

Agenda for the 15th Annual OMEGA Laser Users Workshop

April 16th – 18th, 2024

(U.S. Eastern Daylight Time)

Tuesday, April 16th

7:30 – 8:30 Registration and Continental Breakfast (**U of R Advancement Center next to LLE**)
**Round table discussion: DEIA + outreach breakfast session to share ideas and initiatives*

8:30 – 8:35 Pia Valdivia (OLUG Chair), UCSD Workshop opening

8:35 – 8:55 Chris Deeney, LLE LLE Director welcome and remarks

Funding Agencies Session Chair: Carolyn Kuranz, U. Michigan (**U of R Advancement Center next to LLE**)

8:55 – 9:15 Marco Romo-Gonzalez, LLE Fostering a Welcoming Environment and Creating a Culture of Inclusion at the LLE

9:15 – 9:35 Hanah Joudi, NNSA NNSA overview and OES perspective

9:35 – 9:55 Stephanie Miller, NNSA NNSA academic programs

9:55 – 10:15 Kramer Akli, FES FES perspective. *-Remote*

10:15 – 10:35 Slava Lukin, NSF NSF perspective

10:35 – 10:50 Coffee break

Facility Session Chair: Michelle Marshall, LLE (**U of R Advancement Center next to LLE**)

10:50 – 11:00 Verena Geppert-Kleinrath, LANL Finding and Recommendations (F&R's) from Omega users: a brief introduction
Alison Saunders, LLNL

11:00 – 11:30 Sam Morse, LLE OMEGA Facility Update & Progress on OLUG F&R's

11:30 – 11:50 Mingsheng Wei Omega User Programs Updates

11:55 – 12:00 Lauren Hobbs, AWE Networking event intro

12:00 – 12:20 **Workshop picture**

12:20 – 13:30 Lunch ***Networking event: interest group sign-up*

Scientific Talks 1 Session Chair: Heath LeFevre, U. Michigan (**U of R Advancement Center next to LLE**)

13:30 – 14:00 Jon Zuegel, LLE NSF OPAL

14:00 – 14:20 Nuno Candeias Lemos, LLNL High-energy proton beams generated from high-intensity laser interaction with 3D printed structures. *-Remote*

Targets Session Chair: Pia Valdivia, UCSD (**U of R Advancement Center next to LLE**)

14:20 – 14:30 Claudia Shuldberg, GA Target Fab Process for NLUF Campaigns at OMEGA

14:30 – 14:40 Steve Ivancic, LLE MIFEDS coil design and production

14:40 – 15:10 Sallee Klein, U. Michigan Community discussion: survey & live questions

15:10 – 15:25 Coffee break

F&R Session 1 Chairs: Verena Geppert-Kleinrath, LANL and Alison Saunders, LLNL (**U of R Adv. Center next to LLE**)

****Quad charts should be emailed to session chairs before workshop starts*

15:25 – 17:10 Discussions of Findings and Recommendations of the users – Part 1

***** Tutorial session at the LLE (this session only) *****

Tutorial session (at the LLE) – Pizza will be served

17:30 – 18:30 **Turning Beams Into Dreams:**

Steve Ivancic, David Canning, with others (LLE) will discuss facility requirements and best practices for PI's when designing and preparing their Omega and Omega EP campaigns. Participants will come away with an Operations-focused perspective on how to effectively communicate your experimental vision to the facility.

Wednesday, April 17th

7:30 – 8:30 Registration and Continental Breakfast (**U of R Advancement Center next to LLE**)

PhD Talks 1 Session Chairs: Francisco Suzuki-Vidal (remote), FLF and Lauren Hobbs, AWE (**U of R Adv. Center**)

8:30 – 8:35 Pia Valdivia, UCSD Morning announcements

8:35 – 8:55 Landon Tafoya, U. Michigan Ion temperature imaging in ICF through spatially-resolved nTOF

8:55 – 9:15 Kristen Churnetski, UofR/LLE Three-Dimensional Reconstruction of Direct-Drive Hot Spots from X-Ray and Nuclear Diagnostics on OMEGA

F&R Session 2 Chairs: Verena Geppert-Kleinrath, LANL and Alison Saunders, LLNL (**UoR Adv. Center next to LLE**)

