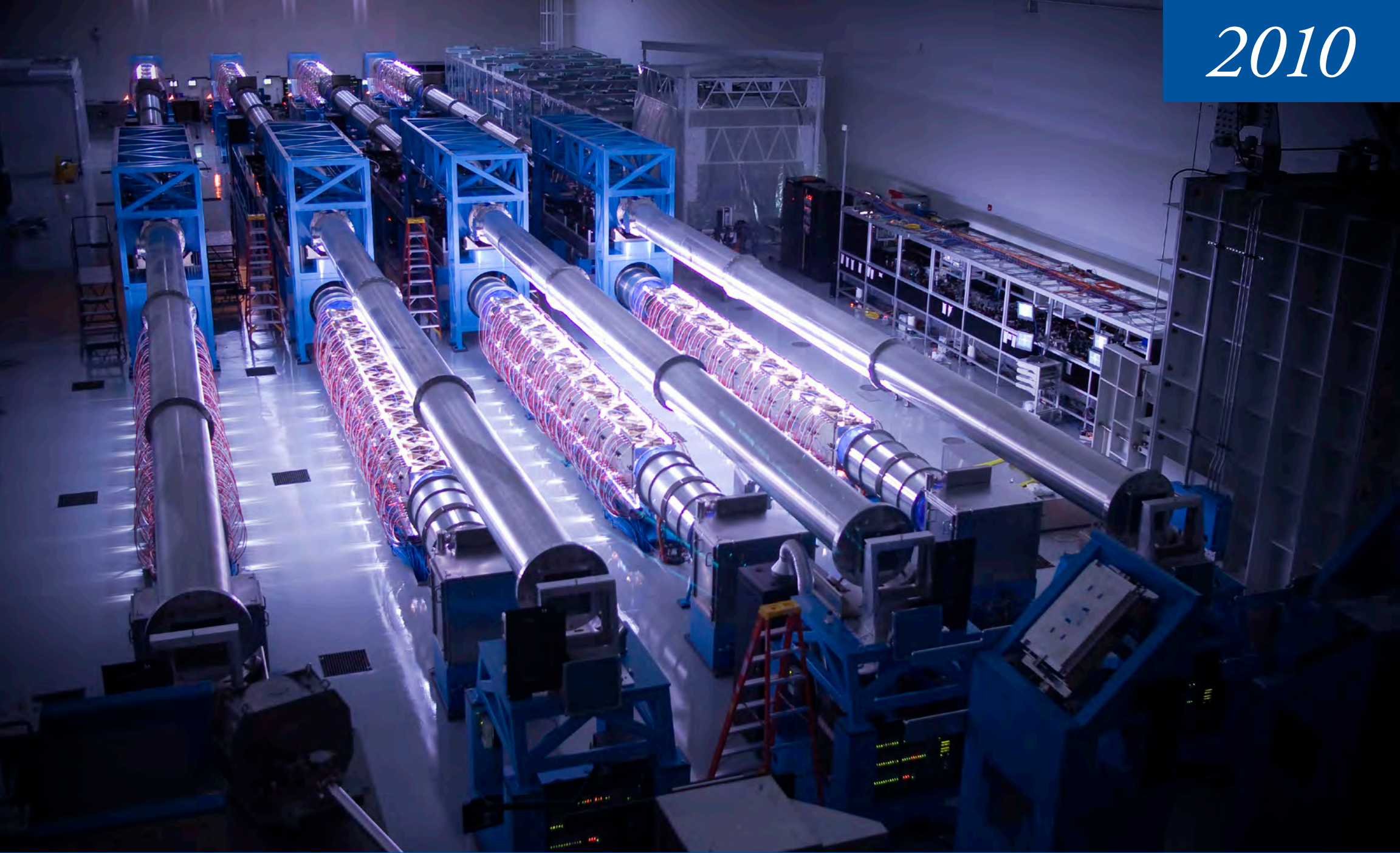


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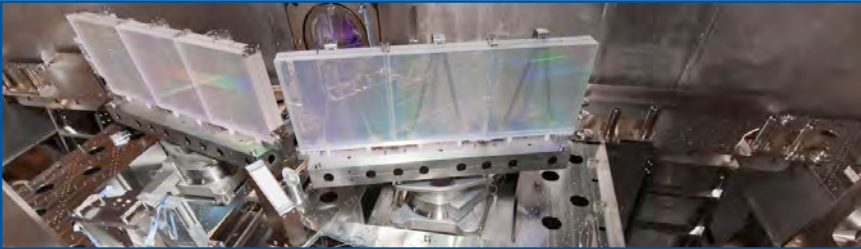
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