



LaserNetUS

VIRTUAL TOWN HALL FOR CYCLE 6

NOV. 13, 2023

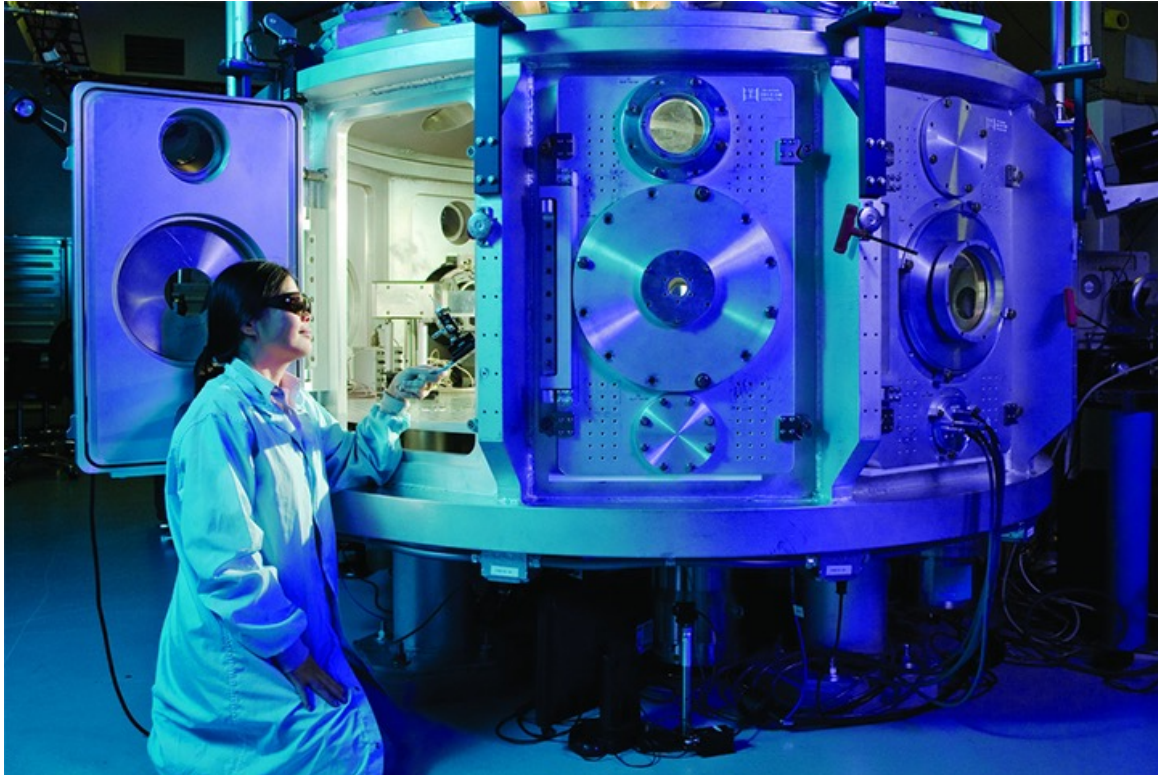


U.S. DEPARTMENT OF
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AGENDA



09:00 - 09:10

Opening Remarks

09:10 - 09:20

LaserNetUS Overview

09:20 - 09:45

Laser Facility Presentations

09:45 - 10:00

UMich Target Node Presentation

10:00 - 10:10

Zoom Poll: Attendee Survey

10:10 - 10:30

Q&A Session

10:30 - 10:40

Closing Remarks and Next Steps



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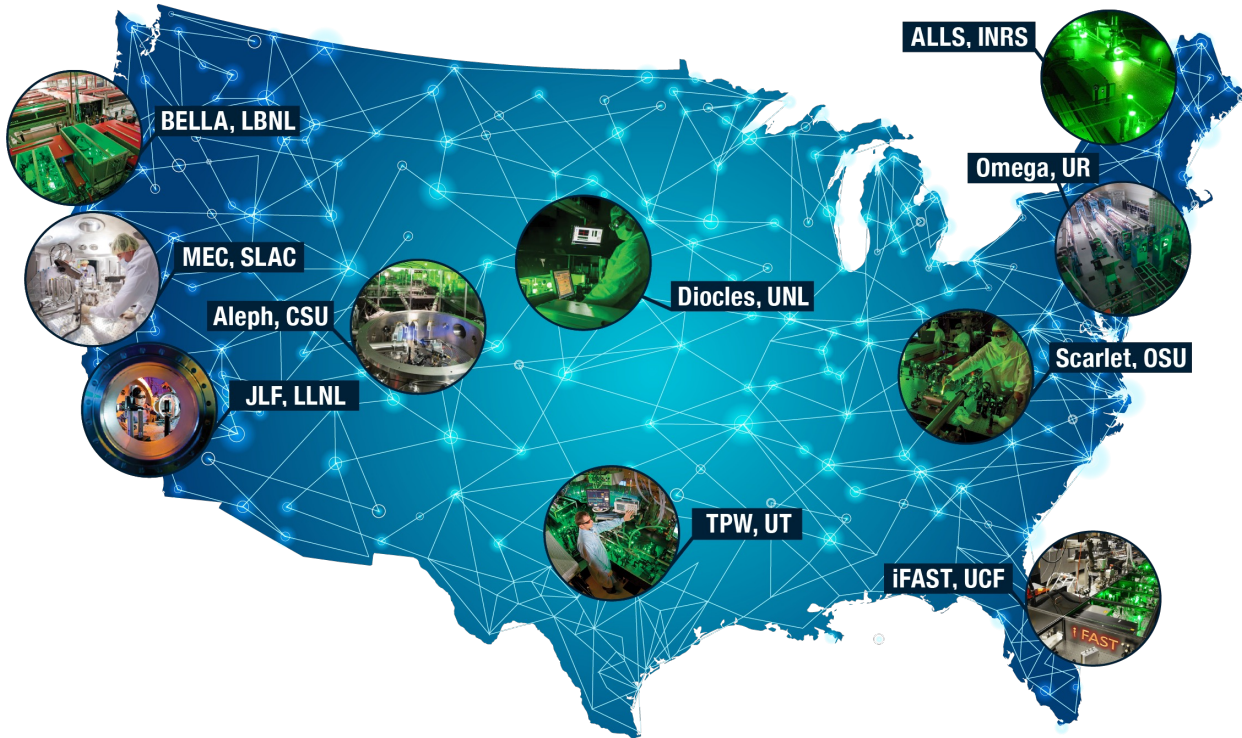
LaserNetUS

Then, Now, and in the Future.

C. B. Curry
LaserNetUS Coordinator
SLAC National Accelerator Laboratory
Town Hall for Cycle 6
November 13, 2023



THE LASERNETUS NETWORK



Our mission is to advance the frontiers of high-power laser science and applications by:

- Supporting cutting edge research
- Providing students and scientists with broad access to unique facilities and enabling technologies
- Fostering collaboration among researchers around the world



FACILITIES PARTICIPATING IN CYCLE 6 CALL FOR PROPOSALS



Advanced Beam Laboratory (ABL)



Berkeley Lab Laser Accelerator (BELLA) Center



Jupiter Laser Facility



Advanced Laser Light Source (ALLS)



Laboratory for Laser Energetics: OMEGA EP

Find information about the five (5) laser laboratories available for user experiments in Cycle 6: <https://lasernetus.org/facilities>

Designating Primary and Secondary Facility

A proposal is ranked for primary facility that was requested and will only be considered at the secondary facility if it was not competitive at the primary facility.




FACILITIES SHOULD BE CONTACTED FOR TECHNICAL INPUT ON PROPOSALS


Advanced Beam Laboratory (ABL)
JORGE ROCCA



Berkeley Lab Laser Accelerator (BELLA) Center
CAMERON GEDDES




Jupiter Laser Facility
BOB CAUBLE



Advanced Laser Light Source (ALLS)
FRANCOIS LEGARE



Laboratory for Laser Energetics: OMEGA EP
MINGSHENG WEI



During proposal submission the spokesperson is asked to confirm that the facility has been contacted to discuss the experimental feasibility.

Center for High Energy Density Science: Texas Petawatt Laser

I have contacted the primary-choice facility about this proposal

Texas Petawatt short (f/3) focal length target area

Primary Secondary

Texas Petawatt long (f/40) focal length target area

Primary Secondary



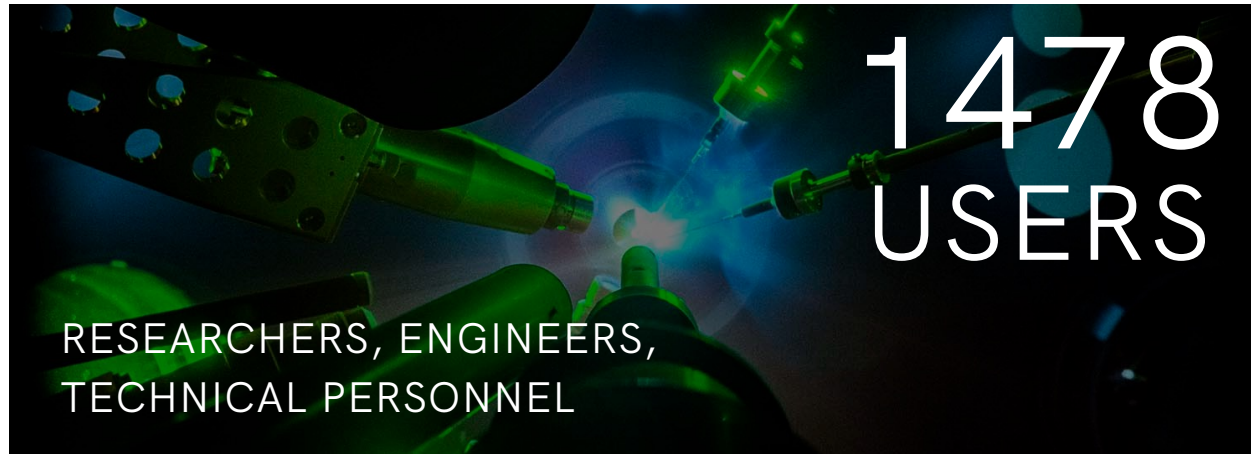
There are no facility personnel on the Proposal Review Panel – they can help with preparing your proposal

