



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 exising 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 with a secondary containment system provider.



1 second Light Oil 5 seconds
Dilbit





The Team

The Leak Detection System team is highlyskilled 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

Erin Gawron, PhD Chemistry

Stephanie Kedzior, PhD Chemical Engineering

Nicole Calma, Researcher, Chemical Laboratory Technology



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