

2012

LABORATORY *for* LASER ENERGETICS

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4 ω Probe Wells

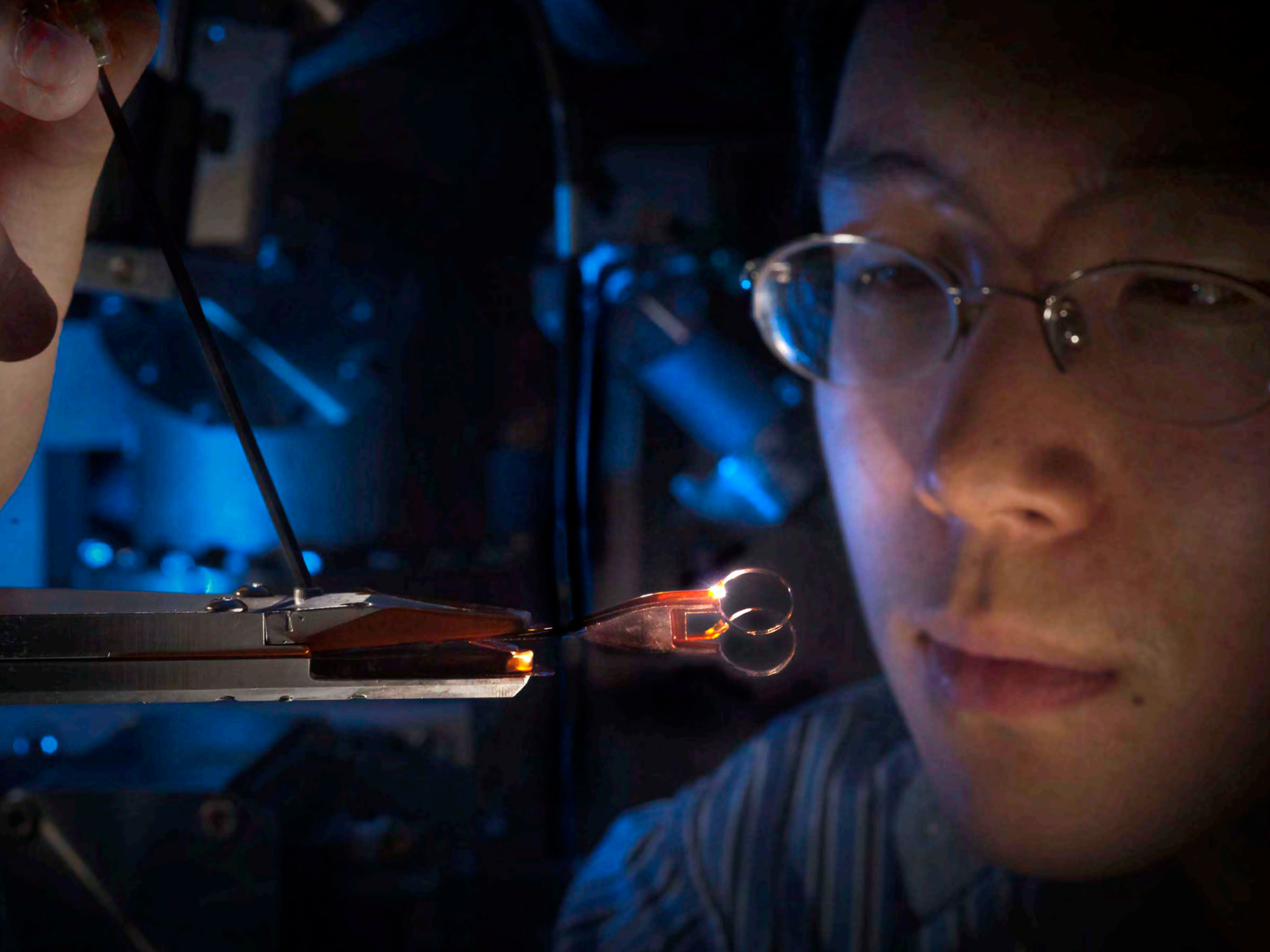
The 10-ft-diam OMEGA EP target chamber continues to be populated with various diagnostics and fixed portals. Jeff Rodas is shown at TIM 12 during the installation of the two 4 ω probe wells, one of which is seen as a specular source in the center.