12
HIGH-POWER
LASER FACILITIES

ACROSS NORTH AMERICA

75+
EXPERIMENTS

SINCE THE PROGRAM WAS ESTABLISHED IN 2018



1478
USERS

RESEARCHERS, ENGINEERS,
TECHNICAL PERSONNEL

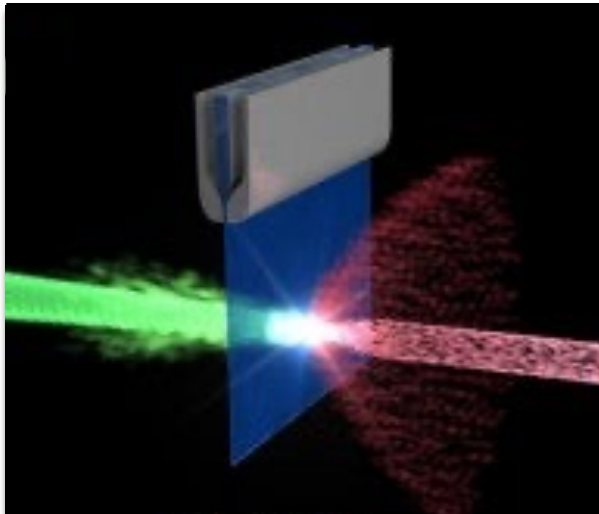
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PUBLICATIONS

IN PEER REVIEWED JOURNALS



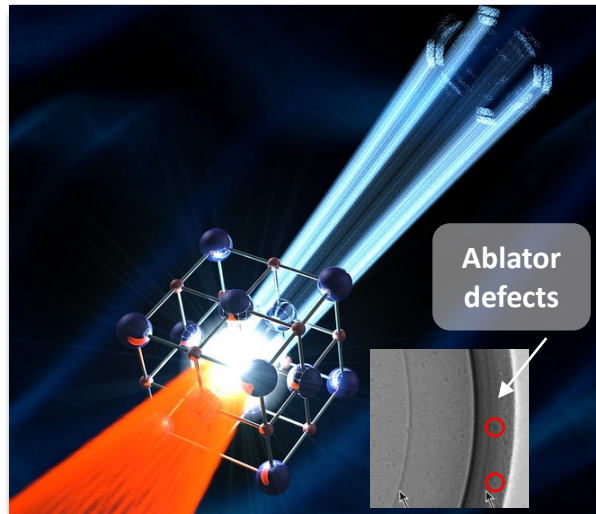
NETWORK CAPABILITIES ENABLE A BROAD RANGE OF SCIENCE & APPLICATIONS

Laser-Plasma Experiments



Experiments on laboratory astrophysics, particle acceleration, plasma photonics, magnetized plasmas, and hydrodynamics

Materials Science & Radiation Damage



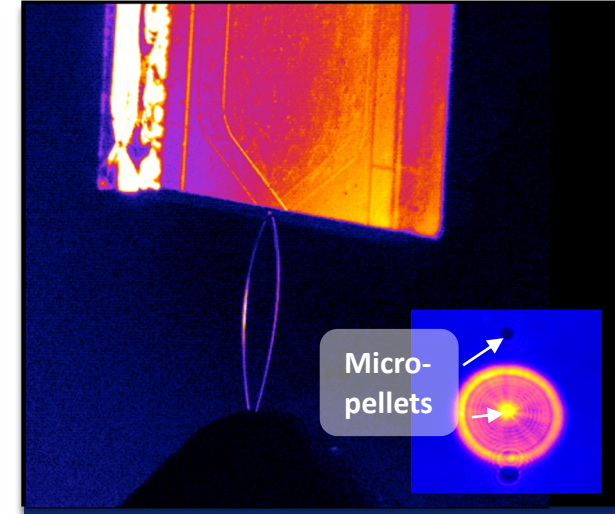
Validation of radiation damage simulations, investigating materials in extreme conditions, studying the microphysics of fusion materials

High Power Laser Technology



Development of high average power and high peak power laser systems, e.g., 10 Hz, multi-ns, multi-kW beamlines

Advanced Technologies



Laser plasma diagnostics, high rep-rate targets and alignment systems, AI/ML to connect experiments and theory



PRIORITIZATION OF BROADER IMPACTS IN ADDITION TO INTELLECTUAL MERIT

**Creating
a Brighter
World
Together**

Become part of our mission >

Impact on the Scientific Ecosystem & Society

How broadly will the project impact the scientific and technical HED and high-intensity laser community in the US, and translate to a broad impact on society?

- Who benefits? What is the benefit?
- Are you a new user to laser platforms/experiments?

Impact on Workforce

To what extent will the project attract new talent, develop existing staff, provide mentorship?

- Growth of the community and field
- Cross-collaboration with new fields?
- Strong emphasis on student/early career engagement



LaserNetUS

Facility Overview (partial – just for this call)

- Jupiter Laser Facility (JLF)
- OMEGA EP
- Berkeley Lab Laser Accelerator Center (BELLA)
- Advanced Beam Laboratory
- Advanced Laser Light Source (ALLS)
- University of Michigan Target Research and Fabrication (MiTRF)



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LaserNetUS

The Jupiter Laser Facility

LLNL

Félicie Albert, Director, Jupiter Laser Facility

albert6@llnl.gov

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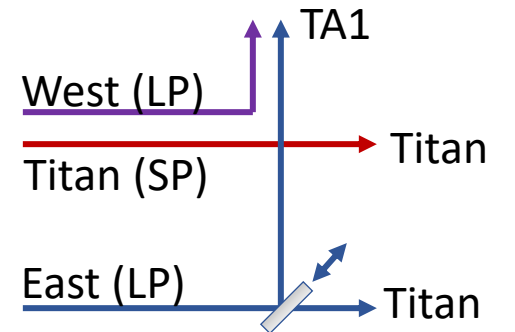
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FACILITY OVERVIEW – LASERS

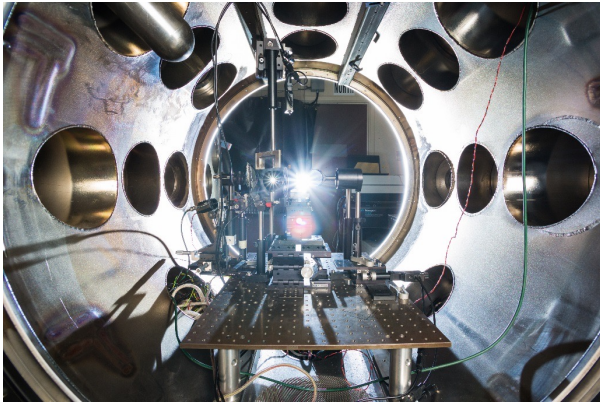
JLF Laser Parameters as of 11/13/2023

	Long-pulse (TA1 and Titan)	Short-pulse (Titan)	COMET
Performance			
Energy on target*	800 J (1 ω max), 500 J (2 ω max)	130 J (1 ω , 0.7 ps), 50 J (2 ω max)**	10 J (1 ω), 5 J (2 ω)
Pulse duration on target	0.5 to 18 ns	0.7 to 200 ps (1 ω)	0.5 ps – 50 ps (compressed) 0.75ns (uncompressed)
Pulse shape	user-defined within Highland capabilities	none	
Focal spot diameter	20 μ m, strehl>0.6	<10 μ m (F/3) or <30 μ m (F/10), strehl>0.6	F/3.8
Phase plates	200 – 2000 μ m		
Reliability			
Timing accuracy	<100 ps (beam/beam and beam/trigger) – Greenfield timing system		



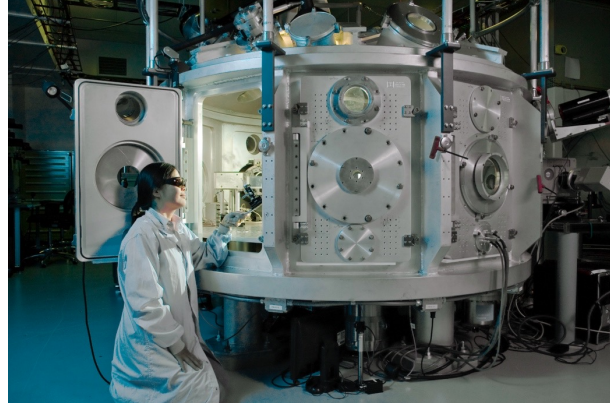


FACILITY OVERVIEW – TARGET AREA



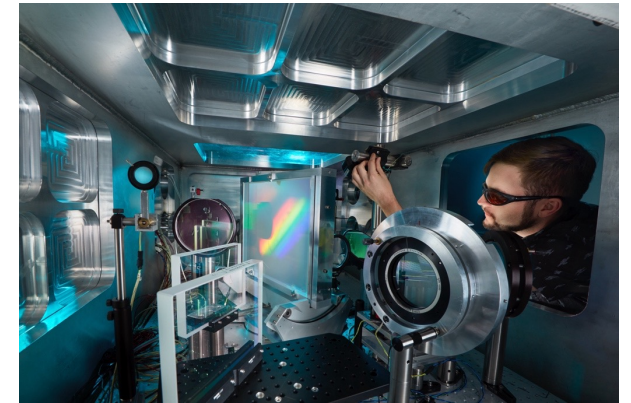
Janus

- Two ns beams each with 1kJ at 1ω (current max 800 J)*
- Flexible pulse shaping 0.5 - 18 ns
- Phase plates 200 – 2000 μm
- One beam fixed; other moveable
- 2ω conversion
- 1D and 2D VISAR (532 nm, $\frac{1}{4}$ mJ, 60 ns)
- Wavelength tuning
- Hydra laser system (800 nm, 15 mJ, 100 fs)



Titan

- One ps beam and one ns beam at 1ω
- Short Pulse: 700 fs – 200 ps, 130 J (700 fs)*
- $< 10 \mu\text{m}$ (F/3) or $< 30 \mu\text{m}$ (F/10) spot
- Short pulse 2ω possible – contact us
- Long Pulse: 0.5-18 ns, multiple positions, 1 and 2ω
- Probe: mJ probe beam (compressed)



COMET

- Up to two ns beams
- 0.5 ps – 50 ps (compressed)
- 0.75 ns (uncompressed)
- Up to 10 J (1ω) or 5 J (2ω)
- 5-minute shot cycle



FACILITY STATUS

- COMET, Janus and Titan will be available for the full duration of cycle 6.
- Experiments are typically 4 weeks
- Experimenters receive facility support from the technical staff, but build, execution, and tear-down are the responsibilities of the experimental team. JLF cannot support remote operations.
- Collaborations with LLNL research staff is encouraged (but not mandatory); many diagnostics may be available that are not the property of JLF.
- JLF partners with NIF in an annual joint user meeting.
- **In FY25, All JLF allocations will be through LaserNetUS – There will be no separate call for JLF beamtime.**



