

# Saving energy in the labs

Langara's new state-of-the-art labs promote energy conservation



“We want students to understand how they can make a difference in the labs and beyond.”

- Zeeshan Khan,  
Manager, Building Operations

## Shut the sash

Langara's new Science and Technology Building houses state-of-the-art biology, chemistry, physics, astronomy, nursing, and computing science labs. The building also has a lecture hall, multi-purpose classrooms, and collaborative study spaces.

Alongside the launch of the new lab facilities, meetings were held with teachers to design special signage for the new variable air volume (VAV) fume hoods. Delays in building commissioning presented some setbacks in the initial timeline for the campaign but eventually all of the fume hoods were installed.

The new fume hood signage indicates the ideal height for the sash for safety and energy saving. Now that the sash height has been lowered, less air is released from the exhaust, and less fresh air needs to be brought in and conditioned. This results in less energy consumed, and fewer greenhouse gas emissions, while reducing operating costs overall. Lowering the sash also protects lab users from high pressure gas exposure.



**Langara.**

THE COLLEGE OF HIGHER LEARNING.



Photograph Photographs courtesy of Ema Peter Photography

## Connecting science with conservation



A two-page handout was developed for students and staff outlining proper use of the fume hoods. Increasing awareness in the labs is one step towards achieving Langara's overall sustainability goals. One of the initiatives is to develop an ongoing orientation for staff and students to operate the fume hoods safely and further develop a conservation culture in the labs.

### For more details:

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We look forward to continuing to work with staff and students to make Langara a leader in sustainability. Energy saved through each small action on campus contributes to reducing our greenhouse gas emissions as well as our overall environmental impact.

Being part of the province-wide Energy Wise Network, supported by BC Hydro and FortisBC, provides us with the opportunity to connect with other colleges and universities across BC who share our commitment to energy conservation.

The Energy Wise Network was launched in 2016 to help organizations in their energy engagement programs.

The network is made up of Advanced Education, Government, Schools (K-12), Hospitality, Municipalities, Property Management, and Retail sectors.

We're working together to help B.C. save energy.

