

**STANDARD OPERATING PROCEDURE**  
**Department of Chemistry**

**Spot Check of Air Flow in Fume Hood**  
**Updated 07-22-08**

**TASK** - Measure velocity of air flow into laboratory fume hoods using a Dwyer Vaneometer. The purpose is to re-confirm function of fume hood at time of use.

Designated Area:

Fume hoods are present in all laboratories in the department. Testing of chemical fume hoods should be under the same conditions as actual use. If a large number of hoods are located in one laboratory they should be turned on at least thirty (30) minutes prior to testing to obtain accurate results.

Personal Protection:

Safety Goggles, Lab coat and appropriate gloves. (use the proper glove to handle equipment/chemicals present in the hood at time of testing).

Although this task does not involve the use of any hazardous materials there may be equipment and/or chemicals present in the Fume Hood at the time of testing.

Training:

No formal training is necessary to complete test using Dwyer Vaneometer.

Process:

Turn on hood.  
Check the vaneometer. The ribbon may be need to be replaced.  
Match red arrow on sash with red arrow on the side panel of the hood.  
To acquire reading hold vaneometer in the center of the hood.

**Acceptable standard** -Chemical fume hoods should operate at a face velocity of (80-100) Linear Feet Per Minute.

Reporting Results:

If tested fume hood results are not within the acceptable standard-  
**do not use hood.**

Contact Tim Styranec WBSH 5053 (x3665) or the Chemistry Dept. WBSH 5053 (x3663) for further assistance.  
Emergency numbers - (x911) and Environmental and Occupational Health & Safety Department (x3700).

Hazards involved in procedure:

Use caution when testing fume hoods. Equipment and chemicals may be present.

Approval Required:

No formal approval is necessary to test fume hood with a vaneometer.