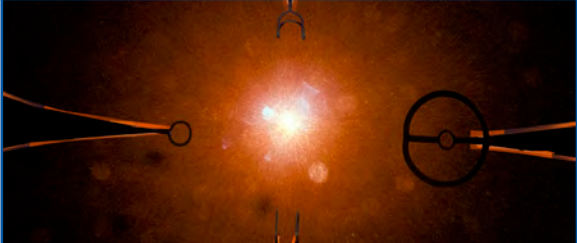
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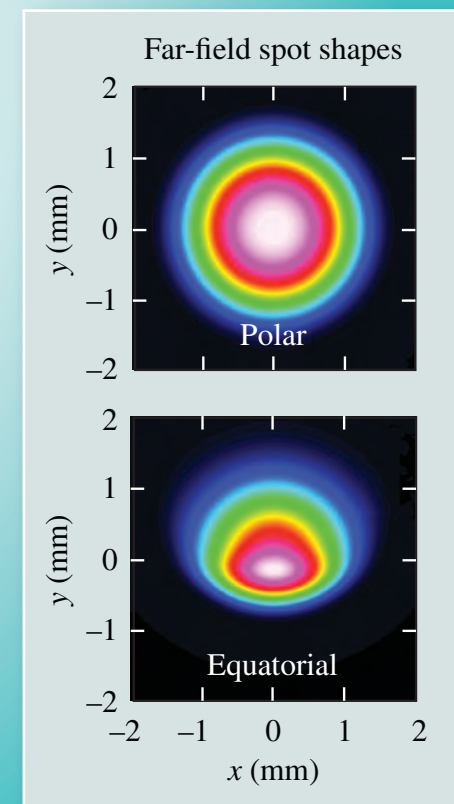
