

Abstract Submitted
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Focusing of cylindrical liquid jets into droplets KRISTEN EDWARDS, AMY MCCLENEY, PHILIPPE BARDET, The George Washington University — Upward angled water jets discharging in quiescent air are studied experimentally with time varying forcing. The jets issue from a 2 mm diameter tube, while highly controllable forcing is accomplished with a magnetic linear motor coupled with an arbitrary waveform generator. In particular, regimes of jet focusing are generated at various injection rates. The jets result in large droplets that can be created at various elevations. This type of flow mimics the spray generated by an Archer fish. Actual forcing functions were monitored using LDT.

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