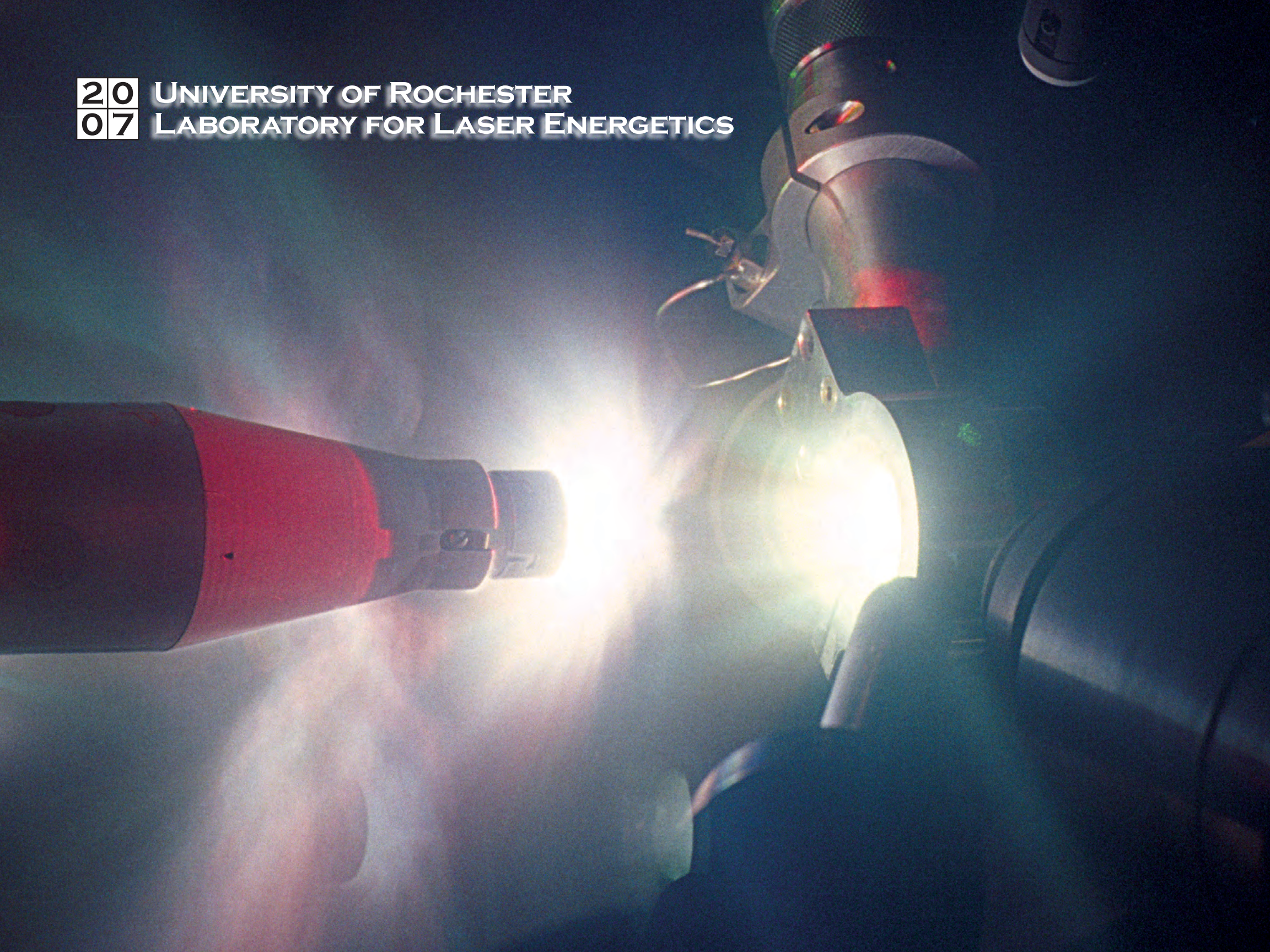


20 UNIVERSITY OF ROCHESTER
07 LABORATORY FOR LASER ENERGETICS



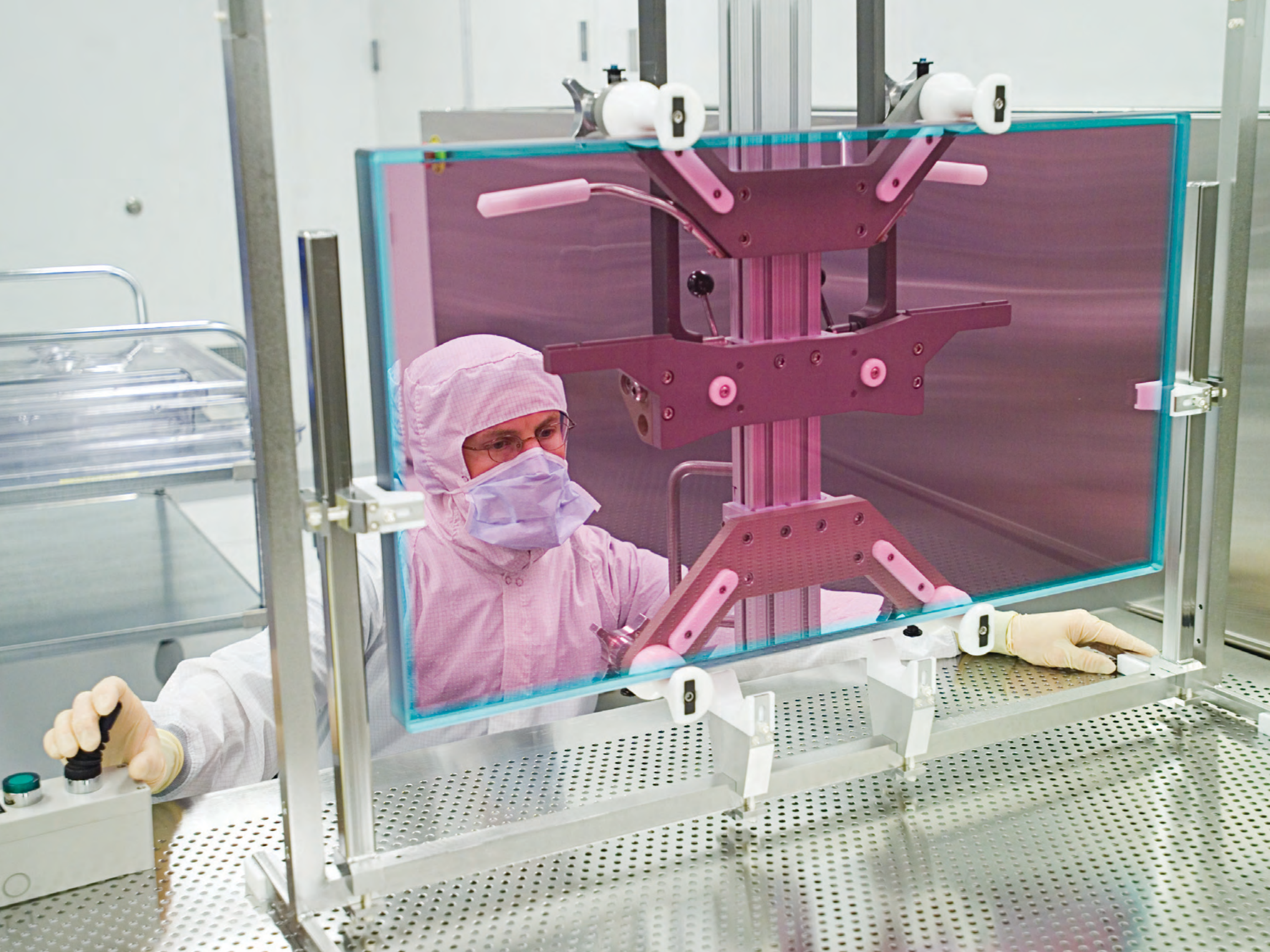


OMEGA EP LASER BAY

The OMEGA EP Laser Bay during construction and assembly in mid-2006.