****Quad charts should be emailed to session chairs by Tuesday EOD*

9:15 – 10:30 Discussions of Findings and Recommendations of the Users – Part 2

10:30 – 10:45 Coffee break

Workforce Development Session Chair: Matt Hill, LLNL (**U of R Advancement Center next to LLE**)

10:45 – 11:00 Pia Valdivia, UCSD OLUG community survey: establishing DEIA goals

11:00 – 11:15 Terry Kessler, LLE Supporting diversity through education programs: LLE BEST and Initiatives supported by OLUG community members

11:15 – 11:35 Chandra Curry, SLAC Supporting Student and Early Career Researchers: LaserNetUS Utilizes RENEW and Prepares for Future Programs

11:35 – 11:55 Laura Kappy, LLE LLE Undergraduate Education Program: Building a Workforce for the Future

***** Wednesday afternoon sessions at the LLE *****

11:55 – 13:30 Lunch and **Omega and Omega-EP tours (LLE building)**

Young Researchers Session Chairs: Heath LeFevre and Veronica Contreras, U. Michigan (**LLE building**)

13:30 – 14:00 Student and postdoc panel discussion

14:00 – 14:45 Young Researchers (YR) Forum:

Room 1: Student and postdoc attendees only – Moderator: Veronica Contreras

Room 2: Researchers - How to better support YR's – Moderator: Heath LeFevre

14:45 – 15:00 Coffee break

Poster Session Chairs: Michelle Marshall, LLE and Matt Hill, LLNL (**LLE building**)

15:00 – 18:00 Poster session

Banquet (Location TBD)

19:00 – 21:00

Thursday, April 18th

7:30 – 8:30 Continental Breakfast (**U of R Advancement Center next to LLE**)

PhD Talks 2 Session Chair: Louise Willingale (remote) and Veronica Contreras, U. Michigan (**U of R Adv. Center**)

8:30 – 8:35 Pia Valdivia, UCSD Morning announcements

8:35 – 8:55 Jacob Percy, MIT Experimental Evidence of Plasmoids in High-Beta Magnetic Reconnection

8:55 – 9:15 Ian Ocampo, Princeton The effect of iron on phase transitions in the deep interiors of large, rocky exoplanets

Networking Event Session Chair: Lauren Hobbs, AWE (Advancement Center)

9:15 – 10:00 Breakout groups: Topics TBD from OLUG community survey

10:00 – 10:10 Coffee break

Careers and Training Opportunities in HED Science: Mingsheng, Wei, LLE (**U of R Adv. Center next to LLE**)

10:10 – 12:00 National labs, industry, and academia representatives

LANL: Zaarah Mohamed and Maggie Huff

LLNL: Patrick Poole

SNL: Adam Harvey-Thompson

GA: Gilbert Collins IV

PPPL: Lan Gao

UR: Hans Rinderknecht

12:00 – 12:10 Derek Schaeffer, UCLA OLUG election results

12:10 – 13:30 Lunch

Scientific Talks 2 Session Chair: Matt Hill, LLNL (U of R Advancement Center next to LLE)

13:30 – 14:00 Nick Murphy, Center for Astrophysics The PlasmaPy Project

14:00 – 14:20 Jergus Strucka, Imperial College Portable pulsed-power systems and their applications at high-power laser research facilities

14:20 – 14:40 Ellie Tubman, Imperial College Imaging Plate detector stacks for proton radiography

14:40 – 14:55 Coffee break

F&R Session Chairs: Verena Geppert-Kleinrath, LANL and Alison Saunders, LLNL (U of R Adv. Center next to LLE)

14:55 – 15:55 Discussion of Findings and Recommendations with LLE management

15:55 – 16:25 Networking interest topics round table discussion

16:25 – 16:55 Matt Hill, LLNL Poster awards to students/postdocs
Michelle Marshall, LLE

16:55 – 17:00 Pia Valdivia, UCSD Final Announcements

17:00 Workshop adjourns

Future Dates:

2024 APS-DPP OLUG meeting, Atlanta, GA: 9 October 2024, Tuesday 17:30 to 19:00

2025 OLUG Workshop: Tuesday - Thursday, 22 - 24 April 2025