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Plasma Spark Discharge Generated Water Displacement NATHANIEL TAYLOR, Drexel University, DANIL DOBRYNIN, A.J. Drexel Plasma Institute, ALEXANDER FRIDMAN, Drexel University — The physical displacement of water generated by plasma spark discharge has been investigated to determine the correlation between discharge parameters and displacement. Microsecond duration spark discharge pulses generate shockwaves and vapor which subsequently displaces the fluid over a period of milliseconds. Pulses ranging from 18 to 28 kV are generated inside of a sealed chamber and observed using a glass monometer. The displacement of the water has been measured using high-speed ICCD imagery and correlated to the plasma discharge energy and duration.

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