JANUARY 2007


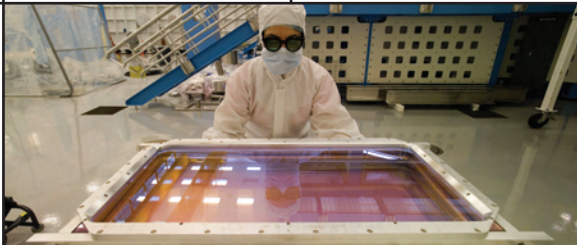
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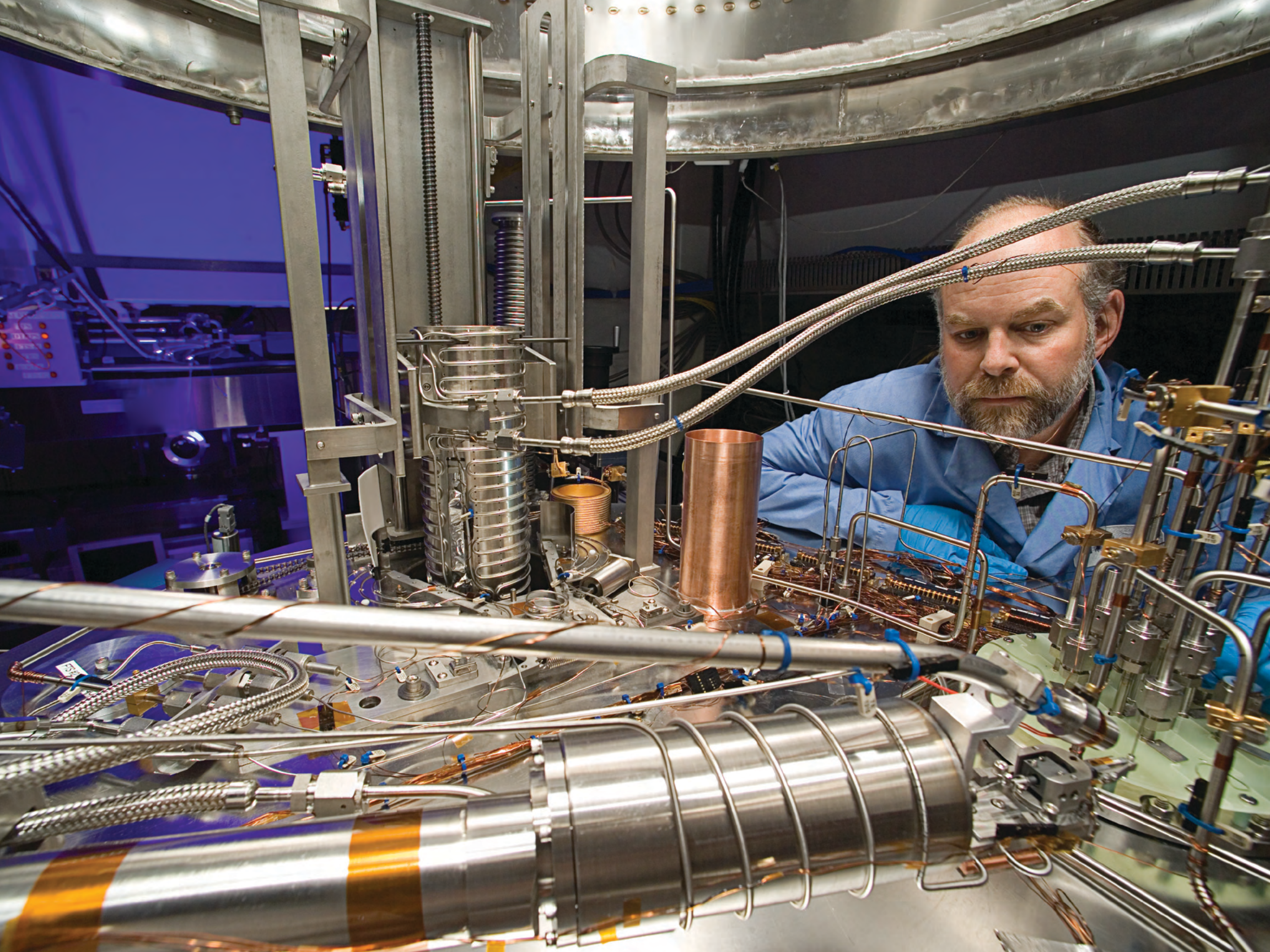


LASER GLASS

OMEGA EP amplifier Nd:glass disk after precision cleaning.

FEBRUARY 20 07

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TARGET FILL STATION

Cryogenic target Fill/Transfer Station 2 (FTS2) with the dome raised.

MARCH 2007

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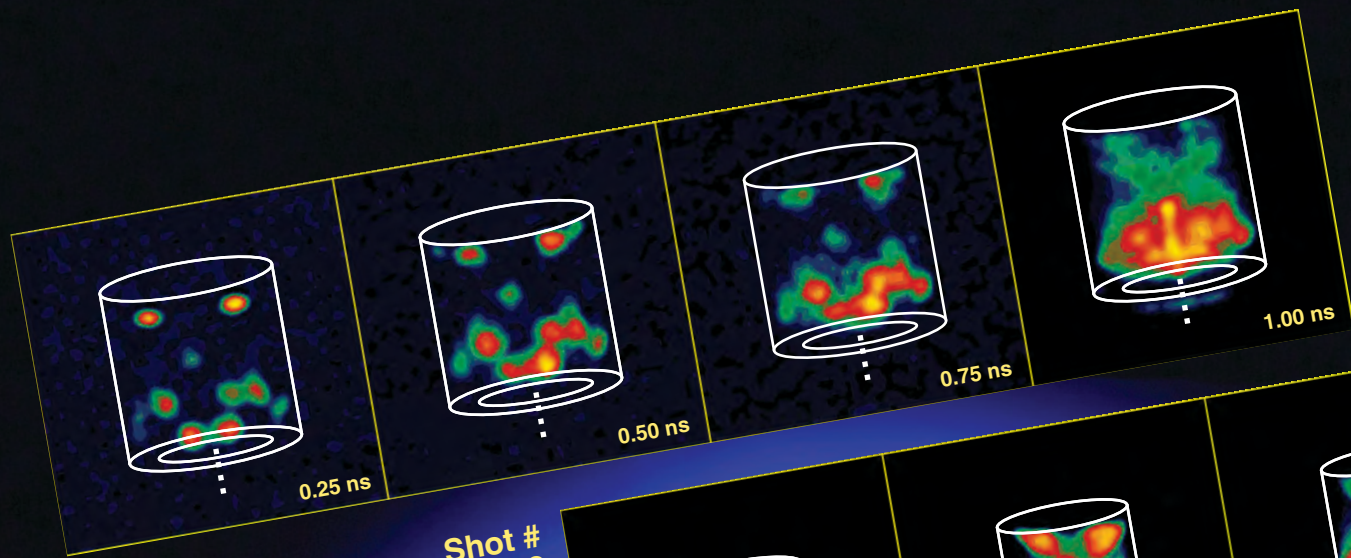
OMEGA EP POWER AMPLIFIER

OMEGA EP main amplifier showing 11 modules, each with one laser disk.

