

## Draft Agenda for 2010 SSAA Symposium

Wednesday, January 20, 2010

Moderator: Dr. Mike Kreisler

Begin	End	Duration	Speaker	Affiliation	Title
<b>7:15</b>	<b>8:15</b>	1:00	<b>Registration/Breakfast</b>		
8:15	8:25	0:10	Meserve, Richard	Carnegie Institution of Washington	Welcome from Carnegie
8:25	8:35	0:10	Deeney, Chris	NNSA	Welcome from NNSA
8:35	9:05	0:30	McNabb, Dennis	Lawrence Livermore National Laboratory	Low Energy Nuclear Science - What is it and why does the NNSA care?
9:05	9:35	0:30	Alexander, Kathi	Los Alamos National Laboratory	Materials under Extreme Conditions - What is it and why does the NNSA care?
9:35	10:05	0:30	Budil, Kim	Lawrence Livermore National Laboratory	High Energy Density Physics - Hydrodynamics - What is it and why does the NNSA care?
<b>10:05</b>	<b>10:20</b>	0:15	<b>Break</b>		
10:20	10:50	0:30	Apruzese John	Naval Research Laboratory	High Energy Density Physics - Radiation Science - What is it and why does the NNSA care?
10:50	11:20	0:30	Cizewski, Jolie	Rutgers University	New Results from Radioactive Ion Beam Studies for Stewardship Science
11:20	11:35	0:15	Ceperley, David	University of Illinois	Quantum Simulations for Dense Matter
11:35	11:50	0:15	Tonchev, Anton	Duke University	Precision Photo-Induced Cross-Section Measurements using the Monoenergetic and Polarized Gamma Beams at HIGS
11:50	12:05	0:15	Sentoku, Yasuhiko	University of Nevada, Reno	Enabling Numerical Modeling of Extreme-Intensity Laser-Produced Hot Dense Plasma
<b>12:05</b>	<b>13:30</b>	1:25	<b>Lunch</b>		
Moderator: Dr. Robert Hanrahan					
13:30	14:00	0:30	Kindel, Joe	University of Nevada, Reno	Research at the Nevada Terawatt Facility
14:00	14:15	0:15	Safronova, Alla	University of Nevada, Reno	Spectroscopic and Imaging Studies of Z-Pinch and Laser-Produced Plasmas and Application to Astrophysics
14:15	14:30	0:15	Kantsyrev, Victor	University of Nevada, Reno	Studies of New Wire Arrays with Open and Closed Magnetic Configurations at 1.6 MA Zebra Generator at UNR

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14:30	14:45	0:15	Ranjan, Devesh	Texas A&M University	Detailed Measurements of Turbulent Rayleigh-Taylor Mixing at Large and Small Atwood Numbers
14:45	15:00	0:15	Kapteyn, Henry	University of Colorado	Coherent Imaging Studies of High Density Femtosecond Laser Plasmas
<b>15:00</b>	<b>15:30</b>	0:30	<b>Break</b>		
15:30	15:45	0:15	Afeyan, Bedros	Polymath Research, Inc.	Optical Mixing Techniques for Taming Laser Plasma Instabilities in High Energy Density Laboratory Plasmas
15:45	16:00	0:15	Browning, Nigel	University of California, Davis	Enhanced Functionality for Materials Analysis in the DTEM
16:00	16:30	0:30	Morales, Miguel	Rice University	First Principles Simulation of Hydrogen and Helium at High Pressure
16:30	17:00	0:30	Keynote speaker - Brig Gen Garrett Harencak	Principal Assistant Deputy Administrator for Military Application, Office of Defense Programs, NNSA	We are rising above the "Gathering Storm"
<b>17:00</b>	<b>19:30</b>	2:30	<b>Poster Session and Reception</b>		

**Thursday, January 21, 2010**

**Moderator: Dr. Ralph Schneider**

<b>Begin</b>	<b>End</b>	<b>Duration</b>	<b>Speaker</b>	<b>Affiliation</b>	
<b>8:00</b>	<b>8:30</b>	0:30	<b>Breakfast</b>		
8:30	9:00	0:30	Hemley, Rus	Carnegie Institution of Washington	Materials Properties at Extreme Conditions
9:00	9:15	0:15	Jacobs, Jeffrey	University of Arizona	Experiments on the Rayleigh-Taylor and Richtmyer-Meshkov Instabilities
9:15	9:30	0:15	Scalettar, Richard	University of California, Davis	Magnetic and Structural Properties of f-electron Systems at High Pressure: Experiments and Theory
9:30	9:45	0:15	Tornow, Werner	Duke University	Neutron Induced Reaction on Specific Nuclei