JLF Director
Félicie Albert
albert6@llnl.gov



JLF Operations Manager
Brent Stuart
stuart3@llnl.gov



JLF Administrator
Elaine Johnson
johnson330@llnl.gov





LaserNetUS

OMEGA EP Laser Facility

Laboratory for Laser Energetics, University
of Rochester



Mingsheng Wei
mingsheng@lle.rochester.edu

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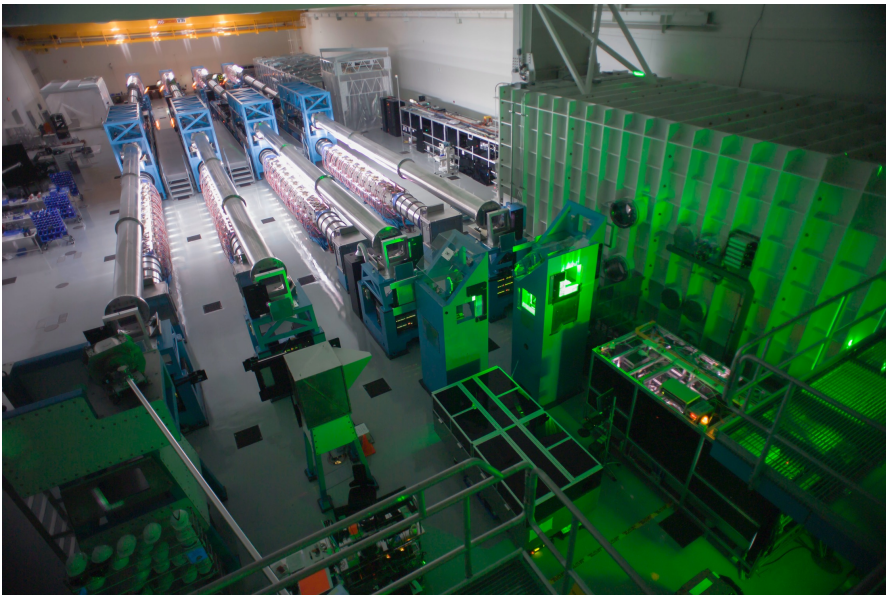
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FACILITY OVERVIEW – LASERS

The OMEGA EP laser system, part of the Omega Laser Facility, provides four beams of high-energy long and short pulses and a suite of diagnostics enabling a wide range of HEDP and inertial fusion science experiments.



Up to 4 long pulse (LP) UV beams

- 0.1–10 ns pulse/beam with complex pulse shaping
 - longer pulse by stitching multiple beams
- Up to 5 kJ/beam (10-ns)
- f/6.5; distributed phase plates available (0.4 to 1.8 mm)
- Beam 1 wavelength tunable (350.2 to 353.4 nm)

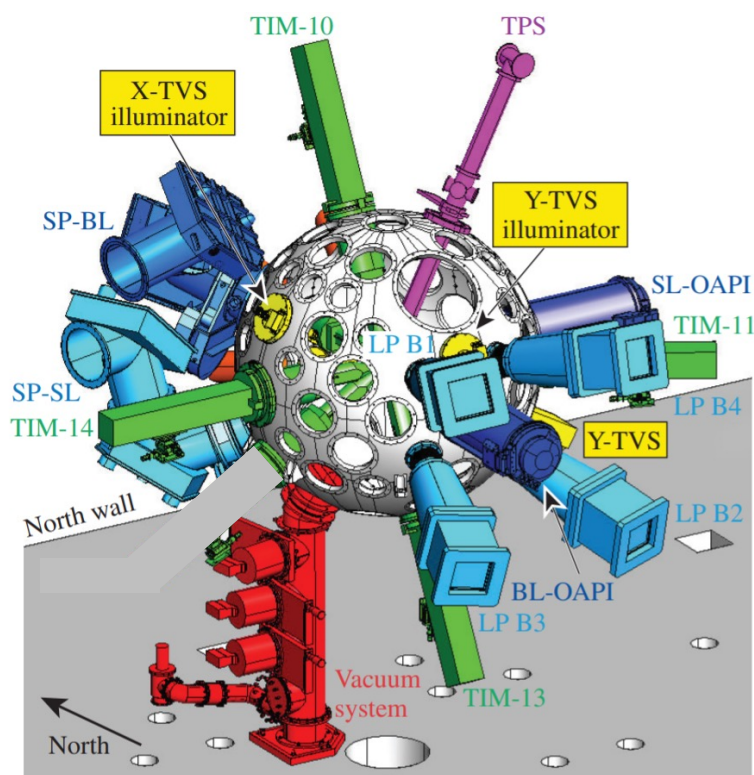
Up to 2 short pulse (SP) IR beams

- Pulse length: 0.7–100 ps per beam
- Maximum energy: 0.5kJ@0.7ps, 1.25kJ@10ps and 2kJ@100ps
- f/2 OAP: ~30- μ m spot with 80% encircled energy
- Peak intensity: 10^{20} W/cm²
- f/3 to f/50 with sub-aperture apodizers (reduced energy)



FACILITY OVERVIEW – TARGET AREA

Spherical Target chamber (3.3-meter diameter)



G5929aJ2

Mingsheng Wei | mingsheng@lle.rochester.edu
| 17

Beam configurations

- LP B1–B4 each has its fixed beam path (23 degree to the common axis)
- Two orthogonal SP beams (standard configuration) or SP 1 (Sidelighter, SL) combined with SP 2 (Backlighter, BL) for co-propagation along the BL axis

Experimental diagnostics

- > 80 qualified TIM-based instruments and diagnostics, including
 - MIFEDS for magnetized experiments, gas jet, TIM-based target positioners
 - Active Shock Break Out (ASBO) diagnostic (VISAR and SOP); **SOP-Spec**
 - X-ray spectrometers (many types)
 - X-ray framing cameras; x-ray streak cameras
 - Spherical crystal x-ray imager; high-energy x-ray radiography; **Fresnel Zone Plate imager**
 - Electron/positron/proton spectrometer; electron spectrometers (single- or multi-channel)
 - Thomson parabola ion-energy analyzer
 - Near Target Arm (NTA) for proton imaging (RCF stack)
 - X-ray diffraction diagnostics (including **time-resolved with XRFC**)
 - Scattered Light Uniformity Imager
 - **THz Background/Energy Meter**
- >20 fixed-port instrument and diagnostics, including
 - 10-ps 4ω (263-nm) probe
 - High-resolution x-ray spectrometer
 - Neutron time-of-flight detectors (several)



FACILITY STATUS

- Users are encouraged to come onsite, particularly new or less experienced users
 - fully “RemotePI” operation also in place enabling users to execute and participate in experiments remotely
- Typical experimental duration (award): 1–2 days (a full 12-hour day typically yielding 6 to 14 shots depending on configurations)
- PI or a designated lead of any awarded experiment must complete Omega PI training, and follow LLE’s established process for the experimental planning and execution, including
 - submission of the web-based Omega experiment template with sample shot request form (SRF) and VISRAD configuration file 12 weeks before the scheduled shot day and the template must be approved 8 weeks before the shot day
- **LLE new office and lab expansion** –construction (adjacent to the OMEGA EP) underway and to be completed in Spring 2024
- **Completed all 17 LaserNetUS user experiments from Cycle 1-4 – 2 Cycle-5 projects are scheduled for shots in FY2024**
 - covering a broad range of HED science topics including pair production, ion acceleration, magnetic reconnection and particle energization, collisionless shocks, ultrahigh pressure material properties, laser ablation and shock generation, advanced diagnostics and inertial fusion energy (IFE)
- **LaserNetUS Cycle 6 at OMEGA EP – only accepting proposals related to IFE research**
 - eligible users who are interested in conducting basic HEDP experiments at the Omega Laser Facility are encouraged to submit proposals to the NNSA-supported National Laser Users’ Facility (NLUF) and the Laboratory Basic Science (LBS) user programs administered by LLE



LaserNetUS

BELLA

Lawrence Berkeley National Laboratory

Lieselotte Obst-Huebl

lobsthuebl@lbl.gov

Cameron Geddes

cgrgeddes@lbl.gov

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BELLA FACILITY OVERVIEW – LASERS

PW system:

1) Short focal length chamber (iP2) with f/2.5 OAP and optional double plasma mirror for 10^{-13} pulse contrast

2) Long focal length chamber (iP1) with f/65 OAP and extensive high power laser pulse diagnostic

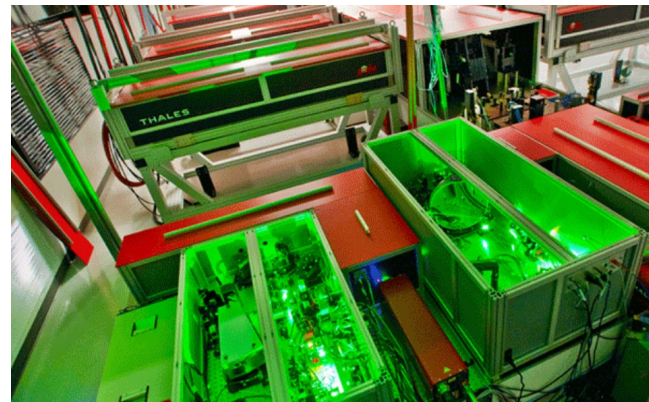
HTW system: dual amplifiers, 50 TW class and 10 TW class pulses respectively with a large open target chamber allowing configurable focusing and interaction

Particle/radiation diagnostics: energy, charge & beam profile,...

Laser diagnostics: energy, pulse duration, near and far field spatial profile, wave front, contrast...

Lasers and operating modes / parameters

Laser	Wavelength	Energy	Duration	Rep rate	F/number(s)
PW	815 nm	40 J	40 fs	1 Hz	65, 2.5
HTW primary	800 nm	2 J	40 fs	5 Hz	20
HTW second	800 nm	0.5 J	40 fs or 300 ps	5 Hz	20

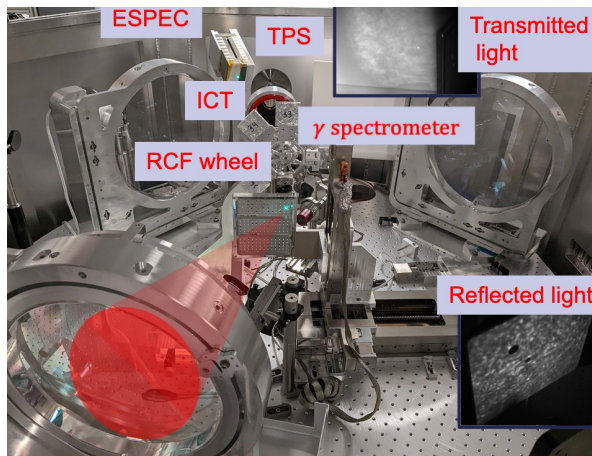


BELLA PW laser: short & long focal length chambers, plasma ion and electron acceleration