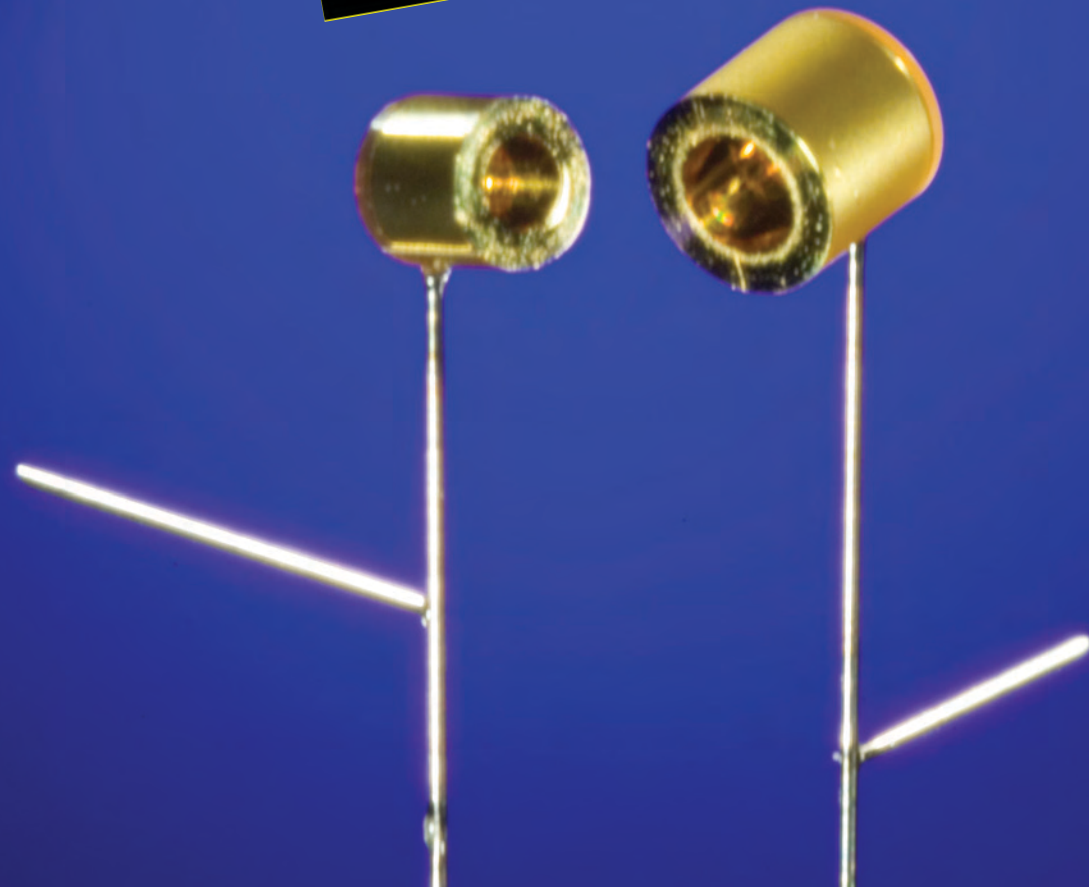
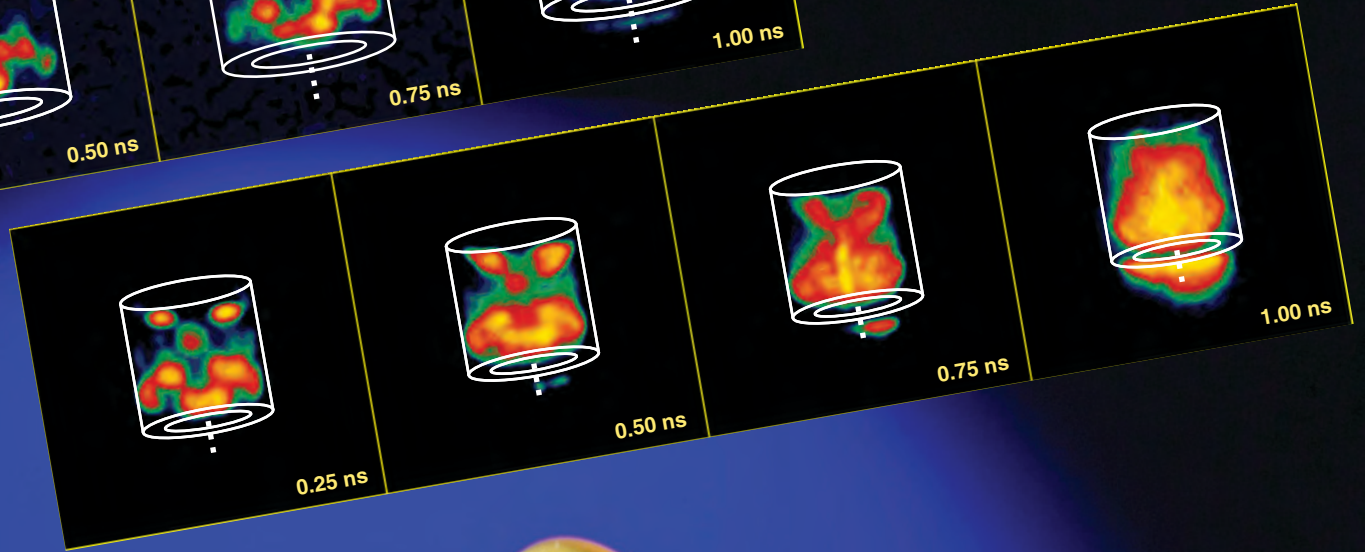
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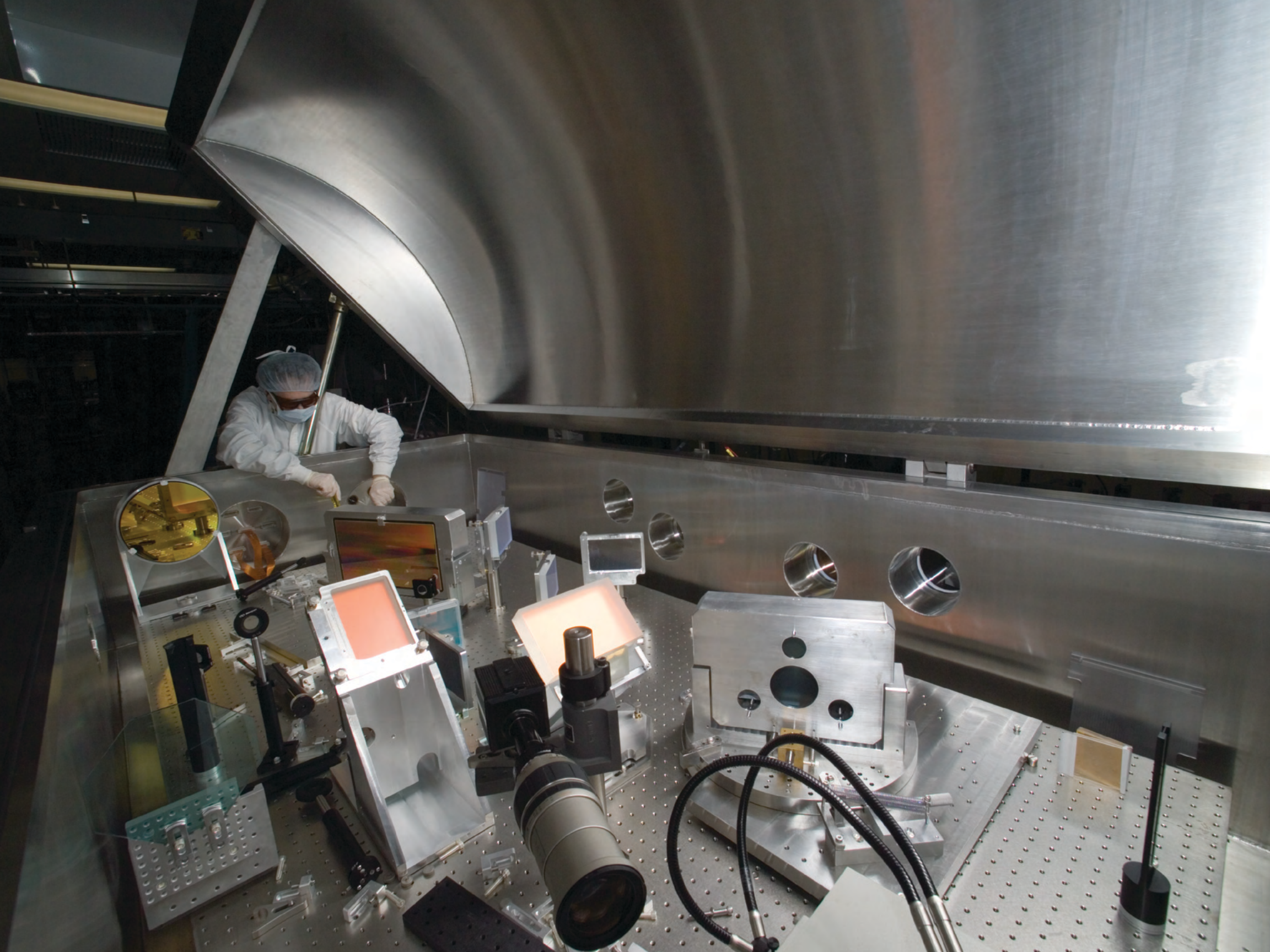


