

Sunday July 8th

6:00 - 10:00 PM Registration
8:00 - 10:00 PM Welcome Reception

Monday July 9th

Welcome/Opening Remarks

8:30 - 8:50 AM Conference Organizing Committee

Oral Session

Session Chair:	Strozzi, LLNL	
8:50 - 9:10 AM	MO1 Winjum	UCLA <i>Influence of magnetic fields on nonlinear electron plasma waves and kinetic stimulated Raman scattering</i>
9:10 - 9:30 AM	MO2 Palastro	LLE <i>Resonant absorption of a broadband laser pulse</i>
9:30 - 9:50 AM	MO3 Wen	UCLA <i>Simulations of stimulated Raman scattering for speckled laser with temporal bandwidth</i>
9:50 - 10:10 AM	MO4 Yan	Univ. Sci. & Tech. China <i>Laser-plasma instabilities at large-angle oblique laser incidence</i>

10:10 - 10:30 AM Coffee Break

Oral Session

Session Chair:	Albright, LANL	
10:30 - 10:50 AM	MO5 Molvig	LANL/MIT <i>Theory of laser driven ablation</i>
10:50 - 11:10 AM	MO6 Sauppe	LANL <i>Effects of double shell joint morphology and capsule size on implosion performance</i>
11:10 - 11:30 AM	MO7 Schmitt	LANL <i>2-Dimensional simulations of the Revolver direct-drive multi-shell ignition concept</i>
11:30 - 11:50 AM	MO8 Wan	LANL <i>Experimental investigation of hydrodynamic instability inhibition in a material gradient</i>
11:50 - 12:10 PM	MO9 Ho	LLNL <i>High-yield implosions via radiation trapping and high rR</i>

Evening Invited Talk

Session Chair:	Casanova, CEA	
7:00 - 7:40 PM	MI1 Michel	LLNL <i>Mitigation of SBS and associated optics damage in NIF experiments</i>

Evening Poster Session

8:00 - 10:00 PM	MP1 Chan	NRL <i>Nike laser-target facility and diagnostic systems</i>
	MP2 Tsung	UCLA <i>Controlling laser plasma instabilities via bandwidth</i>
	MP3 Davies	LLE <i>Picosecond-resolved collective Thomson scattering in underdense collisional plasmas</i>
	MP4 Manheimer	RSI <i>A new model for alpha transport and deposition</i>
	MP5 Weis	SNL <i>Advances in laser pre-heat modeling for MagLIF</i>
	MP6 Mori	UCLA <i>The particle-in-cell and kinetic simulation software center</i>
	MP7 Myers	NRL <i>Development of an argon fluoride laser for inertial confinement fusion</i>
	MP8 Cao	LLE <i>Fluid modeling on three dimensional two plasma decay instability using FLAME-MD</i>

Tuesday July 10th

Oral Session

Session Chair:	Tsung, UCLA	
8:30 - 8:50 AM	TO1 Froula	LLE <i>Plasma physics and broadband lasers - A path to an expanded inertial confinement fusion design space</i>
8:50 - 9:10 AM	TO2 Poole	LLNL <i>Time resolved study of plasma amplifier for beam combination on NIF</i>
9:10 - 9:30 AM	TO3 Edgell	LLE <i>Analysis of unabsorbed light beamlet images on OMEGA</i>
9:30 - 9:50 AM	TO4 Ralph	LLNL <i>Crossed Beam Energy Transfer in "mid" fill hohlraums on the NIF</i>
9:50 - 10:10 AM	TO5 Hansen	LLE <i>Plasma characterization for the OMEGA laser-plasma interaction platform</i>