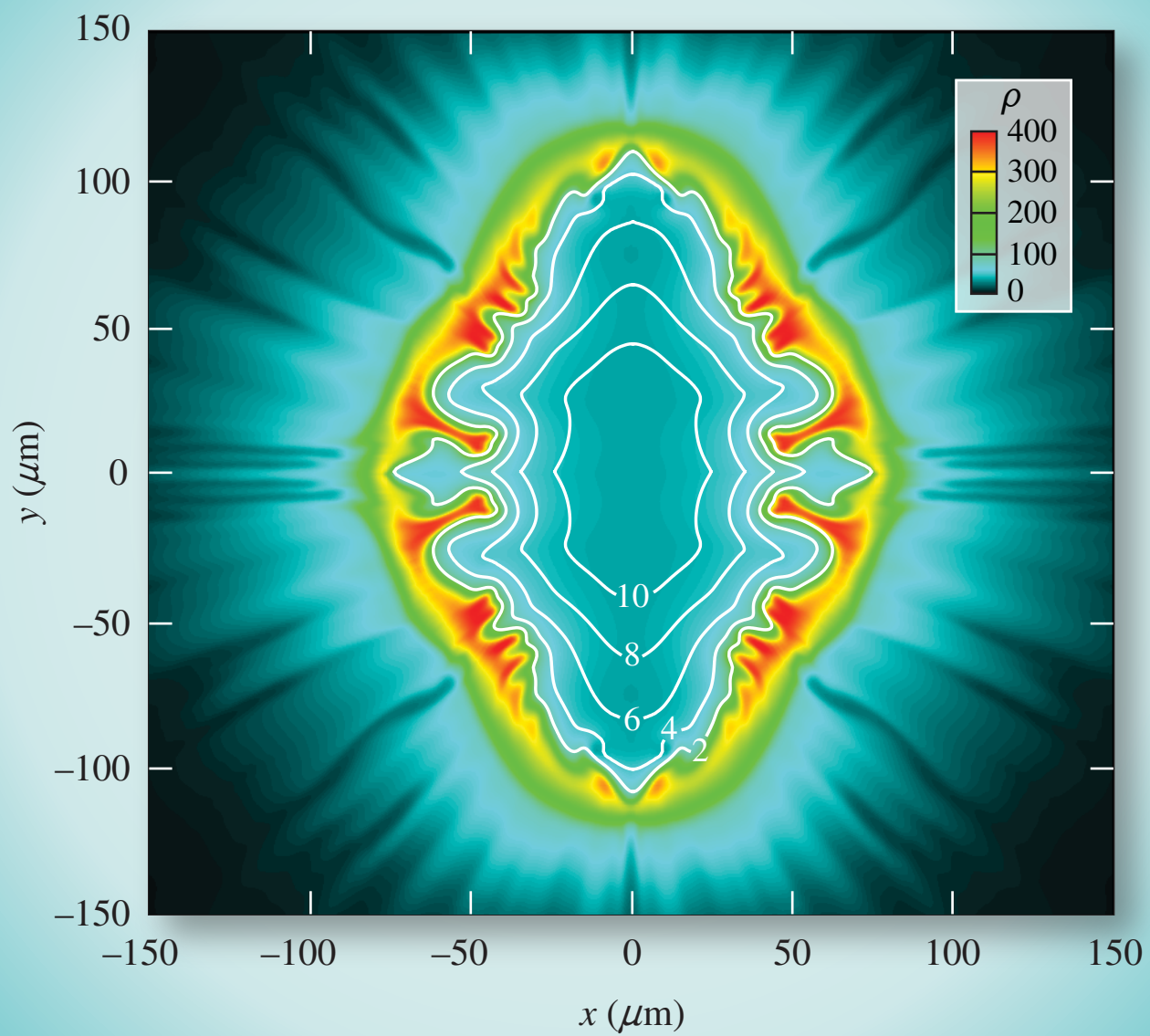
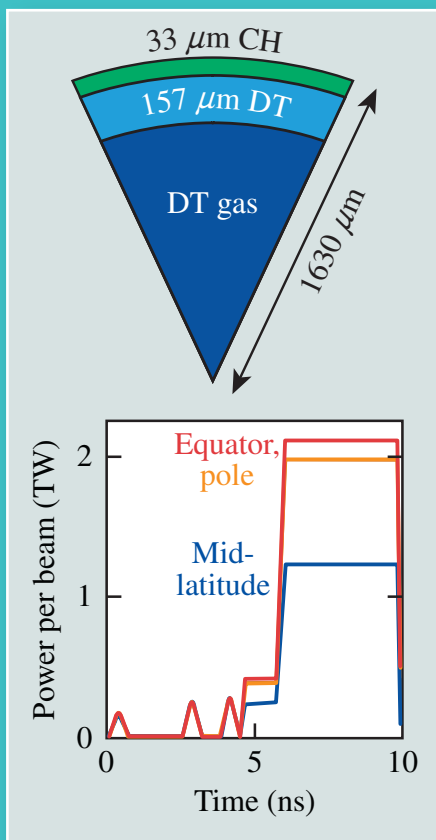
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UROSS