BELLA hundred-TW lasers: open chamber, flexible multi-beam work & photon sources

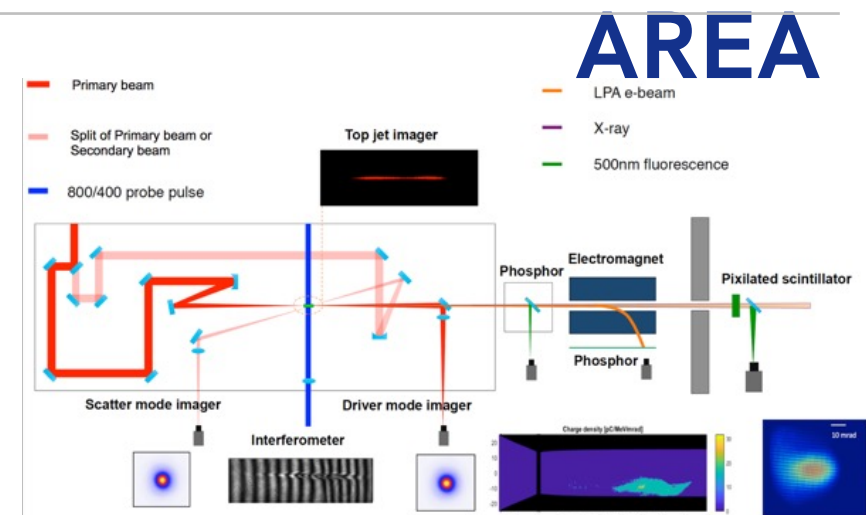
BELLA FACILITY OVERVIEW – TARGET AREA



BELLA PW iP2: short focal length target chamber



BELLA PW iP1: long focal length target chamber (right), laser diag. & e- spec. (left)



BELLA hundred-TW target chamber (configurable optics)

- Standard diagnostics: (BELLA iP1 and HTW) Magnetic electron spectrometer using phosphor screens and multiple CCD cameras allows high repetition rate analysis. Backed up by on-line neutron and gamma ray monitoring. Optical diagnostics monitor the energy, spectrum, and other parameters of the transmitted laser and optional probe beams. (BELLA iP2) Thomson parabola spectrometer coupled to a microchannel plate and CCD for online readout, motorized RCF stack wheel for rapid stack insertion between shots.



FACILITY STATUS

LaserNetUS Experiments/Topics in Cycles 1-5

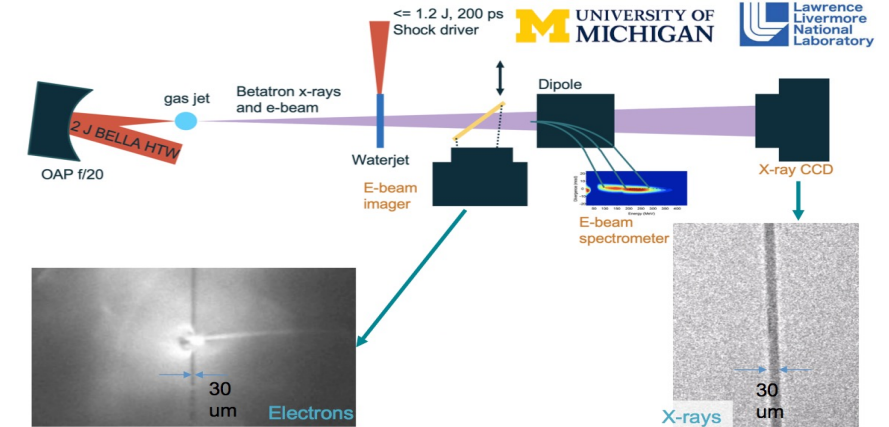
- Typical runs approx. 4 weeks
- Multiple PW focusing geometries, open HTW chamber
- Lasers from 40 fs to 300 ps
- High resolution HED shock imaging - x-rays and electrons (UM)
- High rate plasma mirrors at PW power (OSU) and radiobiology experiments (LBNL BSE)
- MeV high resolution industrial imaging & tomography data (UCL)

Experimental capabilities beyond laser access are available in collaboration with expert BELLA staff:

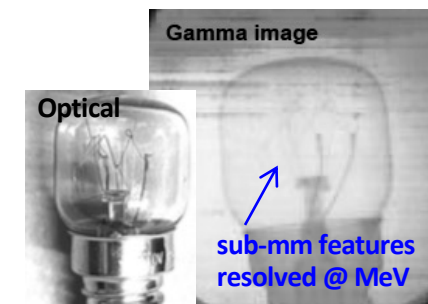
- Laser plasma acceleration of electrons, ions
- keV betatron, MeV mono-E Compton probes
- Industrial, security, medical applications
- Plasma mirrors and guiding structures
- Opportunities in active pointing control, laser shaping and new probe beamlines to enable precision science

Contact facility for operational requirements of your experimental concept and user/facility skill discussion

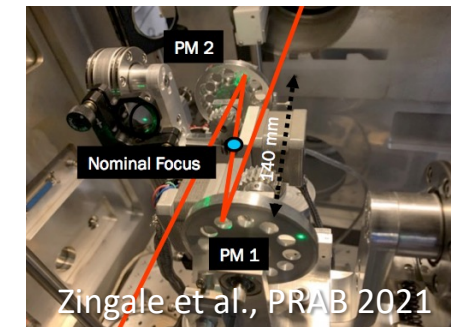
Lieselotte Obst-Huebl | lobsthuebl@lbl.gov |



Shock imaging at micron scale and high rate informs fundamental hydrodynamics in an experiment by University of Michigan, with LLNL collaboration and a SLAC loaned X-ray camera, used the BELLA HTW betatron keV Xray source with shocks driven in a liquid target by the secondary arm



High resolution MeV tomography by University College London and Lawrence Livermore on the mono-energetic BELLA Compton source



Zingale et al., PRAB 2021
Double plasma mirrors by The Ohio State University using the BELLA PW



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LaserNetUS

Advanced Beam Laboratory: ALEPH Laser Colorado State University

Jorge. J. Rocca
Jorge.Rocca@colostate.edu
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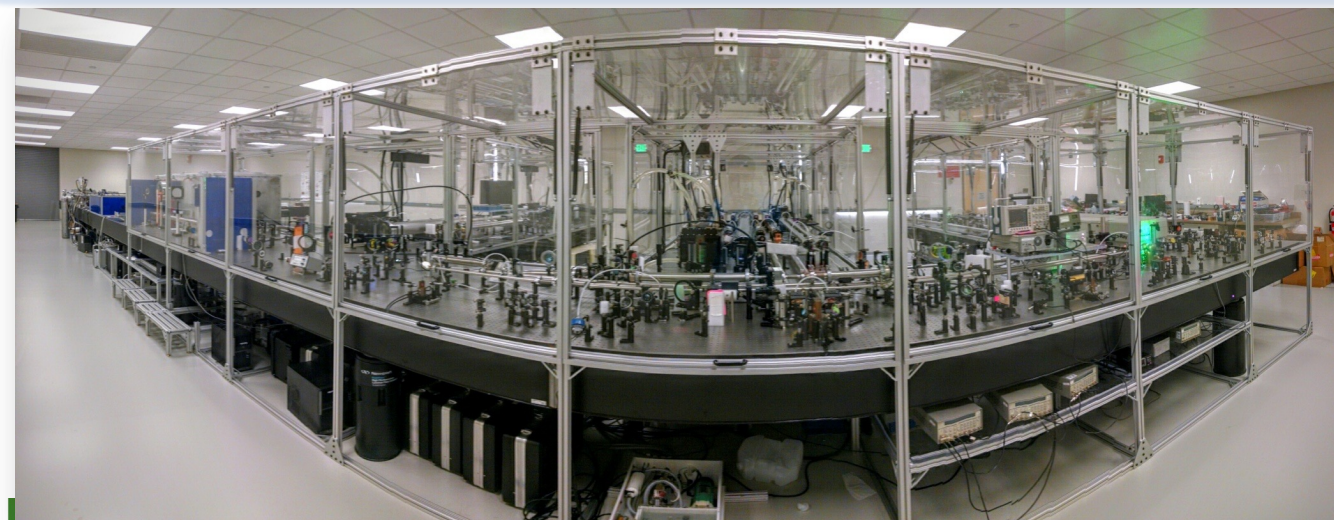


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FACILITY OVERVIEW - LASER



ALEPH Laser

0.85 PW , High Repetition Rate Laser

- $\lambda = 800$ nm beamlines

Short focal length: $f/2$

Medium focal length: $f/6$

Long focal length: $f/25$



- $\lambda = 400$ nm high contrast beamlines

Short focal length: $f/2$

Medium focal length: $f/6$

Long focal length: $f/25$

Ultrahigh contrast $> 1 \times 10^{12}$

Single shot to 3.3 Hz (burst mode)