HOHLRAUM RADIATION HYDRODYNAMICS

Time evolution of hard-x-ray emission from scale-1 (upper: shot #42593) and scale-3/4 (lower: shot #42592) hohlraums irradiated on the OMEGA facility to study the effect of laser-beam smoothing with phase plates on the hohlraum performance.

MAY 2007

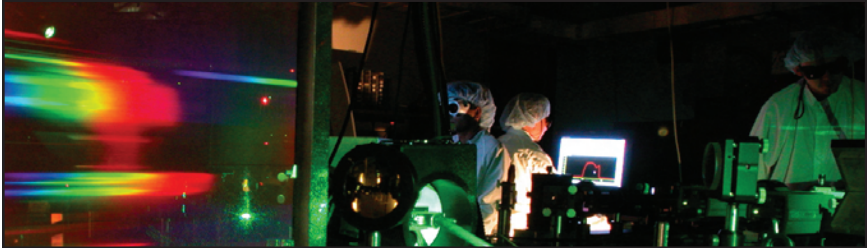
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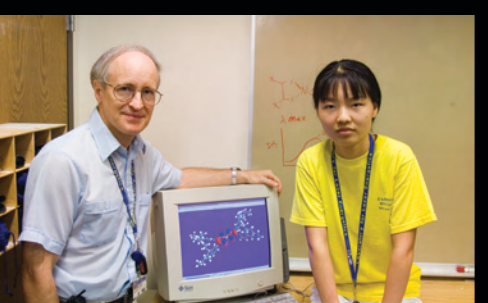
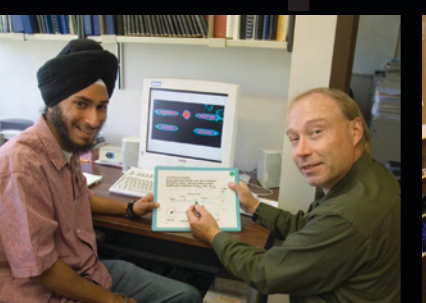
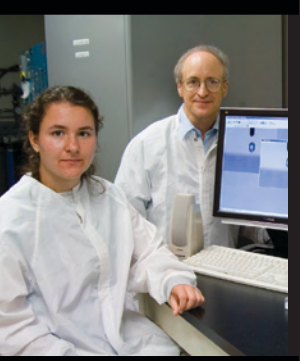
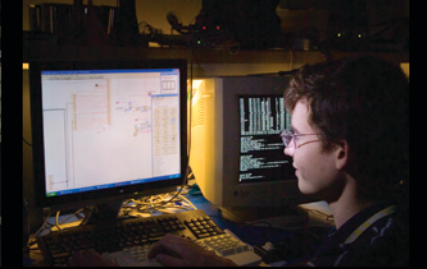
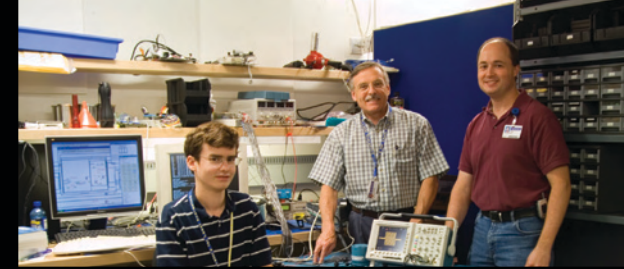
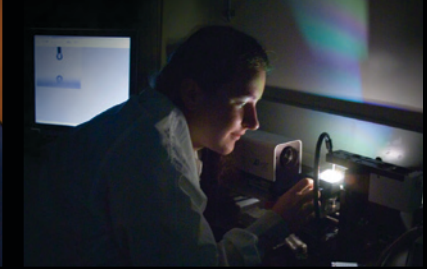


MTW GRATING-PULSE COMPRESSOR

Inside view of the laser system's MTW (multiterawatt) grating-pulse compressor.

