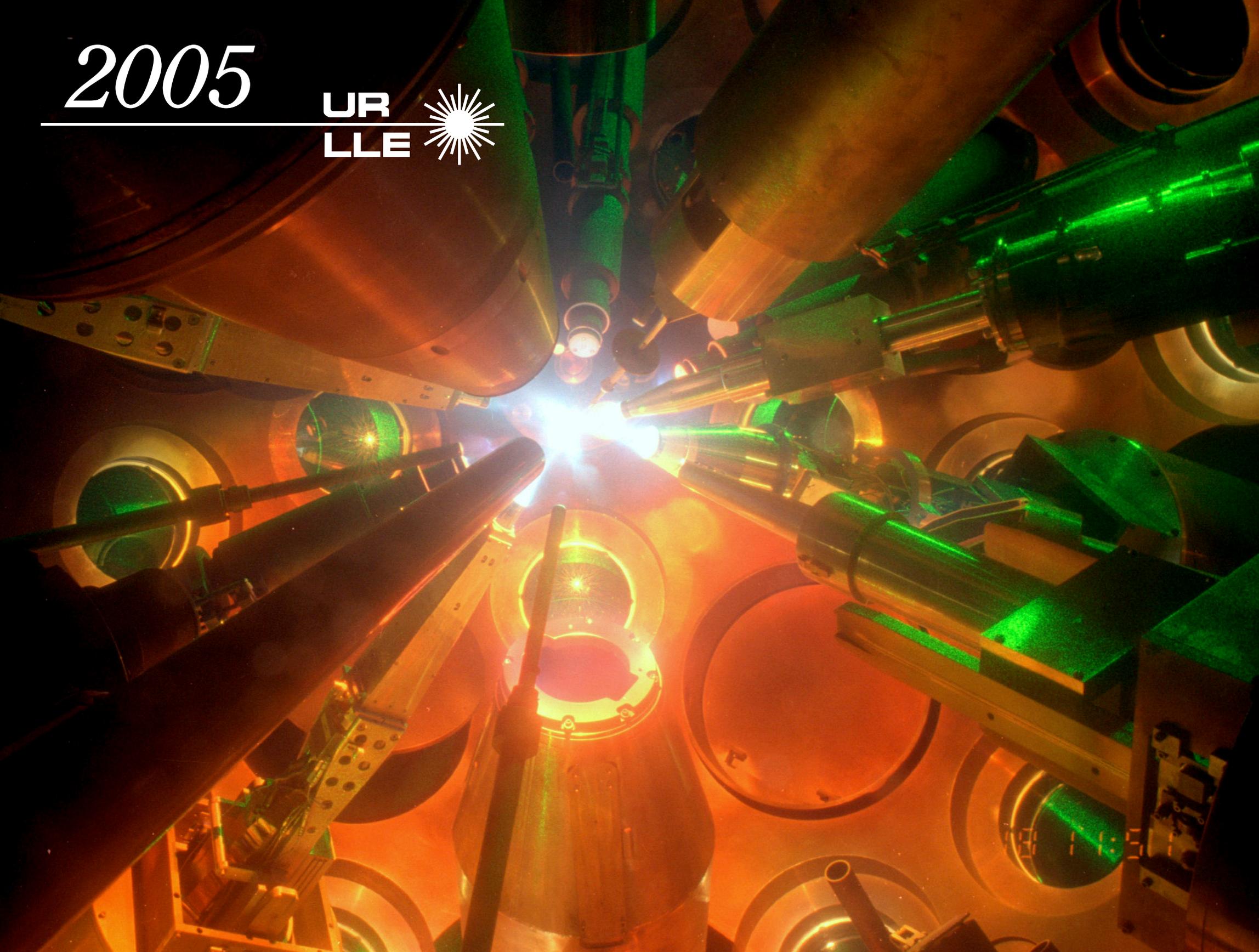
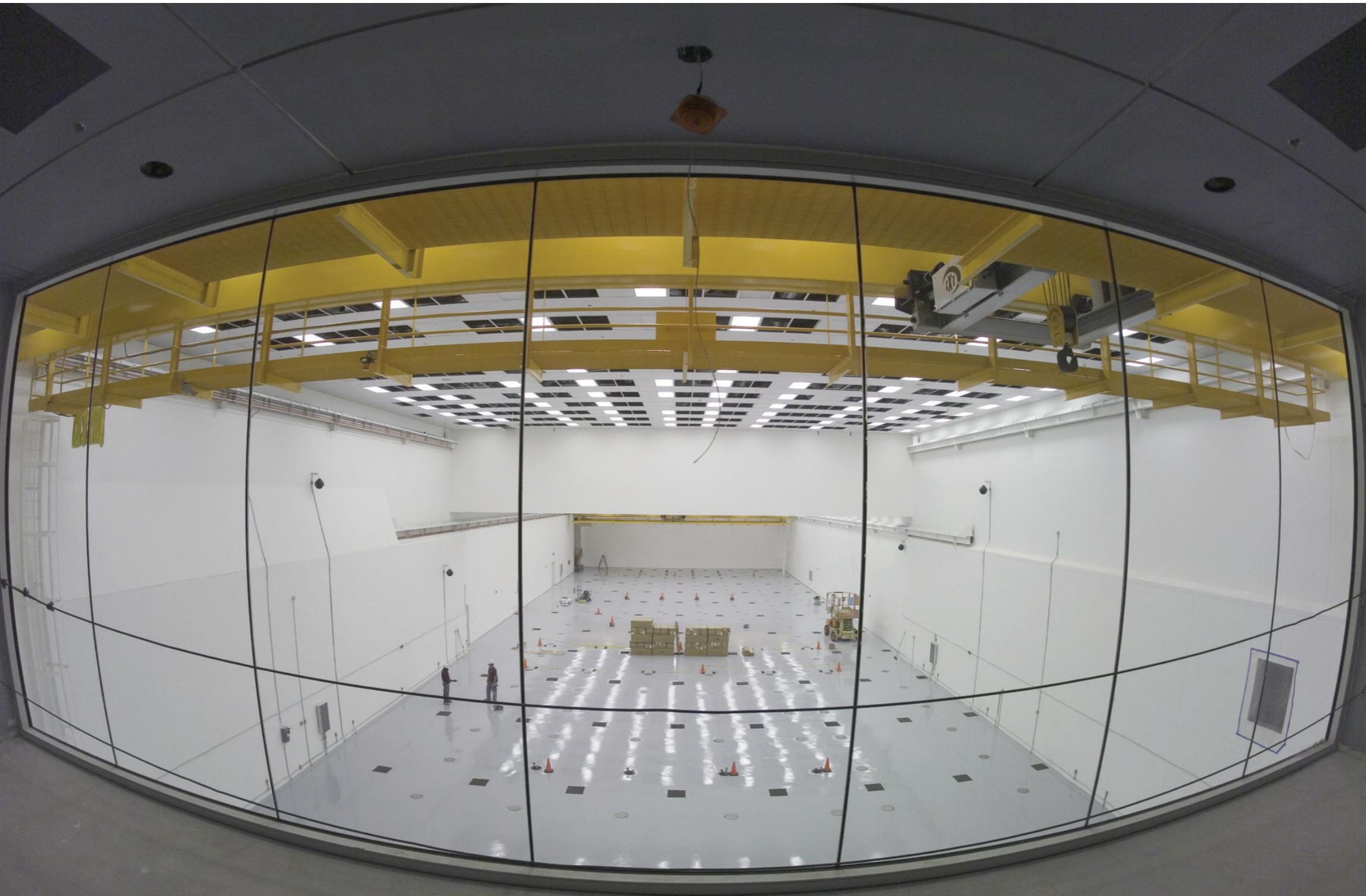