Jorge J. Rocca
Jorge.Rocca@colostate.edu

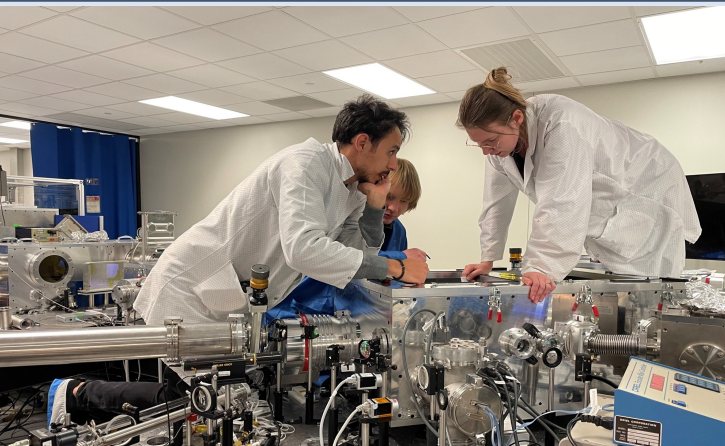


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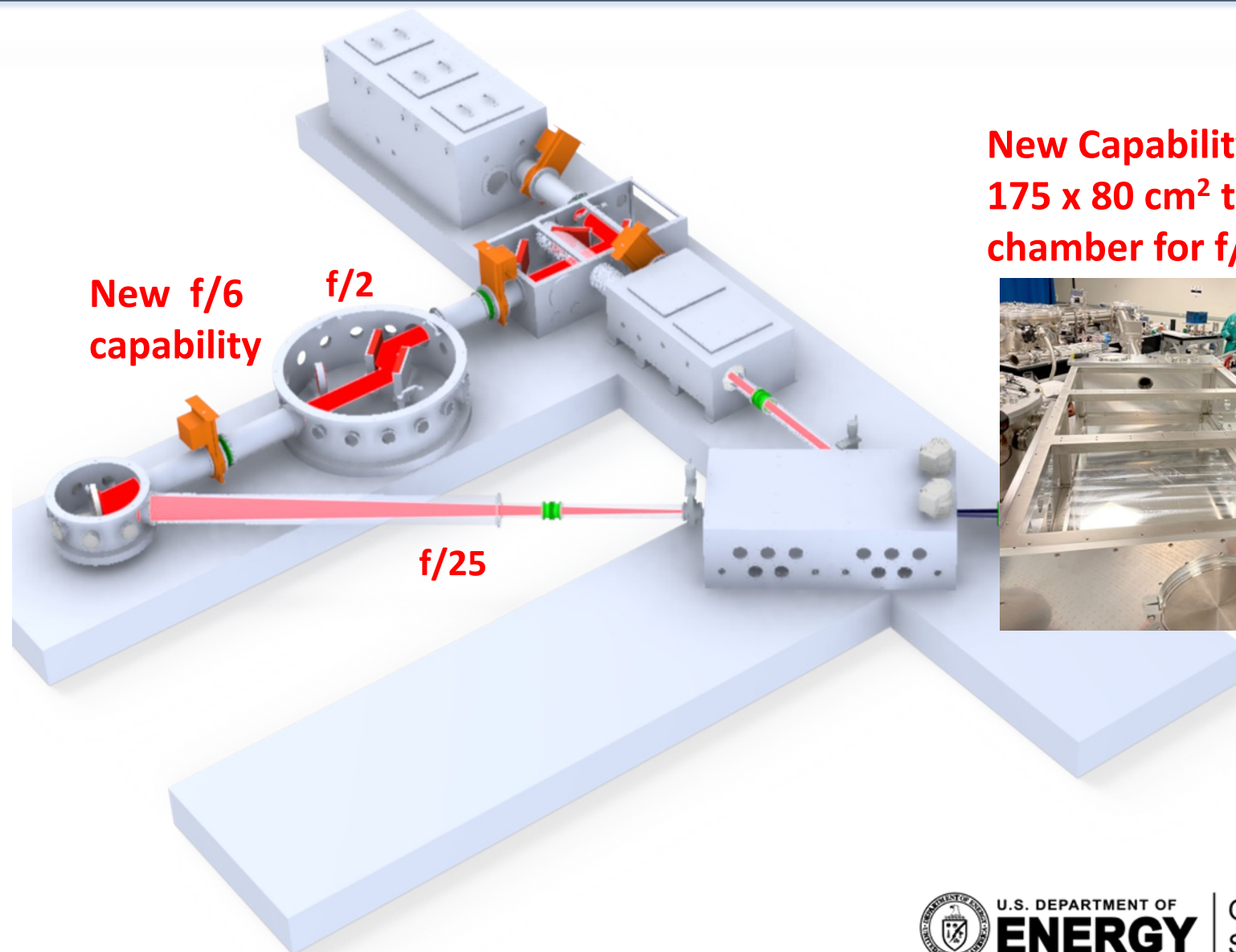


FACILITY OVERVIEW - TARGET AREA

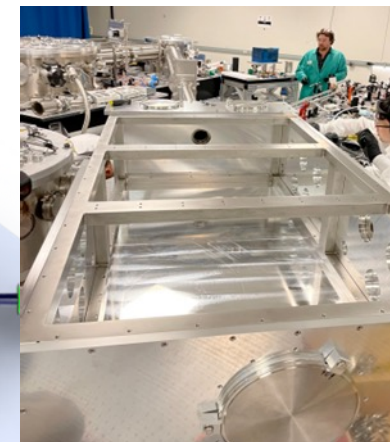


Diagnostics:

- High Resolution x-ray spectrometers
- Filtered X-ray diode array
- X-ray streak camera (LLNL)
- Thomson parabolas (2)
- Electron spectrometer
- Neutron time of flight (8)



New Capability:
175 x 80 cm² target
chamber for f/25



Jorge. J. Rocca
Jorge.Rocca@colostate.edu

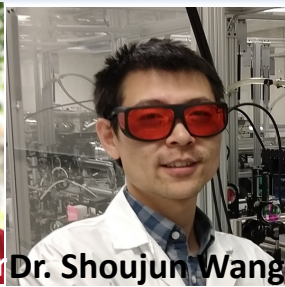


FACILITY STATUS

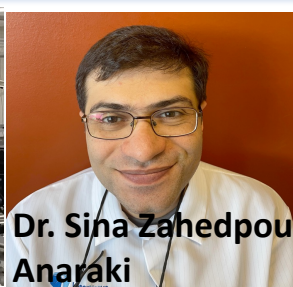
Staff:



Dr. Reed Hollinger



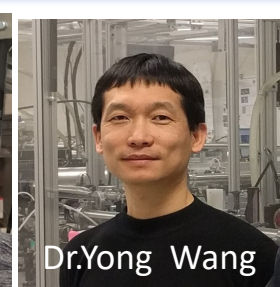
Dr. Shoujun Wang



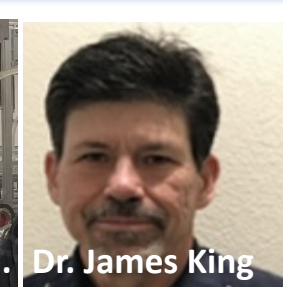
Dr. Sina Zahedpour Anaraki



Bryan Sullivan



Dr. Yong Wang



Dr. James King



Prof. Jorge Rocca

30 LaserNet US experiments completed

Topical area of previous experiments (examples):

- Multi-GeV laser wakefield electron acceleration.
- Streaked x-ray Doppler shift spectroscopy
- High repetition rate bright neutron generation
- Enhanced betatron x-ray generation
- High resolution atomic x-ray spectroscopy
- Direct electron accel. in laser plasma transparency
- Gamma ray tomography
- Precision shaped pulses for particle acceleration
- Enhanced proton acceleration
- Proton beam stopping power
- Mapping of the Weibel/current filament instability in LWA



Dr. Ping Zhang



Dr. Ghassan Zeraouli

Jorge. J. Rocca
Jorge.Rocca@colostate.edu

B.F. Krause et al; PRL (2021); N. Baier et al PRL (2022); B. Miao PRX (2022), P. Singh et al. Nature Comm. (2022); F. Treffert et al. APL (2022); D. Mariscal et al. Plasma Phys and Cont. Fusion (2021), B.F. Krause et al. RSI (2021), K. Swanson et al. RSI (2022), G. Zeraouli et al. RSI (2022,)



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LaserNetUS

Town Hall
Cycle 6

Advanced Laser Light Source (ALLS)

Institut National de la Recherche Scientifique (INRS)

François Légaré
francois.legare@inrs.ca
November 13, 2023



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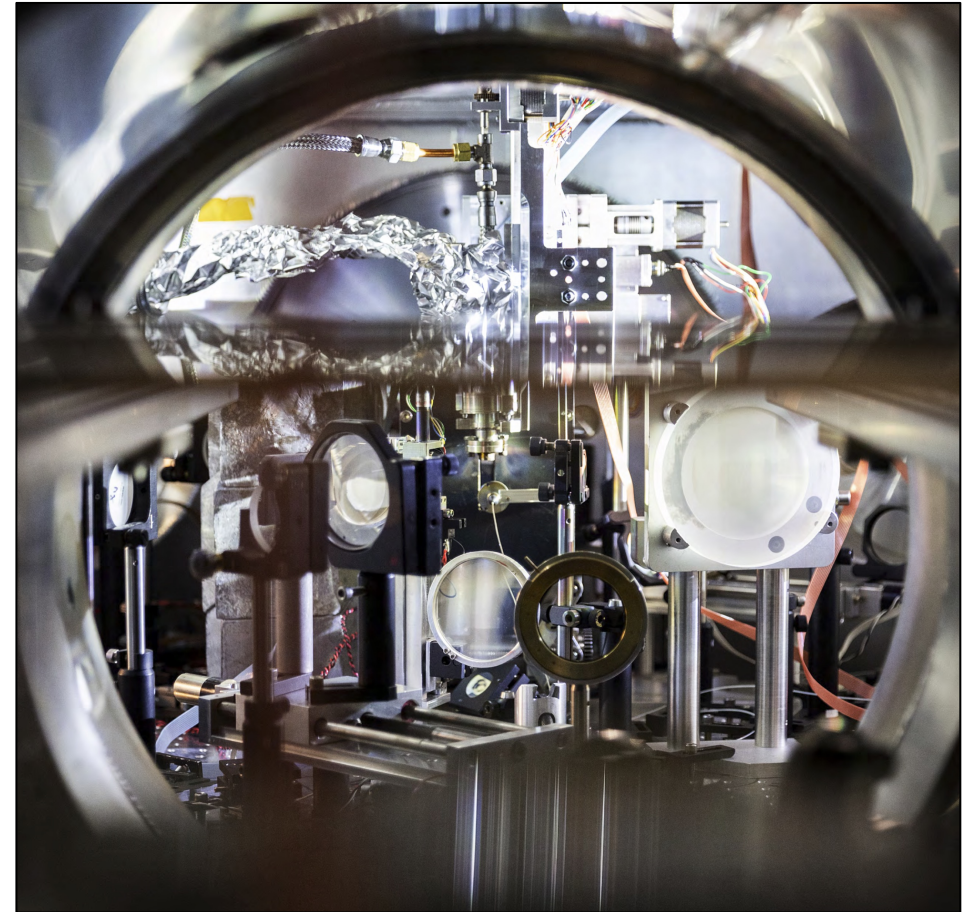
FACILITY OVERVIEW – LASERS

High peak power laser (150 TW)

- 800 nm, 3.2 J, 22 fs, 2.5 Hz
- This is a high energy, high repetition rate system. The short pulse duration facilitates ultrahigh intensities.
- 800 nm is just beyond the visible range.

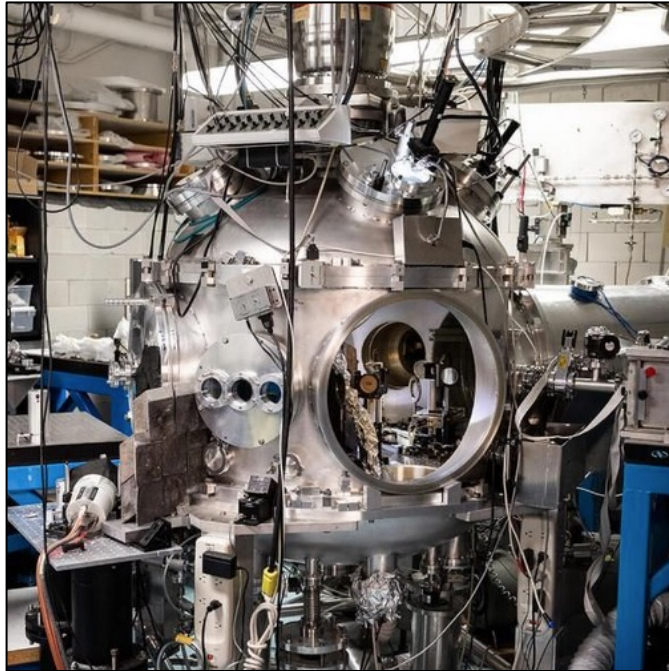
Infrared beamline

- 1200-2100 nm, (up to 12000 nm), 100 Hz
- Few-cycle pulse duration, up to 5 mJ
- This is a very high repetition rate system, appearing continuous to the eye but comparatively low pulse energies. These wavelengths are well in the infrared.



