



LAWRENCE  
LIVERMORE  
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# Workshop on Laser Plasma Interactions on the National Ignition Facility

D. Hinkel, D. Callahan, S. H. Glenzer

May 23, 2011

Workshop on Laser Plasma Interactions on the National Ignition Facility

Livermore, CA, United States

May 18, 2011 through May 18, 2011

## **Disclaimer**

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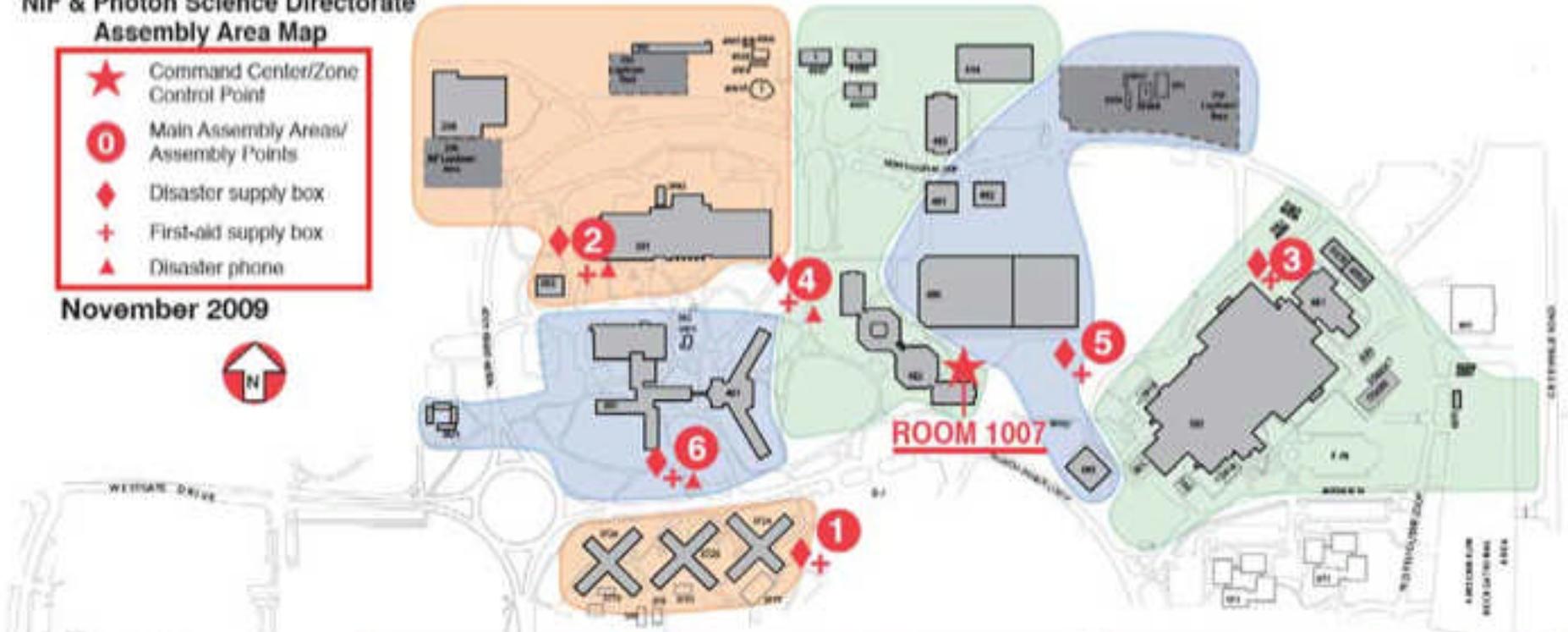
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# Where to go in an emergency

## NIF & Photon Science Directorate Assembly Area Map

- ★ Command Center/Zone Control Point
- 0 Main Assembly Areas/ Assembly Points
- ◆ Disaster supply box
- + First-aid supply box
- ▲ Disaster phone

November 2009



Emergency Instructions	
Immediate Evacuation	Shelter-In-Place
<ol style="list-style-type: none"> <li>1. Evacuate immediately, when directed or when common sense dictates.</li> <li>2. Help injured people, if possible without jeopardizing yourself.</li> <li>3. Proceed to Assembly Area and await additional instructions.</li> <li>4. Report any injuries or unsecured classified materials, etc.</li> </ol>	<ol style="list-style-type: none"> <li>1. Remain inside building.</li> <li>2. Close all exterior doors &amp; windows.</li> <li>3. Close window blinds &amp; drapes.</li> <li>4. Move away from exterior, exposed areas.</li> <li>5. Follow instructions over building page system.</li> </ol>

### Be Prepared

1. Know your response to an emergency.
2. Identify the Assembly Area closest to your normal work area.
3. Learn the shortest, safest way to reach it.
4. Read the NIF & Photon Science Directorate "What to do in an Emergency" brochure. Copies are available from these sources:  
 NIF & Photon Science Directorate  
 - ES&H Office (ext. 4-3238)  
 - Self Help Coordinator (ext. 3-3077)  
 - TeamNIF internal website under Facilities and Assurances/ES&H  
<https://nif-int.llnl.gov/>

NIF employees working in non-NIF & Photon Science Directorate Facilities should report to the nearest assembly area.

# NIC

## **Workshop on Laser- -Plasma Interactions on the National Ignition Facility**

**Denise Hinkel, Debbie Callahan, Siegfried Glenzer**

**May 18, 2011**

**Lawrence Livermore National Laboratory • National Ignition Campaign**

This work performed under the auspices of the U.S. Department of Energy by Lawrence Livermore National Laboratory under Contract DE-AC52-07NA27344

# Plan for today

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**Workshop on Laser-Plasma Interactions on the National Ignition Facility**  
**Lawrence Livermore National Laboratory**  
**May 18, 2011**  
**B481 R2004/2005**

- 8:30 am      **Arrival and Badging**
- 8:45 am      **Welcome**  
*E. Moses, Lawrence Livermore National Laboratory*
- 9:00 am      **NIF Hohlraum Energetics Experiments**  
*N. Meezan, Lawrence Livermore National Laboratory*
- Status of the NIC Ignition Campaign
- 9:30 am      **Hohlraum Physics**  
*M. Rosen, Lawrence Livermore National Laboratory*
- Impact of High Flux Model
- 10:30 am     **Laser-Plasma Interactions**  
*P. Michel, Lawrence Livermore National Laboratory*
- SRS, SBS, crossed beam transfer and hot electron data from NIF
- 11:30 am     **PF3D Simulations**  
*D. Hinkel, Lawrence Livermore National Laboratory*
- Comparison of SBS and SRS power and spectra with NIF data
- 12:30 pm     **LUNCH – Central Cafeteria**

# Plan for today – cont.

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- 1:15 pm     **Laser-Plasma Interaction Modeling**  
*W. Mori, University of California Los Angeles*
  
- 2:00 pm     **VPIC simulations of SRS in multi-speckled laser beams in hohlraums**  
*L. Yin, Los Alamos National Laboratory*
  
- 2:30 pm     **Open Discussion Session**  
*D. Hinkel, D. Callahan, S. Glenzer (chairs), Lawrence Livermore National Laboratory*
  - Nonlinear processes, saturation, future improvements in diagnostics and simulations
  
- 4:00 pm     **Committee discussion**
  
- 4:30 pm     **Outbrief**
  
- 5:15 pm     **Adjourn meeting**

Hosts:             Denise Hinkel & Siegfried Glenzer  
Admin Contact:    Leslie Michalak x- 2-0217 & Krystealle Sutherland x - 3-0828  
Clearance:         Unclassified  
Date:                May 13, 2011

# NIC