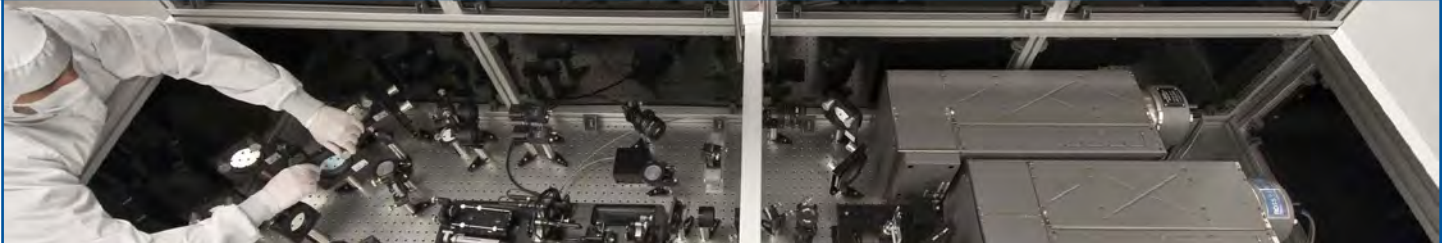
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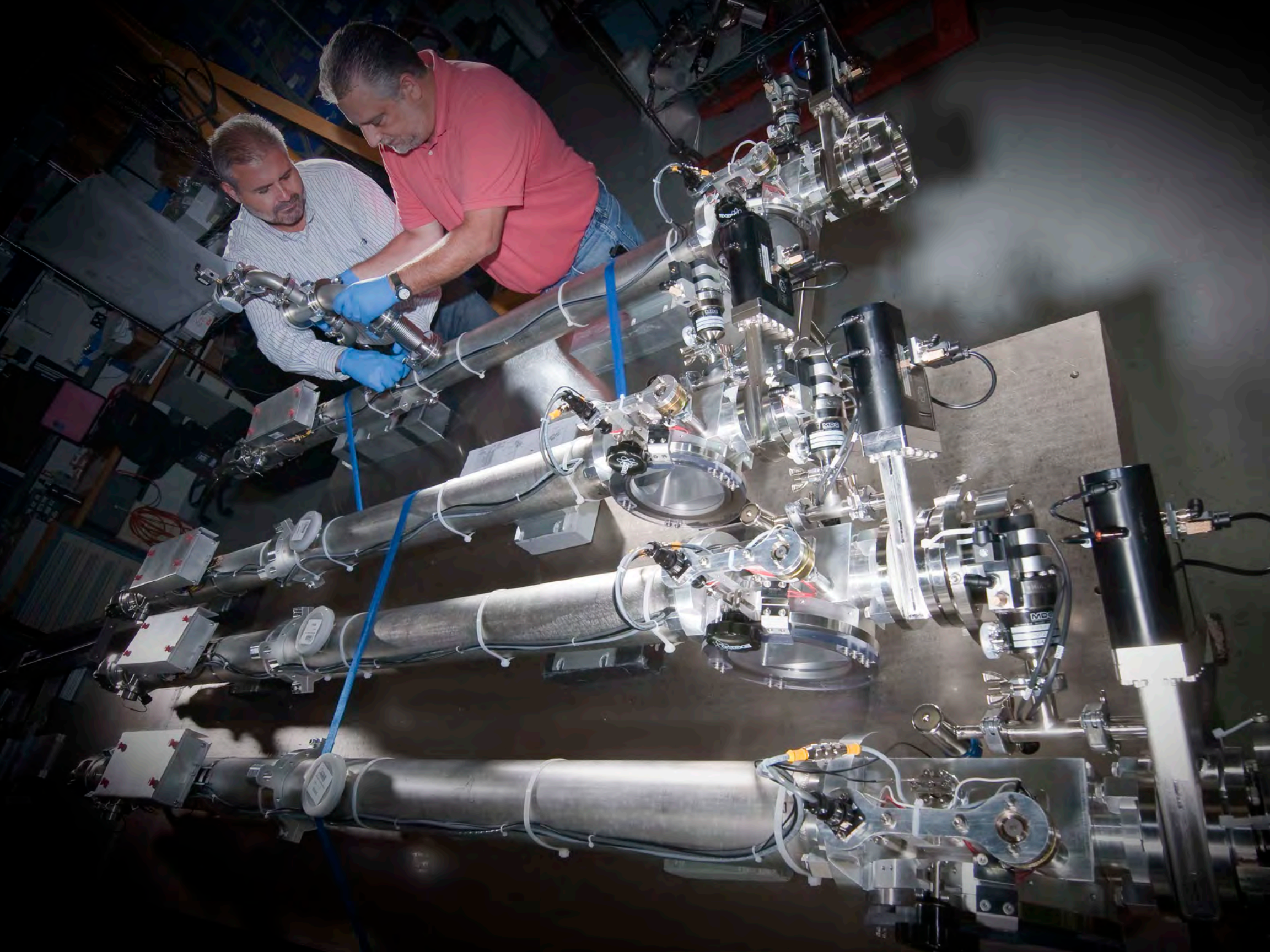
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FEBRUARY