JUNE 2007

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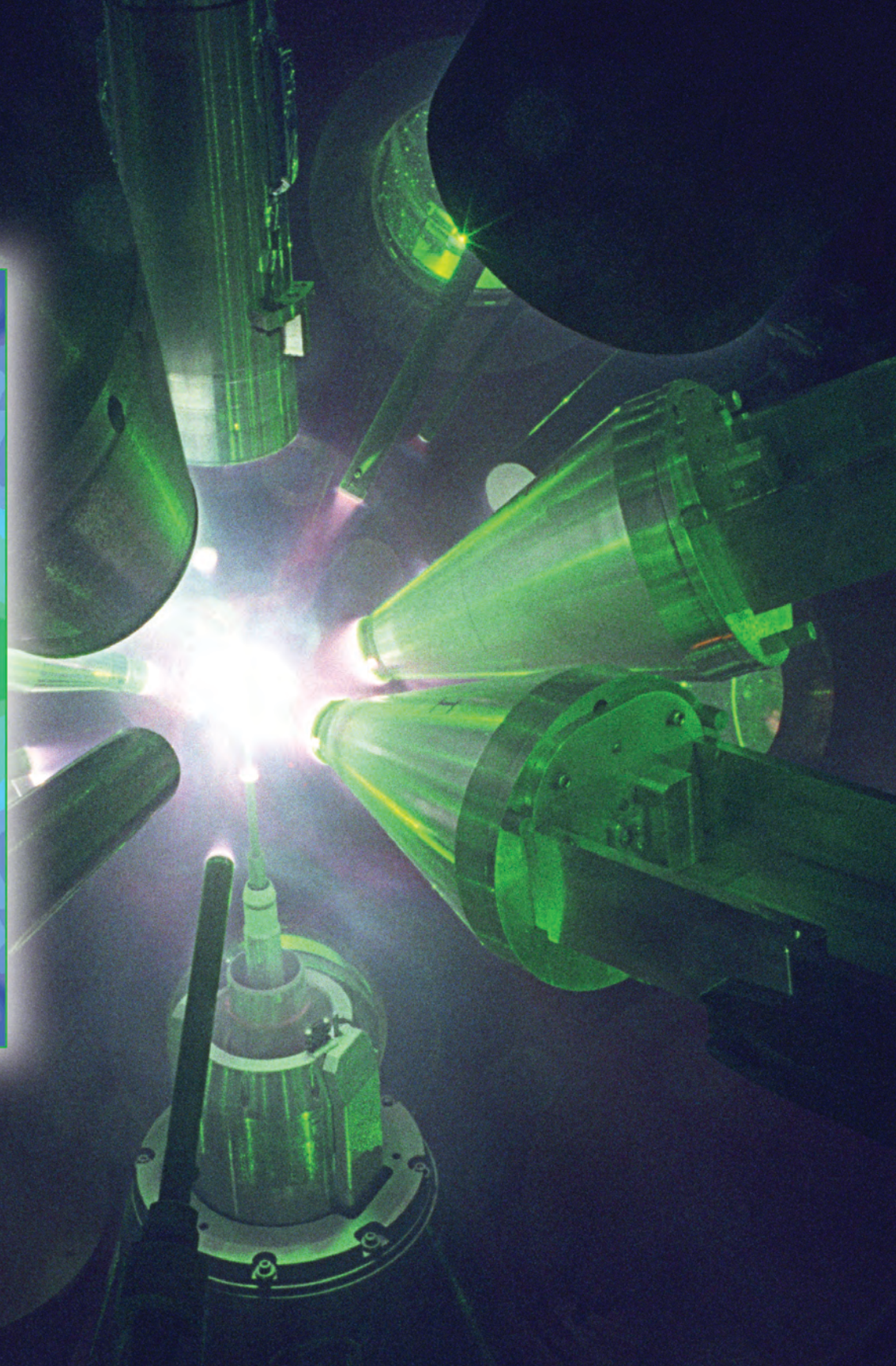
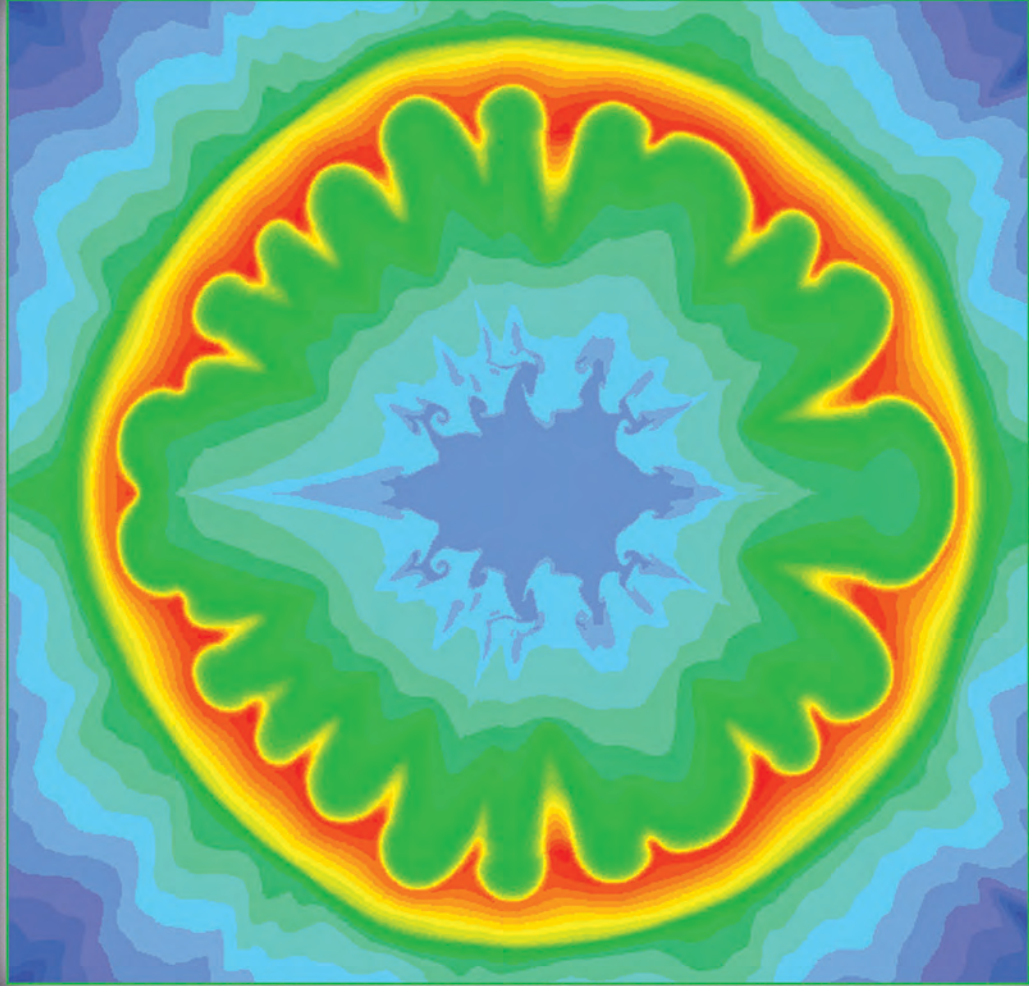


SUMMER HIGH SCHOOL RESEARCH PROGRAM

Participating high school students are provided an exceptional opportunity to experience scientific research by working on individual research projects supervised by a staff scientist at the Laboratory.

