby

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