2005

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LLE





The building construction for the new OMEGA EP multipetawatt laser facility was recently completed. The laser system and target area for OMEGA EP will be housed in the 80 × 280 foot clean room shown in this photograph.

JANUARY 2005

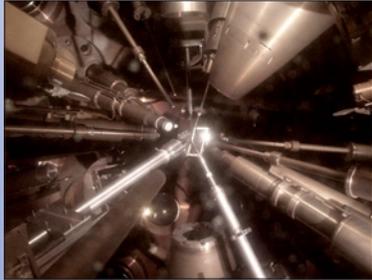


Photo courtesy of Department of Rare Books and Special Collections, University of Rochester Libraries. © 2002 The University of Rochester. All rights reserved.

History 9 years ago...

19 January 1996

An OMEGA direct-drive high-yield target attained the highest recorded neutron yield to date on a laser ICF experiment: 1.25×10^{14} (fusion energy release of 1.1% of the on-target laser energy).

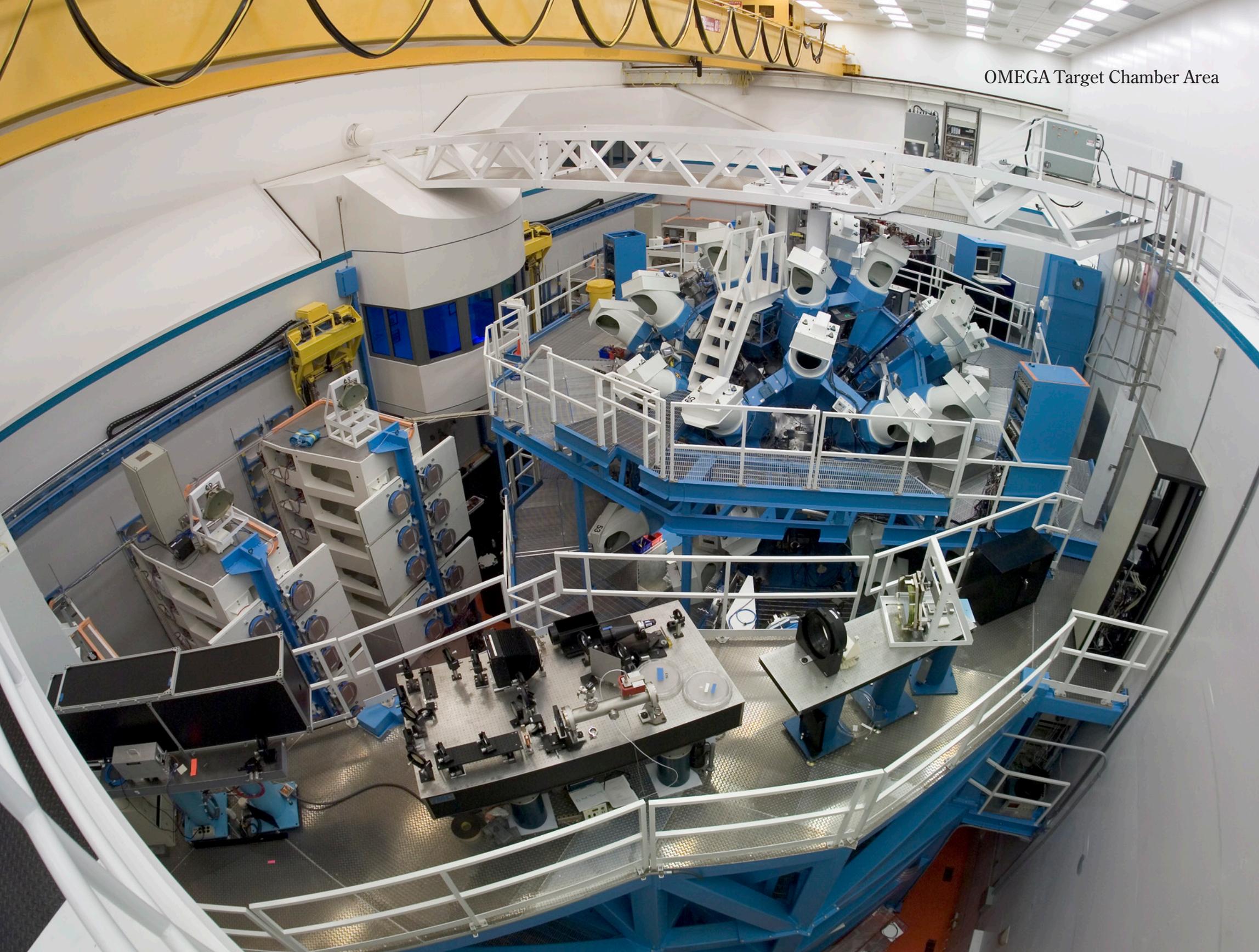
University of Rochester
Laboratory for Laser Energetics
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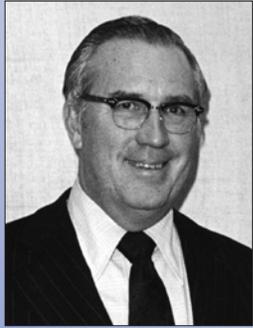
Reliable operation of a high-energy laser facility such as OMEGA requires frequent detailed examination of critical optics such as this blast shield.