2010



Nuclear Diagnostic Inserter

The nuclear diagnostic inserter (NDI) is used in conjunction with the MRS to insert CD or CH foils that are used to measure fusion-neutron spectra. These new NDI's will be used to insert WRFM's (wedged-range-filter modules) for various experiments.

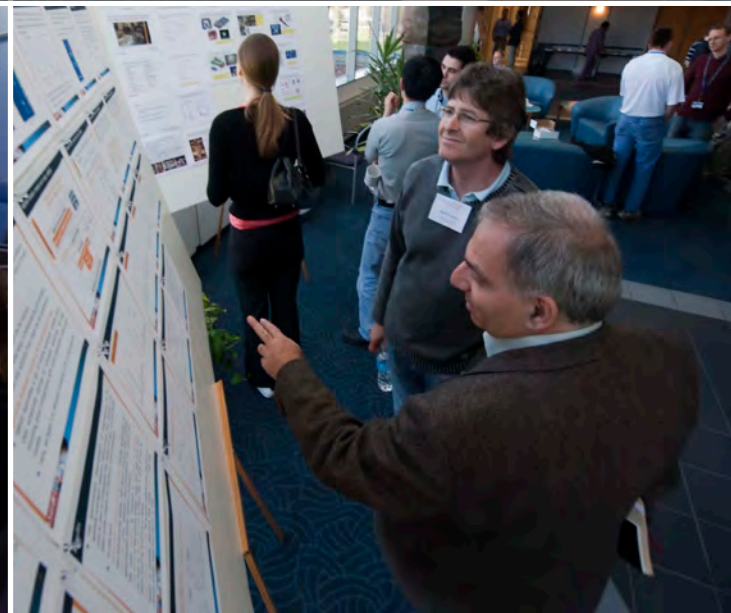
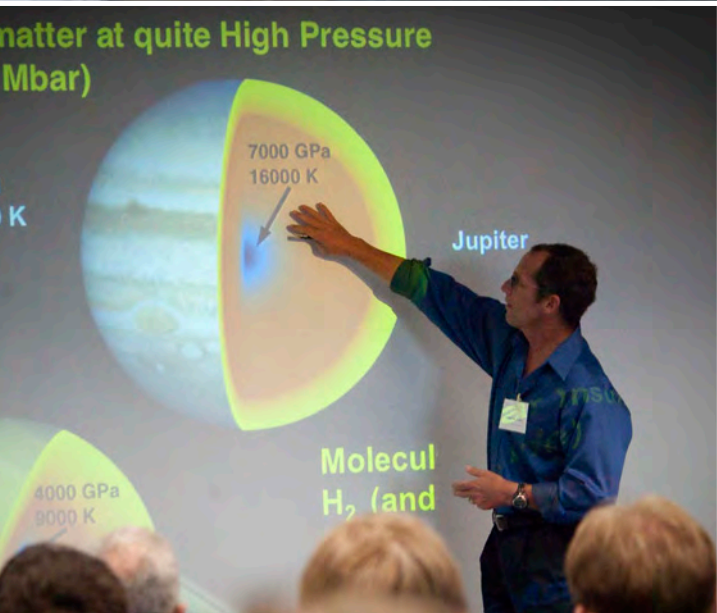
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MARCH