10:10 - 10:30 AM Coffee Break

Oral Session

Session Chair:	M. Schmitt, LANL	
10:30 - 10:50 AM	TO6 Albright	LANL <i>The MARBLE campaign - understanding the interplay between heterogeneous mix and thermonuclear burn</i>
10:50 - 11:10 AM	TO7 Yin	LANL <i>Plasma kinetic effects on interfacial mix and burn rates in multi-spatial dimensions</i>
11:10 - 11:30 AM	TO8 Li	UCSD <i>Particle-in-cell simulations of laser plasma instabilities and hot electron generation in shock ignition regime</i>
11:30 - 11:50 AM	TO9 Luedtke	UT, Austin/LANL <i>Photon jets for QED particle-in-cell laser-plasma simulations</i>
11:50 - 12:10 PM	TO10 Ren	LLE <i>Laser-plasma instabilities in long-scale-length plasmas in shock ignition</i>

Evening Invited Talk

Session Chair:	A. J. Schmitt, NRL	
7:00 - 7:40 PM	TI1 Geissel	SNL <i>3-Phase pulse shaping for laser pre-heat in Mag-LIF</i>

Evening Poster Session

8:00 - 10:00 PM	TP1 Kehne	NRL <i>Capabilities of the Nike laser for HEDP experiments</i>
	TP2 Ludwig	LLNL <i>Design of a high-bandwidth probe laser for LPI and plasma photonics experiments</i>
	TP3 Schmitt	NRL <i>Triangulated raytracing in spherically-gridded plasmas</i>
	TP4 Vold	LANL <i>Further examination of multi-species plasma ion transport: results in 1-D ICF configurations</i>
	TP5 Berger	LLNL <i>Multidimensional simulations of Brillouin amplification experiments</i>
	TP6 Rosculp	LANL <i>Simulation of magnetically driven HEDP/ICF experiments with a Lagrangian/ALE Code</i>
	TP7 Bates	NRL <i>Suppressing cross beam energy transfer in direct drive laser-fusion targets using stimulated rotational Raman scattering</i>
	TP8 Scheiner	LANL <i>The role of incidence angle in the laser ablation of ICF targets</i>

Wednesday July 11th

Oral Session

Session Chair:	Geissel, SNL	
8:30 - 8:50 AM	WO1 Weis	SNL <i>Advances in laser pre-heat modeling for MagLIF</i>
8:50 - 9:10 AM	WO2 Strozzi	LLNL <i>Design of magnetized, room-temperature capsule implosions for NIF</i>
9:10 - 9:30 AM	WO3 Zhao	Tsinghua Univ. <i>Measuring CH-Au interface in gas-filled hohlraum using Thomson scattering on SG-III prototype</i>
9:30 - 9:50 AM	WO4 Zimmerman	LLNL <i>Factors which determine the magnitude of the Nernst effect in spherical and cylindrical implosions</i>
9:50 - 10:10 AM	WO5 Roycroft	LANL <i>Ion beam driven isochoric heating on Texas Petawatt</i>

10:10 - 10:30 AM Coffee Break

Oral Session

Session Chair:	Froula, LLE	
10:30 - 10:50 AM	WO6 Sary	CEA <i>Comprehensive Zakharov-type modeling of parametric instabilities in the corona of direct-drive targets</i>
10:50 - 11:10 AM	WO7 Solodov	LLE <i>Hot-electron generation and preheat in direct-drive experiments at the National Ignition Facility</i>

11:10 - 11:30 AM	WO8	Seaton	Univ. of Warwick	<i>Laser-plasma instabilities at ignition-scale: particle-in-cell simulations of shock ignition</i>
11:30 - 11:50 AM	WO9	Zhang	UCSD	<i>The generation of collimated moderate temperature electron beam in shock ignition-relevant planar target experiments on OMEGA-EP</i>
11:50 - 12:10 PM	WO10	Kagan	LANL	<i>Inference of the electron temperature in spherical implosions from x-ray spectra</i>

Conference Banquet

6:00 - 8:00 PM Post-banquet speaker Dr. Robert C. Bayer, Director of Lobster Institute, Univ. of Maine: *Lobsters 101*