OMEGA Target Chamber Area



MARCH 2005



History 30 years ago...

25 March 1975

Congressman Frank J. Horton's weekly column issued on this day highlighted "...one of the most exciting and significant energy research centers in the Nation..." The present LLE facility and graduate student fellowships are named in his honor, in recognition of his important support.

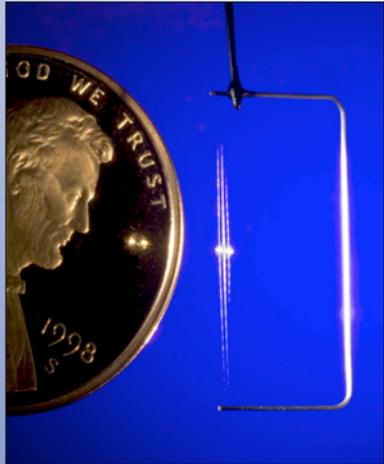
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The Saturn target design was developed by LLE and tested on OMEGA to explore the possibility of demonstrating ignition on the NIF using the polar-direct-drive (PDD) configuration. The capsule is mounted on a specifically designed ring by means of spider-silk strands.

APRIL 2005



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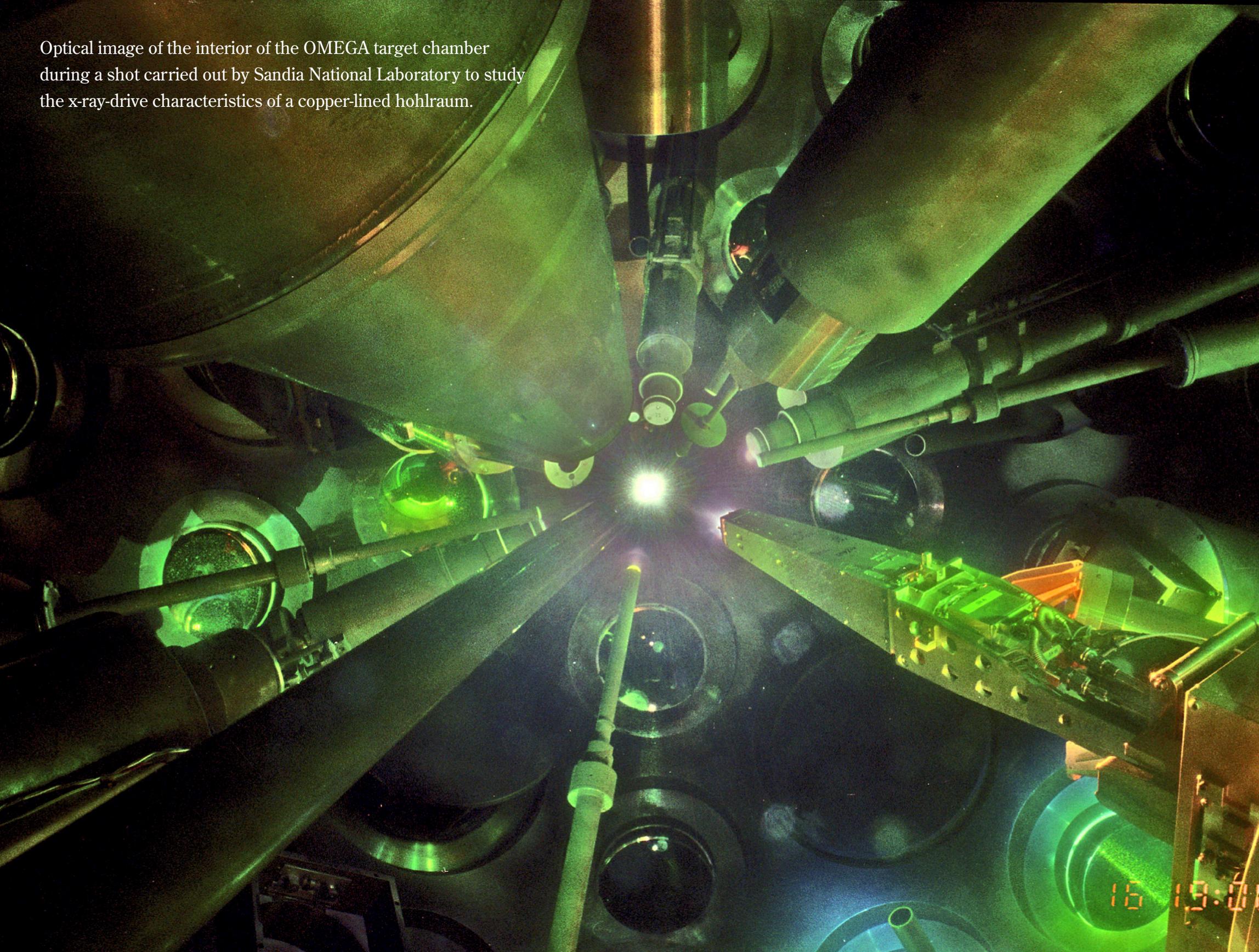
History

22 years ago...

April 1983

The development of spider-silk target mounting by Steve Noyes of LLE was published for the first time in an article in the Journal of Vacuum Science and Technology.

Optical image of the interior of the OMEGA target chamber during a shot carried out by Sandia National Laboratory to study the x-ray-drive characteristics of a copper-lined hohlraum.



