

**New Developments in SiGDP to Glass Shells — Residual Gases, Gas Filling
and Tailored Half-Lives***

M.L. Hoppe

General Atomics, P.O. Box 85608, San Diego, California 92186-5608

Glass shells continue to be of high interest as potential ICF targets. We have made progress in reducing and quantifying residual gases in shells manufactured by the silicon doped glow discharge polymer (SiGDP) to glass (Hoppe Glass) process. In addition, glass shells containing dopant gases and glass shells with deuterium half-lives tailored to better meet the needs of the experimentalist have been and are continuing to be developed. The current state-of-the-art developments in manufacturing Hoppe Glass shells is discussed.

*Work supported by U.S. Department of Energy under Contract DE-AC03-01SF22260.