Jie Qiao in the OMEGA EP bay at the SPDP (short-pulse diagnostic package). The SPDP includes the UROSS (Ultrafast Rochester Optical Streak System) camera shown above.

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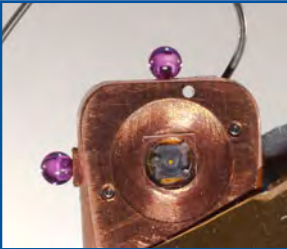

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X-ray Thomson Scattering

Dr. Sean Regan inspects a target assembly for x-ray Thomson-scattering experiments, which are used to validate our nonlocal hydrodynamic model in the coronal plasma. These simulations agree well with electron and ion-temperature measurements near the initial target surface.

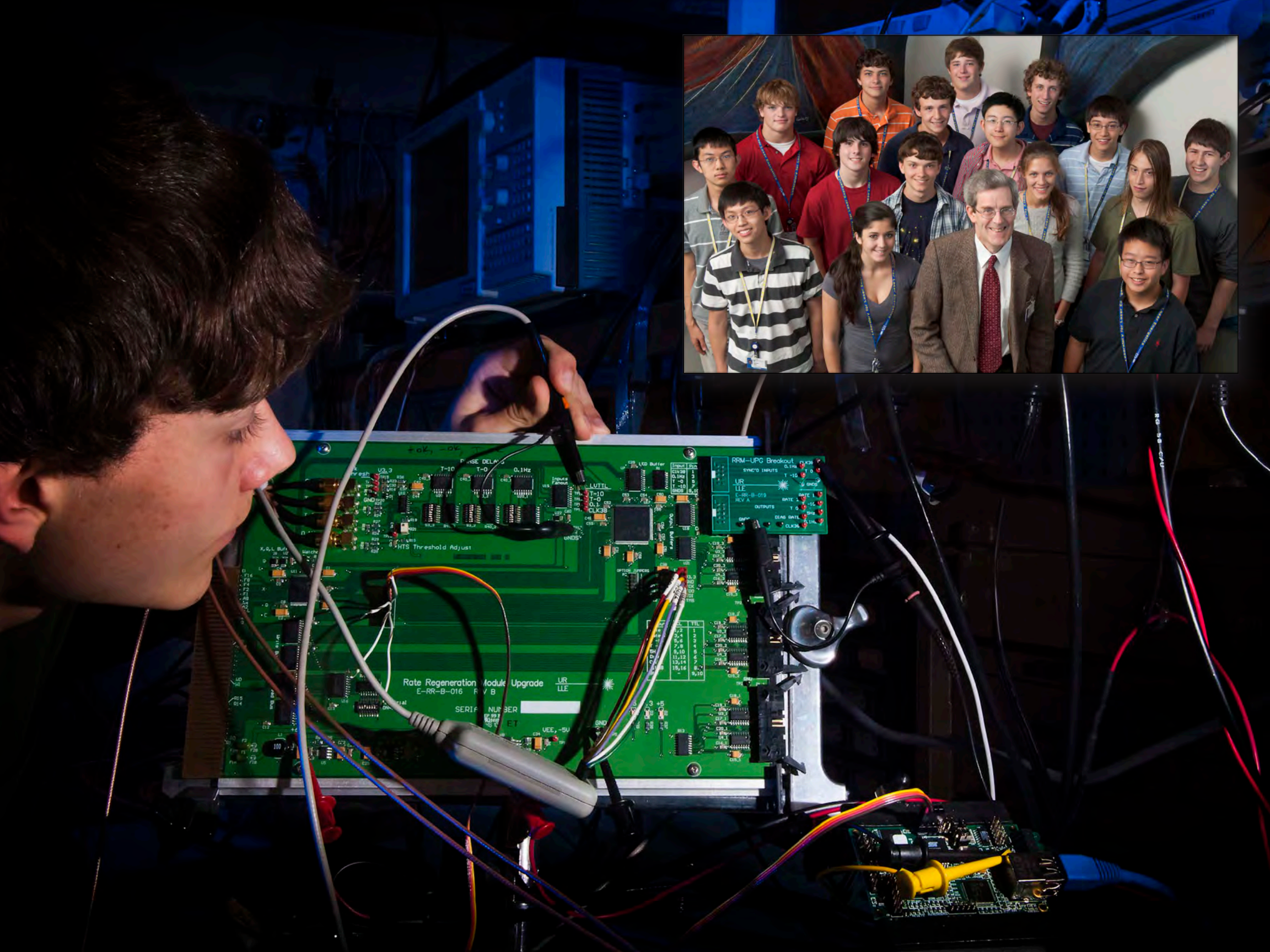
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JUNE

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High School Program

Participants in LLE's 22nd Summer High School Research Program with program director Dr. Stephen Craxton. The program challenges high school students to explore research topics and careers under the tutelage of LLE scientists, engineers, and staff in a state-of-the-art environment.