2010

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OLUG Workshop

The first Omega Laser Facility Users Group (OLUG) Workshop. The purpose of the workshop was to facilitate communication and exchanges among the individual users and between users and LLE and to present ongoing and proposed research that could be undertaken at the Omega Laser Facility.

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APRIL

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NLUF Jet Target

A target used for an OMEGA NLUF experiment carried out by a team from MIT's Plasma Science and Fusion Center to study jet formation using proton radiography. The large conical structure is used to shield the diagnostic systems from x-ray radiation generated by the laser beams.

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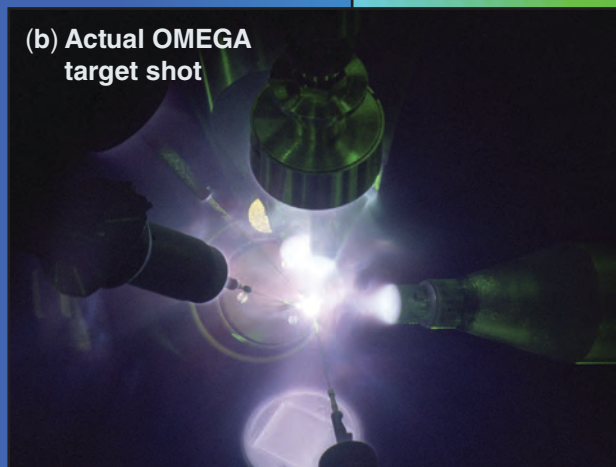
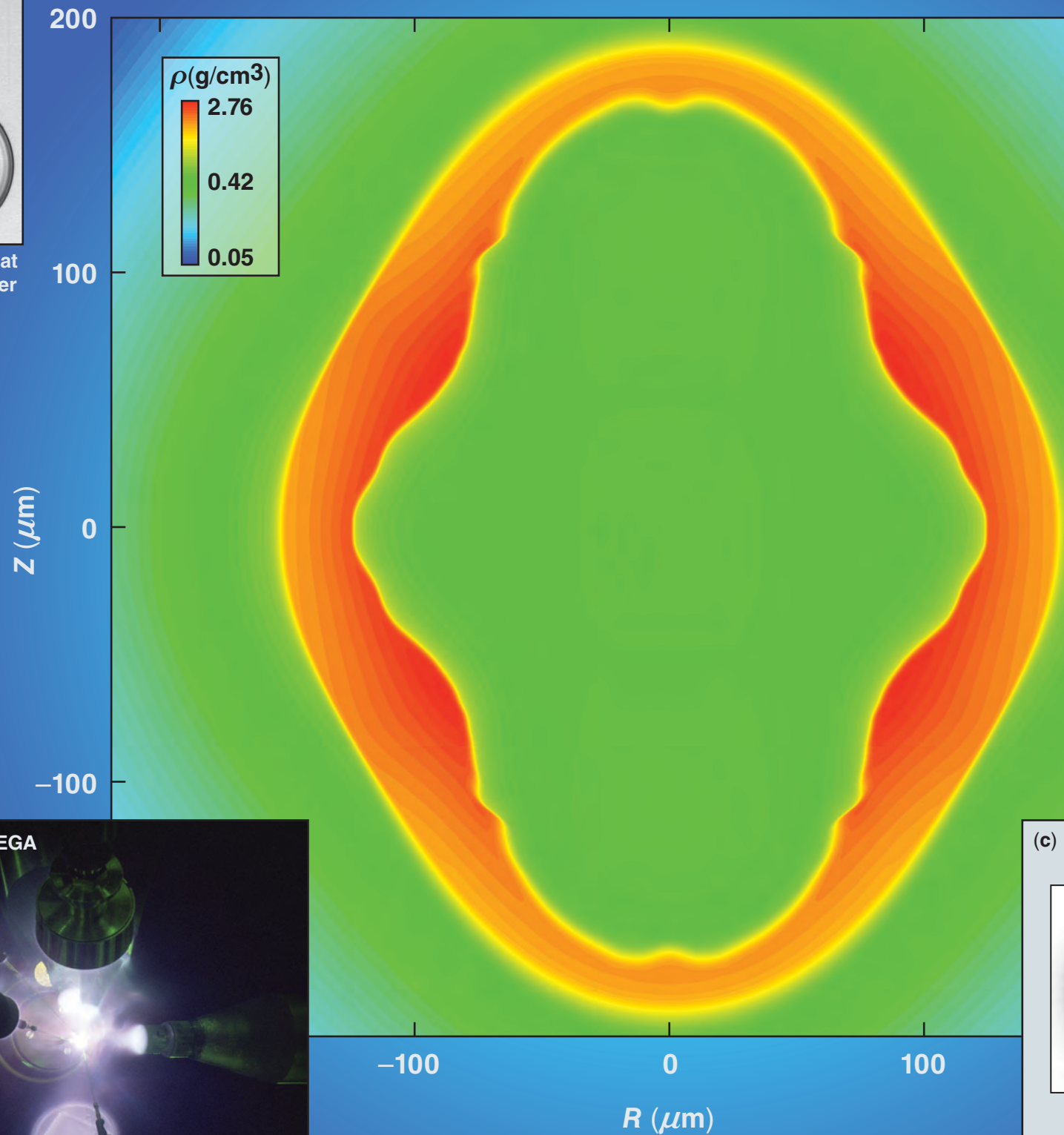
MAY 2010