JULY 2007


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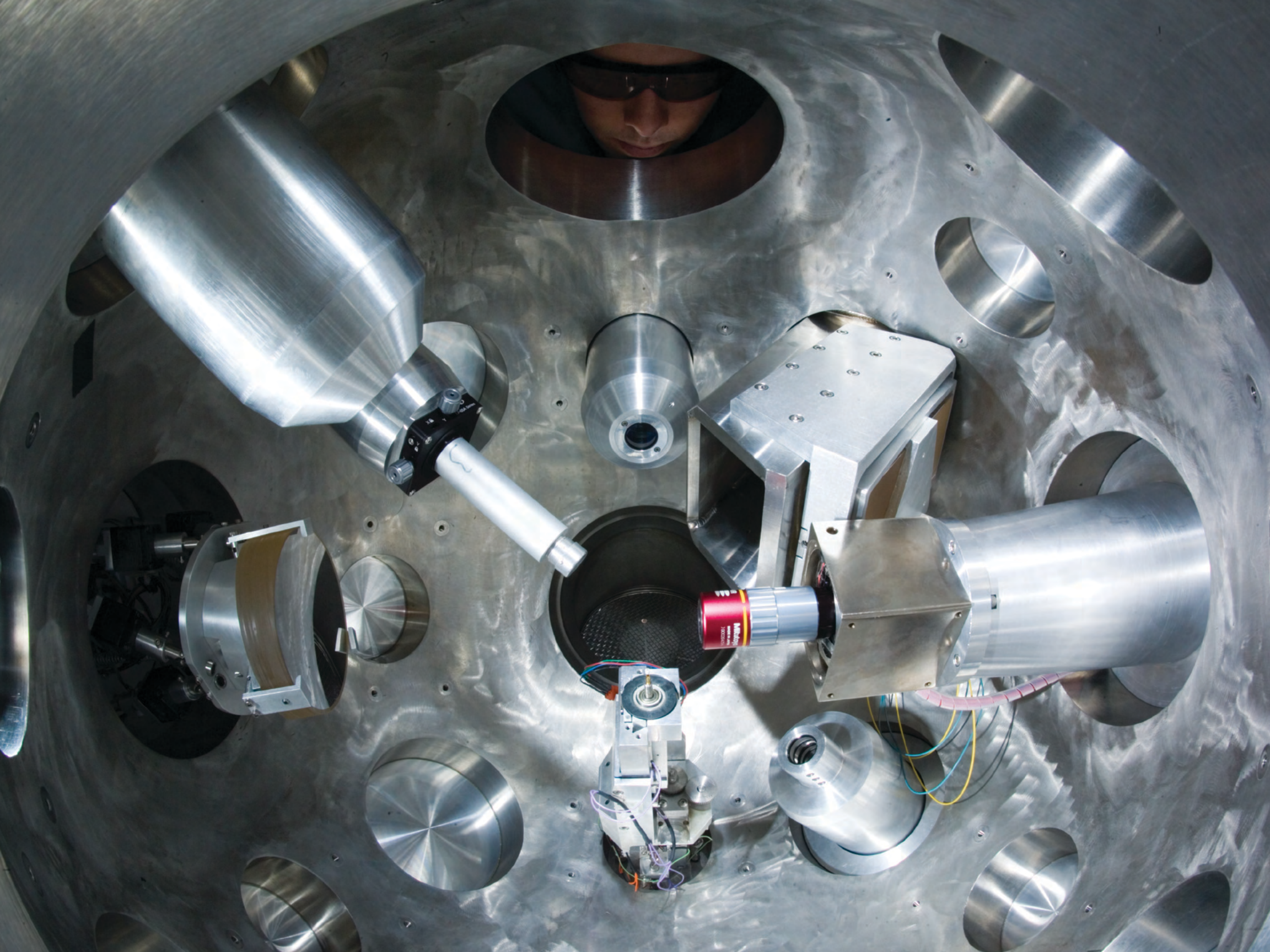


DRACO SIMULATION

The OMEGA cryogenic implosion campaign is designed to provide an experimental database to validate *DRACO* simulations of high-gain NIF ignition target designs.