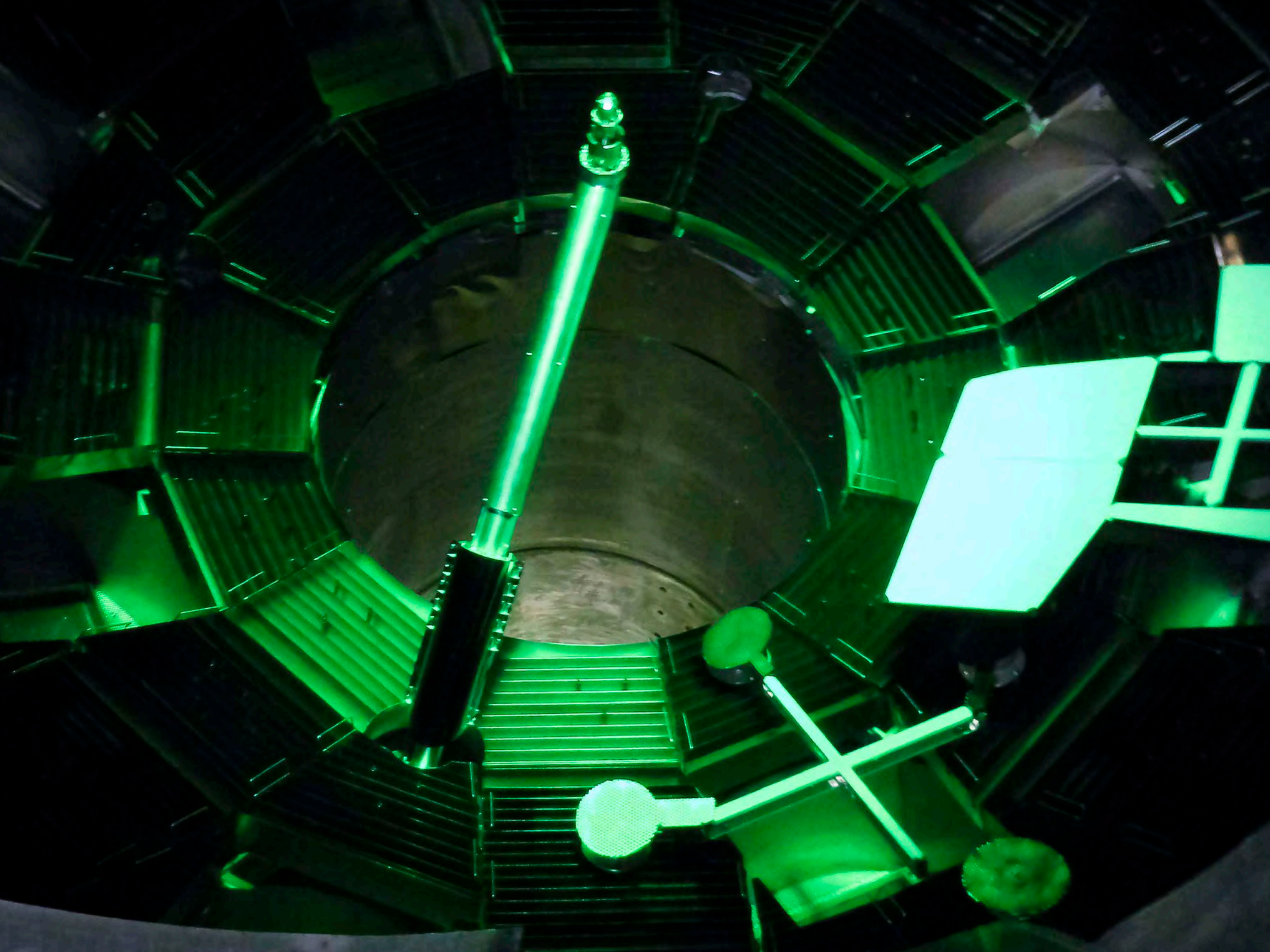
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Bang Time Detector

The LLE-built south-pole bang-time detector, installed inside the NIF target chamber, is used to determine the bang time along the hohlraum axis. It is one of the National Ignition Facility's diagnostics used for the National Ignition Campaign.

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Fill Transfer Station Upgrade

Access to the chamber in which targets are filled with hydrogen isotopes is infrequent and requires complex efforts to carry out. Mark Romanofsky fine tunes the installation of the shroud cooler and guide rail plates under the dome.