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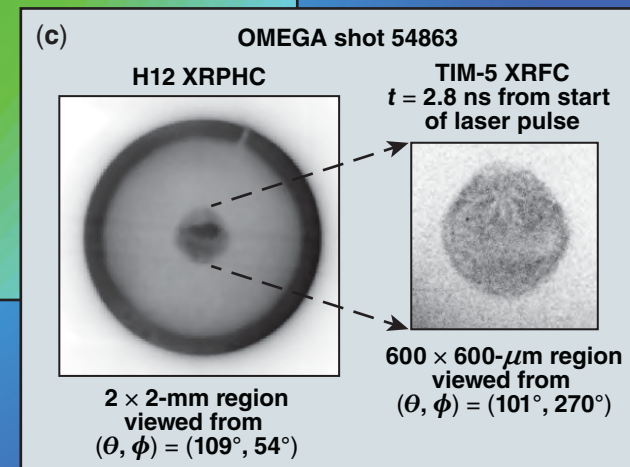
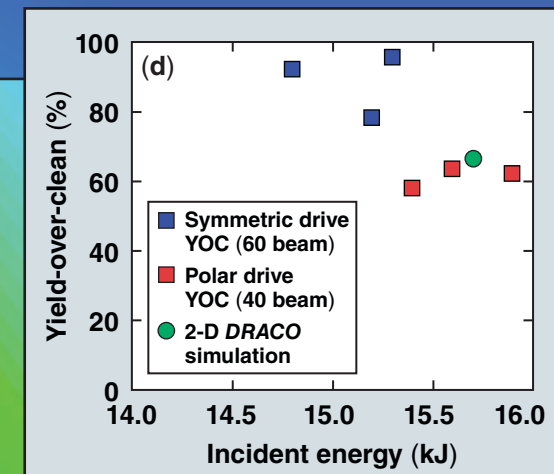