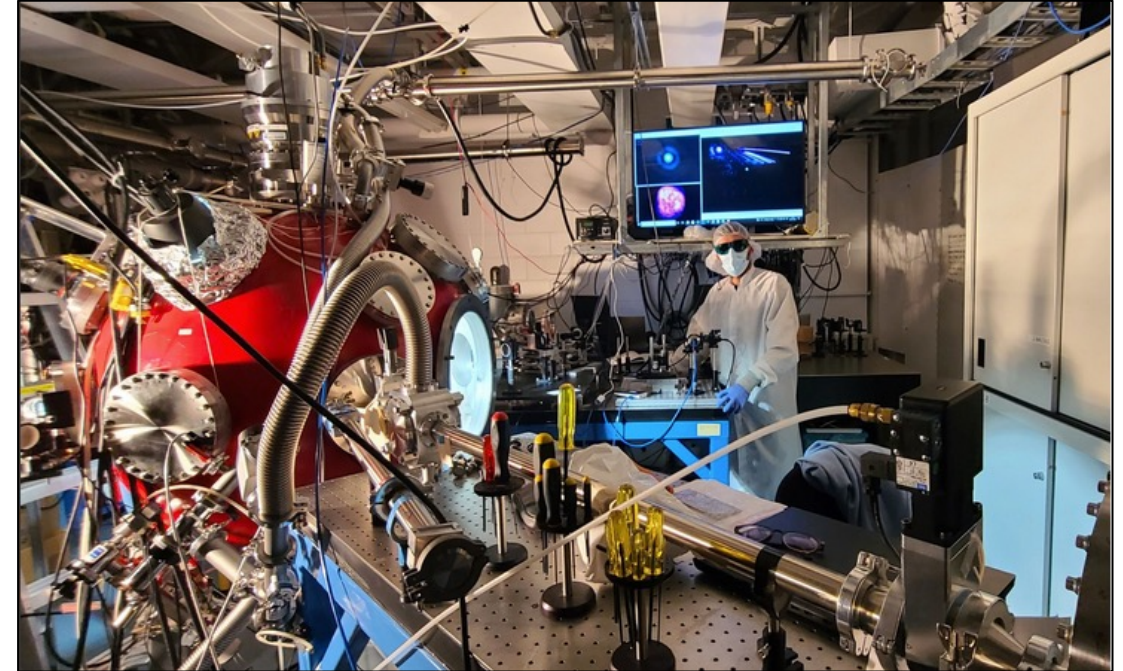


FACILITY OVERVIEW – TARGET AREA



Laser based synchrotron X-ray source

- X-ray imaging with a micrometer size X-ray source in the 10 keV range at 2.5 Hz repetition rate.
- Femtosecond X-ray pulse duration for pump-probe experiments.

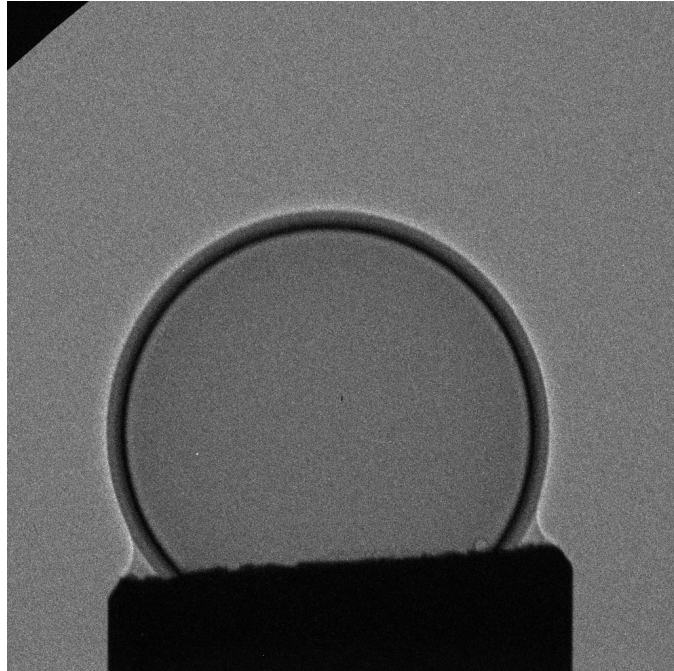


Laser based ions source

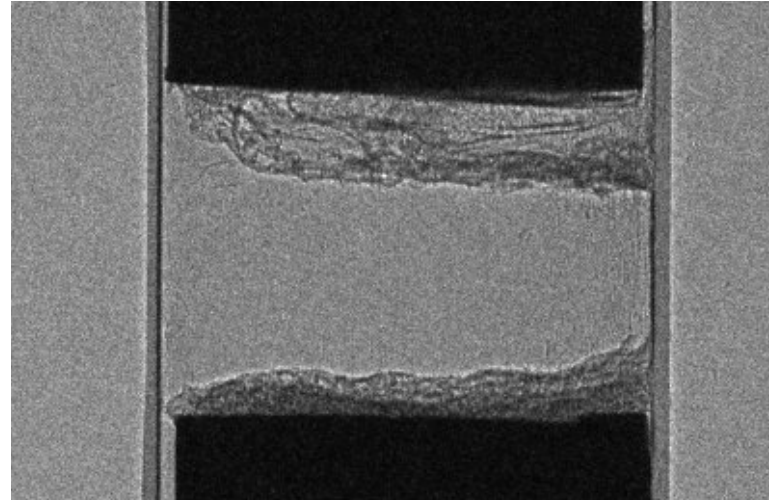
- Energetic proton production up to 6-8 MeV at 0.625 Hz repetition rate.
- Applications for material atomic characterization with X-ray fluorescence.



FACILITY OVERVIEW – SAMPLE EXPERIMENTS



Imaging of capsule for laser fusion
(Isabella Pagano, University of
Texas at Austin)



Imaging of lithium batteries
(Silvia Cipiccia, University College London)



Facility Experience

- **No dedicated accommodations for INRS but we are close to the city of Montréal, 20 min bus ride from Longueuil Metro station.**
- **Staff available to help on every beamline: one research associate, one laser technician and one laser engineer.**
- **Possible additional learning/training experiences, for example:**
 - Tour of other laser laboratories at ALLS.
 - Set up a presentation open to everyone in INRS conference room to discuss your on-going LaserNetUS experiment. You will benefit of the multidisciplinary research expertise from our center.



LaserNetUS

MiTRF

University of Michigan Target Research and Fabrication

Sallee Klein

MiTRF.Orders@umich.edu

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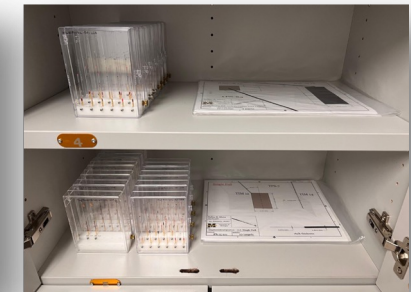
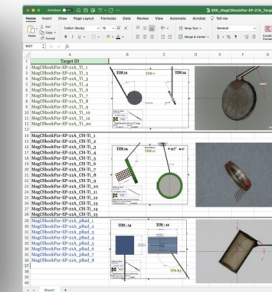
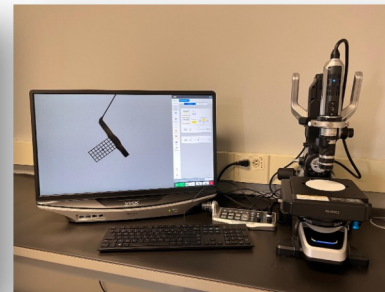
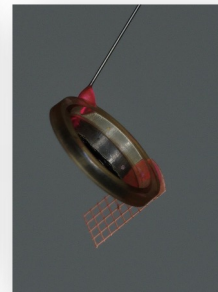
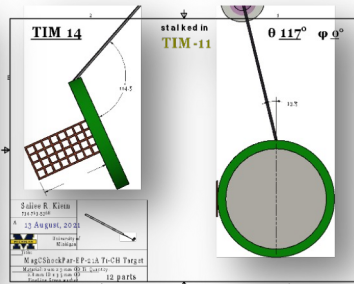
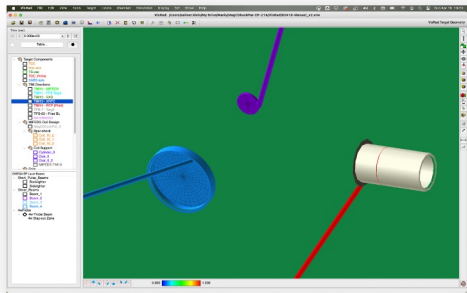


FACILITY OVERVIEW – Target Fabrication

Cradle to grave

- CAD models and drawings from Visrad, sketch, description
- component procurement/manufacture
- assembly
- characterization/metrology
- delivery with on-site support if required
- store leftovers for future use

Laser	Institution	Qty. of targets per campaign
Omega-EP	LLE	6 - 25
Jupiter Laser Facility	LLNL	30 - 125
Advanced Laser Light Source	INRS	betatron x-ray filter
MEC	SLAC	raster plates





FACILITY OVERVIEW – People & machines



Sallee Klein
13 years at UofM



Jill Schell
brand new!

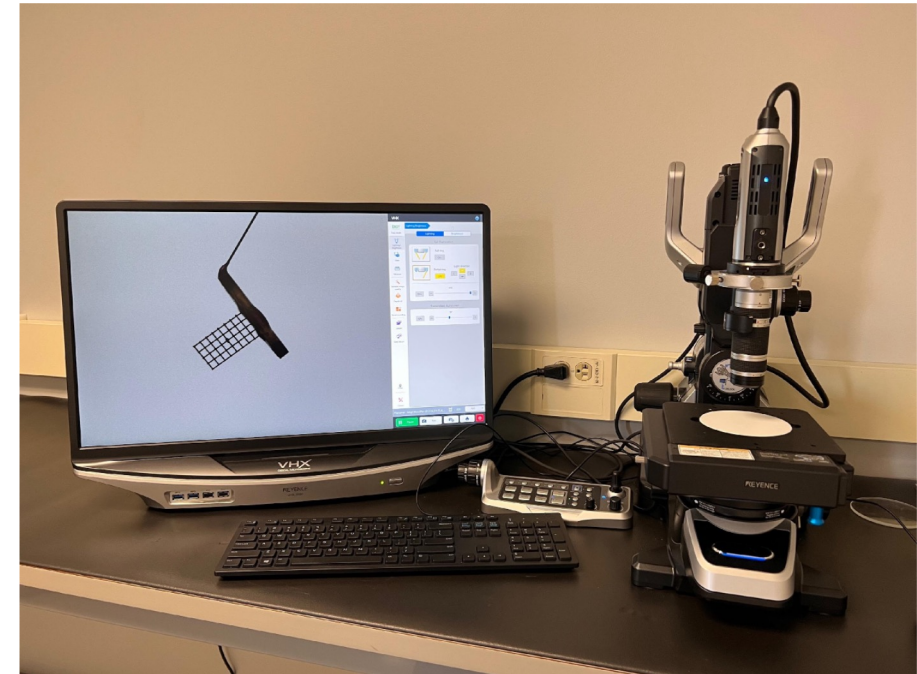
MiTRF.Orders@umich.edu

on-site laser-cutter



small features with intricate designs

digital measuring microscope



comprehensive, high-resolution measurements and pictures of components and/or targets



