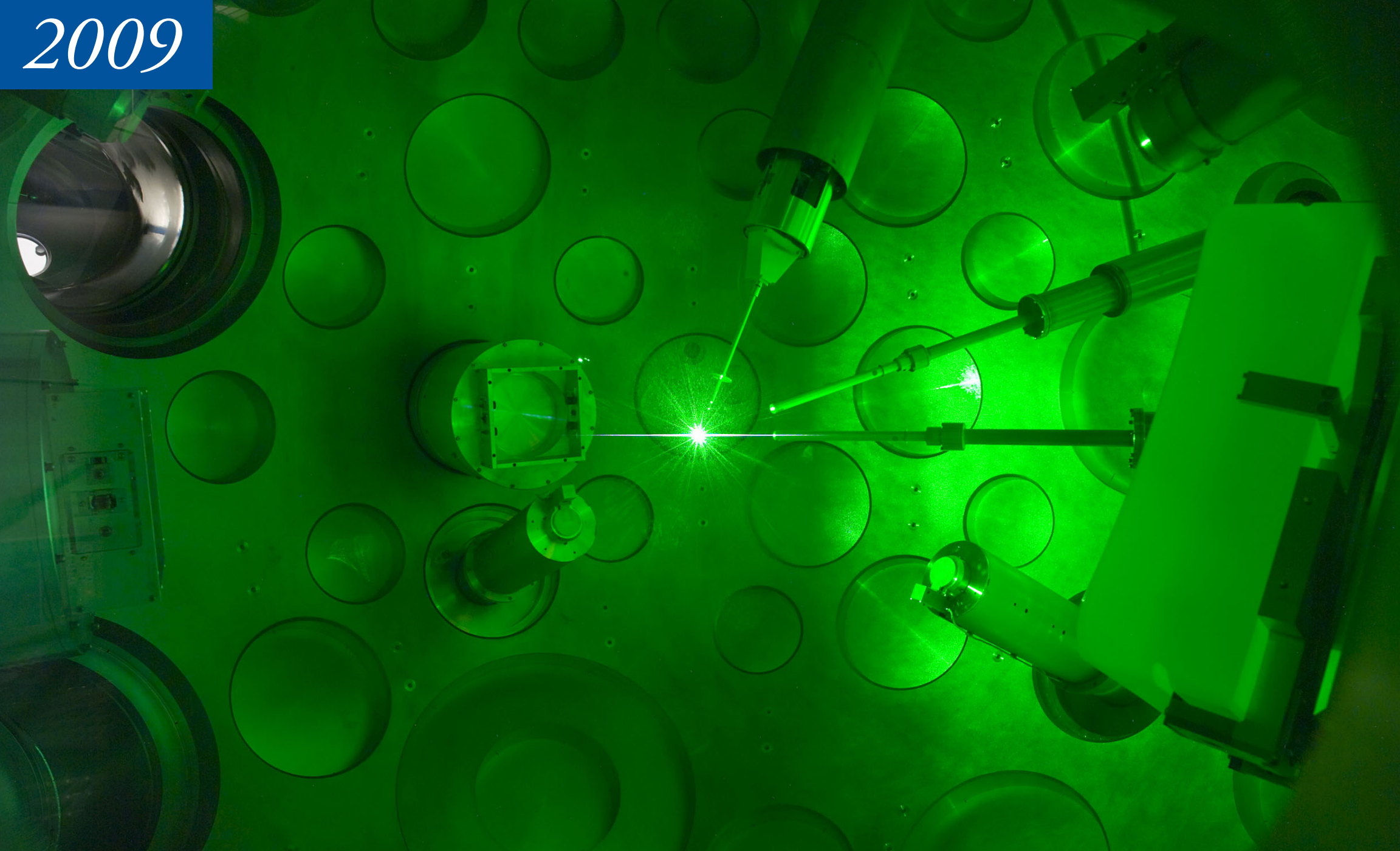


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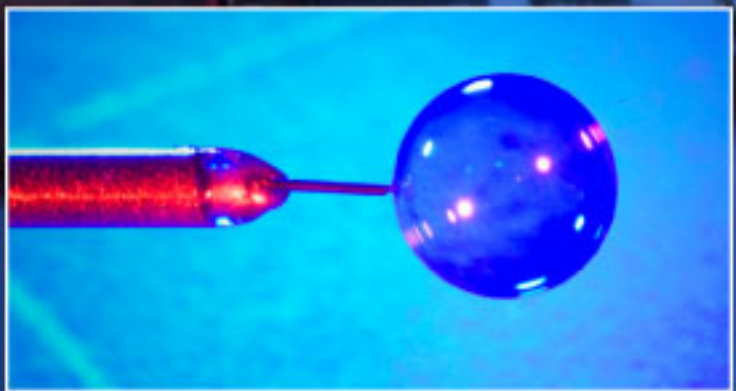
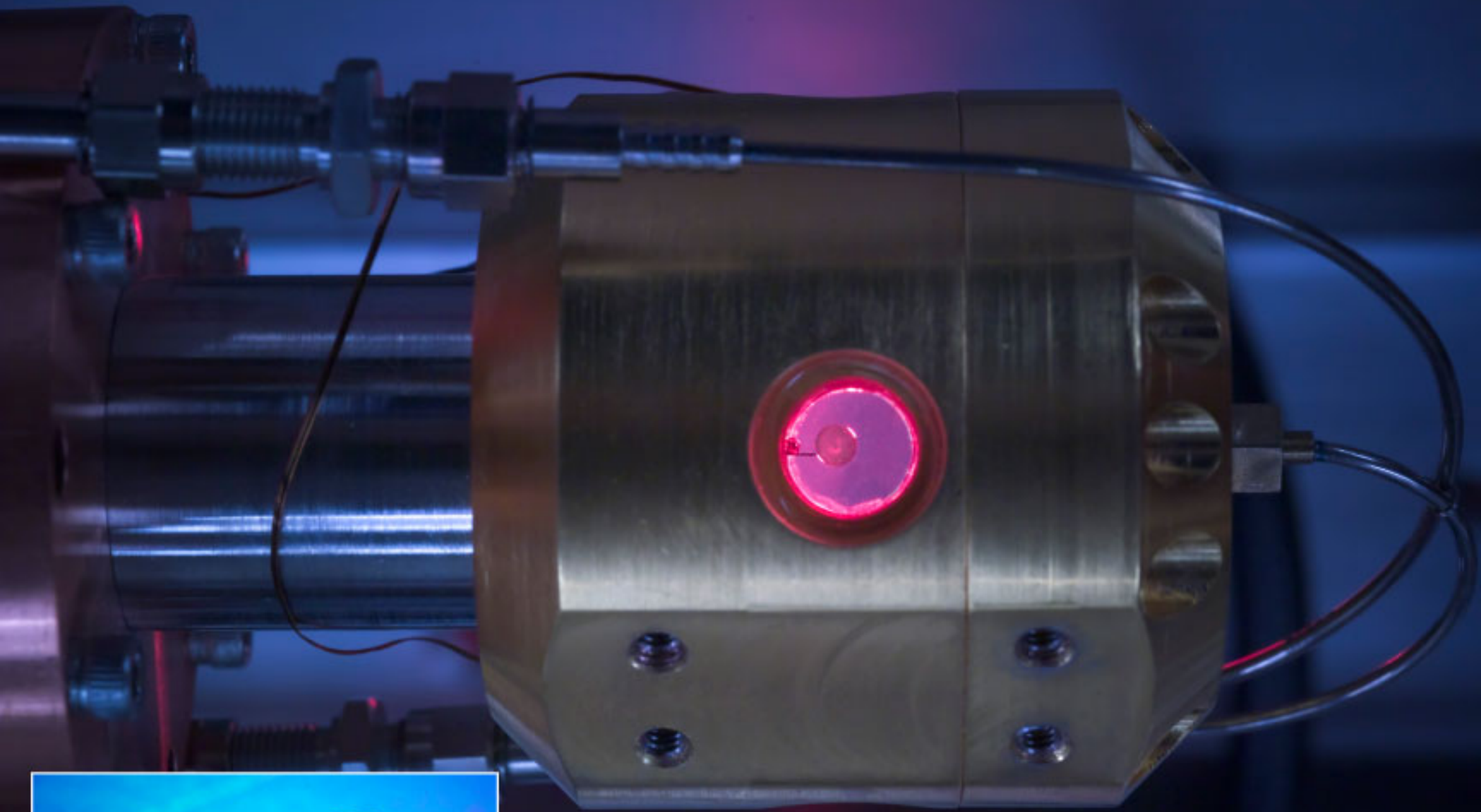


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Cryogenic Fill Test Facility

Cryogenic fill-tube capsule visible in a layering sphere; fuel flows to the target through a small tube in the support stalk. This target concept can be extended to direct drive on the National Ignition Facility (NIF) and cone-in-shell advanced ignition targets at LLE.