MAY 2005

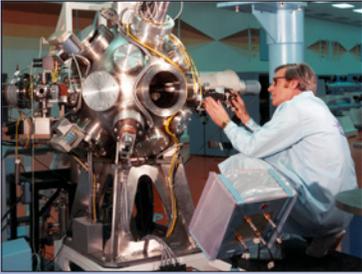


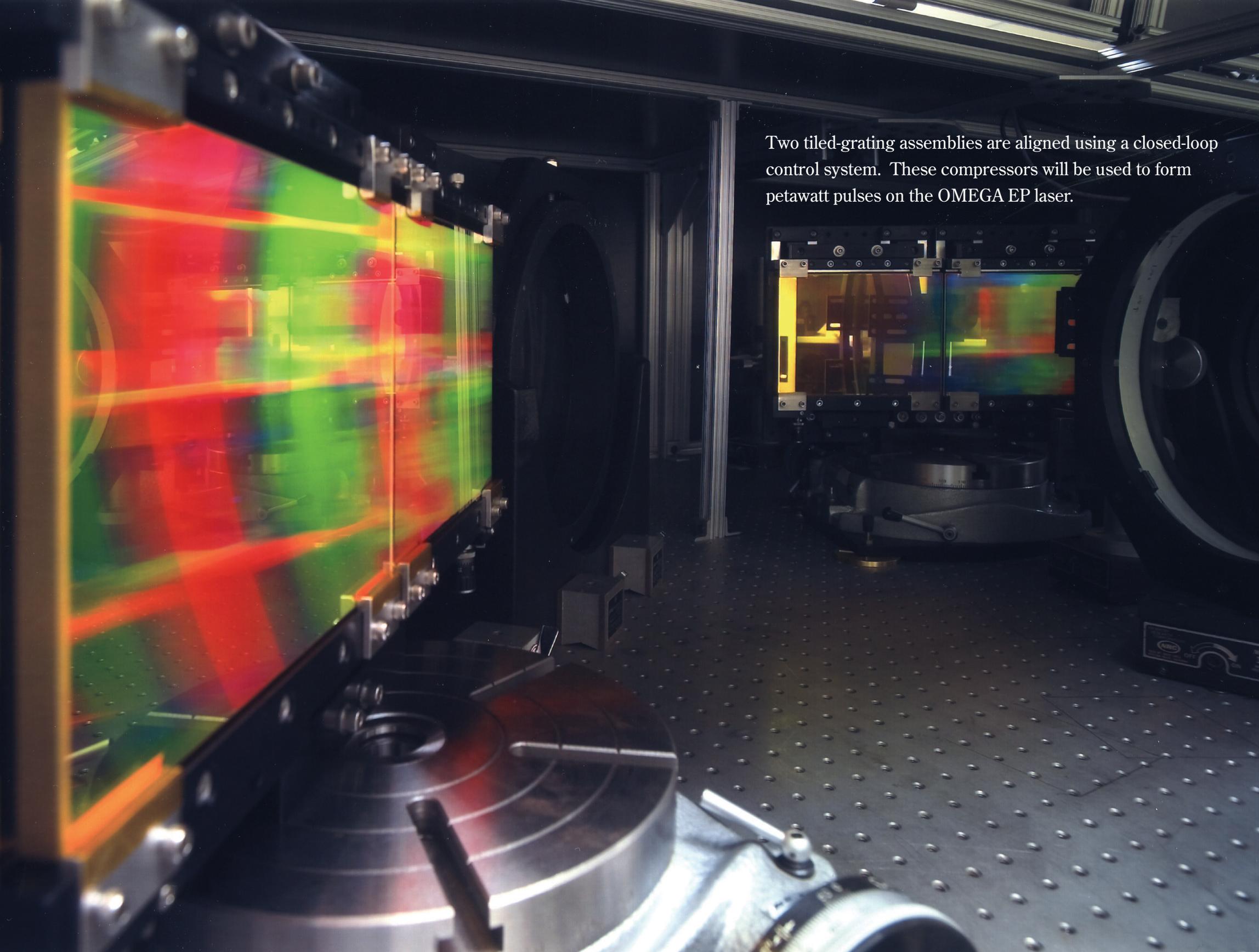
Photo courtesy of Department of Rare Books and Special Collections, University of Rochester Libraries. © 2002 The University of Rochester. All rights reserved.

History 26 years ago...

22 May 1979

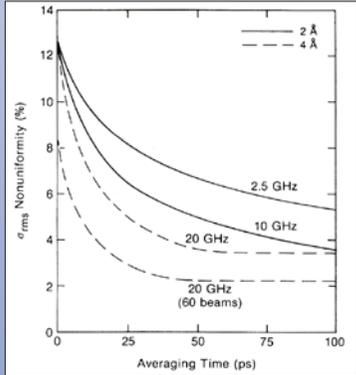
LLE conducted a series of DT implosion experiments on the six-beam ZETA laser with all shots producing yields in excess of 1.5 billion neutrons.

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Two tiled-grating assemblies are aligned using a closed-loop control system. These compressors will be used to form petawatt pulses on the OMEGA EP laser.

