

NIF & JLF User Groups Meeting

2026 • LIVERMORE, CALIFORNIA

AGENDA

February 10 – February 12, 2026
Bella Rosa Event Center Garré Vineyard
& Winery 7986 Tesla Road
Livermore, CA 94550

Tuesday, February 10, 2026

7:00 am **Registration Opens and Continental Breakfast**

Opening Session: Chair: Dayne Fratanduono, LLNL

8:00 am **Opening Remarks**
Dayne Fratanduono, Acting NIF User Office Director, LLNL

8:05 am **Opening Comments from the Deputy Director for Science and Technology**
Pat Falcone, Deputy Director for Science and Technology, LLNL

8:15 am **NIF User Group Welcome**
Maria Gatu-Johnson, NIF User Group Chair, Massachusetts Institute of Technology

8:25 am **JLF User Group Welcome**
Benjamin Ofori-Okai, JLF User Group Chair, SLAC National Accelerator Laboratory

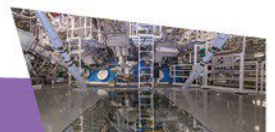
8:35 am **Welcome and Opening Remarks by the Principal Associate Director of NIF & PS**
Vincent Tang, NIF & PS Principal Associate Director, LLNL

8:45 am **Jupiter Laser Facility Welcome**
Félicie Albert, Jupiter Laser Facility Director, Lawrence Livermore National Laboratory

8:55 am **NNSA Perspective (Virtual)**
Anagha Iyengar, National Nuclear Security Administration

9:15 am **NSF Perspective (Virtual)**
Vyacheslav (Slava) Lukin, U.S. National Science Foundation

9:30 am **Status of the NIF**
Gordon Brunton, NIF Director, Lawrence Livermore National Laboratory



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9:45 am ***NIF User Office: What's New for Users at the NIF***
Dayne Fratanduono, Acting NIF User Office Director, LLNL

10:05 am ***Break***

Session 1: Science of NIF – Atomic Physics

Chair: Mario Manuel, Lawrence Livermore National Laboratory

10:30 am ***White Dwarfs from the Inside Out***
Bart Dunlap, University of Texas

11:00 am ***Laboratory Measurements of Partially Ionized Carbon under White Dwarf Envelope Conditions***
Willow Martin, Stanford University

11:30 am ***Evidence of Enhanced K-Shell Ionization in Warm-Dense Carbon***
David Bishel, Lawrence Livermore National Laboratory

12:00 pm ***Group Photo***

12:15 pm ***Lunch (Transitioning into The Poster Session)***

1:00 pm ***Poster Session 1***
Chair: Danae Polsin, NIF User Group Co-Chair, Laboratory for Laser Energetics

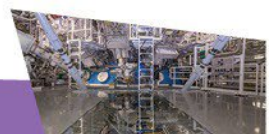
2:30 pm ***Break***

Session 2: Science on NIF – Materials

Chair: Annie Kritcher, Lawrence Livermore National Laboratory

3:00 pm ***The Science of Materials Using NIF***
Jon Eggert, Lawrence Livermore National Laboratory

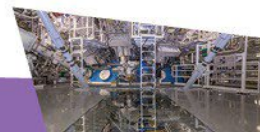
3:30 pm ***Probing the Interiors of Super-Earth Exoplanets with NIF***
Tom Duffy, Princeton University



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- 4:00 pm ***Chemistry Under Extremes – Metallization of Ionic Solids***
C-S Yoo, Washington State University
- 4:30 pm ***The Electrified Nature of Ramp-Compressed Sodium in the Terapascal***
Danae Polsin, NIF User Group Co-Chair, Laboratory for Laser Energetics
- 5:00 pm ***Adjourn for the day***
- 5:00 pm ***NIF PI Meeting with NIF Management (By Invitation)***



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Wednesday, February 11, 2026

7:00 am ***Continental Breakfast and Registration***

Session 3: Jupiter Laser Facility

Chair: Ben Ofori-Okai, JLF User Group Co-Chair, SLAC National Accelerator Laboratory

8:00 am ***JLF Welcome***
Glenn Fox, Principal Associate Director for Physical and Life Sciences, LLNL

8:05 am ***JLF Opening Remarks***
Félicie Albert, Jupiter Laser Facility Director, Lawrence Livermore National Laboratory

8:10 am ***Measurements of Rippled Reflecting Shocks in Epoxy***
Gaia Righi, Lawrence Livermore National Laboratory

8:30 am ***Extreme Tensile Strength of High-Entropy Alloys by Laser Shock***
Sheron Tavares, University of California San Diego

8:50 am ***Tamped Ablator Pressure Dependence on Intensity and Tamper***
Mike Armstrong, Lawrence Livermore National Laboratory

9:10 am ***Progress Toward a Short-Pulse Laser-Driven X-Pinch on the Titan Laser***
Heath LeFevre, University of Michigan

9:30 am ***Plasma Probing and Single-Shot Crossed-Beam Energy Transfer Measurements Using a Broadband Probe***
Andrew Longman, Lawrence Livermore National Laboratory

9:50 am ***Michigan Target Research and Fabrication***
Sallee Klein, University of Michigan

10:10 am ***Break***

10:30 am ***JLF Updates and Overview***
Félicie Albert, Jupiter Laser Facility Director, Lawrence Livermore National Laboratory
Brent Stuart, Lawrence Livermore National Laboratory



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11:30 am **Community Feedback and Discussion**
Ben Ofori-Okai, JLF User Group Co-Chair, SLAC National Accelerator Laboratory

12:30 pm **Lunch (Transitioning into The Poster Session)**

1:00 pm **Poster Session 2**
Chair: Danae Polsin, NIF User Group Co-Chair, Laboratory for Laser Energetics