Target image at target chamber center

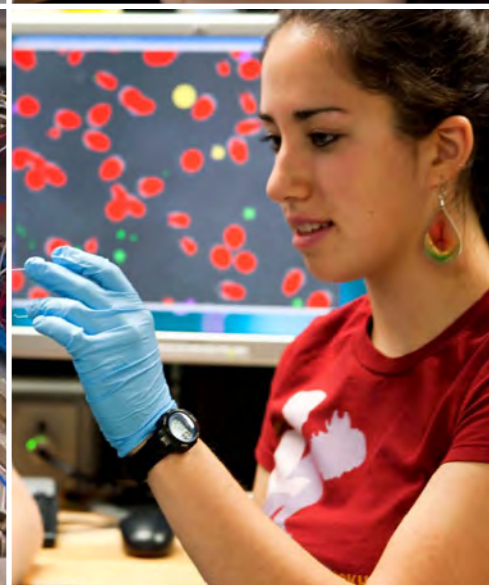
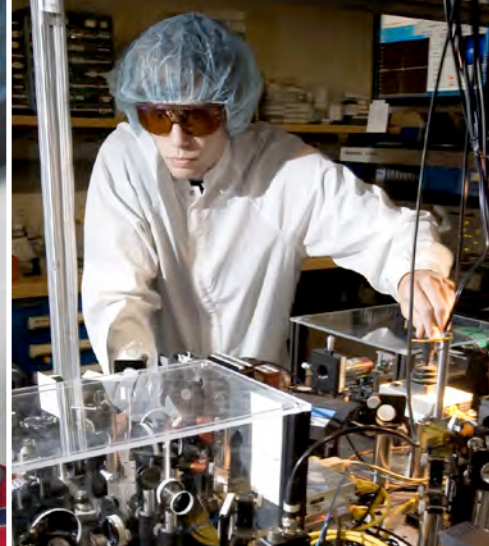
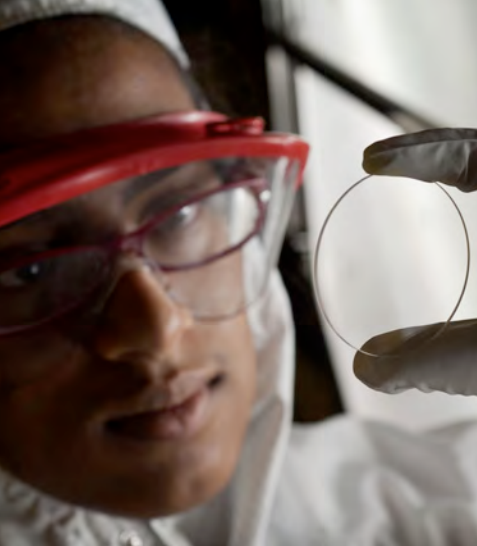


(b) Actual OMEGA target shot



(c) OMEGA shot 54863
H12 XRPHC
TIM-5 XRF
 $t = 2.8$ ns from start of laser pulse
2 x 2-mm region viewed from $(\theta, \phi) = (109^\circ, 54^\circ)$
600 x 600- μm region viewed from $(\theta, \phi) = (101^\circ, 270^\circ)$

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High School Program

Participants in LLE's 21st 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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OMEGA EP Firing

The OMEGA EP Laser Bay during a four-beam shot. With no bay lights on, the beamline structures are illuminated by a small amount of flash-lamp light that leaks out of the laser amplifiers.

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Left to right: Dr. R. L. McCrory/Director LLE, Brigadier General Garrett Harencak/Principal Assistant Deputy Administrator for Military Application—NNSA, RADM Gerald Talbot (USN-Ret.), and Dr. Gregory Simonson