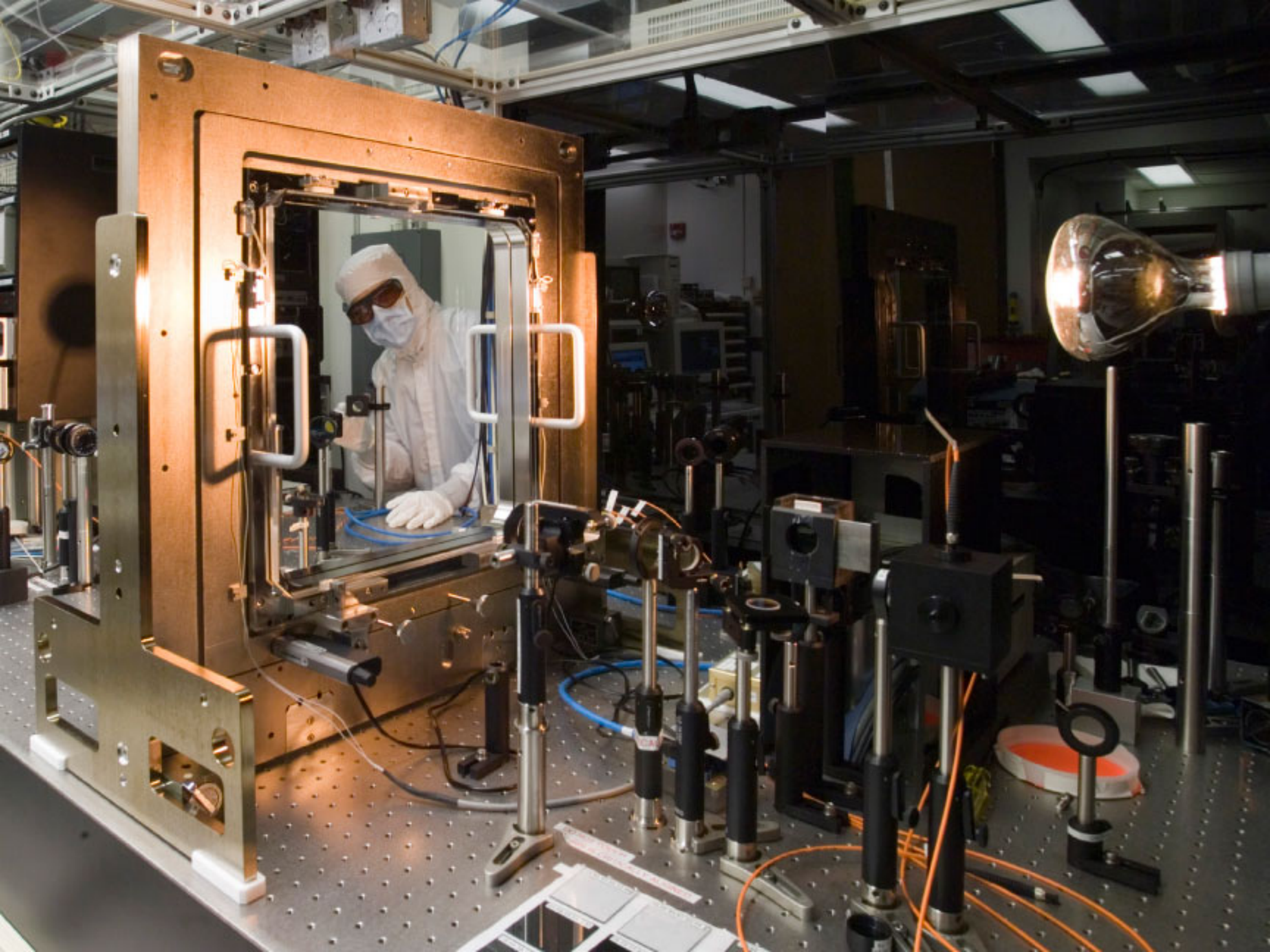
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JANUARY

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FCC Tuning Table

OMEGA EP frequency-conversion crystals (FCC's) are prepared for laboratory tuning. When installed, these crystals efficiently convert the infrared beams to ultraviolet.