AUGUST 20 07

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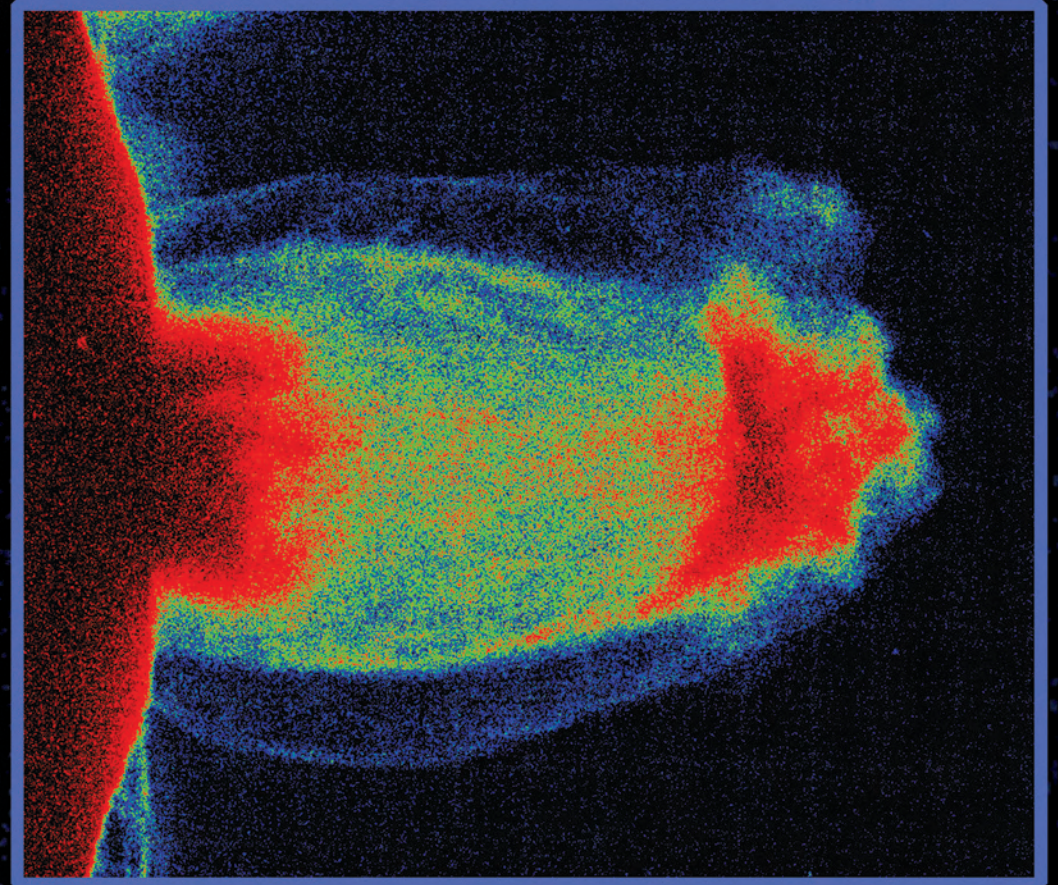
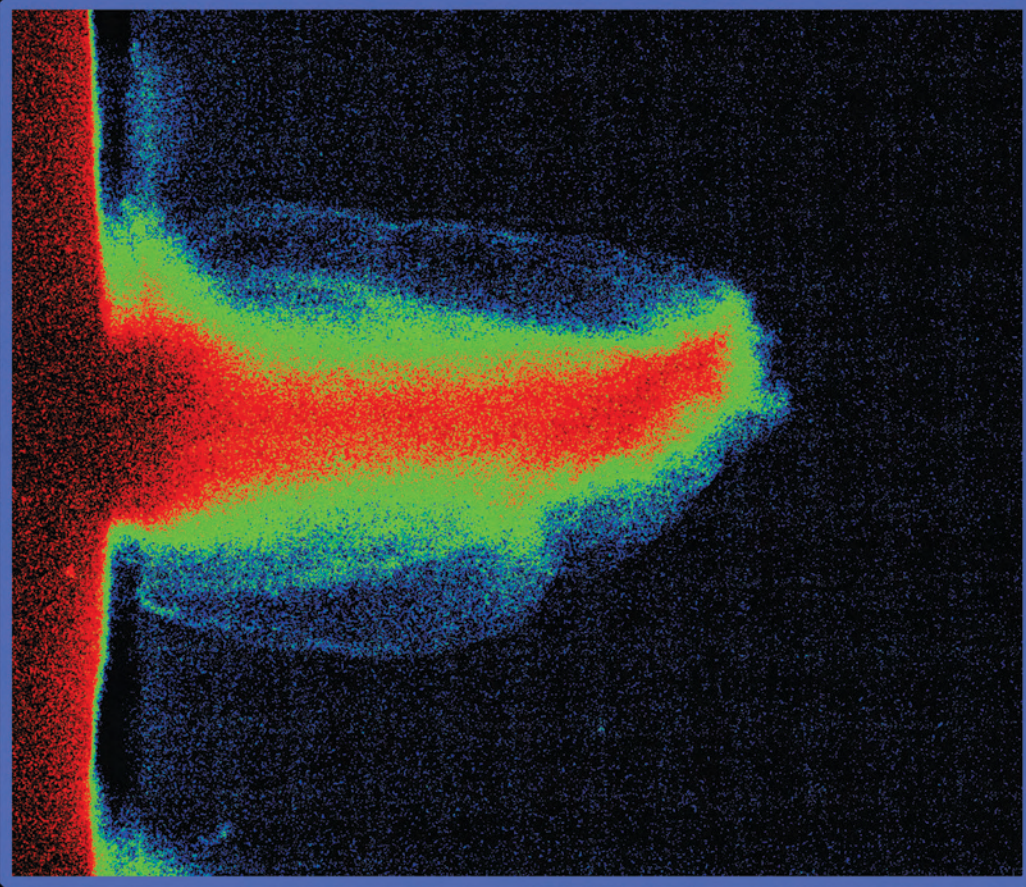


MTW FACILITY'S TARGET CHAMBER

View of the inside of the MTW (multiterawatt) facility's target chamber.

SEPTEMBER 20 07

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*evolution of
a hydrodynamic jet*

HYDRODYNAMIC JET

X-ray radiogram showing the evolution of a hydrodynamic jet in an experiment carried out on OMEGA.