OMEGA EP Target Chamber

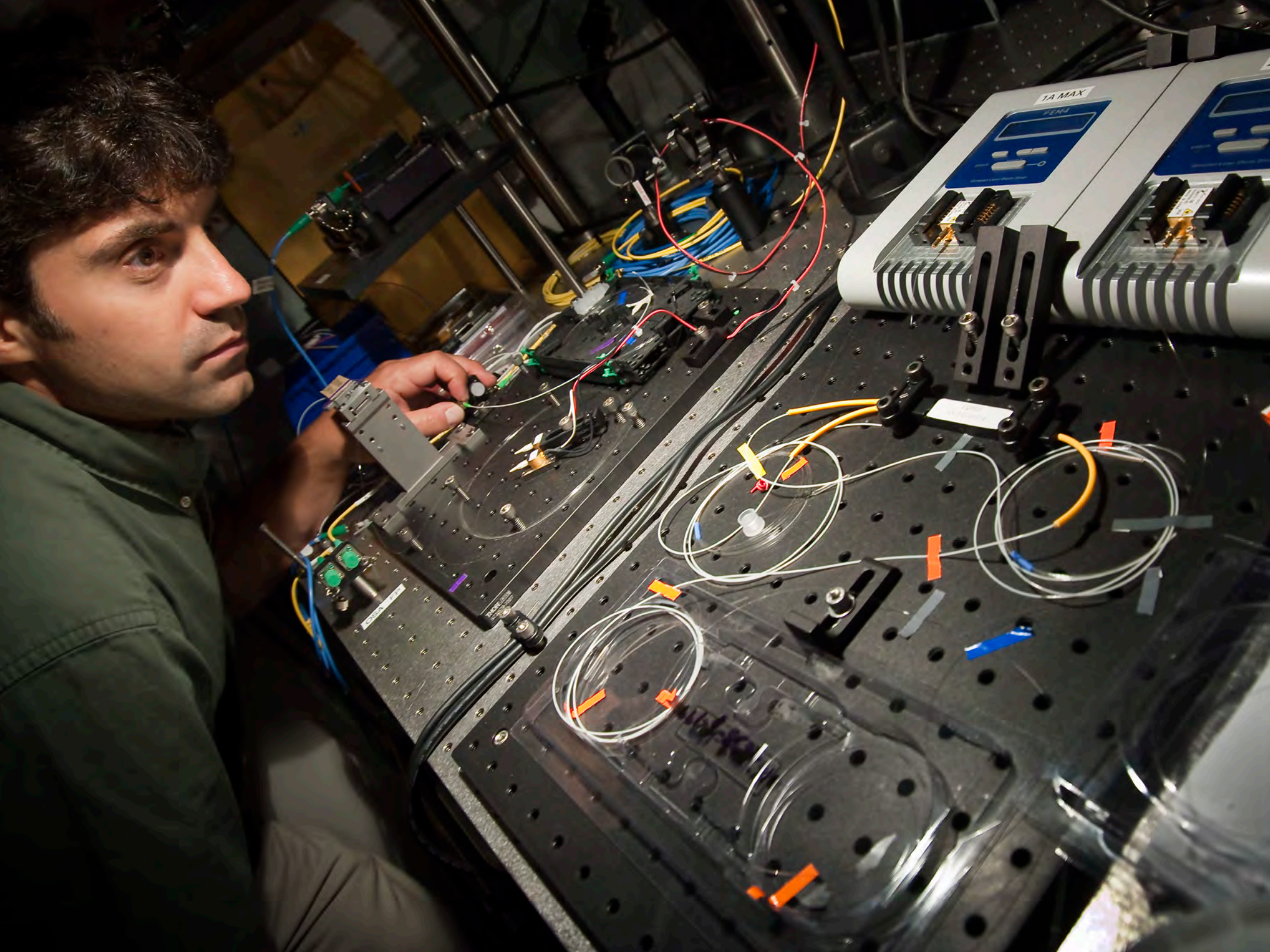
A view inside the OMEGA EP Target Chamber showing a collection of fixed diagnostics that have increased in quantity and experimental capabilities. Above inset: Brig. Gen. Harencak along with Mr. Talbot and Dr. Simonson visited LLE in November 2009.