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PRESIDENTS' DAY

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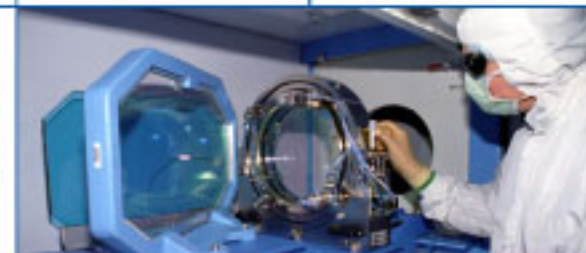
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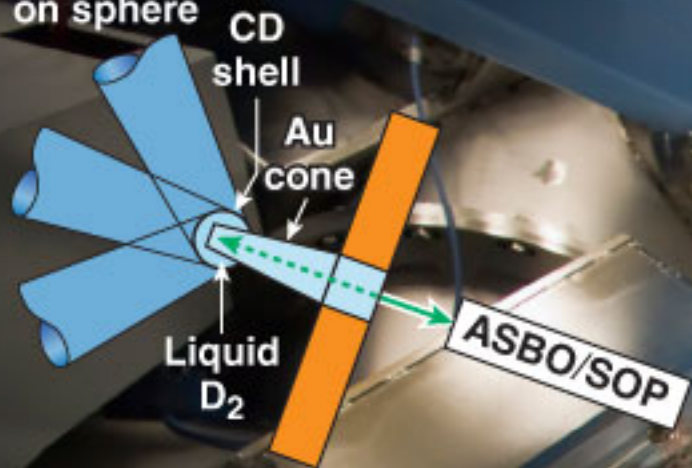
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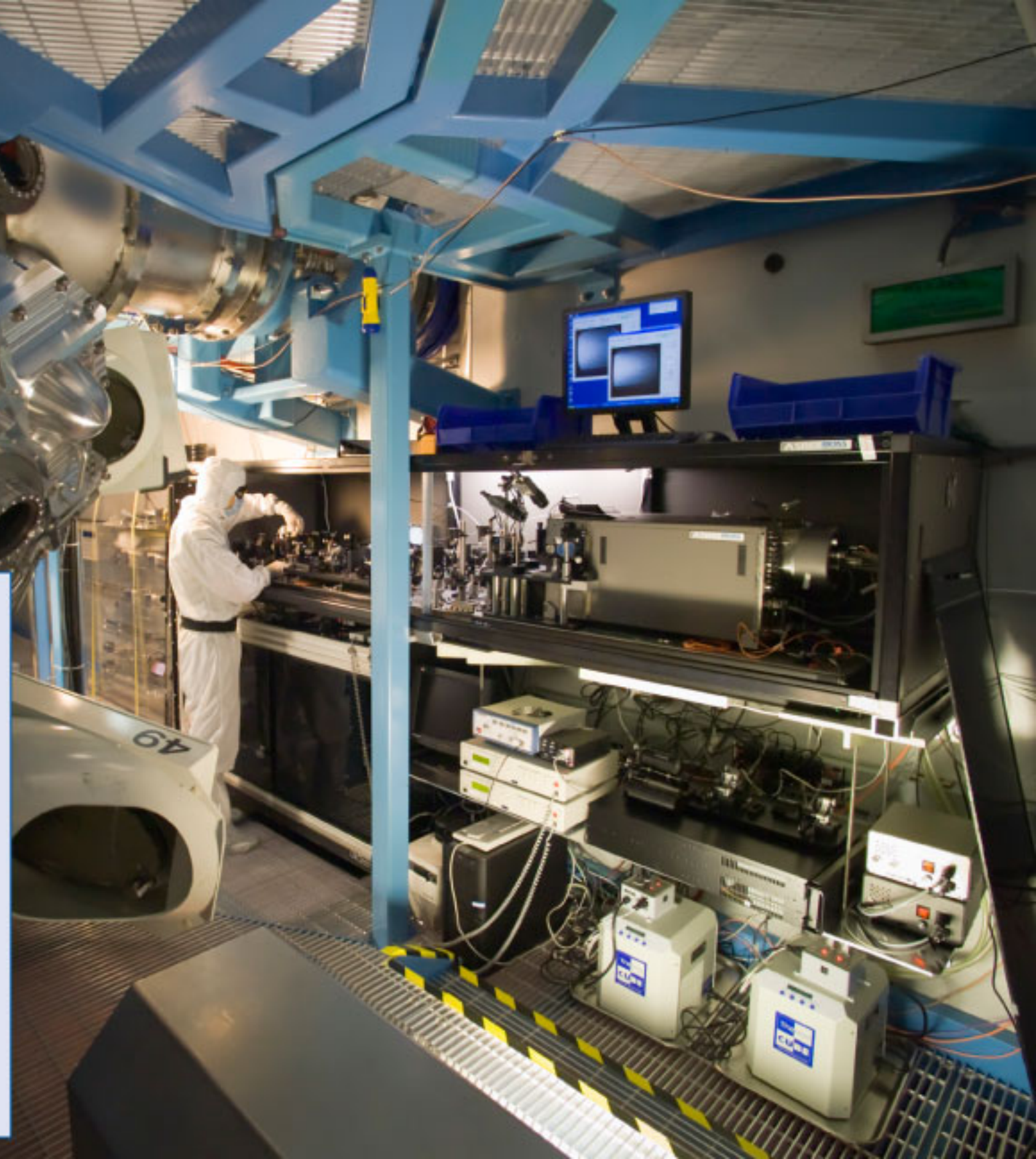
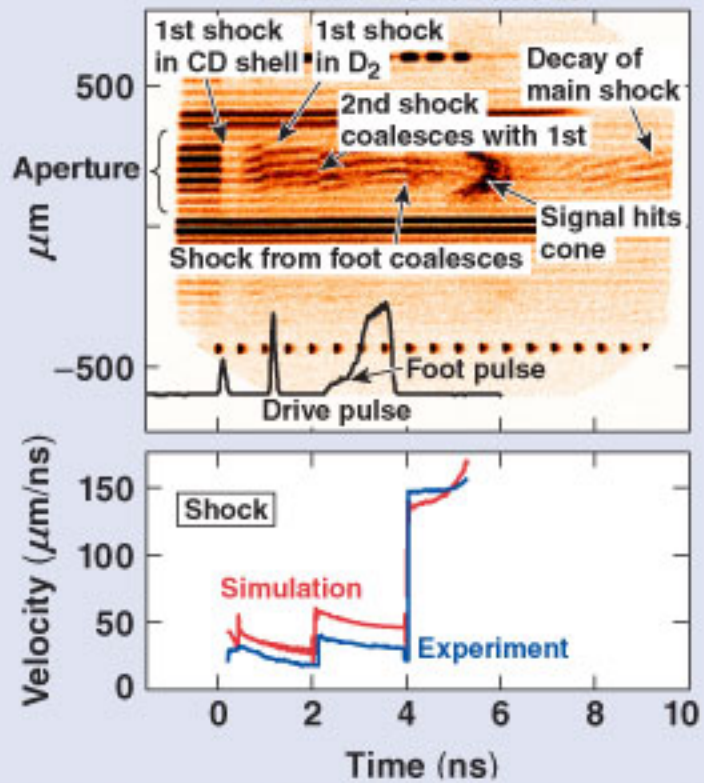
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36 beams
on sphere



VISAR-1 shot 50840



ASBO Diagnostic

The Active Shock Breakout (ASBO) diagnostic measures the timing of shock waves inside an imploding cryogenic D₂ sphere. The position of ASBO fringes (upper image) is proportional to the velocity; the results of a double-foot pulse experiment shows the coalescence of waves (lower graph).

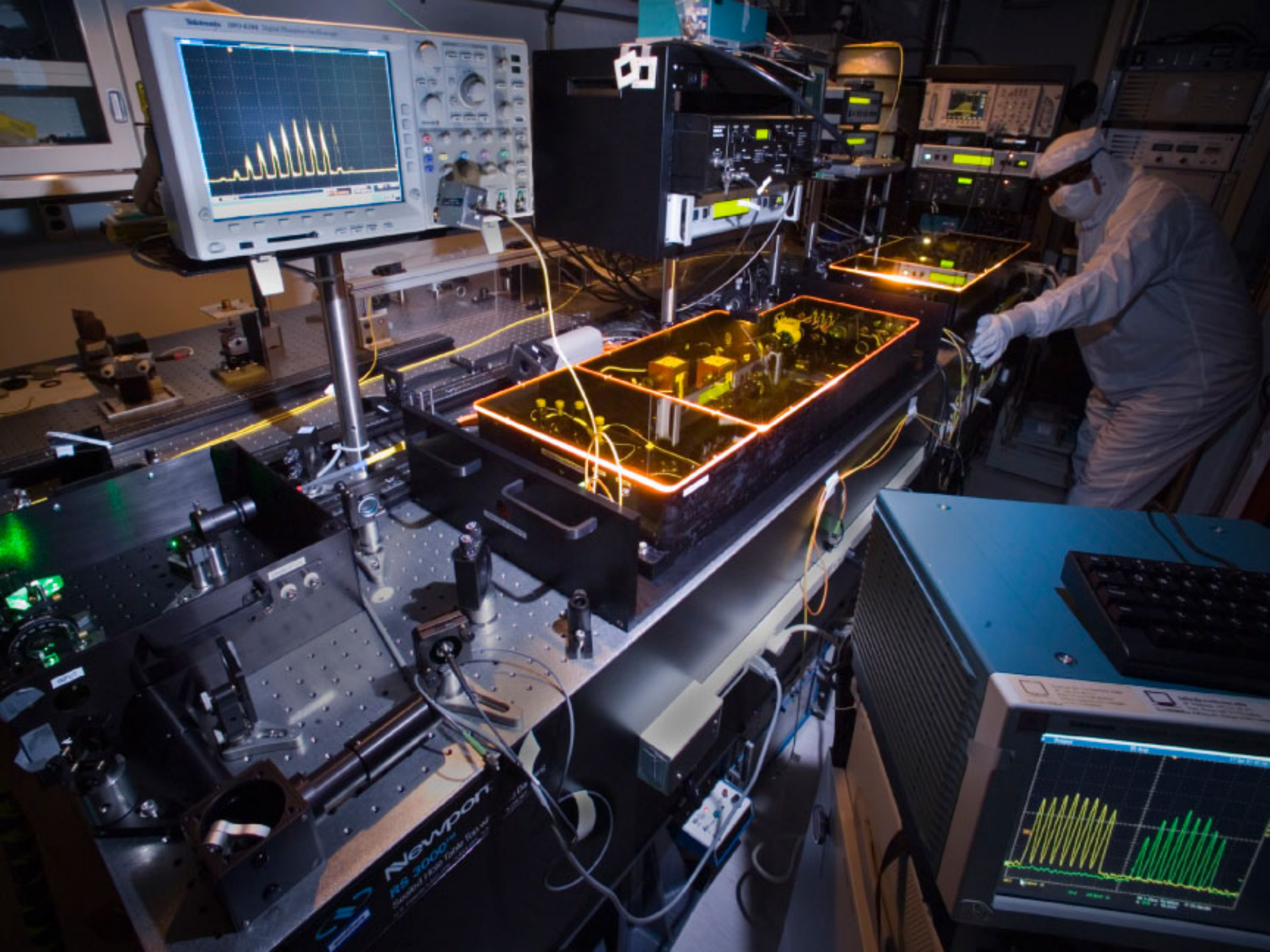
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MARCH

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Fiducial Test Bed

OMEGA timing fiducial produces infrared, green, and ultraviolet eight-pulse "combs" that are used for timing and calibration. Full tests were completed in a test bed prior to installation in the OMEGA Target Bay (below).

