

Cover Photos

Upper Left: Rochester optical streak systems (ROSS's). The ROSS camera is a comprehensive diagnostic system with autofocus and self-calibrating capabilities.

Middle Left: View of the OMEGA EP laser bay from the visitor's gallery of the new OMEGA EP building. The OMEGA EP building construction was completed in December 2004. Completion of the laser facility is scheduled to occur in 2007.

Lower Left: Tiled-grating assembly of three gratings being developed for use on OMEGA EP. The diffracted fields from the three gratings are coherently added so that they behave as one larger monolithic grating.

Upper Center: Two NIF deformable mirror (DM) assemblies undergoing fabrication and testing at LLE. The NIF DM's are all being coated and assembled at LLE.

Upper Right: A single-aperture plasma-electrode Pockels cell (PEPC) under test. The 40-cm-aperture PEPC is similar in requirements to the NIF PEPC. Four of these units will be used on OMEGA EP.

Lower Right: Photograph of the "Saturn" target, one of the polar-direct-drive (PDD) options being investigated as a potential direct-drive-ignition configuration for the NIF.

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