

## **Development of a GDP Coater Enabling Increased Production\***

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Providing Glow Discharge Polymer, GDP, coatings is a key step in Inertial Confinement Fusion, ICF, target production. Typical delivery quantities may require several GDP coating runs consisting of thirty to 80 mandrels per batch. This work undertakes research and development to create a new configuration for GDP coating apparatus that will enable batch sizes into the hundreds or thousands. This will reduce costs associated with target production and make delivery of ICF targets more efficient. Results to date will be presented, including apparatus design and coating quality results. In addition, there is a synergy between this work and Inertial Fusion Energy's, IFE, need for half a million targets per day for energy production, as well as future commercial applications.

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