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20,000th Shot

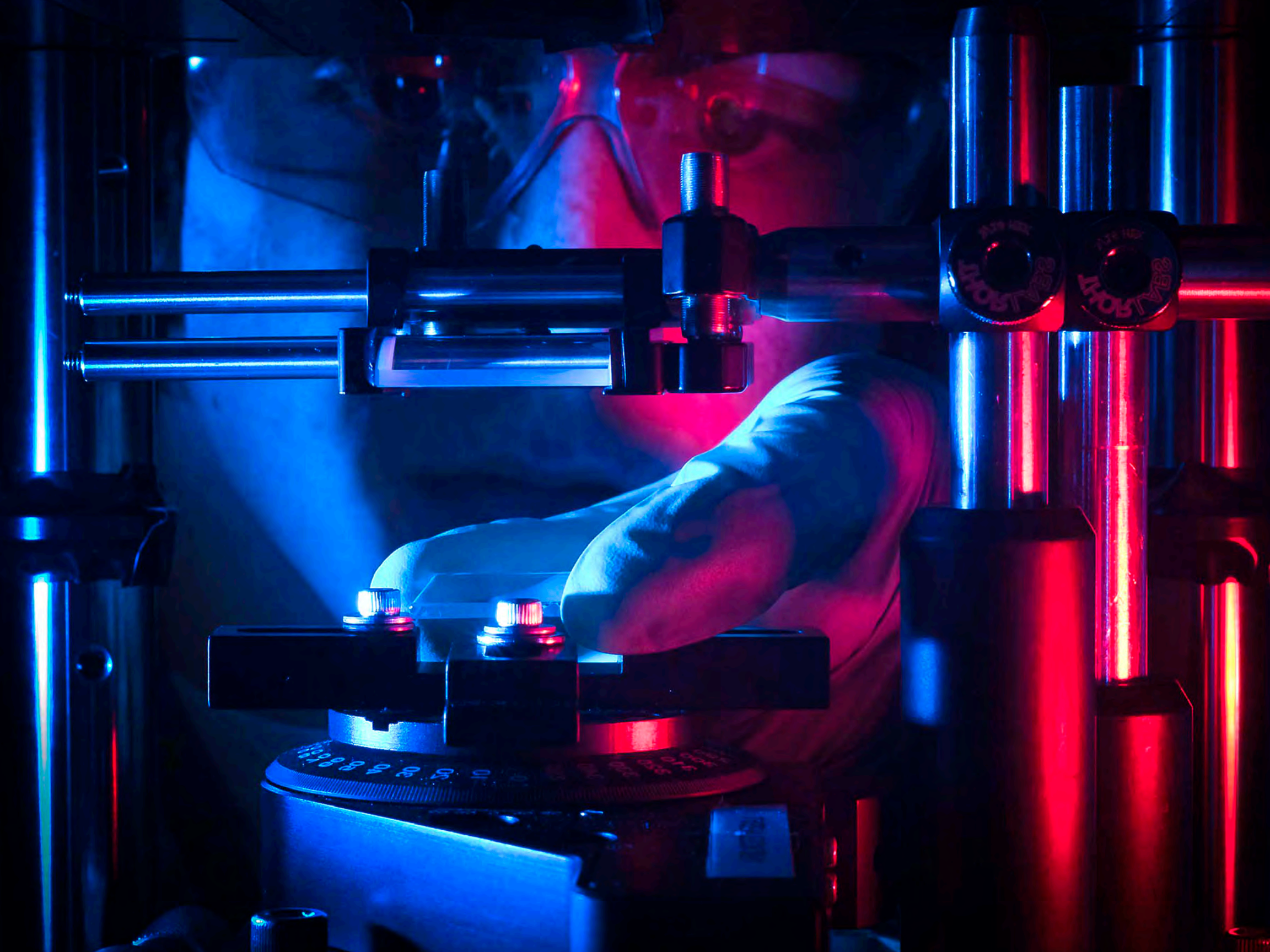
Since the 60-beam OMEGA laser was commissioned in 1995, it has conducted 20,000 target shots. The facility capabilities include flexible pulse shaping, beam smoothing, power balance, and comprehensive diagnostics. OMEGA is one of the world's most productive high-energy-density-physics facilities.