FACILITY OVERVIEW – Capabilities

in-house

- CAD models and drawings, designs
 - targets
 - experimental fixtures
 - transport cases
- laser-cutting of most thin metals and plastics
- assembly
- characterization/metrology
- delivery with on-site support if required
- target repository

partners/vendors

- thin films
- hohlraums
- micro-machining of target and experimental set-up components
- laser-cutting of materials we cannot do in-house
- 2PP/3D-printing
- coatings
- foams
- capsules



Facility Overview - Extreme Robotics Lab



Professor Y Z

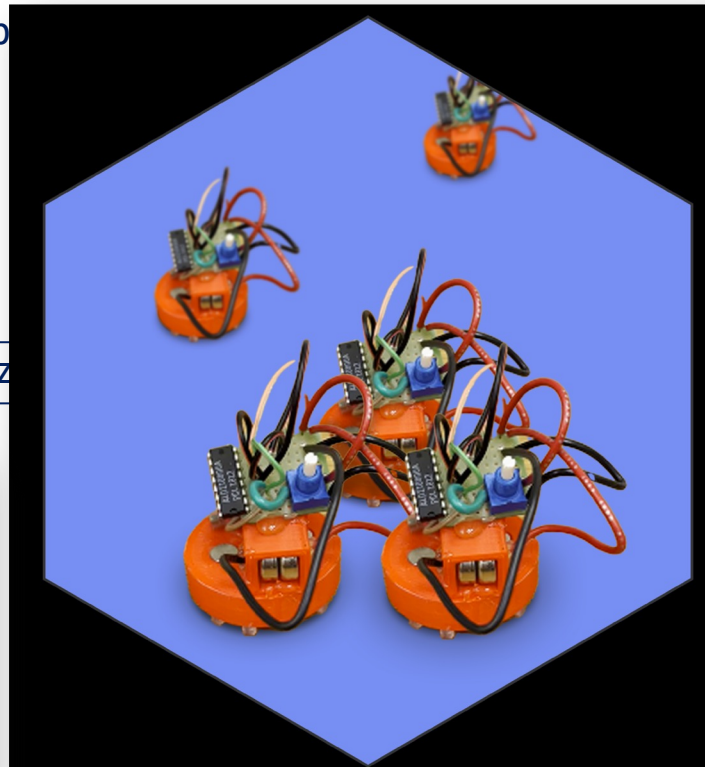
z.engin.umich.edu @notnotyz



Beck Krebs

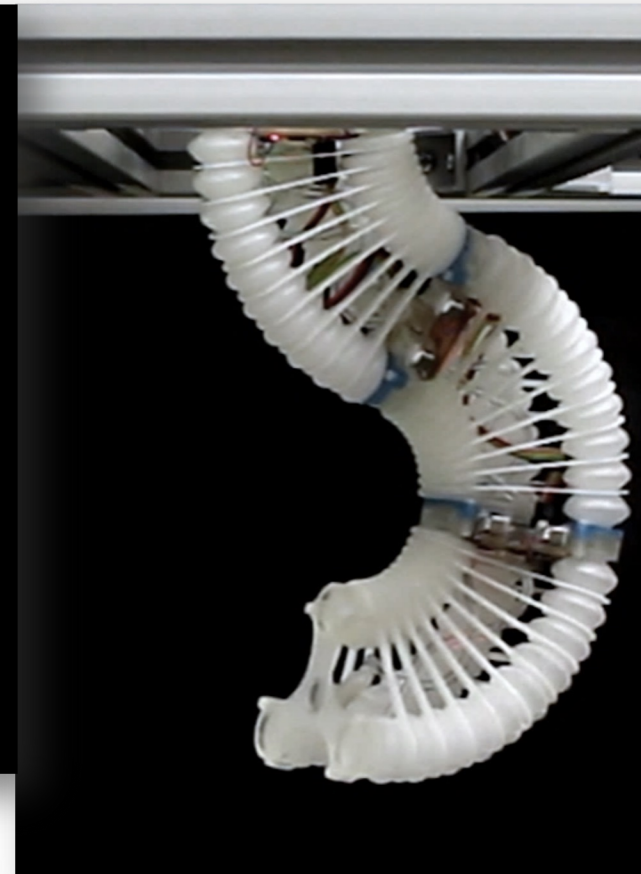


Neil Beri



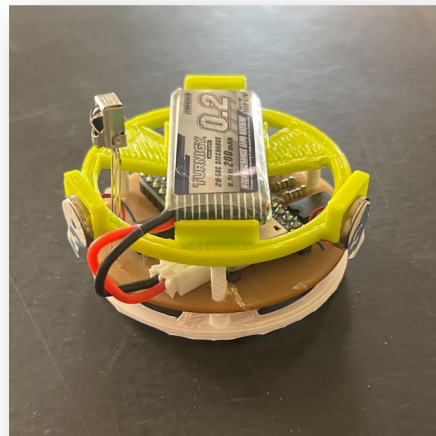
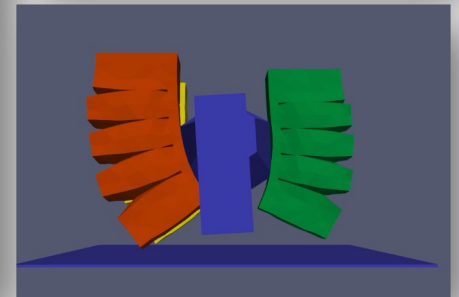
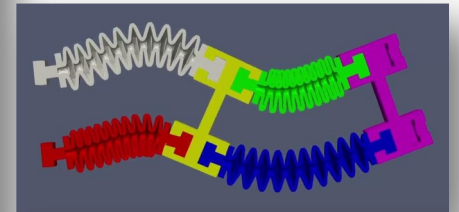
**Swarm Robots
and Collective Intelligence**

Soft Robots and Human-compatible Machines



Kraken

Kraken: MOOSE-based
Multiphysics Simulation and
Control Platform for Soft Robots

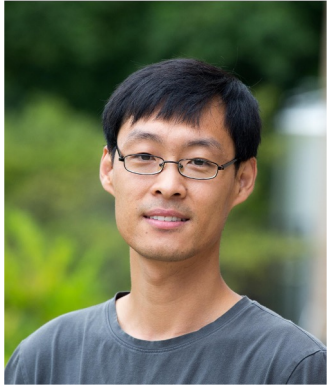


Atobot





FACILITY OVERVIEW – High Rep-rate targets



Yong Ma
yongm@umich.edu



Paul Campbell
campbpt@umich.edu

- 3D printed gas jets and gas cells for LWFA
 - Multi-stage with independent controlling valves
 - 1 Hz operation with fast valves
 - Variable length, 1 mm – 100 mm
 - CAD design and modeling
 - (Used on ALLS, CSU, Texas Petawatt)
- Potentially high rep-rate solid density targets
 - Water jet (On LBNL)
 - Tape drive



LaserNetUS



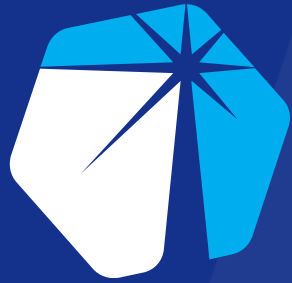
From all the LaserNetUS personnel at all the facilities:
THANK YOU FOR YOUR INTEREST

If you are writing a proposal, make sure to talk to the
facility POCs! We can help!



U.S. DEPARTMENT OF
ENERGY

Office of
Science



LaserNetUS

CLOSING REMARKS

THANKS FOR ATTENDING



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NEXT STEPS TO ACCESS
LASERNETUS



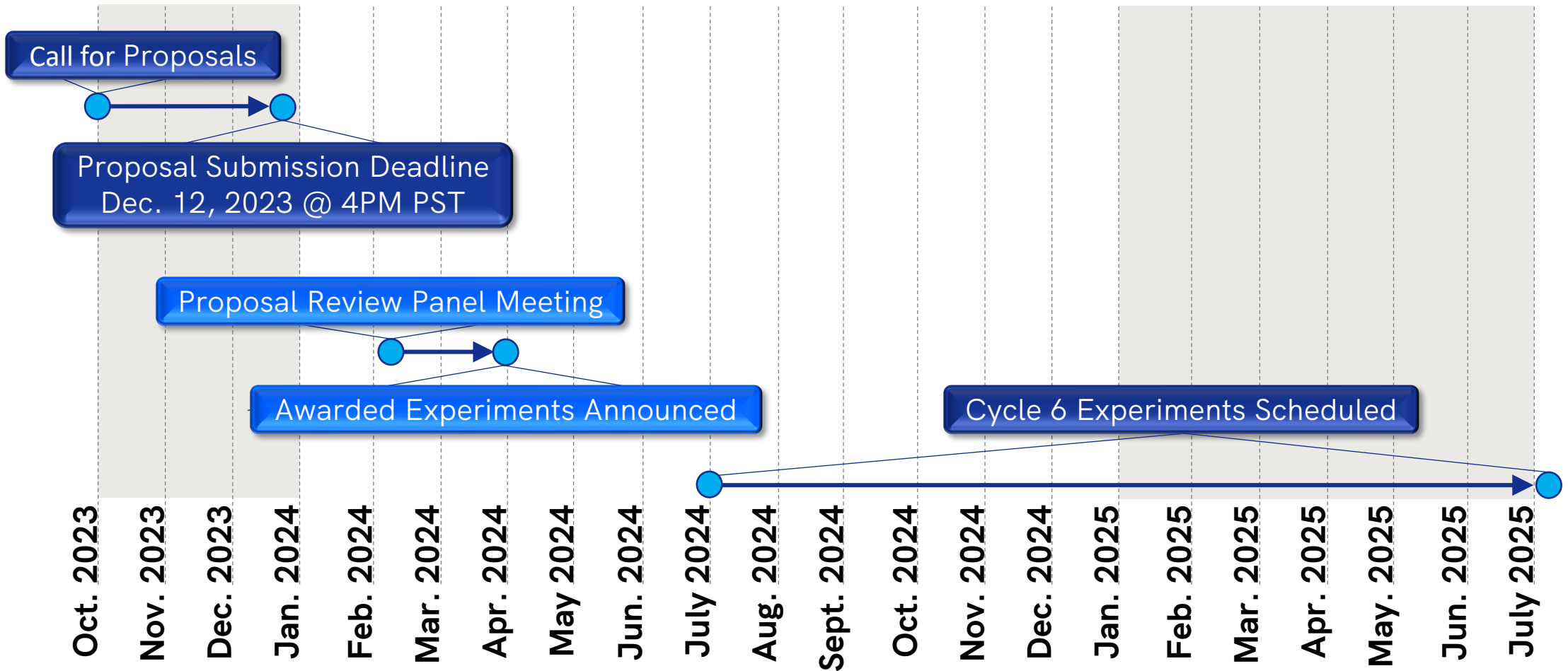


SIGNIFICANT CHANGES IN FACILITY AVAILABILITY SINCE CYCLE 5

- The [OMEGA EP Laser Facility](#) at the University of Rochester's Laboratory for Laser Energetics (LLE) will only be accepting proposals for experiments related to inertial fusion energy (IFE) during Cycle 6.
- The [Jupiter Laser Facility \(JLF\)](#) at Lawrence Livermore National Laboratory (LLNL) will provide access to Titan, Janus/TA1 and COMET Lasers during Cycle 6. JLF now provides all its external beamtime allocations through LaserNetUS. All users who have used the separate call from JLF to submit their proposals in the past should now submit through LaserNetUS.
- The [Advanced Beam Laboratory \(ABL\)](#) at Colorado State University now offers intermediate focusing (f/6) of the ALEPH PW at both the fundamental (800 nm) and second harmonic (400 nm) wavelengths.
- The [University of Michigan Target Research and Fabrication \(MiTRF\)](#) is now providing target support for LaserNetUS users through the Target Support Request Appendix.



