Leak Detection System: 
*Reliable, Robust, Cost-Effective*

**The Technology**
The Leak Detection System is a patented technology of compartmentalized sensors. Highly sensitive and developed specifically for hydrocarbons, these sensors can also be tailored for other leak compositions.

The materials used to develop the technology have been designed with a cost-effective and simple platform, are made of readily available materials and can be quickly manufactured for field-scale applications.

The robust sensors can be easily and efficiently integrated into existing infrastructure, saving both time and money.

This patented platform technology can be turned into a variety of other applications, including temperature or strain sensing, which offers additional options.

**The Results**
This technology is ready to be deployed in large-scale field applications, provides a rapid response time to a variety of hydrocarbon compositions, and is tunable to other leaks.

We are currently developing a partnership to integrate this technology with a secondary containment system provider.

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**Time to Alarm After Contact with Sensors**

- **1 second** Light Oil
- **5 seconds** Dilbit
The Team

The Leak Detection System team is highly-skilled and experienced with expertise in materials design, chemical engineering and product synthesis.

Developing advanced materials to solve high-impact industry problems.

Contact:

Team Lead: Dr. Steven Bryant, Canada Excellence Research Chair in Materials Engineering for Unconventional Oil Reservoirs

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Partner with us to take advantage of groundbreaking technology with real-world applicability.

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