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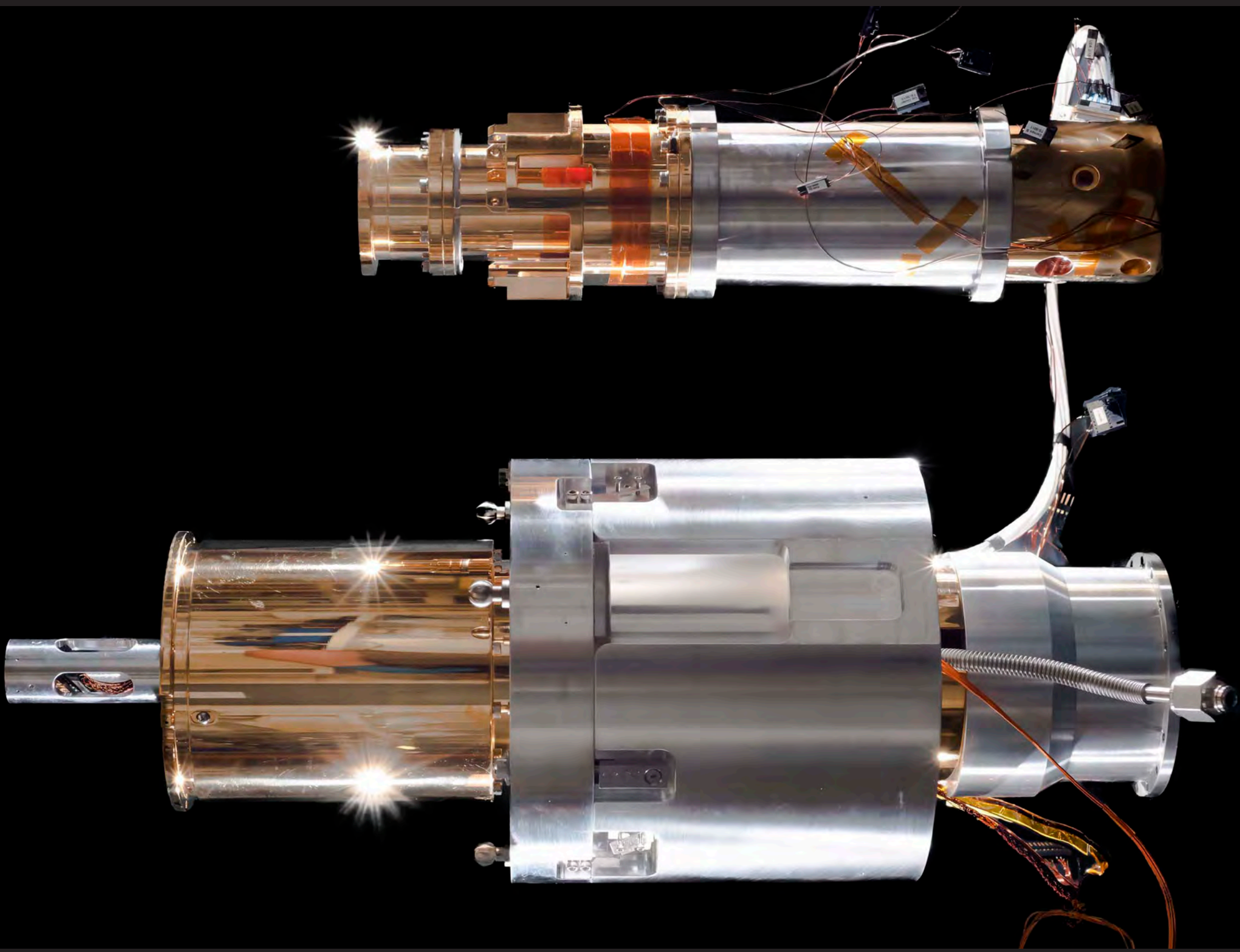




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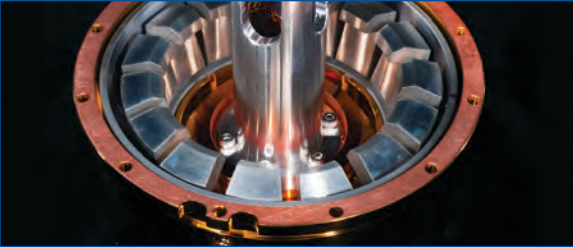
NOVEMBER

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Cryogenic Shrouds

Continued improvements in the delivery of cryogenic targets to the center of the OMEGA target chamber have led to the upgraded upper and lower thermal shrouds shown here. Housed in the moving cryostat transport cart, the lower shroud protects, cools, and positions the mounted target.

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DECEMBER

2012

University of Rochester • Laboratory for Laser Energetics
www.lle.rochester.edu



Mission Statement

The Laboratory for Laser Energetics (LLE) of the University of Rochester is a unique national resource for research and education in science and technology. The Rochester area has a history of innovation and provides a unique setting for LLE within a technologically sophisticated community. Established in 1970 as a center for the investigation of the interaction of intense radiation with matter, the Laboratory has a five-fold mission:

1. to conduct implosion experiments and basic physics experiments in support of the National Inertial Confinement Fusion (ICF) Program;
2. to develop new laser and materials technologies;
3. to provide graduate and undergraduate education in electro-optics, high-power lasers, high-energy-density physics, plasma physics, and nuclear fusion technology;
4. to operate the National Laser Users' Facility (NLUF); and
5. to conduct research and development in advanced technology related to high-energy-density phenomena.

The 2012 LLE Calendar contains information about many of the Laboratory's programs. We hope that you enjoy using your copy of the LLE Calendar and wish you a productive and fulfilling 2012.



LABORATORY
for
LASER ENERGETICS
UNIVERSITY of ROCHESTER
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LLE 

2013

JANUARY

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DECEMBER

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