



Lawrence Livermore National Laboratory National Ignition Facility Tour

Friday, March 18, 2016

Time: 8:00 AM SHARP at **LLNL Westgate Badge Office, Livermore, CA 94550** (See maps below)

Leaders: LLNL Staff

Cost: \$15 per person

Lunch is provided by NACE San Francisco Section.

Attendance is limited to 30 persons on a First Come-First Served basis.

Safety Equipment, if required, will be provided by LLNL

The NACE San Francisco Bay Area Section has scheduled a tour of the Lawrence Livermore National Laboratory's National Ignition facility (NIF) in Livermore, CA, on March 18, 2016. The National Ignition Facility is the world's largest and most energetic laser facility ever built. NIF is also the most precise and reproducible laser as well as the largest optical instrument. The giant laser has nearly 40,000 optics that precisely guide, reflect, amplify, and focus 192 laser beams onto a fusion target about the size of a pencil eraser. NIF became operational in March 2009. NIF is the size of a sports stadium—three football fields could fit inside. By focusing NIF's laser beams onto a variety of targets, scientists create extreme states of matter, including temperatures of more than 100 million degrees Celsius (180 million degrees Fahrenheit) and pressures that exceed 100 billion times Earth's atmosphere. NIF users and collaborators include researchers from Department of Energy (DOE) national laboratories, universities, and other U.S. and foreign research centers. NIF is making important advances toward achieving fusion ignition in the laboratory for the first time (see [How to Make a Star](#)). NIF's goal is to focus the intense energy of 192 giant laser beams on a BB-sized target filled with hydrogen fuel, fusing the hydrogen atoms' nuclei and releasing many times more energy than it took to initiate the fusion reaction. NIF supports fundamental advances in support of the national security, Discovery Science, and energy security missions.

Please note that **lunch will be served after the tour.**

Join us on a tour to see a truly unique facility designed to provide vital information that can be used to create efficient, safe, clean electrical power and strategic support for America's national security mission!

REGISTRATION FORM

Please remember, there is a limit of 30 people on this tour. Attendance is based on a **first come-first served** basis. **PLEASE RSVP BY E-MAIL ONLY** to

Michelle Anderson at mlanderson@corrpro.com

Then please fill out this registration form and mail it with a check made out to the NACE S.F. Section to:

Michelle Anderson
Corrpro, Inc.
20991 Cabot Boulevard
Hayward, CA 94545

YOU MUST E-MAIL Michelle for a reservation to hold your place on the tour. THEN you may pay the \$15 per person fee by mail or at the February 9, 2016 NACE Section Meeting if you are attending.

*Please note: **The Tour Cost is \$15.00 per person (No Refunds)***

The following information is for the NACE San Francisco Section and Lunch arrangements

Name _____

Address (Street/City/Zip) _____

Phone _____ E-mail _____

Number in your party _____

Lunch selection (please check your choice)

Roast Beef _____ Turkey _____ Ham) _____ Vegetarian _____

Sodas, water, chips, and cookies will be provided with the sandwiches.

Please fill out the following information for every member of your party

If you are a Foreign National, please call Angelas Ford as soon as possible

Angelas P. Ford

Administrative Specialist - NIF Operations
NIF & Photon Science Directorate
Lawrence Livermore National Laboratory
Office Phone: (925) 423-9947
Fax Number: (925) 422-9528
Mail Code: L-760



Please Print Clearly and provide all information requested below.

PERSONAL INFORMATION:

Full Name (First, Middle, Last) _____

Social Security Number: _____

CITIZENSHIP: UNITED STATES (Yes/No) _____

ADDRESS: _____

CITY, STATE, ZIP CODE: _____

Contact Phone (cell or home): _____

E-mail Address: _____

Birth Information:

Date of Birth: _____ **Country:** _____

City of Birth: _____ **City Zip Code:** _____

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CITY, STATE, ZIP CODE: _____

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E-mail Address: _____

Birth Information:

Date of Birth: _____ **Country:** _____

City of Birth: _____ **City Zip Code:** _____



Aerial view of the LLNL in east Livermore south of I-580. East of here, I-580 goes over the Altamont Pass to Tracy, CA.



West Gate Badge Office on Vasco Road at the intersection with Daphne Drive

Directions:

- **Take I-580 east from the Dublin-Pleasanton I-580 / I-680 interchange**
- **Pass all the major Livermore exits and take Exit 55 south onto South Vasco Road**
- **Drive about 1.5 miles south on Vasco Road. Pass Las Positas Rd. and Patterson Pass Rd.**
- **Turn left into the West Gate of LLNL at Daphne Dr.**
- **Make an immediate right into the parking lot at the LLNL Badge Office.**

We will go into the Badge Office for our security clearance. It will take about 45 minutes to an hour to clear the group and give everyone visitor passes.

LLNL will provide transportation to NIF for our tour. Lunch will be served following our tour.

PLEASE LEAVE YOUR CELL/SMART PHONES IN YOUR VEHICLES

If you need instructions, call Dan Day at 510-507-0013