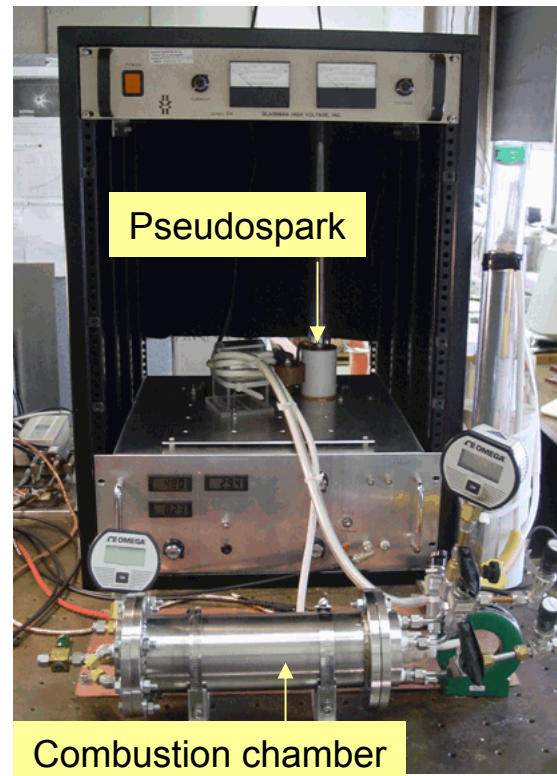


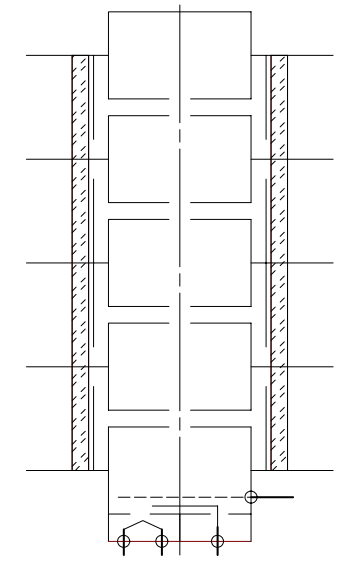
USC Pulsed Power Research

X. Gu, Q. Shui, P. Wijetunga, M. Behrend, F. Wang, R. Alde, C. Jiang, A. Kuthi and M. Gundersen

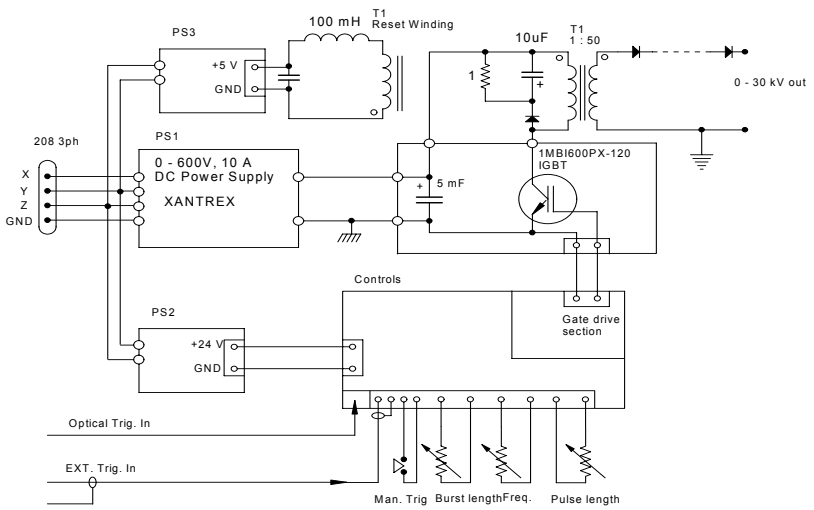
- Pseudospark based Corona ignition generator
 - 80 kV, 400 A, 50 ns
- Portable Compact Pulse Generator for cell electromanipulation experiments
 - 10 kV, 1 kA, 5 ns
- Rapid Charger for High rep rate operation of Pseudospark generators
 - 30 kV, 4 J, 1 – 1,000 Hz, 1 sec Burst mode
- Multi-gap Pseudospark switch development
 - 4 gaps = 100 kV hold off voltage
- Pseudospark based three-stage Marx generator
 - 90 kV, 10 kA, 100 ns
- Pseudospark Ion beam propulsion experiment
- Pseudospark XUV source for lithography experiment



4-gap Pseudospark



Rapid charger



Marx Generator