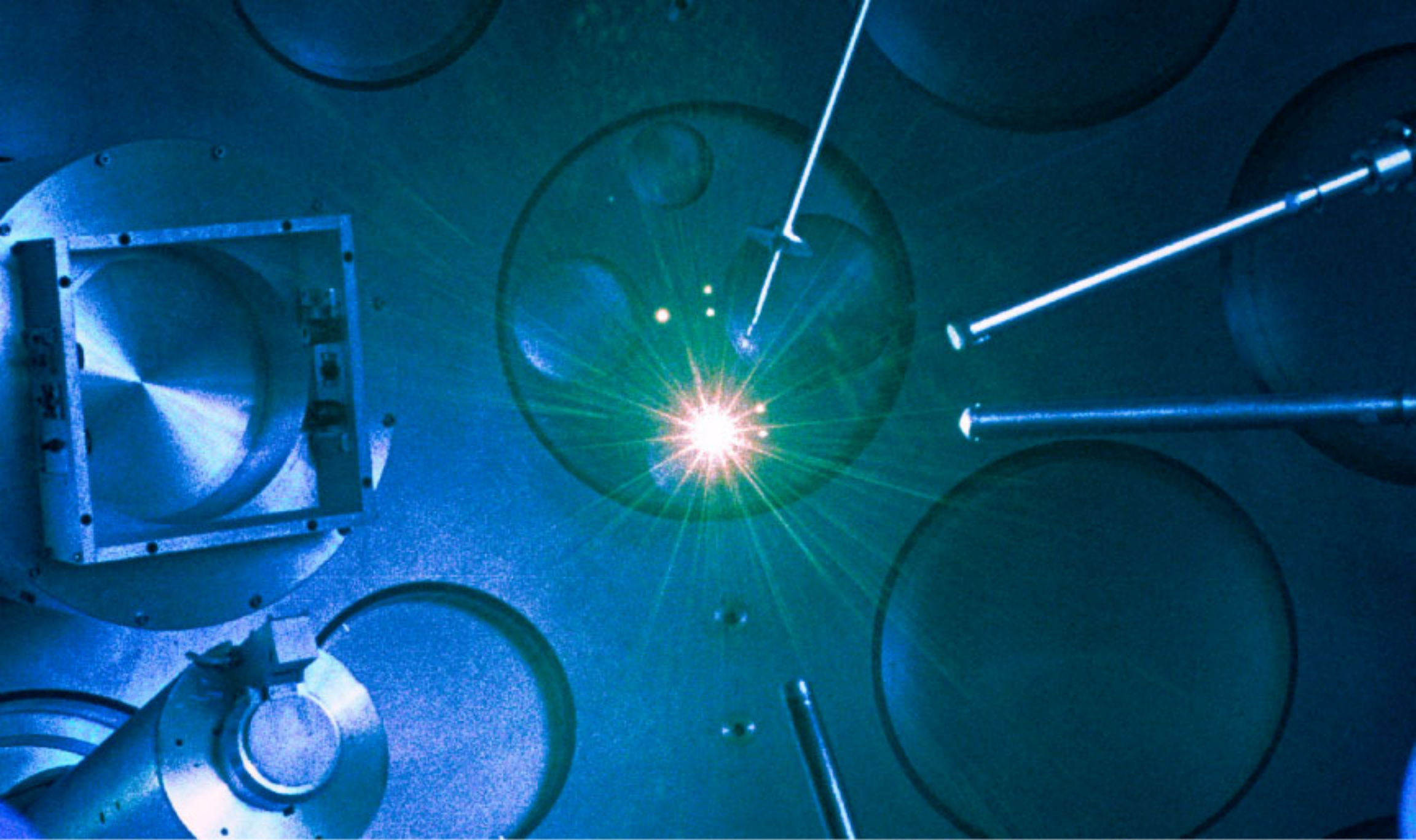
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OMEGA EP Laser Dedication

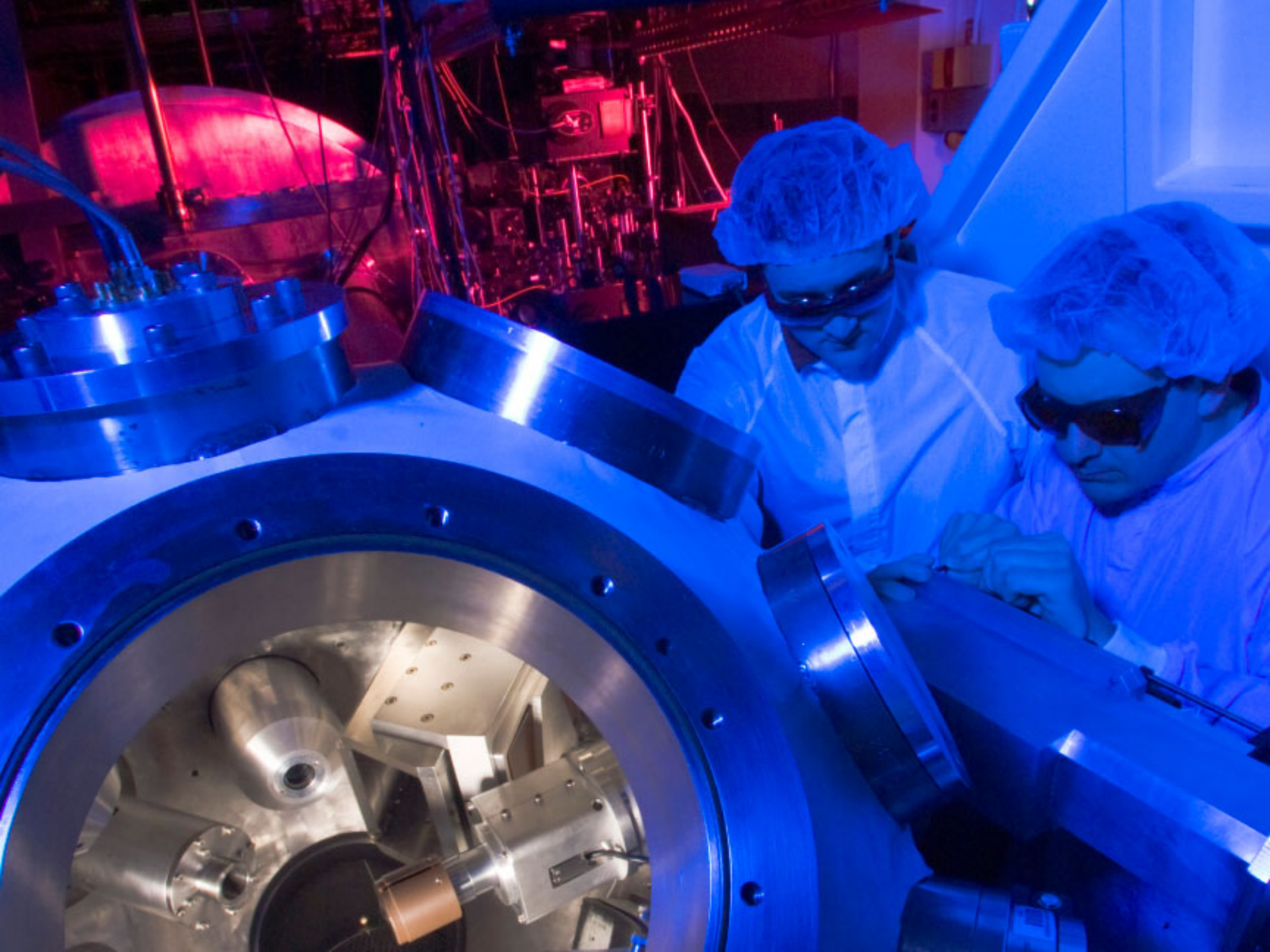
On Friday, 16 May 2008, Dr. Robert McCrory dedicated the new OMEGA EP laser at the Robert L. Sproull Center for Ultra High Intensity Laser Research at the Laboratory for Laser Energetics.