JUNE 2005



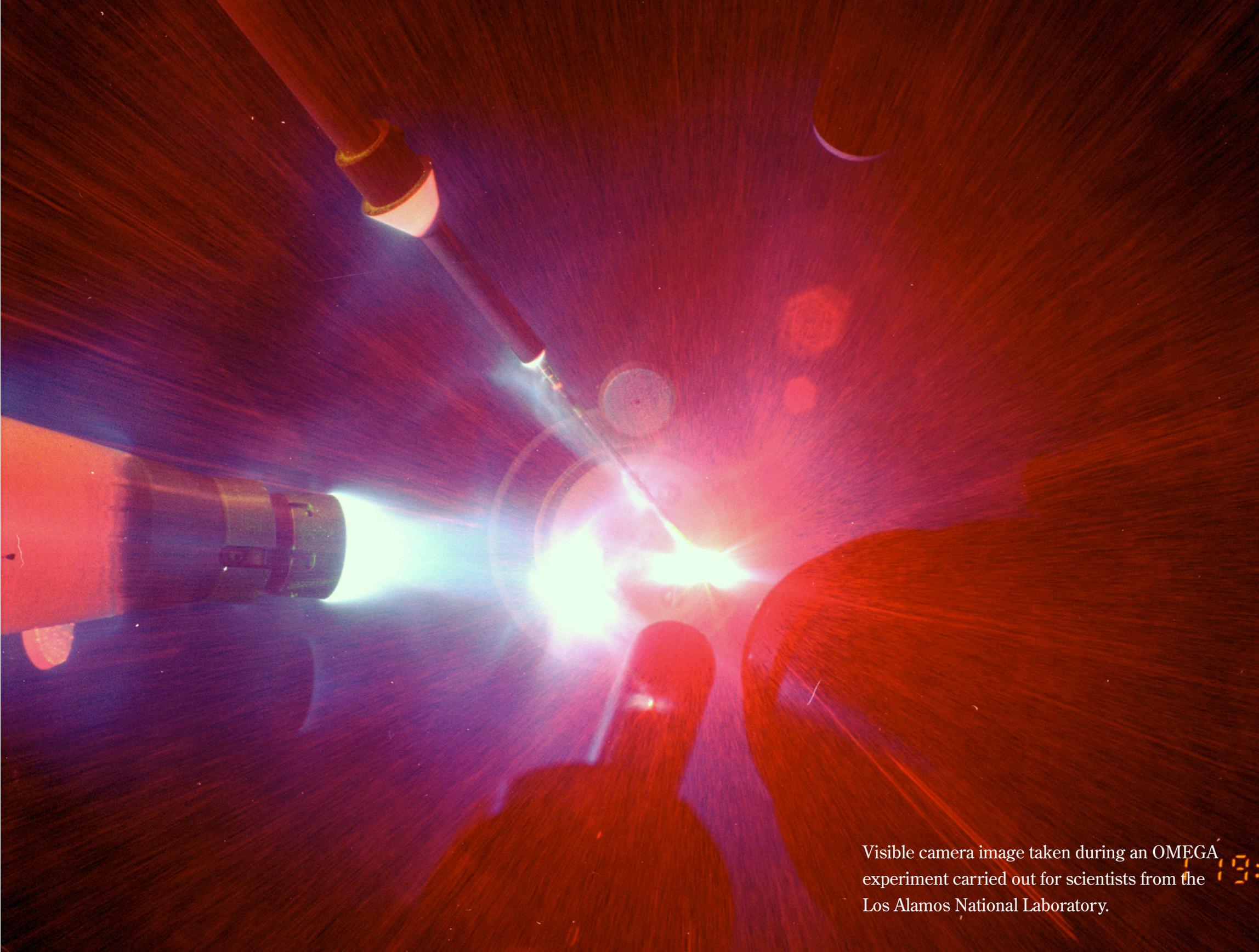
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<p>35th Anomalous Absorption Conference Fajardo, PR</p>						

History

16 years ago...

October 1989

A paper describing the SSD beam-smoothing system by S. Skupsky *et al.* was accepted for publication by the Journal of Applied Physics. SSD has been a very important laser feature for both indirect- and direct-drive ICF experiments.



Visible camera image taken during an OMEGA experiment carried out for scientists from the Los Alamos National Laboratory. 19

JULY 2005



History 16 years ago...

July 1989

The Summer High School Student Program was initiated at LLE. Since its inception, 176 high school students have participated in this program. Of these, 16 (six within past two years) were chosen as semi-finalists in the prestigious Intel (formerly Westinghouse) Science Talent Search and two became finalists.

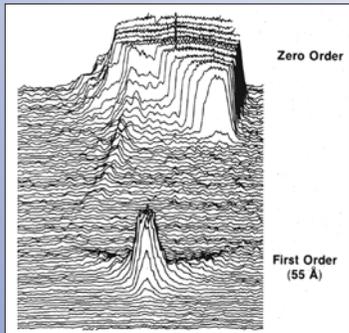
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<p>JUNE</p> <table border="1"> <tr><td>S</td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td><td>S</td></tr> <tr><td></td><td>1</td><td>2</td><td>3</td><td>4</td><td></td><td></td></tr> <tr><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td></tr> <tr><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td></tr> <tr><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td></tr> <tr><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td><td></td><td></td></tr> </table>	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			<p>AUGUST</p> <table border="1"> <tr><td>S</td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td><td>S</td></tr> <tr><td></td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td></tr> <tr><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td></tr> <tr><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td></tr> <tr><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td></tr> <tr><td>28</td><td>29</td><td>30</td><td>31</td><td></td><td></td><td></td></tr> </table>	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							1	2
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Technician working on a heat sink for the Cryogenic Target Handling System temperature sensor