2:30 pm **Break**

Session 4: New NIF Experiments

Chair: Graeme Sutcliffe, Lawrence Livermore National Laboratory

3:00 pm **Neutron Capture in a Plasma Environment - Towards an Excited State Measurement**
Brian Appelbe, Imperial College London

3:15 pm **Studying the $3\text{He}-3\text{He}$ Reaction for Stellar Nucleosynthesis in HED Plasmas at the NIF**
Andrew Lanzrath, Massachusetts Institute of Technology

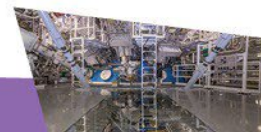
3:30 pm **Toward the First Measurements of Plasma Electron Screening Relevant to Stellar Nucleosynthesis**
Daniel Casey, Lawrence Livermore National Laboratory

3:45 pm **Exploring Al_2O_3 Crystal Structures at TPa Pressures Using Ramp Compression**
Terry Suer, Laboratory for Laser Energetics

4:00 pm **Lithium Multi-Shock Equation of State**
Shanti Deemyad, University of Utah

4:15 pm **Advancing Atomic Physics at Gbar Pressure**
Tilo Doeppner, Lawrence Livermore National Laboratory

4:30 pm **Continuation of Iron Photoionized Plasmas at Conditions of X-ray Reflection from Accretion Disks**
Roberto Mancini, University of Nevada Reno



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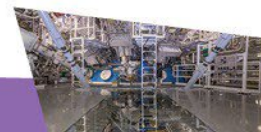
4:45 pm **Measuring the Ionization State of Mid-Z Traces for White Dwarf Astrophysics**
Willow Martin, Stanford University

5:00 pm **Adjourn for the day**

6:00 pm **Social Function at Da Boccery**
175 E Vineyard Ave, Livermore, CA 94550



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Thursday, February 12, 2026

7:00 am **Continental Breakfast and Registration**

Session 5: NIF User Group Meeting

Chair: Maria Gatu-Johnson, NIF User Group Chair, Massachusetts Institute of Technology

8:00 am **NIF User Group Meeting and Discussion**

Maria Gatu-Johnson, NIF User Group Chair, Massachusetts Institute of Technology

Session 6: Science on NIF-Shocks

Chair: Ellie Tubman

8:30 am **ABACUS: A Bayesian-Delphi Framework for Plasma Transport Coefficients**

Michael Murillo, Michigan State

9:00 am **Laser-Induced Shocks in Flowing Plasmas**

Wojciech Rozmus, University of Alberta

9:30 am **Scaling of Shock-Driven Flows Over Two Orders of Magnitude in Length Scales Between Shock Tube and NIF Environments Laser-Induced Shocks in Flowing Plasmas**

Alex Do, Lawrence Livermore National Laboratory (on behalf of Riccardo Bonazza, University of Wisconsin)

10:00 am **Extending NIF Experiments on the Driving Parameter of Shock-Forced Turbulence to Supersonic Conditions**

Seth Davidovitz, Lawrence Livermore National Laboratory

10:30 am **Break**

Session 7: Rapid Fire Session—NIF Diagnostic Capabilities

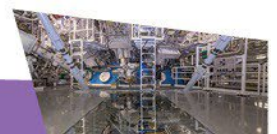
Chair: Arianna Gleason

10:45 am **VISAR Imaging Velocimetry at the NIF**

Marius Millot, Lawrence Livermore National Laboratory

10:55 am **Overview of NIF Framing Cameras**

Clement Trosseille, Lawrence Livermore National Laboratory



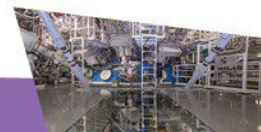
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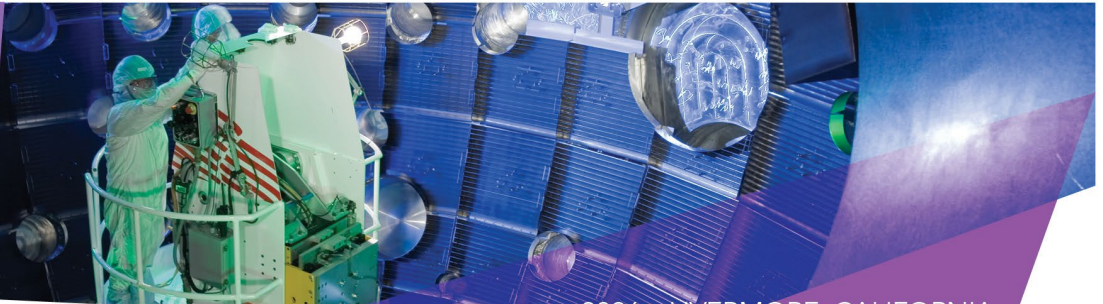
- 11:05 am ***Time-Resolved X-Ray Diffraction***
Cara Vennari, Lawrence Livermore National Laboratory
- 11:15 am ***Optical Thomson Scattering on the NIF***
George Swadling, Lawrence Livermore National Laboratory
- 11:25 am ***LLNL Radiochemistry Diagnostics***
John Despotopoulos, Lawrence Livermore National Laboratory
- 11:35 am ***Overview of NIF X-Ray Spectroscopy Capabilities***
Christine Mariscal, Lawrence Livermore National Laboratory, General Atomics
- 11:45 am ***Poster Awards***
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- 12:00 pm ***Adjourn Meeting***
- 12:10 pm ***NIF and JLF Tours - buses depart from meeting venue (Garré Vineyard & Winery)***
- 2:45 pm ***NIF and JLF Tours Conclude - buses return to meeting venue (Garré Vineyard & Winery)***



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NOTES

Thank you to our generous sponsors!