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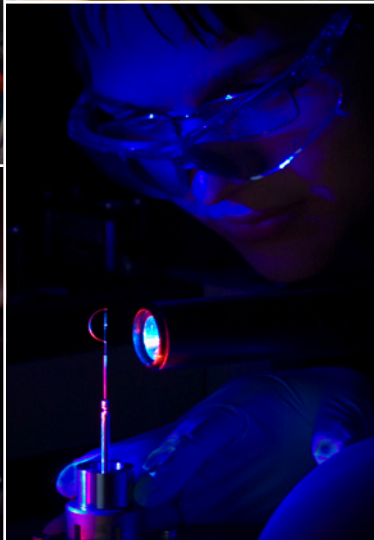
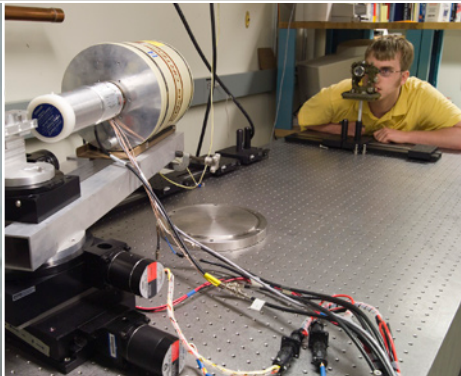
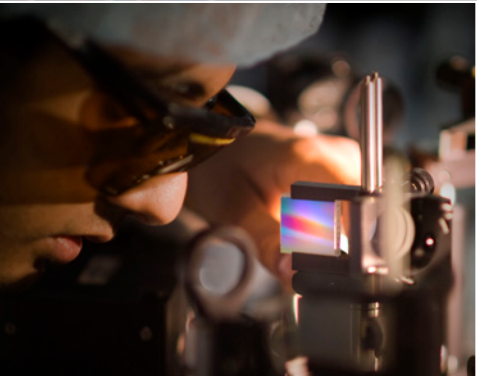
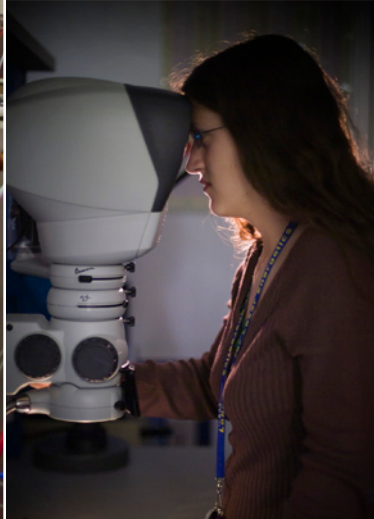
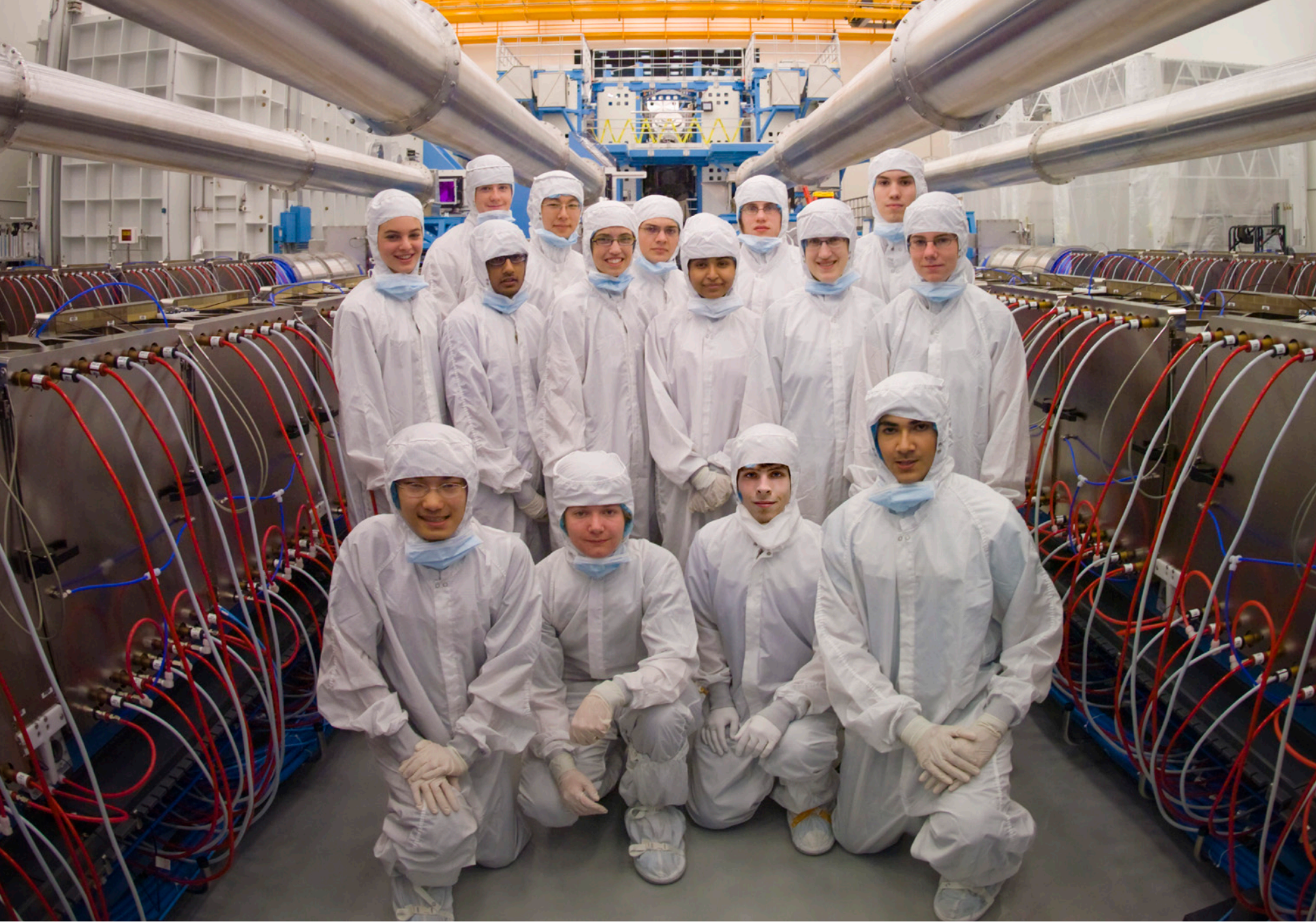
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High School Program

Participants in LLE's 20th Summer High School Research Program are shown in the OMEGA EP Laser Bay and at work on their projects.
 (Below) Dr. Stephen Craxton, Program Director, with Ms. Jane Bowdler, recipient of the 2008 William D. Ryan Inspirational Teacher Award.