AUGUST 2005



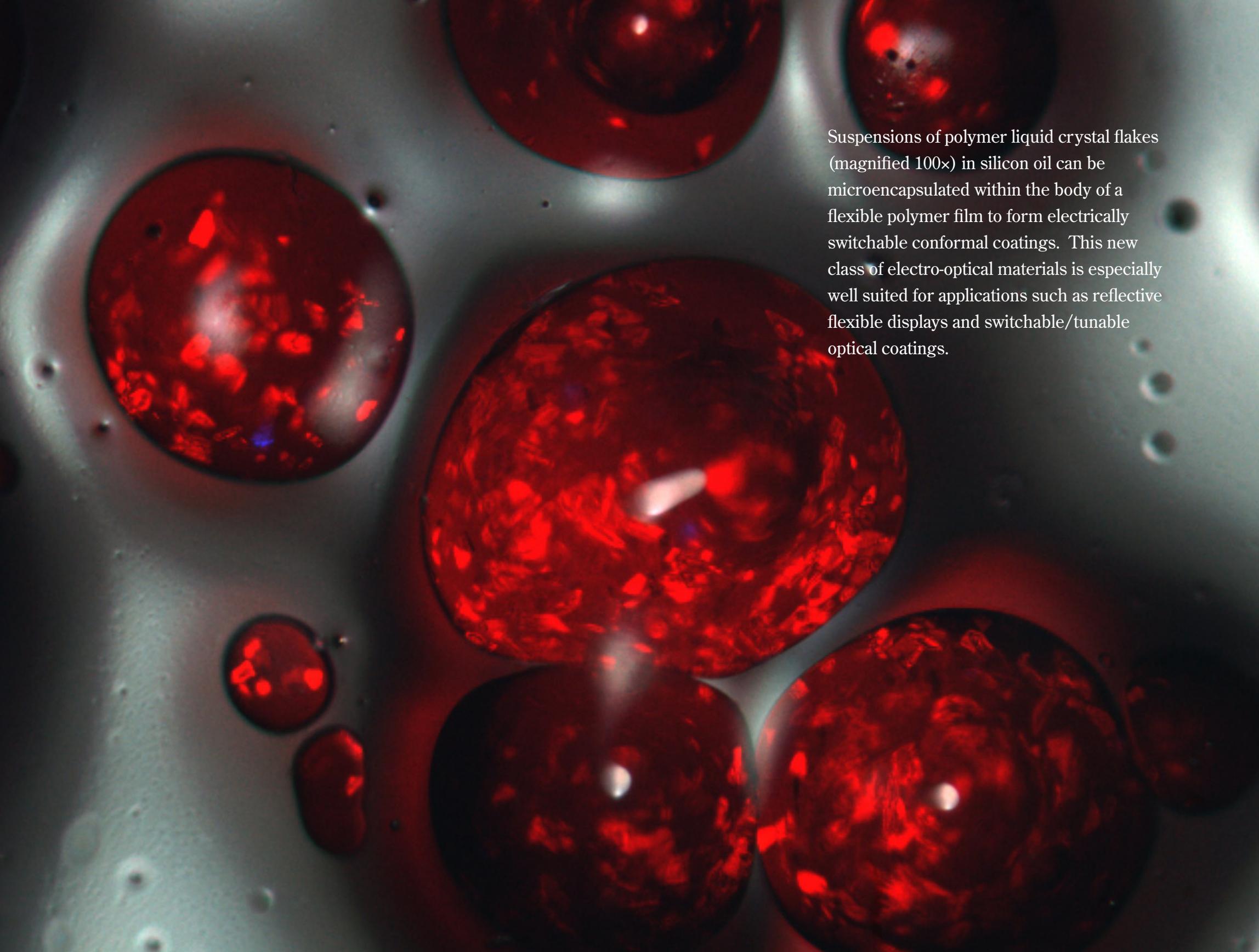
History 21 years ago...

August 1984

A paper entitled "Experimental Facility for Nanosecond Time-Resolved Low Angle X-Ray Diffraction Experiments Using a Laser-Produced Plasma Source" by J. M. Forsyth and R. D. Frankel appeared in the Review of Scientific Instruments. This project was one of the first to be carried out under the NLUF program.

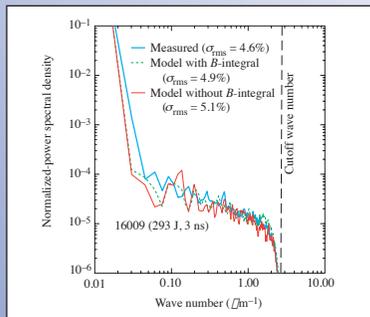
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Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
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21	22	23	24	25	26 LLE Golf Tournament at Bristol Harbour	27
28	29	30	31		JULY S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	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

A micrograph showing several large, roughly spherical droplets of silicon oil. Each droplet contains numerous small, bright red, irregularly shaped flakes of polymer liquid crystal. The background is a dark, slightly textured surface. The droplets vary in size, with the largest one in the center. The red color of the flakes is vibrant and contrasts sharply with the dark background.

Suspensions of polymer liquid crystal flakes (magnified 100×) in silicon oil can be microencapsulated within the body of a flexible polymer film to form electrically switchable conformal coatings. This new class of electro-optical materials is especially well suited for applications such as reflective flexible displays and switchable/tunable optical coatings.

SEPTEMBER 2005



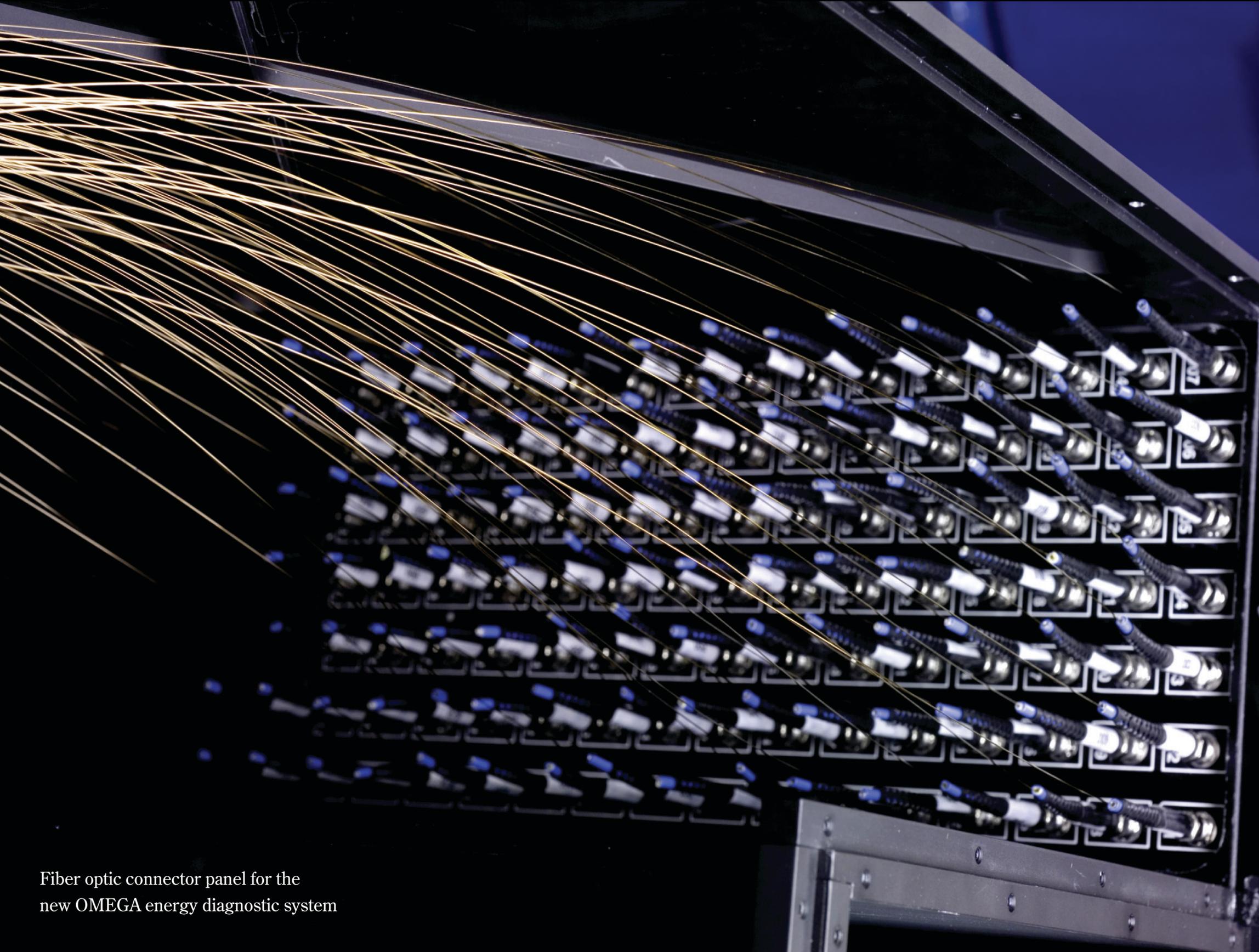
History 5 years ago...