OCTOBER 20 07


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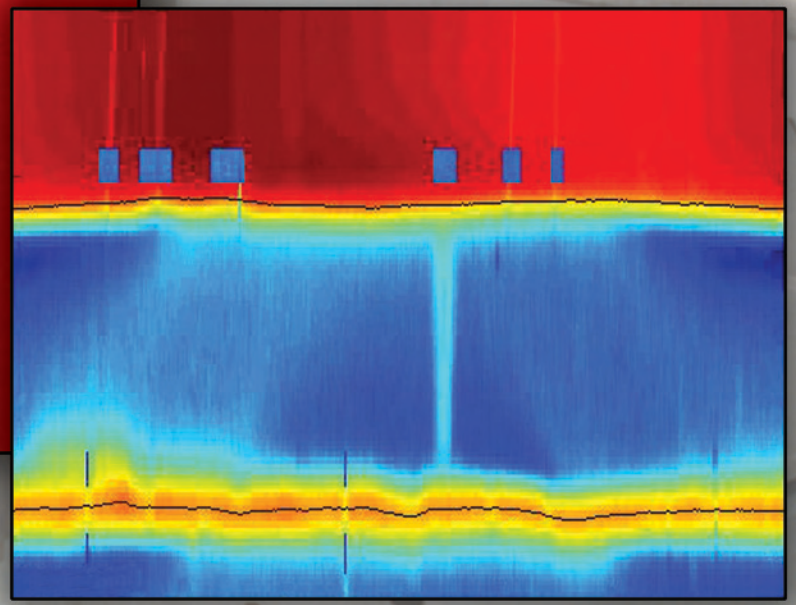
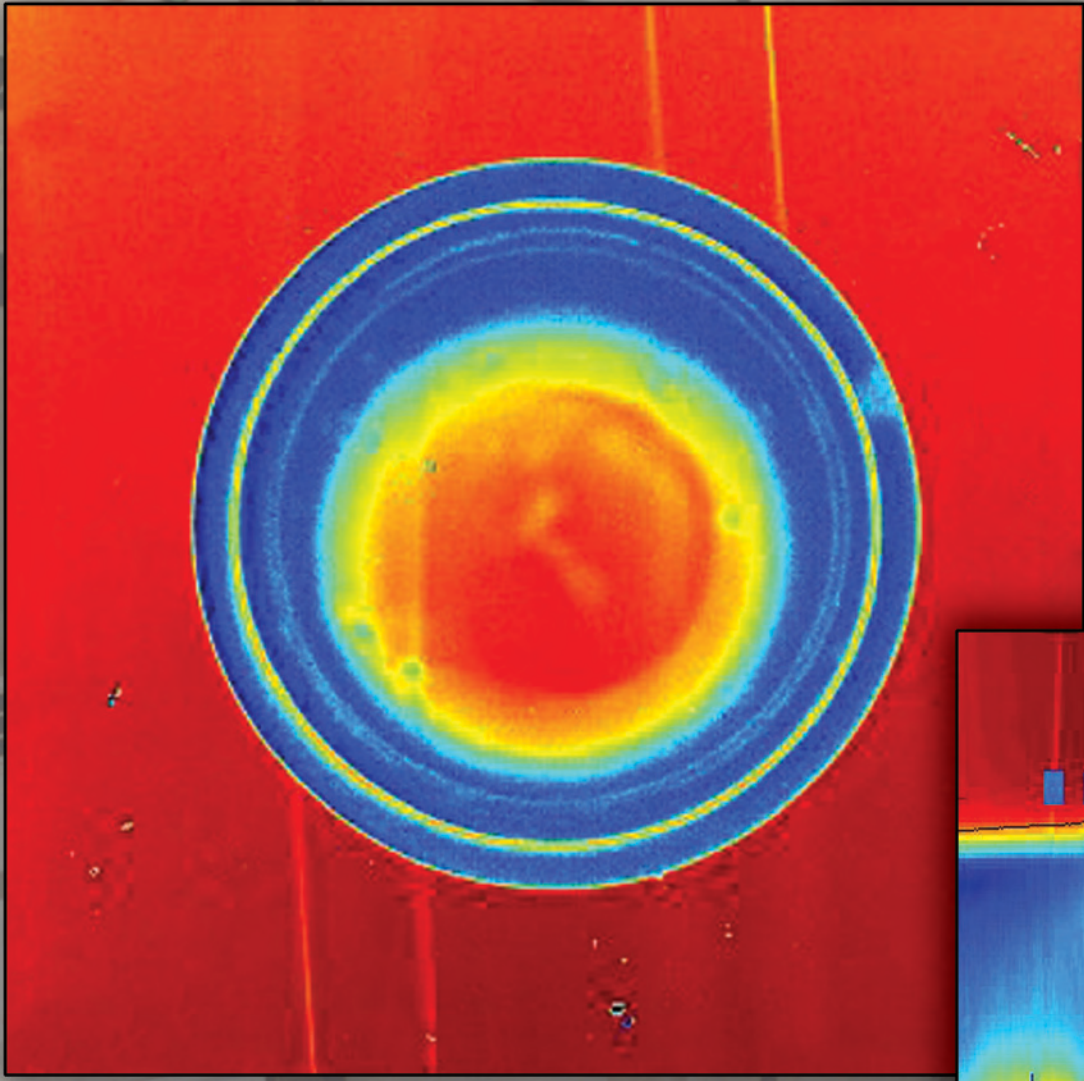
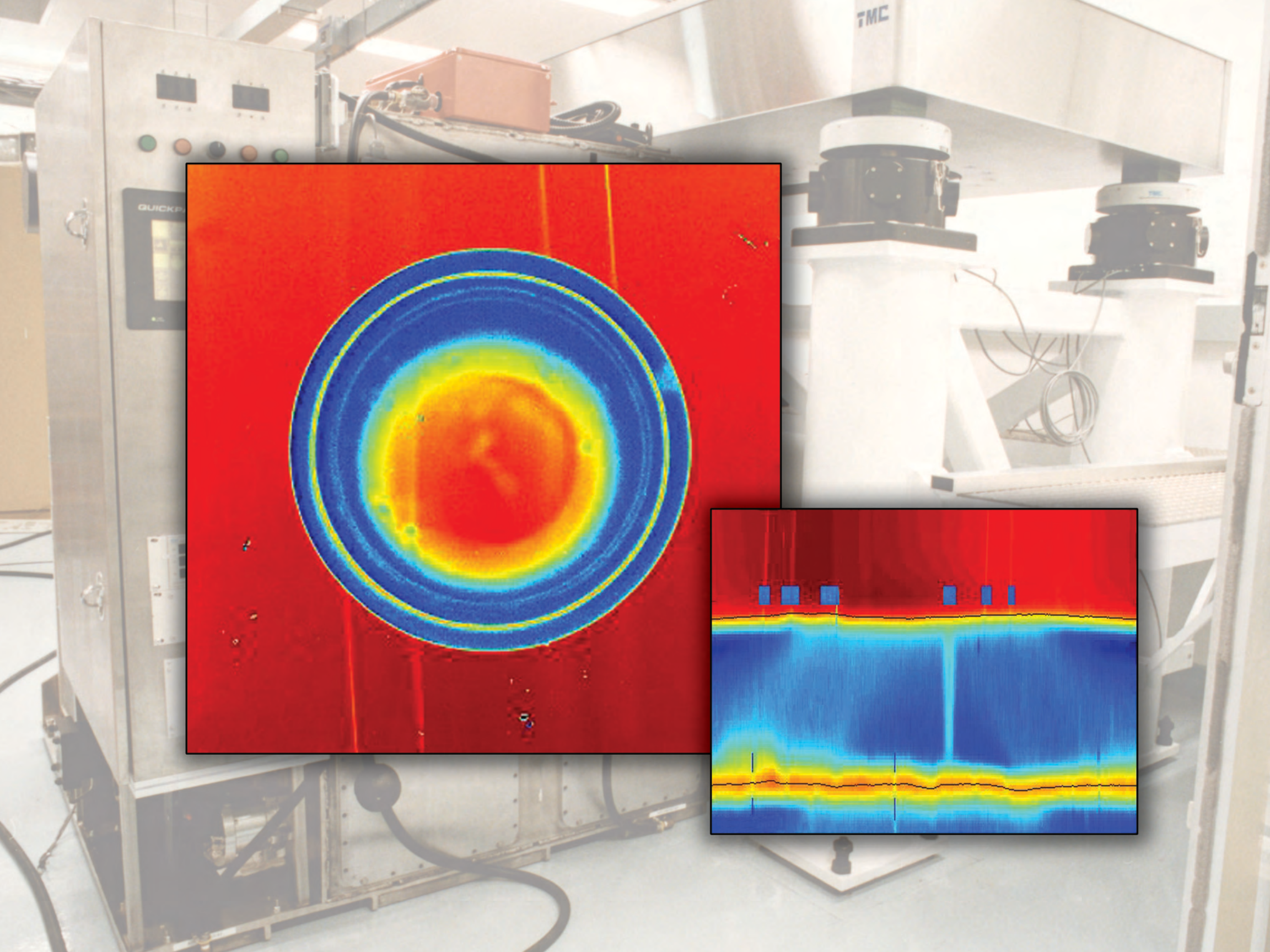


OMEGA TARGET CHAMBER

Relocating the BL49 focus lens assembly on the OMEGA target chamber to facilitate OMEGA EP connection to OMEGA.

NOVEMBER 2007

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CRYOGENIC TARGET CHARACTERIZATION

Shadowgraph (left) and unfolded ice layer smoothness plot (right) of OMEGA cryogenic DT target.

DECEMBER 20 07

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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 the 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 2007 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 2007.



LABORATORY
for
LASER ENERGETICS
UNIVERSITY of ROCHESTER
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					1	
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

OCTOBER

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

NOVEMBER

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

DECEMBER

S	M	T	W	T	F	S
					1	
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

20
08

JANUARY

S	M	T	W	T	F	S
	1	2	3	4	5	
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

FEBRUARY

S	M	T	W	T	F	S
				1	2	
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	

MARCH

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

APRIL

S	M	T	W	T	F	S
	1	2	3	4	5	
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

MAY

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

JUNE

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

JULY

S	M	T	W	T	F	S
	1	2	3	4	5	
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

AUGUST

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

SEPTEMBER

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

OCTOBER

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

NOVEMBER

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

DECEMBER

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

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