

Materials List for:

# An Analog Macroscopic Technique for Studying Molecular Hydrodynamic Processes in Dense Gases and Liquids

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URL: <https://www.jove.com/video/56632>

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## Materials

Name	Company	Catalog Number	Comments
Vibratory Polishing Bowl	Raytech	AV-75	
Flow Meter	Peristaltic Pumps	913 Mity Flex	
Scale	Pelouze	4040	
Triaxial Accelerometer	PCB Piezotronics	PCB 356B11	Accelerometer with Sensor Signal Conditioner
Data Acquisition Computer	IBM	Thinkpad	Used with high speed camera
High Speed Camera	Redlake	Motionextra HG-XR	
Zoom Lens	Tamron	Model A18	18-250mm F/3.5-6.3
High intensity Light	ARRI	EB 400/575 D	
Data Processing Computer	Dell	Dell Precision Tower 7910	
PIV Software	Dantec Dynamics	Dynamic Studio 2013	version 3.41.38
Data Acquisition Hardware	National Instruments	SCXI	SCXI-1000 Chasis with SCXI 1100 Card and SCXI 1303 Adapter
Data Acquisition Software	National Instruments	LabVIEW 2012	
Data Processing Software	MATHWORKS	MATLAB	
Polishing Media	Rosler	RSG 10/10S	Multiple media types used (mixed, spherical, triangular)
Polishing Solution	Rosler	FC KFL (3%)	3% soap solution with water
Ruled Scale	Swiss Precision Instruments	13-911-3	
Graduated Cylinder	Global Scientific	601082	