September 2000

A paper entitled “Experimental Investigation of Smoothing by Spectral Dispersion” by S. P. Regan *et al.* was published. It reported on measurements of smoothing rates for smoothing by spectral dispersion (SSD) of high-power, solid-state laser beams used for inertial confinement fusion (ICF) research.

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Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
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18	19	20	21	22 Autumnal Equinox	23	24
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Fiber optic connector panel for the
new OMEGA energy diagnostic system

OCTOBER 2005

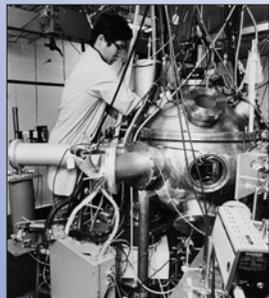


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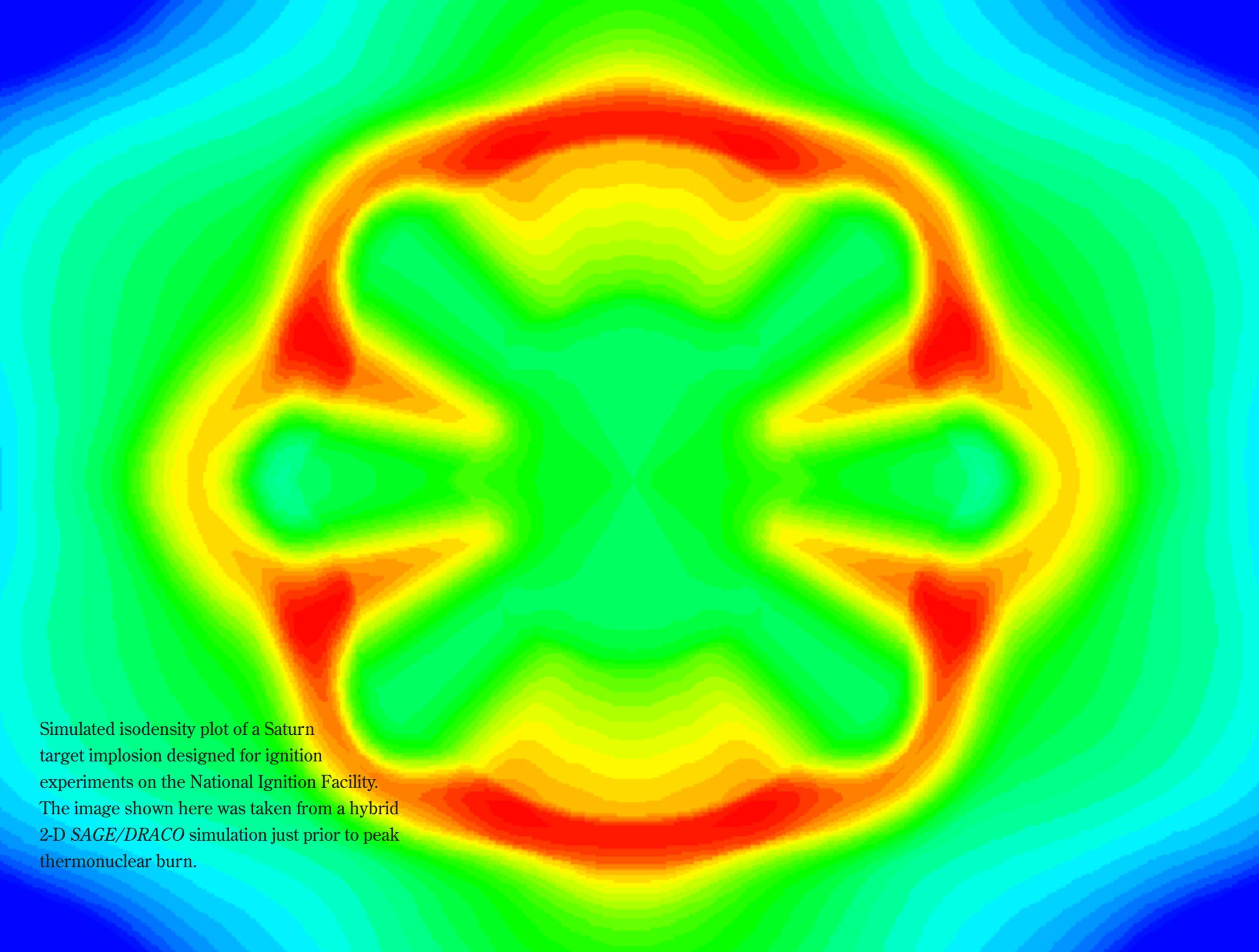
History 29 years ago...

October 1976

The paper "Laser Compression Studies with Neon-Filled Glass Microballoons" by B. Yaakobi and L. M. Goldman was published in Physical Review Letters. It presented measurements of x-ray emission of compressed neon gas fill in glass microballoons, irradiated by DELTA—an early LLE four-beam laser system.