Thursday July 12th

<u>Oral Session</u>	Session Chair:	Kagan, LANL	
8:30 - 8:50 AM	RO1	Anderson	LANL
8:50 - 9:10 AM	RO2	Keenan	LANL
9:10 - 9:30 AM	RO3	Wilson	LANL
9:30 - 9:50 AM	RO4	Manheimer	RSI
9:50 - 10:10 AM	RO5	Farmer	LLNL

A fully-conserving, adaptive, multi-scale algorithm with arbitrary temporal integration for the multi-species Vlasov-Ampere system
Unraveling the kinetic structure of multi-ion collisional plasma shocks
Assessing xRAGE predictive capability using the high-energy density physics validation suite
Krook and Fokker-Planck models for calculation nonlocal transport in a laser fusion target plasma
Electron heat transport in beryllium sphere on Omega

10:10 - 10:30 AM Coffee Break

<u>Oral Session</u>	Session Chair:	Rosenberg, LLE	
10:30 - 10:50 AM	RO6	Berger	LLNL
10:50 - 11:10 AM	RO7	Liu	UMD
11:10 - 11:30 AM	RO8	Maximov	LLE
11:30 - 11:50 AM	RO9	Chapman	LLNL

The scaling of stimulated backscatter from BigFoot hohlraums with laser power and energy: practical backscatter reduction options
Nonlinear transition to absolute Raman backscattering instability with trapped electrons - a theory for inflation of Raman reflectivity
Modeling of stimulated Raman scattering in inhomogeneous plasmas for conditions relevant to the National Ignition Facility
Modeling optics damage patterns at the NIF caused by light backscattered from targets

11:50 - 12:10 PM Business Meeting

<u>Evening Invited Talk</u>	Session Chair:	Michel, LLNL	
7:00 - 7:40 PM	RI1	Rosenberg	LLE

Planar laser-plasma interaction experiments at the direct-drive ignition-relevant scale lengths at the National Ignition Facility

Evening Poster Session

8:00 - 10:00 PM	RP1	Casanova	CEA
	RP2	Poole	LLNL
	RP3	Simakov	LANL
	RP4	Oh	NRL
	RP5	Stark	LANL
	RP6	Weaver	NRL
	RP7	Miller	UCLA

Modeling the propagation of a nanosecond smoothed laser beam in a multi-millimeter underdense plasma
Plasma instability enhancement for generating high fluence, high energy x-ray sources
Plasma ion stratification by weak planar shocks
Progress on plasma profile measurements for the Nike experiments
Laser-ion acceleration in the transparency regime
CBET studies in long scale-lengths plasmas at the Nike laser
Recent OSIRIS development for improved high-energy-density plasma simulations

Friday July 13th

<u>Oral Session</u>	Session Chair:	Hu, LLE	
8:30 - 8:50 AM	FO1	Karasiev	LLE
8:50 - 9:10 AM	FO2	Lee	NRL
9:10 - 9:30 AM	FO3	Patel	LLNL
9:30 - 9:50 AM	FO4	Karasik	NRL

Density functional theory methods for transport and optical properties: application to warm dense silicon
Radiative and atomic properties of C and CH plasmas under warm dense conditions
The role of NLTE atomics kinetics in radiation hydrodynamics modeling of ICF targets
Imprint mitigation with high-Z coating on Omega EP and NIF imprint experiments

9:50 - 10:10 AM Coffee Break

<u>Oral Session</u>	Session Chair:	Weaver, NRL	
10:10 - 10:30 AM	FO5	Belyaev	LLNL
10:30 - 10:50 AM	FO6	Hu	LLE
10:50 - 11:10 AM	FO7	Langer	LLNL
11:10 - 11:30 AM	FO8	Johns	LANL
11:30 - 11:50 AM	FO9	Dhakal	LANL

Energy-conserving model of laser propagation and heating in subcritical foam
Mitigating laser-imprint effects in direct-drive implosions on OMEGA with low-density foam layers
HYDRA simulations of laser-heated foams
Analysis of radiation flow experiments in Ti-doped foams on OMEGA
Effects of thermal conductivity of liquid layer in NIF wetted foam experiments