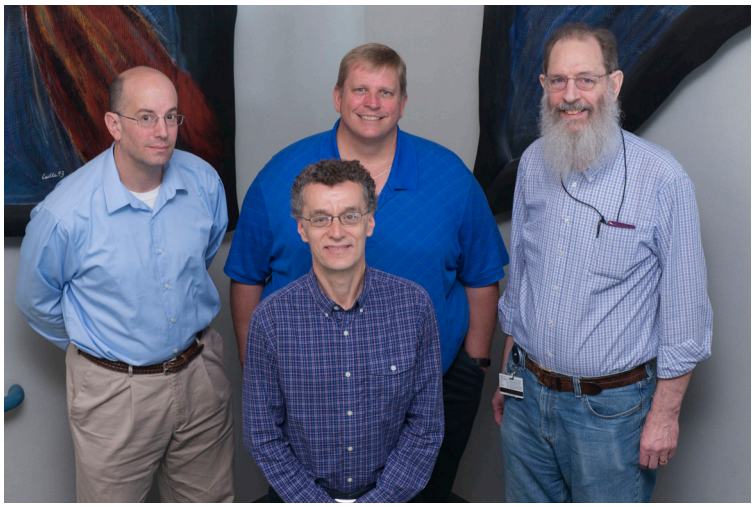
About the Cover:

The photograph on the cover features Brian Rice, a research engineer in the Mechanical Engineering Group at LLE, with the cryogenic vibration measurement test setup that was assembled at LLE and used to measure key physical properties of several types of fibers at cryogenic temperatures. The fibers were studied for their potential to provide more-stable mounting of cryogenic targets as part of LLE's direct-drive–implosion experiments on the OMEGA Laser System. The ability to maintain target positional stability of 10 μm or better prior to an implosion has been an important part of LLE's strategy to achieve higher-yield implosions on OMEGA.

The photograph below includes LLE research engineers (from left to right) Jeffrey Ulreich, Milton Shoup (LLE Mechanical Engineering Group Leader), Brian Rice, and Lance Lund. Brian Rice and Jeffrey Ulreich developed the overall concept for the experiment mentioned above, while Milton Shoup and Lance Lund designed and assembled the test setup. Joseph Quinzi (not pictured), an undergraduate in Mechanical Engineering at Clarkson University, conducted many of the experiments on the potential cryogenic target mounting fibers that were evaluated as part of this study.



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