## Abstract Submitted for the DPP20 Meeting of The American Physical Society

## Plasma Expansion from a Pulsed Power Electrode Surface<sup>1</sup> JOHN

GREENLY, Cornell University — The status of measurements of plasma expansion from a current-carrying electrode surface in a pulsed power feed will be discussed. Experiments on COBRA at Cornell show slow expansion while current is rising, and rapid expansion coincident with driving voltage reversal and the beginning of current reduction. Interferometry of the expanding plasma density, visible light spectroscopy to give plasma temperature, and magnetic field measurements by Bdot probes and polarization Zeeman technique will be shown. The possible importance of inverse skin effects in driving the rapid expansion withvoltage reversal will be discussed.

<sup>1</sup>Supported by USDOE NNSA

John Greenly Cornell University

Date submitted: 02 Jul 2020 Electronic form version 1.4