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Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
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	47th APS Conference Denver, CO	→					
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Simulated isodensity plot of a Saturn target implosion designed for ignition experiments on the National Ignition Facility. The image shown here was taken from a hybrid 2-D *SAGE/DRACO* simulation just prior to peak thermonuclear burn.

NOVEMBER 2005

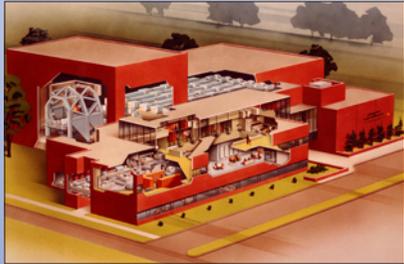


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History 26 years ago...

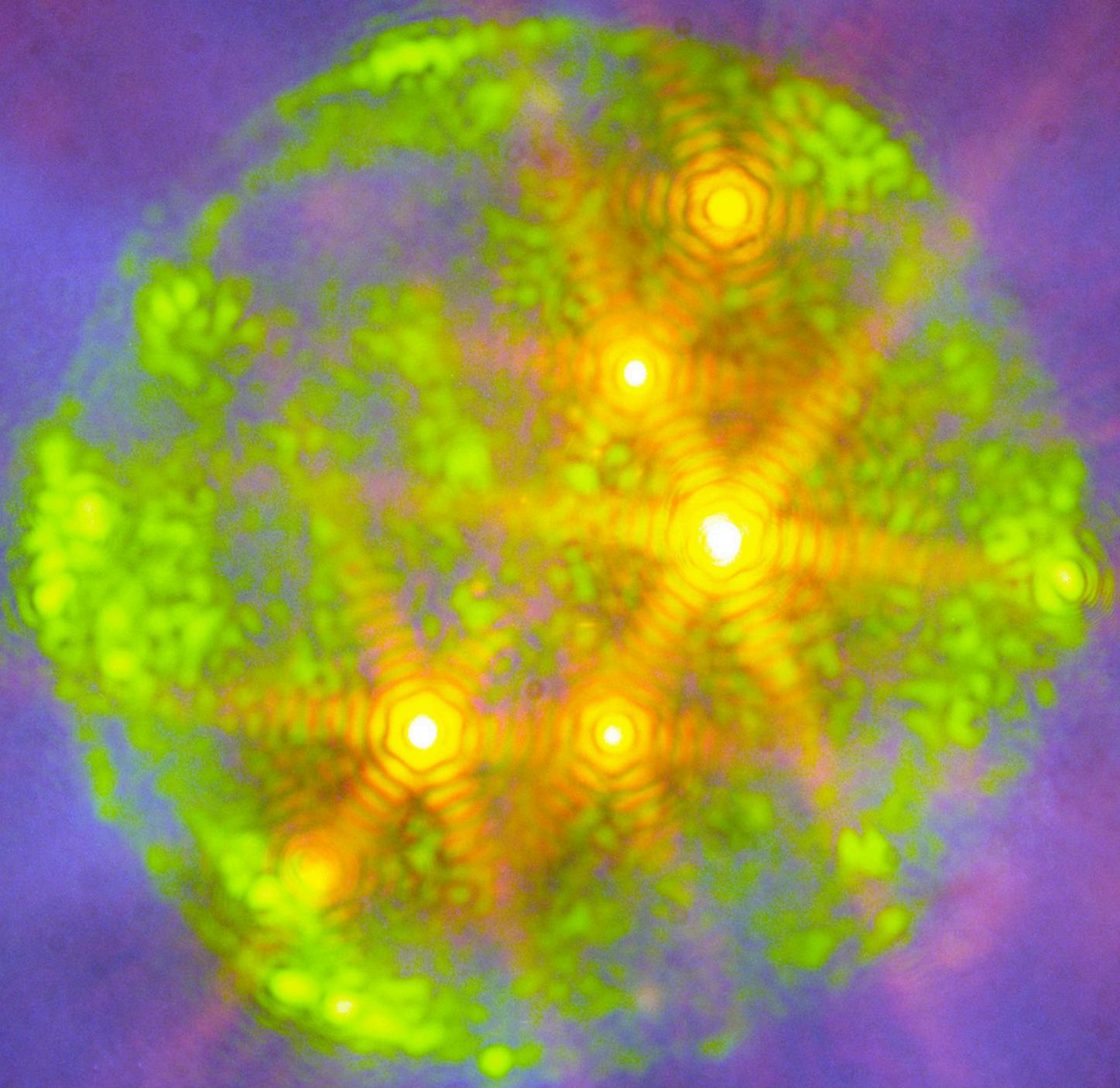
November 1979

A workshop was held at LLE to discuss applications of ultrahigh-power lasers in areas beyond fusion. The assembled panel of experts concluded that there are important applications of these systems: chemistry, biology, equation-of-state studies, effects on materials, and high-energy-density physics.

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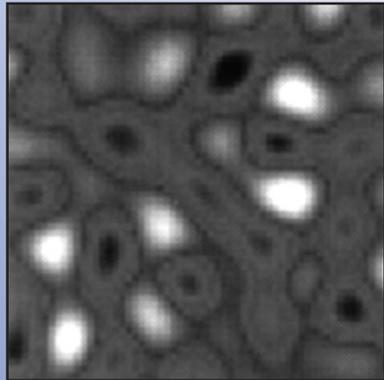
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
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27	28	29	30	Thanksgiving Day University Holiday	University Holiday	
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Visible camera photograph of a gold-coated pointing target shot on OMEGA



7 13:33

DECEMBER 2005



History 7 years ago...

December 1998

A paper authored by V. A. Smalyuk *et al.* and published in Physical Review Letters showed for the first time that 3-D broadband imprinted features exhibit saturated growth at amplitudes consistent with theoretical models.

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Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
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	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			1	2	3
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Christmas Day	University Holiday		Winter Solstice			

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 2005 LLE Calendar contains information about many of the Laboratory's programs as well as an account of some of its history.

We hope that you enjoy using your copy of the LLE Calendar and wish you a productive and fulfilling 2005.



2005

2006

JANUARY

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