

We have a winner!

Results from the “Guess the Viscosity of the V2V™ Ink Vehicle Contest” at SWeNT’s Fall 2009 Materials Research Society Booth

At MRS this year, to introduce our new CNT Ink Technology (and for some fun) we held a contest. Contestants were shown samples of the V2V™ Ink Vehicle and asked to guess its viscosity. To help, we also provided examples of water, motor oil and honey, identifying the viscosity of each of those.

And the winner is: Professor Joseph Budnick, Department of Physics, University of Connecticut. His answer of 803 cP was by far the closest to our measured value of 795 cP. As the winner, he will soon be the recipient of an iPod nano. Congratulations to Professor Budnick!

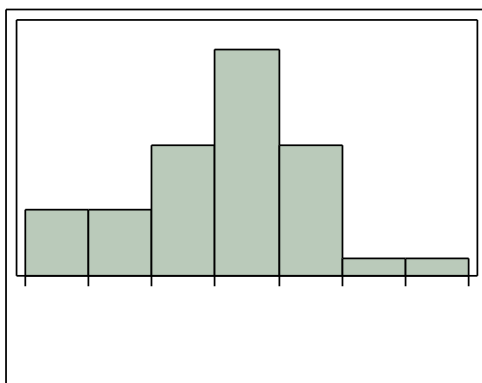
Further notes:

- For the analytically inclined, we measured viscosity on a Brookfield Viscometer Model DV-II. The spindle used was a #3 for all liquids. Measurement was made at the slowest spindle rotation speed that gave a reading within the accuracy limit range.
- For the statistically inclined, we offer the following data:

Measured Viscosity 795 cP
Number of Entries 40
Closest Estimate 803 cP

Excluding 1 statistical outlier at 25,000 cP, here is the distribution of estimates:

Histogram of Estimates



Quantiles

100.0%	Maximum	3000
99.5%		3000
97.5%		2987
90.0%		2150
75.0%	Quartile	1999
50.0%	Median	1701
25.0%	Quartile	1200
10.0%		320
2.5%		90
0.5%		90
0.0%	minimum	90

Moments

Mean	1528
Std Dev	669
Number of Entries	40

The mean of the estimates was 1528, while the median was slightly higher at 1701 cP. It is interesting to note that only 7 of the 40 entrants estimated the viscosity below the actual value, leaving 33 entrants whose estimates were high.