



Milton Shoup III, a Technical Associate in the Engineering Division, shown assembling the Multisegmented Amplifier (MSA) prototype. This amplifier consists of a 2×2 array of disk amplifiers sharing common flash lamps. Originally conceived by Lawrence Livermore National Laboratory (LLNL) as a concept for the ATHENA multimegajoule laser system and designed by LLE personnel with the support and collaboration of LLNL, the MSA was successfully constructed and met or exceeded its design goals. The MSA serves as a proof-of-concept of arrayed amplifiers for future Laboratory Microfusion Facility (LMF) consideration, and was an important first step in the development of disk amplifiers for the OMEGA Upgrade.