

SHORT PROGRAM

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SCHEDULE: QUICK VIEW.	
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SANTA EF RESTALIRANTS	NEARBY

Monday, October 28, 2019 All sessions in the Chapel at Eldorado

Session: Equation of state of Low-Z materials and carbon phase diagram

9:00 AM – 9:15 AM	Welcoming Remarks Dana Dattelbaum, Los Alamos National Laboratory
9:15 AM – 9:45 AM	Michelle Marshall, Lawrence Livermore National Laboratory Equation of state and chemical reaction in shock-compressed TATB
9:45 AM – 10:15 AM	Marius Millot, Lawrence Livermore National Laboratory Investigating the melting line of a diamond using laser-driven shock compression
10:15 AM – 10:45 AM	Phil Sterne, Lawrence Livermore National Laboratory Equation of state considerations for ICF applications
10:45 AM – 11:15 AM	Break
11:15 AM – 11:45AM	Burkhard Militzer, University of California, Berkeley First-principles computer simulations of shock compressed carbon and silicates
11:45 AM – 12:15 PM	Joshua Coe, Los Alamos National Laboratory Polymer equations of state and shock-driven decomposition
12:15 PM – 01:45 PM	Lunch (Cava Lounge at Eldorado)
01:45 PM – 02:15 PM	Kyle Cochrane, Sandia National Laboratory Shock compression of hydrocarbons to Mbar pressures: successes, challenges, and lessons learned
02:15 PM – 02:45 PM	Lorin Benedict, Lawrence Livermore National Laboratory A review of LLNL's multiphase carbon EOS models: construction, applications, and open questions
02:45 – 03:00 PM	Claire Lemarchand, French Alternative Energies and Atomic Energy Commission Molecular dynamics simulations of polymers: equilibrium, direct shock, and Hugoniostat
03:00 PM – 03:30 PM	Break
03:30 PM – 04:00 PM	Rachel Huber, Los Alamos National Laboratory X-ray diffraction and scattering to probe structural changes during dynamic compression of polymers
04:00 PM – 04:30 PM	Katie Maerzke, Los Alamos National Laboratory Equations of state and shock-driven chemistry in poly(dimethylsiloxane)-based foams

04:30 PM Adjourn

Tuesday, October 29 2019 All sessions in the Chapel at Eldorado

Poster Presentations 8:30 – 11:00 AM

Posters can be hung at 7:30 A.M. Tuesday morning and will stay up through the end of the conference on Wednesday. Poster submissions will be accepted as part of the registration.

Session: Detonation carbon experiments and modeling

11:00 AM – 11:30 AM	Dana Dattelbaum, Los Alamos National Laboratory Detonation carbon experimental data
11:30 AM – 12:00 PM	Rebecca K, Lindsey, Lawrence Livermore National Laboratory Elucidating the microscopic phenomena governing carbon condensation in shock compressed materials from atomistic simulations
12:00 PM – 12:30 PM	Jeffery Leiding, Los Alamos National Laboratory Towards ab initio Monte Carlo simulation of high explosive products EOS
12:30 PM – 02:00 PM	Lunch (Cava Lounge at Eldorado)
02:00 PM – 02:30 PM	Kirill Velizhanin, Los Alamos National Laboratory Kinetics of carbon clustering in detonation of high explosives: Shaw-Johnson growth along accurate hydrodynamic streamlines
02:30 PM – 03:00 PM	Sorin Bastea, Lawrence Livermore National Laboratory Conceptual and practical challenges for carbon modeling in explosives
03:00 PM – 03:30 PM	Trevor Willey , Lawrence Livermore National Laboratory Detonation synthesis of carbon nano-onions via liquid carbon condensation
03:30 PM – 04:00 PM	Chris Ticknor, Los Alamos National Laboratory Recent efforts on high explosives modeling from equation of state to burn models

04:00 PM Adjourn

Wednesday, October 30 2019

All sessions in the Chapel at Eldorado

Session: Carbon, C-H, and Low-Z materials in HED physics

09:00 AM – 09:30 AM	Peter Celliers, Lawrence Livermore National Laboratory Multi-Tpa shock hugonot data from NIF experiments
09:30 AM – 10:00 AM	Amalia Fernandez Panella, Lawrence Livermore National Laboratory 2D visar experiments at the Omega facility on diamond ablators
10:00 AM – 10:30 AM	Ivan I. Oleynik, Department of Physics, University of South Florida Carbon at extreme conditions: New Insights from first-principles and quantum-accurate SNAP molecular dynamics
10:30 AM – 11:00 AM	Break
11:00 AM – 11:30 AM	Damian C. Swift, Lawrence Livermore National Laboratory Observations and puzzles in the EOS of carbon from ~2-80 TPa
11:30 AM	Adjourn

Santa Fe Restaurants Nearby

Reviews and Recommendations

Santa Fe Reporter 2018-2019 Restaurant Guide by Area

We are "Downtown"

https://www.sfreporter.com/guides/restaurant-guide-2017/2018/10/24/restaurant-directory-2018-2019/

Top 35 Restaurants https://www.sfreporter.com/restaurant-guide/

Restaurants Nearby - Map https://www.google.com/maps/search/Restaurants/@35.686683,-105.9425323,16.13z