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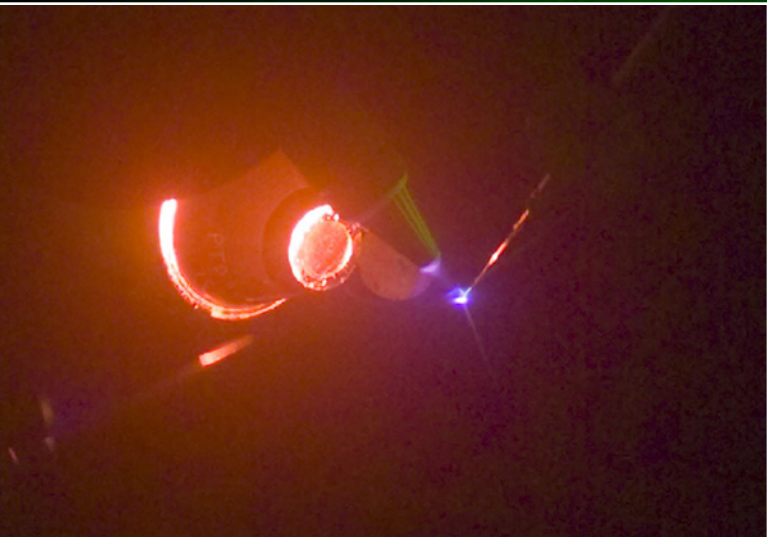
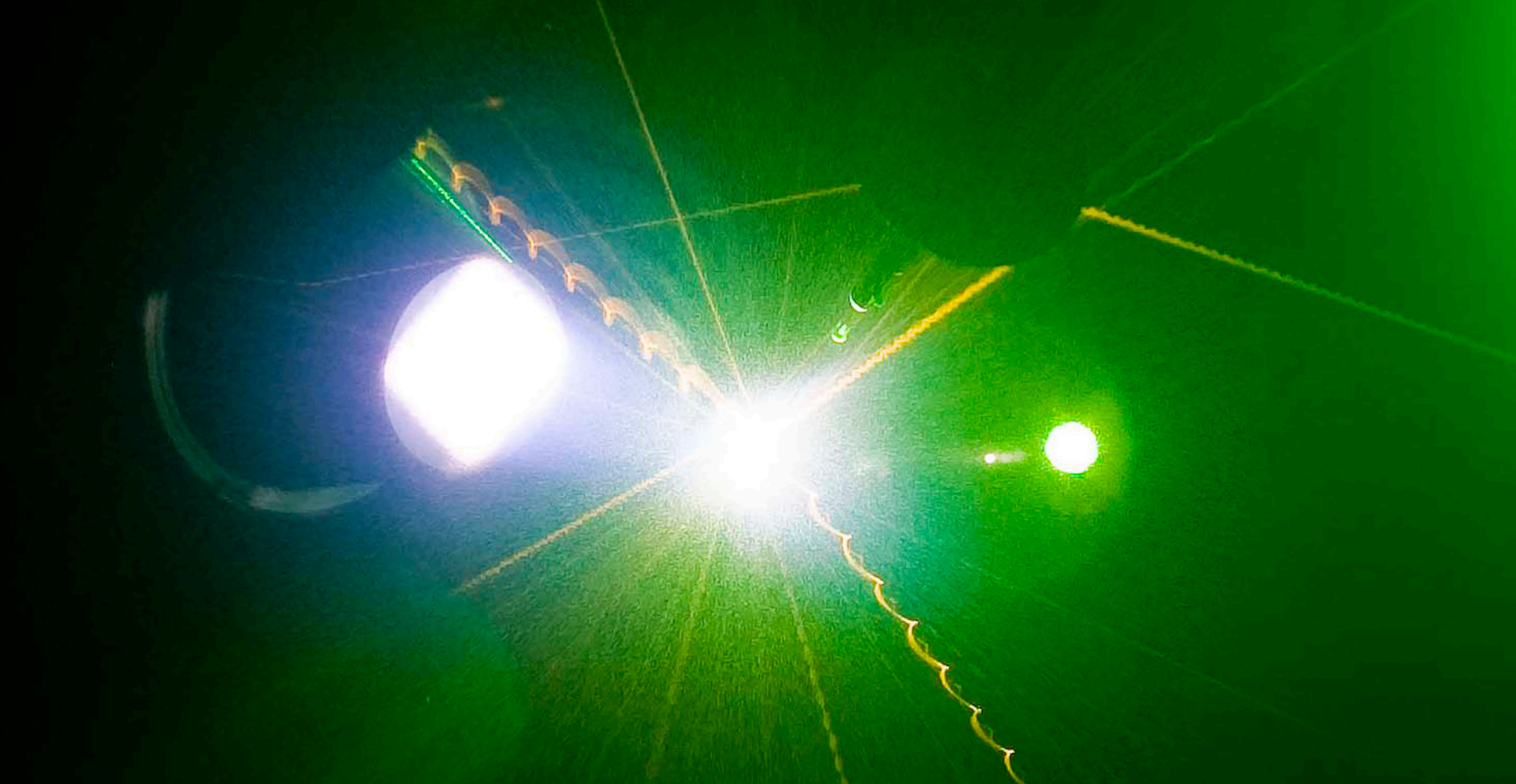
LLE GOLF TOURNAMENT
AT MILL CREEK

JULY

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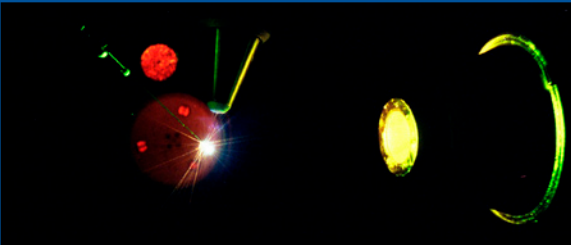


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Joint Operations

Target-implosion images from the first joint OMEGA and OMEGA EP target shots. Watchstanders from both the OMEGA and the OMEGA EP shot crews are briefed for a day of joint facility shots (bottom, center).

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Off-Axis Parabola Inserter/Manipulator

A view inside the OMEGA EP target chamber shows target diagnostics and engineers performing final checks on the off-axis parabola inserter/manipulator.

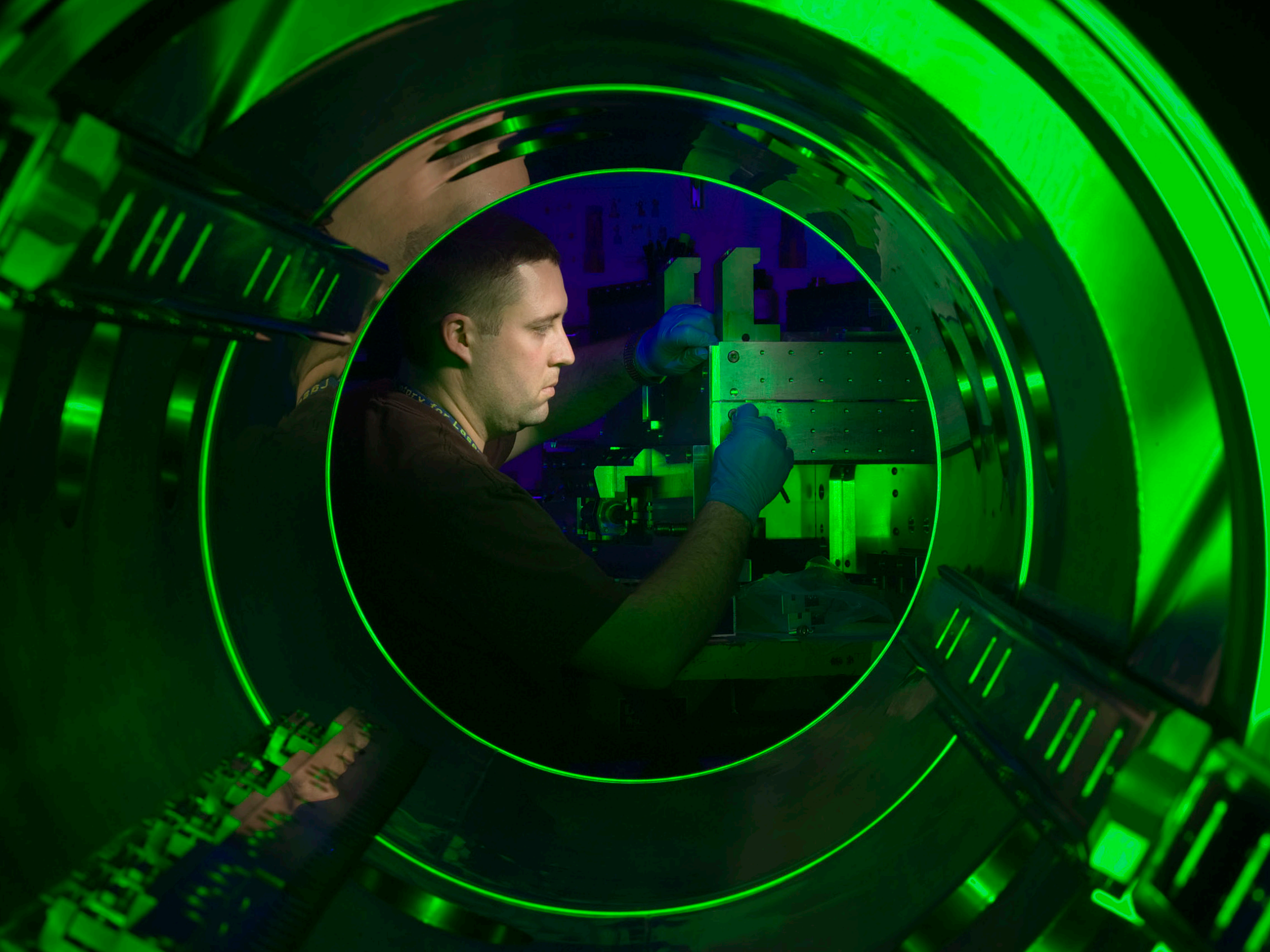
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SEPTEMBER

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OMEGA EP Short-Pulse Transport

The OMEGA EP off-axis parabola inserter/manipulator is assembled prior to installation on the target chamber; this machine facilitates precise focusing of the short-pulse beam.

