



2026 ZNetUS Workshop

August 9-11, 2026

Times below are in MDT

August 9, 2026

6 to 8 pm Reception and Registration

August 10, 2026

TIME	TOPIC	SPEAKER	AFFILIATION
7:00 AM	Breakfast		
	Introduction and Federal Agency Perspectives		Chair: Keith LeChien
8:00 AM	Welcome	Jens Schwarz	ZNetUS Chair
8:30 AM	NNSA Office of Experimental Sciences, Inertial Confinement Fusion team	Mike Sheehy	NNSA
8:50 AM	NSF Division of Physics, Plasma Physics	Slava Lukin	NSF
9:10 AM	NNSA Office of Research, Development, Test, and Evaluation, Academic Programs	Noah Stevens	NNSA
9:30 AM	AFOSR High Energy Radiation and Matter at Extremes (HERMES)	Joel Bixler	AFOSR
9:50 AM	Break		
	Topical Talks and ZNetUS Results		Chair: Farhat Beg
10:15 AM	Pulsed Power – the Link Between High Power Electromagnetism (HPEM) Directed Energy and High Energy Density Physics (HEDP)	John Luginsland	AFOSR
10:35 AM	TBD	Jim Hammer	LLNL
11:00 AM	Development of Time Resolved Faraday Rotation diagnostic for HEDP sources	Salvador Portillo	UNM

Reception open daily from 7:00 am to 3:00 pm at the Mezzanine

11:20 AM	Characterization of Hard X-rays in CESZAR Staged Z-Pinch Configuration via 2-D Scintillator Array	Joshua Morgan	Caltech
11:40 AM	Imaging of Ti X-pinch Plasmas with High-Resolution X-ray Crystal Spectrometers	Frances Kraus	PPPL
12:00 PM	Resistive diffusion and radiative cooling effects in magnetized oblique shocks	Rishabh Datta	MIT
12:20 PM	Lunch		
	Results from ZNetUS Experiments	Chair: Jack Hare	
1:20 PM	Millimeter Wave Reflectometry and Interferometry for Low Density Plasma Measurements in Magnetically	Mark Gilmore	UNM
1:40 PM	Magnetic Pressure–Driven Collimation and Deflection of Coronal Plasma Outflows	Arijit Bose	U. Delaware
2:00 PM	Laser initiation of hot spots in X-pinchs	Vladmir Ivanov	UNR
2:20 PM	Quantitative examination of radiative pre-heat in high Mach number shocks	Simon Bott-Suzuki	UCSD
2:40 PM	Mykonos experiment on MITL plasma impact on load surface hydrodynamics and electrothermal instability (MyMASHETI)	Bruno Bauer	UNR
3:00 PM - 6:00 PM	Posters with Light Refreshments and Baked Goods		

August 11, 2026

TIME	TOPIC	SPEAKER	AFFILIATION
7:00 AM	Breakfast		
	Facilities Updates	Chair: Genia Vogman	
8:00 AM	Z and ZX	Mike Cuneo	Sandia
8:25 AM	MAIZE	Nick Jordan	U. Michigan
8:50 AM	COBRA/PUFFIN	Jack Hare	Cornell
9:15 AM	Mykonos	Jens Schwarz	Sandia
9:40 AM	Mjolnir	Chris Cooper	LLNL
10:05 AM	Break		
10:20 AM	ZEBRA	Vladimir Ivanov	UNR

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10:45 AM	MAGPIE	Simon Bland	Imperial
11:10 AM	CESZAR	Farhat Beg	UCSD
11:35 AM	Lunch		
	Industry and Code Development	Chair: Jens Schwarz	
12:40 PM	The path to facility gain on Pacific Fusion's Demonstration System	Paul Schmit	Pacific Fusion
1:05 PM	Recent progress on the FuZE series of devices at Zap Energy	Drew Elliott	Zap Energy
1:30 PM	FUSE	JC Btaiche	Fuse
1:55 PM	The KRAKEN MHD code	Chris Jennings	Sandia
2:20 PM	The CHICAGO PIC code	Nicki Bennett	Sandia
2:45 PM	The FLASH MHD code	Petros Tzeferacos	U. Rochester
3:10 PM	Simulation and Target Design at Pacific Fusion	Adam Reyes	Pacific Fusion
3:35 PM	Break		
	Results from ZNetUS Experiments	Chair: Petros Tzeferacos	
3:50 PM	Dual-Spectral Broadband X-ray Radiography for High-Density Plasma Diagnostics on ZEBRA	Hiroshi Sawada	UNR
4:10 PM	Stability and dynamics of helically-braided wire-array plasmas on Mykonos	Adele Breer	Caltech
4:30 PM	Study of the dynamics of noble gases (Ne, Ar, Kr and Xe) in gas puff Z-pinch experiments on a 1 MA current generator	Robert Beattie-Rossberg	UCSD
5:00 PM	Adjourn		

THANK YOU TO OUR SPONSORS FOR THEIR GENEROUS SUPPORT



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