IMPORTANT DATES FOR LASERNETUS CYCLE 6 CALL FOR PROPOSALS



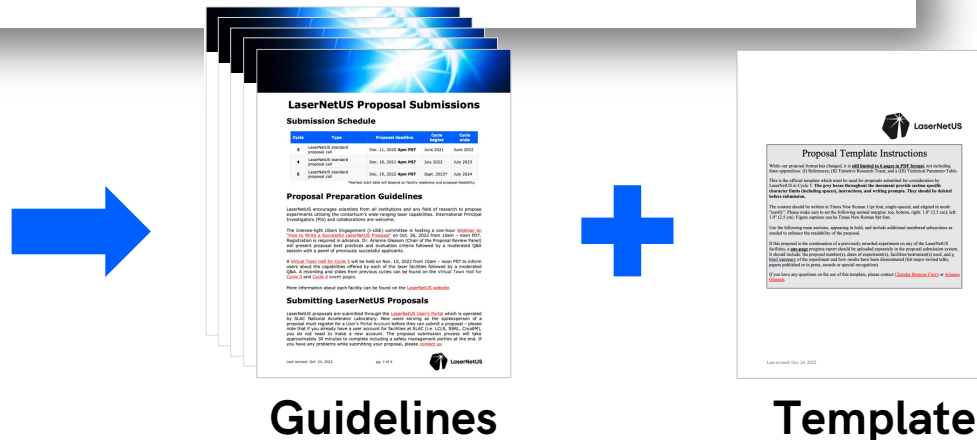


CALL FOR PROPOSALS: GUIDELINES, NOTES, IMPORTANT DATES

The screenshot shows the LaserNetUS website navigation bar with the logo, search icon, and 'Join Us' button. The main menu includes 'About Us', 'Our Facilities', and 'Publications & News'. The breadcrumb trail is 'Home > Proposal Review Process'. The page title is 'Proposal Review Process'. The main heading is 'Proposal Submissions'. The text below reads: 'LaserNetUS encourages scientists from diverse fields to propose experiments utilizing the consortium's wide-ranging capabilities. International Principal Investigators are welcome. We recommend that scientists describe well-posed experiments. Proposals must include brief discussions of the expected scientific or technological impact and anticipated feasibility and probability of success of experiments. Proposals that include a clear description of the expected schedule, indicating the scope, have a better chance of being selected.'

For full details of calls for proposals visit: <https://lasernetus.org/proposal>

The Cycle 6 proposal submission deadline is Dec. 12, 2023 by 4PM PST for experiments starting in Summer 2024.





PROPOSAL SPOKESPERSON REQUIRES A LASERNETUS USER PORTAL ACCOUNT

Ready to Submit Your Proposal?

Submission Schedule

Cycle	Type	Proposal deadline	Cycle begins	Cycle ends	Awards
1	LaserNetUS standard proposal call	Mar. 18, 2019 4pm PST	July 2019	Dec. 2019	Cycle 1
2	LaserNetUS standard proposal call	Sept. 6, 2019 4pm PST	Jan. 2020	Dec. 2020	Cycle 2
3	LaserNetUS standard proposal call	Dec. 11, 2020 4pm PST	June 2021	June 2022	Cycle 3
4	LaserNetUS standard proposal call	Dec. 10, 2021 4pm PST	July 2022	July 2023	Cycle 4
5	LaserNetUS standard proposal call	Dec. 19, 2022 4pm PST	Sept. 2023*	July 2024	

*Earliest start date will depend on facility readiness and proposal feasibility.

LaserNetUS proposals are submitted through the LaserNetUS Portal which is operated by SLAC National Accelerator Laboratory. New users must register for a User Portal Account before they can submit a proposal – please note that if you already have a user account for facilities at SLAC (i.e. LCLS, SSRL, CryoEM), you do not need to make a new account. The proposal submission process will take approximately 30 minutes to complete including a safety management portion at the end. If you have any problems while submitting your proposal, please [contact us](#).



Accepting Proposals Now

Proposal Guidelines >

Start Submission >

LaserNetUS uses SLAC’s User Portal for proposal submissions. At this time, only the spokesperson must register for a User Account.

- The ‘Spokesperson’ is the primary administrative contact for the proposed experiment. The ‘Lead PI’ typically conceives of the idea, designs the experiment, and leads the experimental team and analysis effort. In almost all cases, the Spokesperson and Lead PI are the same.
- A ‘Co-PI’ is required for all submissions when a student or postdoc is the Lead PI to provide the necessary training, oversight, funding, and resources to execute the experiment.
- Access the portal from the LaserNetUS website by clicking the “LaserNetUS Portal” button



PROPOSAL SPOKESPERSON REQUIRES A LASERNETUS USER PORTAL ACCOUNT

Log in to your User Portal Account

User Portal Email/Account Name

Password

[Forgot your password?](#)

[Log In](#) [Register](#)

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HOW TO GET IN TOUCH

- **General questions, inquiries, and feedback**
 - Chandra Breanne Curry, LaserNetUS Coordinator, ccurry@slac.stanford.edu
- **Technical questions about LaserNetUS Facilities**
 - Contact information for each Facility Point of Contact are listed on the LaserNetUS website
- **Proposal questions**
 - Arianna Gleason, Proposal Review Panel Chair, ariannag@stanford.edu
- **User engagement questions and ideas (e.g. Outreach, DEI, Student Experience)**
 - Ronnie Shepherd, i-USE Chair, shepherd1@llnl.gov
 - Amina Hussein, i-USE Co-Chair, gehussain@ualberta.ca
- **Requests for support for awarded experiments**
 - Kramer Akli, DOE-FES HEDLP Program Manager, kramer.akli@science.doe.gov
 - Chandra Breanne Curry, LaserNetUS Coordinator, ccurry@slac.stanford.edu



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First name

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Organization

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I'm not a robot 
reCAPTCHA
Privacy - Terms

Note: to submit a proposal, users will also need to register for a LaserNetUS User Portal account as described within the [Proposal Guidelines](#).

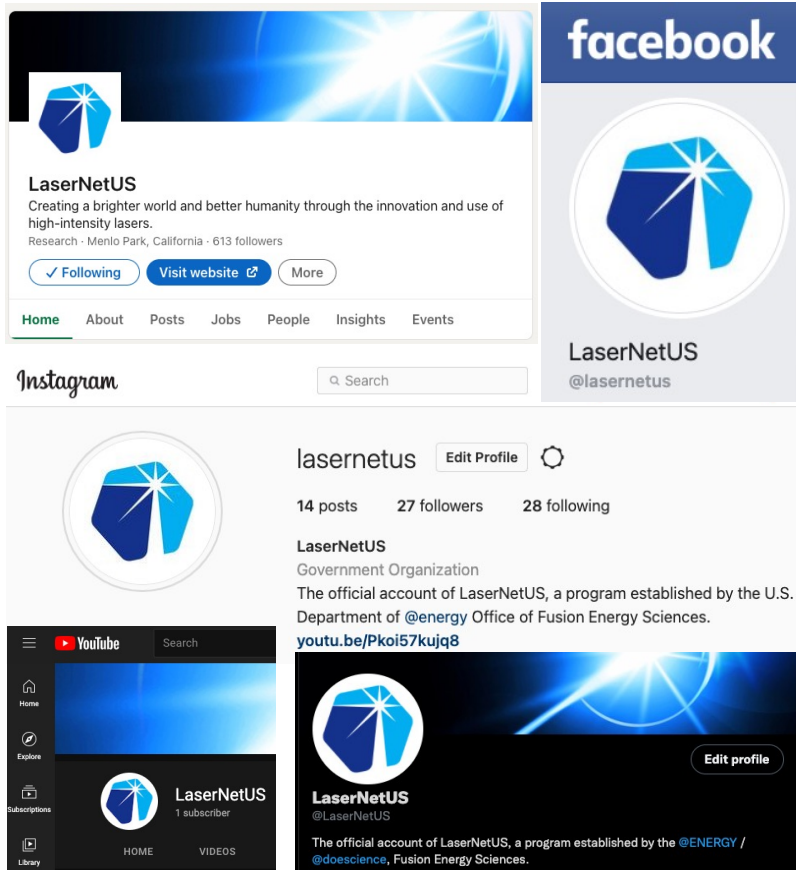
Subscribe >

Join the LaserNetUS listserv by visiting
<https://lasernetus.org/join>

- Official channel of communication between LaserNetUS and the user community
- Typical information disseminated: Call for proposals, LaserNetUS events, committee elections, major news and updates about the Network
- Infrequent (average <1/week)



LASERNETUS ON SOCIAL MEDIA: EVENTS, JOB POSTINGS, EXPERIMENT HIGHLIGHTS



LaserNetUS is on the major social media platforms providing more frequent updates:

- LinkedIn: <https://www.linkedin.com/company/lasernetus>
- Facebook: <https://www.facebook.com/lasernetus>
- Instagram: <https://www.instagram.com/lasernetus>
- Twitter: <https://twitter.com/LaserNetUS>
- YouTube (search for LaserNetUS)



A woman with blonde hair, wearing safety glasses and blue gloves, is focused on a task in a laboratory. She is wearing a white lab coat and is looking through a microscope. The background is filled with various pieces of scientific equipment, including a large circular component on the left and a green frame with a microscope on the right. The name 'LIZ' is visible on the green frame. The overall scene is dimly lit with a blue tint.

THANK YOU

WE LOOK FORWARD TO YOUR CYCLE 6
SUBMISSIONS BY DEC. 12, 2023 BY 4PM PST