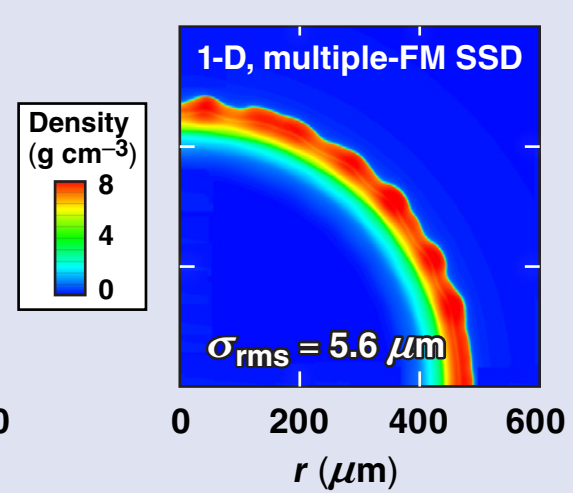
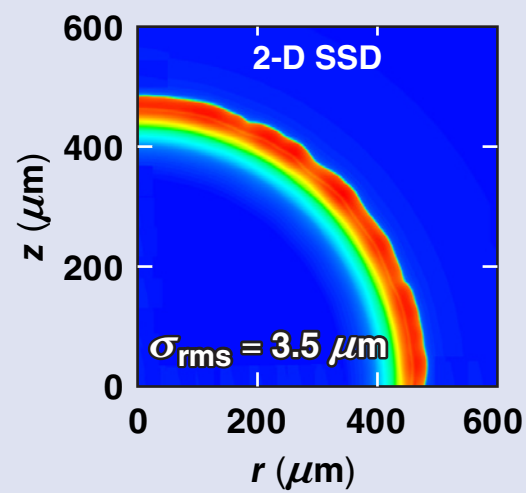
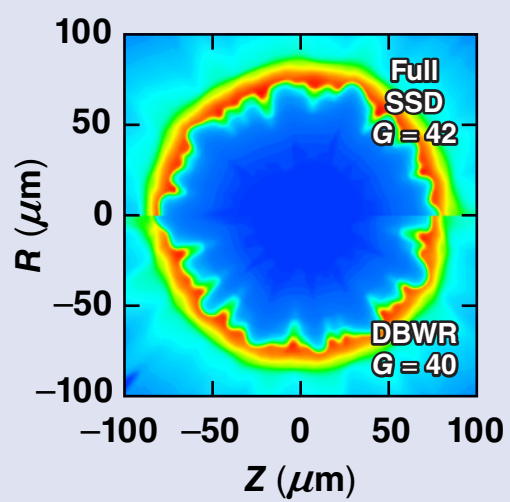
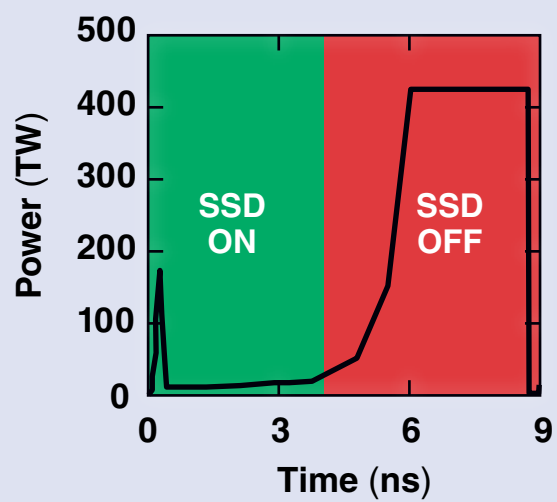
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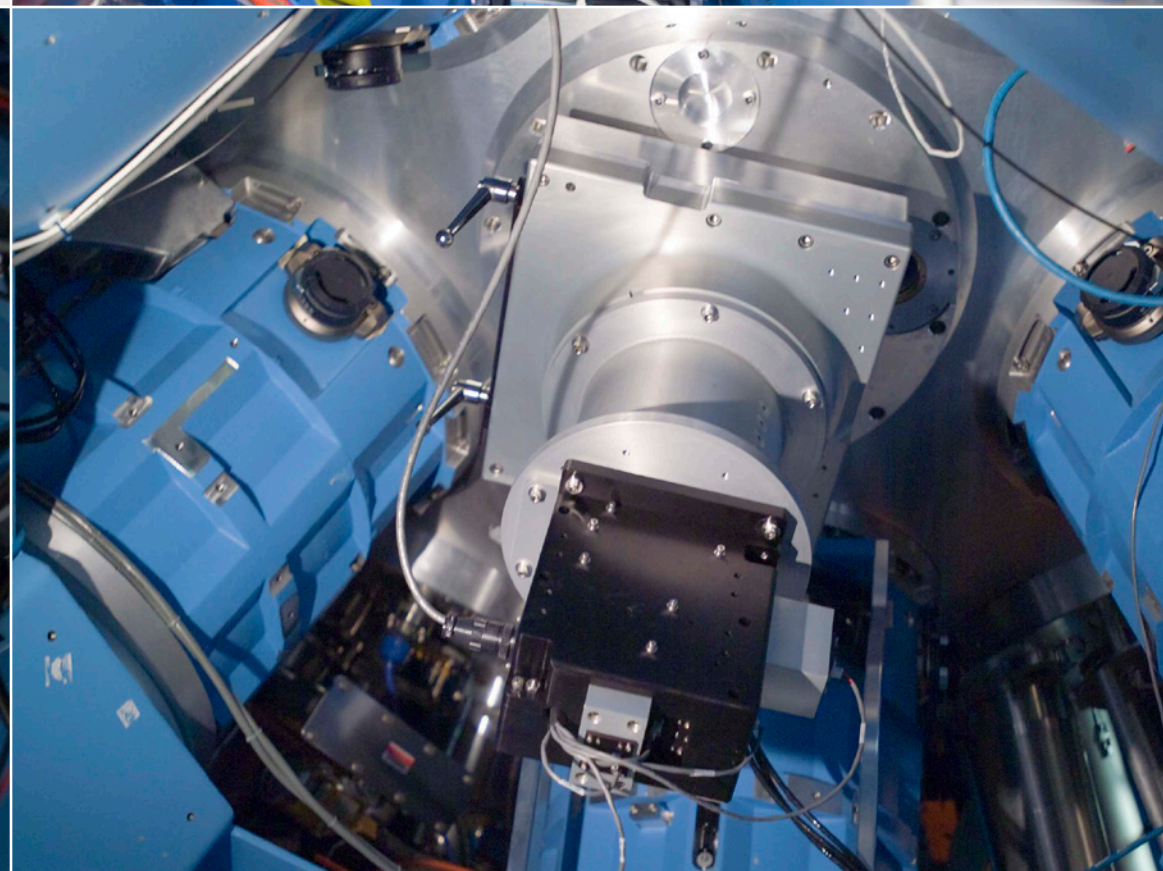
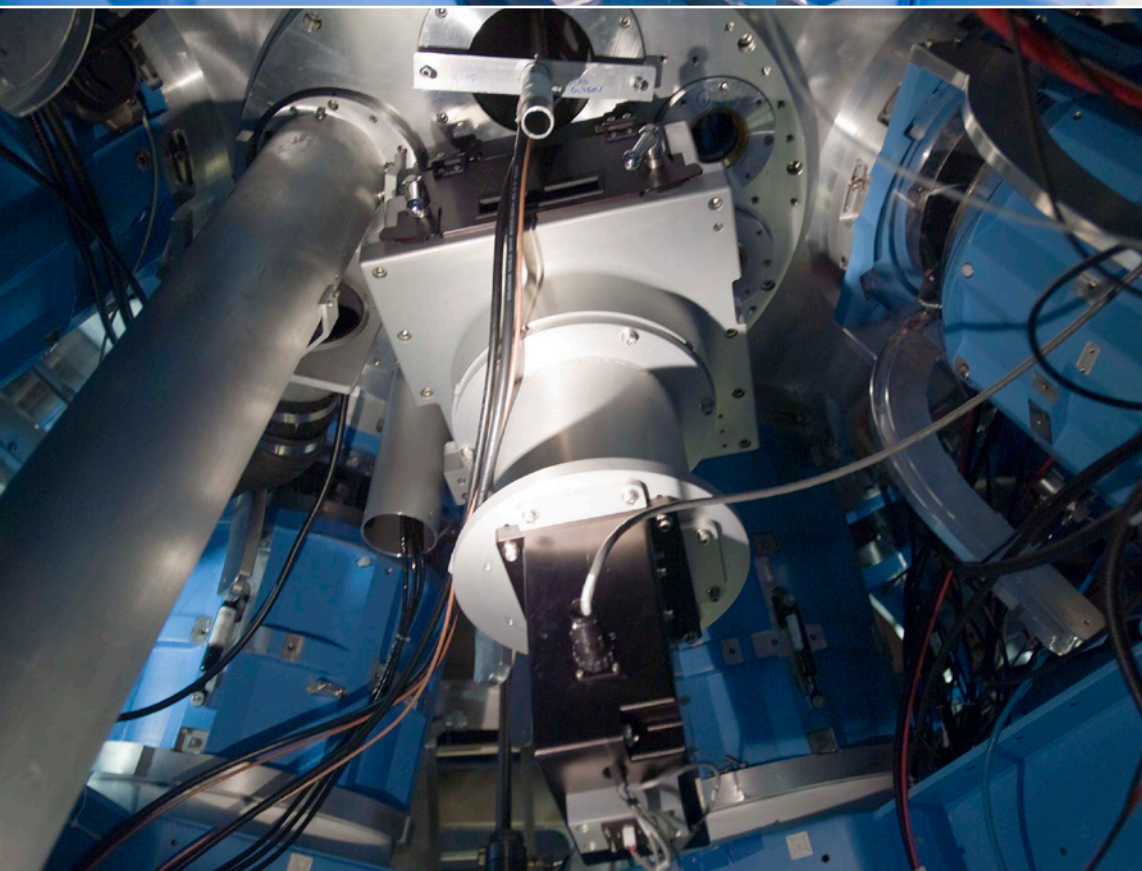
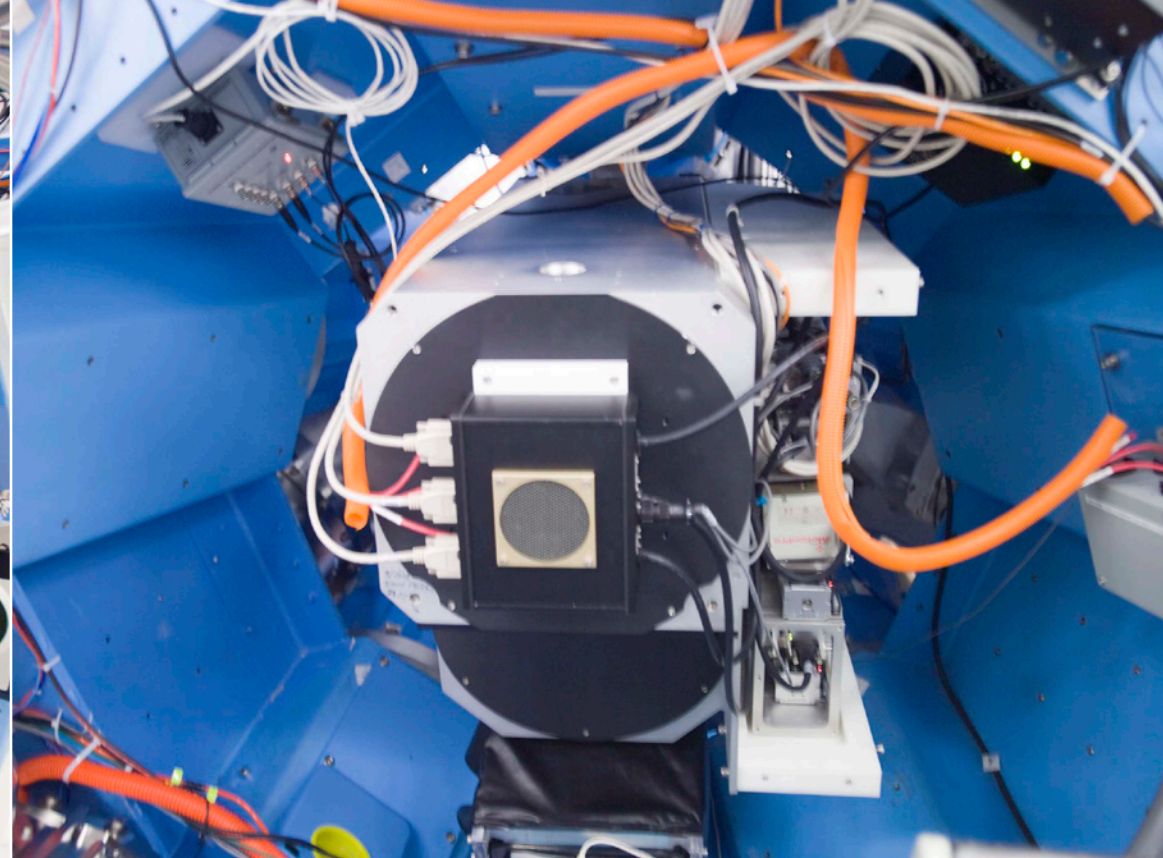
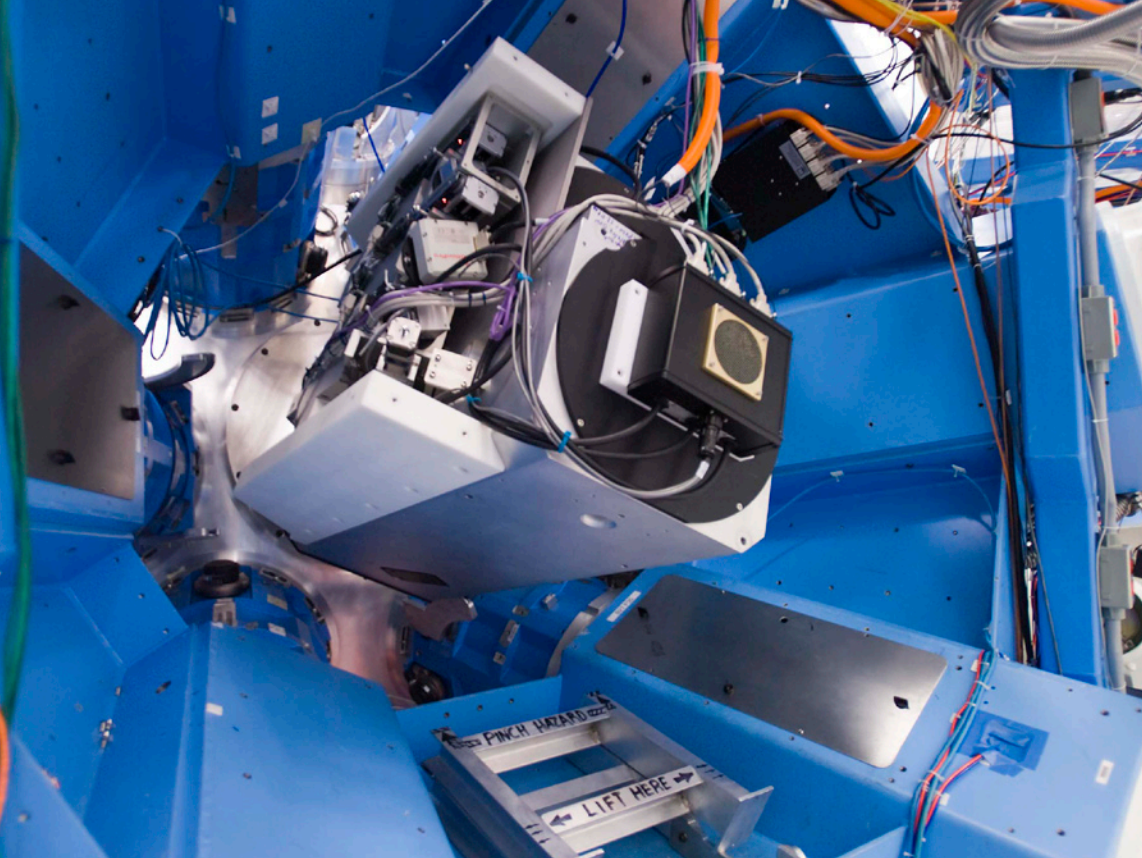





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NOVEMBER

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OMEGA Target Viewing System imagers (above, upper photos) and illuminators (above, lower photos) create high magnification images within the OMEGA target chamber. These instruments are used to align and characterize targets at chamber center.

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2009

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 2009 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 2010.



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for
LASER ENERGETICS
UNIVERSITY of ROCHESTER
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