

## Feds support Brighton based company's air purification system

### *LeVOCC system kills harmful bacteria*

Jul 19, 2010 - [T.J. LEBLANC](#)

BRIGHTON -- The Public Health Agency of Canada has spent almost one year putting the LeVOCC advanced air purification system through the ringer.

D.L. Services, a Brighton environmental consulting and contracting business, is the only licensed distributor of the LeVOCC system in Canada. Doug LeBlanc, President of D.L. Services, and Robert LeBlanc, LeVOCC CEO, are hoping to move the LeVOCC system into healthcare environments as soon as possible in an effort to decrease the number of airborne illnesses contracted each year.

Dr. Steven Theriault, Chief of the Applied Biosafety Research Program with the Public Health Agency of Canada, has tested the LeVOCC process using standardized testing at the request of the Canadian government.

According to Dr. Theriault, there is no other system that has come close to the LeVOCC system.

Dr. Theriault performed a number of tests including one using the Influenza 'A' strain test, a virus identical to the H1N1 virus. After 30 minutes running the LeVOCC system in the testing chamber, the virus had been completely erased.

"The first time we did this we didn't quite believe it. I'm a scientist and I don't quite believe anything unless I have the data three times in front of me. We did it over and over again and had the same result," Dr. Theriault said.

In order to see where the virus went and when, researchers did the same test, but instead took the tests every minute.

"Interestingly, within four minutes all live virus was gone. Within six minutes all genetic material was gone," Dr. Theriault said.

Removing the genetic material is a serious concern as any trace of this material can also lead to infection. The removal of this material means that the risk of infection is virtually impossible.

"The big key that we want to do now is the hospital or clinic testing. We're hoping to set-up the contracts to develop and test the system, but from a hospital perspective, we have to jump a lot of hoops," Dr. Theriault said.

Michelle Poirier, of Brighton, is a 28-year-old mother of one. According to Ms. Poirier her four-year-old daughter, Autumn, has never been healthier since running the LeVOCC system in their home.

"Autumn had been sick since she was three weeks old. She had constant sinus infections, colds and congestion. She'd be off of antibiotics for a bit then right back on them again," Ms. Poirier said.

According to Ms. Poirier, within two weeks of running the machine both she and Autumn felt better.

The LeVOCC system uses UV light and a unique catalyst to destroy viruses and organic compounds as they travel through the air stream. D.L. Services, specializing in environmental clean up, began using the LeVOCC unit on the job site. Shortly after, Doug LeBlanc installed one in his home and hasn't looked back since.

"I haven't taken an allergy pill in two years," Mr. LeBlanc said at an information session held in Trenton on July 2.

At this time, the LeVOCC system is leading the air purification field, but there is always room for improvement. According to Dr. Theriault the system cannot handle large amounts dust and other large dirt particles.

"If we can attach the LeVOCC process to the hepa-filtration systems, we would solve a lot of problems that we currently have," said Dr. Theriault.

"As we continue studying and we keep on moving forward, this is definitely a system that can advance containment laboratories within national as well as international areas.