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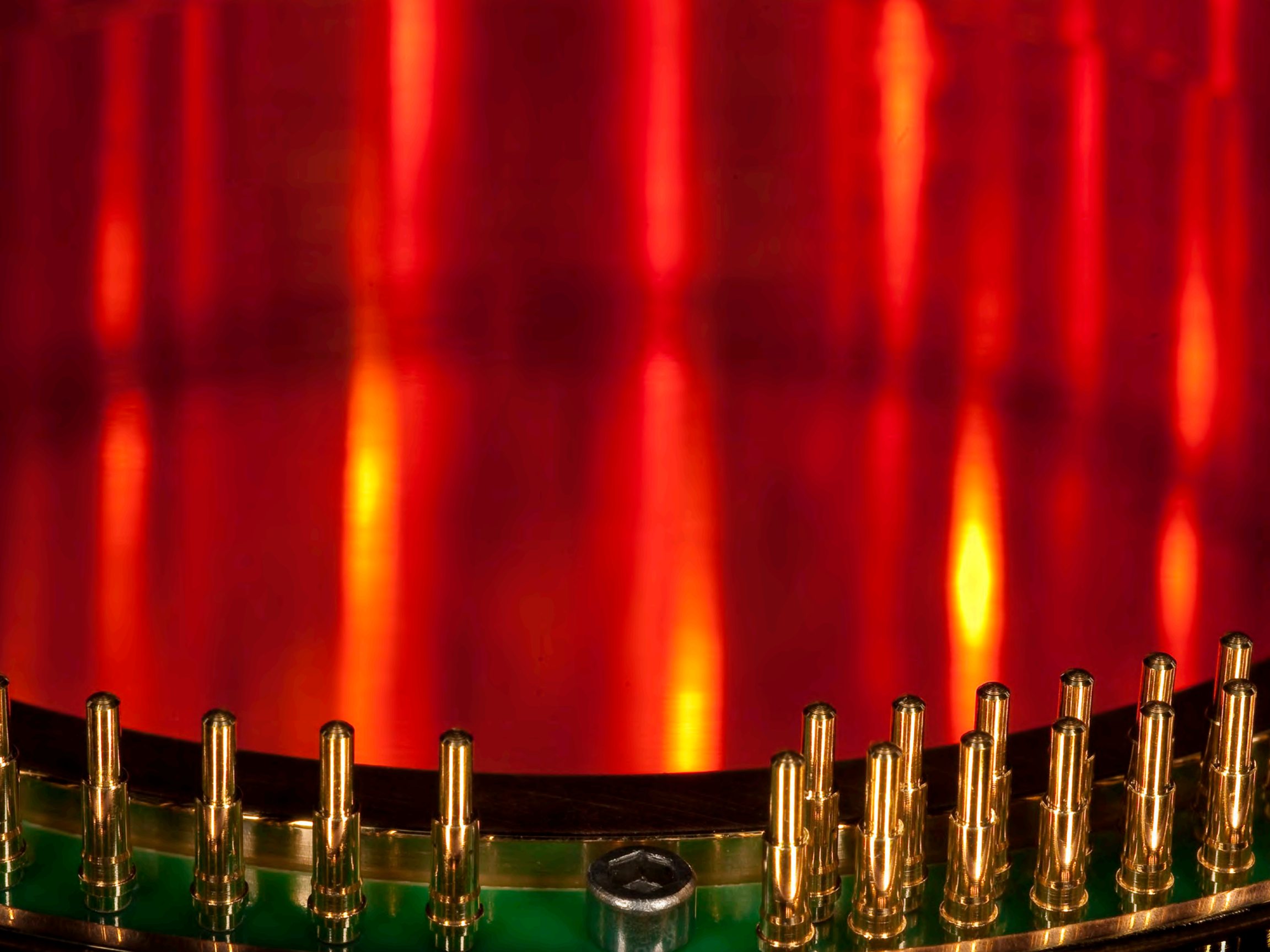


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The shroud interconnect circuit board mounted on the lower, intermediate shroud of the new moving cryostat. Used to provide an electrical connection to the heaters and temperature sensors mounted in the upper shrouds, these spring-loaded contacts disconnect when the upper and lower shrouds separate.

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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 2010 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.



LABORATORY
for
LASER ENERGETICS
UNIVERSITY of ROCHESTER
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LLE 

2010

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