## Abstract Submitted for the DAMOP11 Meeting of The American Physical Society

Using Laser Induced Breakdown To Probe Pressure<sup>1</sup> BRUNO DE-HARAK, DANIEL LAROCCA, EVAN BAKER, NICHOLAS GOBLE, Illinois Wesleyan University — The measurement of non-uniform gas pressure as a function of position within a chamber can be difficult, with the level of difficulty increasing as a function of the desired spatial resolution. Such measurements are important for characterizing parameters affecting experiments; e.g., profiling a gas jet being used as a target. In this work we will discuss the use of laser induced breakdown to measure pressure at well localized (~1 mm³) positions within a chamber. A detailed description of the apparatus, and preliminary results, will be presented.

<sup>1</sup>This work was supported by an Illinois Wesleyan University Artistic and Scholarly Development grant.

Bruno deHarak Illinois Wesleyan University

Date submitted: 01 Feb 2011 Electronic form version 1.4