

**Agenda for the 17<sup>th</sup> Annual OMEGA Laser Users Workshop  
At Laboratory for Laser Energetics (LLE), Rochester, NY  
April 28<sup>th</sup> – 30<sup>th</sup>, 2026**

(U.S. Eastern Daylight Time; all talks will be held in the Seminar Conference Room)

Zoom link: <https://rochester.zoom.us/j/99916497946>

**Before OLUG Workshop**

**Monday, April 27<sup>th</sup>**

13:30 – 17:00 D. Canning/M. Labuzeta Facility tour followed by introduction to the facility  
Omega PI overview (part of PI training)

**Begin OLUG Workshop**

**Tuesday, April 28<sup>th</sup>**

7:30 – 8:30 Registration and Continental Breakfast  
8:30 – 8:45 D. Schaeffer, UCLA Workshop opening  
8:45 – 9:00 C. Deeney, LLE LLE Director welcome and remarks

**DOE Funding Agencies**

9:00 – 9:25 N. Stevens, NNSA NNSA academic programs  
9:25 – 9:50 M. Sheehy, NNSA NNSA overview and OES perspective  
9:50 – 10:15 K. Akli, DOE DOE FES perspective

10:15 – 10:30 Coffee break

**Invited Talks 1 (AI/ML)**

***Chair: Matt Hill***

10:30 – 11:00 V. Gopalaswamy, UR Advancing Inertial Fusion Experiments with  
Machine Learning and Artificial Intelligence  
11:00 – 11:30 I. Oleynik, USF Materials at Extremes: From Predictive  
Machine-Learning Molecular Dynamics to Impactful  
Experiments at NIF and OMEGA  
11:30 – 12:00 D. Mariscal, LLNL AI-Native HED Science and Fusion: Developing  
self-driving experiments and a shared AI-native  
scientific ecosystem  
12:00 – 12:15 Workshop Picture

12:15 – 13:30 Lunch

### Poster Session 1

13:30 – 15:00 Poster session 1

15:00 – 15:15 Coffee break

### NSF and Facility Updates

15:15 – 15:40	S. Lukin, NSF	NSF perspective
15:40 – 15:50	M. Wei, LLE	Omega User Programs Updates
15:50 – 16:15	D. Canning/M. Labuzeta, LLE	OMEGA Facility Update & Progress on OLUG F&R's

### Findings & Recommendations (F&R) Session 1

*(Quad charts should be emailed to session chairs by Tuesday EOD; You can also scan the QR code to submit your suggestions online.)*



16:15 – 17:45	H. Poole (UR) C. Kuranz (UM)	Discussions of F&R of the users – Part 1
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### Tutorial session *(Pizza will be served)*

18:00 – 18:10	P. Heuer, LLE	Update on pRad backlighters for OMEGA
18:10 – 18:45	P. Heuer, LLE D. Mastro Simone, LLE	The Gas Jet System
18:45 – 19:30	A. Milder, LLE J. Katz, LLE	The Optical Thomson Scattering on OMEGA

### Wednesday, April 29<sup>th</sup>

7:30 – 8:30		Registration and Continental Breakfast
8:30 – 8:45	D. Schaeffer, UCLA	Morning announcements

### PhD Thesis Research Talks 1

#### **Chair: Carolyn Kuranz**

8:45 – 9:05	S. Dannhoff, MIT	Suppression of hohlraum wall expansion by pre-imposed axial magnetic fields on OMEGA
9:05 – 9:25	E. Smith, LLE	Data-driven constraint of ultrahigh-pressure physics in implosion experiments

## **F&R Session 2**

9:25 – 10:15 H. Poole (UR) Discussions of F&R of the users – Part 2  
C. Kuranz (UM)

10:15 – 10:30 Coffee break

## **Poster Session 2**

10:30 – 12:00 Poster session 2

12:00 – 13:00 Lunch

## **Facility and Diagnostic Capabilities**

**Chair: Maria Gatu-Johnson**

13:00 – 13:20 M. Yuly, Houghton U. Short Lived Isotope Counting System for Nuclear Experiments on OMEGA and OMEGA EP  
13:20 – 13:40 S. Ivancic, LLE Design and Deployment of Zone Plate Optics for X-ray Imaging at the Omega Laser Facility  
13:40 – 14:00 C. Mileham, LLE MTW OPAL: Origins to Opportunities  
T. Raymond, LLE

## **Young Researchers Session**

14:00 – 15:00 Students and postdocs (only) Young Researcher (YR) Forum

15:00 – 15:15 Coffee break

## **Careers and Training Opportunities in HED Science**

15:15 – 16:15 National labs, industry, and academia representatives

## **Poster Session 3**

16:15 – 17:45 Poster session 3

## **Banquet (Tony D's)**

18:30 – 21:00

## **Thursday, April 30th**

7:30 – 8:30 Continental Breakfast

8:30 – 8:45 D. Schaeffer, UCLA

Morning announcements

### **PhD Thesis Research Talks 2**

**Chair: Michelle Marshall**

8:45 – 9:05 A. Syeda, UR

Viscosity Measurement of Shock-compressed Epoxy

9:05 – 9:25 T. Cordova, UCSD

Inferring the electronic structure of mid-Z elements in the warm dense matter regime

### **Invited Talks 2**

**Chair: Elizabeth Grace**

9:30 – 10:00 S. Regan, LLE

Report of BRN Workshop on Measurement Innovation

10:00 – 10:30 F. Beg, UCSD

Pivoting Research to Convert Fusion Engineering Hurdles into Opportunities

10:30 – 10:45 Coffee break

### **F&R Session 3**

10:45 – 11:45 H. Poole (UR)  
C. Kuranz (UM)

Discussion of F&Rs with LLE management

11:45 – 12:05 M. Marshall, LLE  
I. Golovkin, Prism

Poster awards to students and postdocs

12:05 – 12:15 M. Gatu-Johnson, MIT

OLUG ExCom election results

12:15 – 12:30 D. Schaeffer, UCLA

Final Announcements

12:30 Lunch

Workshop adjourns

### **After OLUG Workshop**

1:30 – 17:00 M. Labuzeta/D. Canning

Omega PI training (continues through Friday)