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9:45	10:00	0:15	Mori, Warren	University of California, Los Angeles	Continuation of the Application of Parallel PIC Simulations to Laser and Electron Transport Through Plasmas under Conditions Relevant to ICF and HEDS
<b>10:00</b>	<b>10:15</b>	0:15	<b>Break</b>		
10:15	10:45	0:30	Soures, John	University of Rochester/Laboratory for Laser Energetics	High-Energy-Density Physics Research at the NLUF Using the OMEGA and OMEGA EP Lasers
10:45	11:00	0:15	Jacobsen, Stein	Harvard University	Soft X-Ray Shock Loading and Momentum Coupling in Meteorite and Planetary Material
11:00	11:30	0:30	Petrasso, Richard	Massachusetts Institute of Technology	Studying Fields and Matter in HED Plasmas, Hohlräume and ICF Implosions, using Monoenergetic Proton and Alpha Radiography and Fusion-Product Spectrometry
11:30	11:45	0:15	Falcone, Roger	University of California, Berkeley	Structure and Dynamics of Materials Under Extreme Conditions
11:45	12:00	0:15	Tozer, Stan	Florida State University	Closing in on the Fermi surface of Alpha Uranium
<b>12:00</b>	<b>13:30</b>	1:30	<b>Lunch</b>		
Moderator: Dr. Jason Pruet					
13:30	14:00	0:30	Hammer, David	Cornell University	High Energy Density Plasma Studies with Pulsed Power Machines
14:00	14:15	0:15	Robertson, Ian	University of Illinois	Dynamic Response of Nanostructured Single and Multilayer Metals
14:15	14:30	0:15	Brune, Carl	Ohio University	Studies in Low Energy Nuclear Science
14:30	14:45	0:15	Peralta, Pedro	Arizona State University	Incipient Spall in Metallic Materials: A Three Dimensional Study of the Microstructural Characteristics of Damage Nucleation Sites
14:45	15:00	0:15	Mitchell, Gary	North Carolina State University	Cross Sections, Level Densities and Strength Function
<b>15:00</b>	<b>15:15</b>	0:15	<b>Break</b>		

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15:15	15:45	0:30	Drake, Paul	University of Michigan	Center for Laser Experimental Astrophysics Research (CLEAR)
15:45	16:00	0:15	Mancini, Roberto	University of Nevada, Reno	Experiments and Modeling of Photoionized Plasmas at Z
16:00	16:15	0:15	Vu, Hoanh	University of California, San Diego	Hot Electron Production by the Two-Plasmon Decay Instability
16:15	16:30	0:15	Fisch, Nat	Princeton University	Fundamental Issues in the Interaction of Intense Lasers with Plasma
16:30	16:45	0:15	Vohra, Yogesh	University of Alabama	Structural and Magnetic Studies on Heavy Rare Earth Metals at High Pressures using Designer Diamonds in Support of the Stockpile Stewardship Program
16:45	17:00	0:15	Bonazza, Riccardo	University of Wisconsin	Investigation of the Rayleigh-Taylor and Richtmyer-Meshkov Instabilities
17:00	17:15	0:15	Danon, Yaron	Rensselaer Polytechnic Institute	Experiments with a Lead-Lowing Down Spectrometer and Fission Neutrons
17:15	17:30	0:15	Vorobieff, Peter	University of New Mexico	Shock-Driven Multiphase Hydrodynamics Experiments for Hydrocode Validation

**Friday, January 22, 2010**

**Moderator: Dr. Kathi Alexander**

Begin	End	Duration	Speaker	Affiliation	Title
<b>7:30</b>	<b>8:00</b>	0:30	<b>Breakfast</b>		
8:00	8:30	0:30	McCluskey, Matt (for PI Yogi Gupta)	Washington State University	Institute of Shock Physics at Washington State University
8:30	8:45	0:15	Tribble, Robert	Texas A&M University	Development of New Techniques to Determine Neutron Induced Reaction Rates
8:45	9:00	0:15	Nazarewicz, Witold	University of Tennessee	Microscopic Description of the Fission Process
9:00	9:15	0:15	Ross, Tim (for PI Con Beausang)	University of Richmond	Nuclear Stewardship Research at the University of Richmond

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9:15	9:30	0:15	Abramson, Evan	University of Washington	Viscosity and Entropy
9:30	9:45	0:15	Ellison, Paul (for PI Heino Nitsche)	University of California, Berkeley	Toward Neutron-Induced Fission Cross Section Measurements on Rare Actinide Isotopes
9:45	10:00	0:15	Li, Baosheng	Stony Brook University	Integrated Acoustic and X-ray Study on Solids and Liquids at Extreme Conditions
<b>10:00</b>	<b>10:15</b>	0:15	<b>Break</b>		
10:15	10:30	0:15	Hammer, David	Co-Chair, ReNew Workshop	Update from the ReNew Workshop
10:30	11:00	0:30	Ditmire, Todd	University of Texas at Austin	The Texas Center for High Intensity Laser Science
11:00	11:15	0:15	Ditmire, Todd	University of Texas at Austin	Experimental Study of the Equation-of- State in Dense, Strongly-Coupled Plasma
11:15	11:45	0:30	Cornelius, Andrew	University of Nevada, Las Vegas	Science Based Stockpile Stewardship Collaborative Research Development
11:45	12:00	0:15	Pradhan, Anil	Ohio State University	High-Precision Plasma Opacities for HEDLP
12:00	12:15	0:15	Maple, Brian	University of California, San Diego	Novel-d and f Electron Materials under Extreme Conditions of Pressure, Temperature, and Magnetic Field
12:15	12:30	0:15	Hatarik, Robert (for PI Joseph Cerny)	University of California, Berkeley	Developing a Neutron Source for NIF Diagnostic