

Abstract Submitted  
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**New seeding approaches for planar and volumetric velocity measurements** DAN TROOLIN, WING LAI, TSI Incorporated — Velocity measurements using planar PIV and volumetric PTV techniques provide quantitative information regarding fluid structures for flow research. These techniques are imaging-based and non-invasive, providing measurement results without intrusion of hardware into the measurement region affecting the flow field. One requirement for the techniques is to introduce seed particles that are used as tracers to represent the flow field. New approaches to generate and introduce seed particles to air and liquid flow measurements will be presented and discussed. Cleaner operation, expanded measurement size, and higher spatial resolution are some of the results achievable from the new seeding approaches.

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