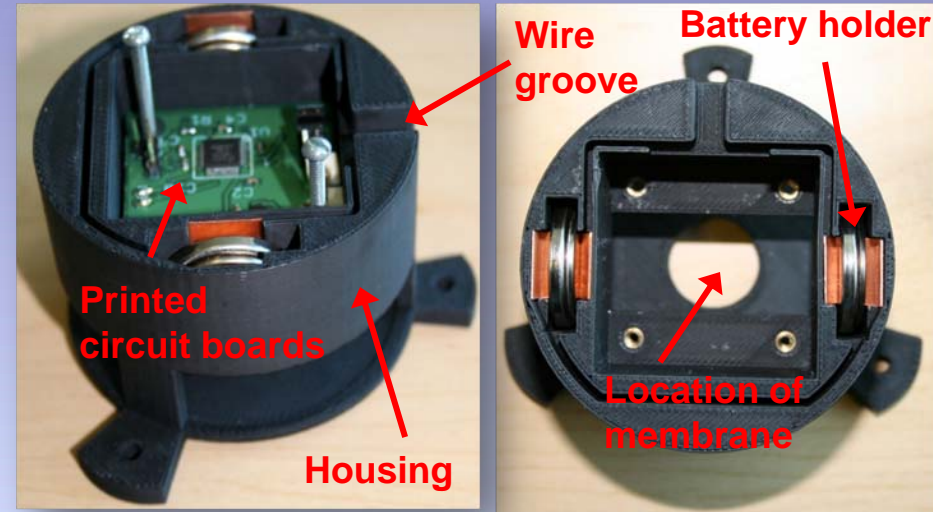


EVALUATE THE PERFORMANCE OF “MOULD SPY” - TO QUANTIFY MOULD GROWTH IN BUILDINGS

Background

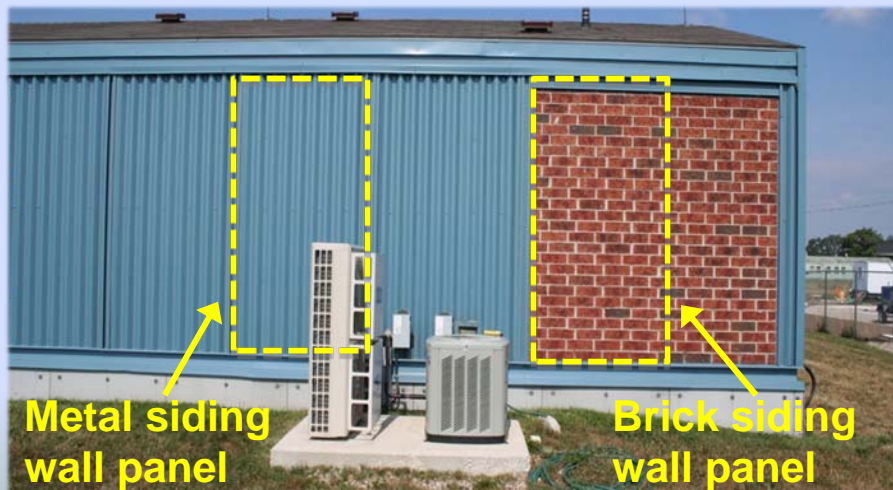
A miniature sensor built to quantify mould biomass through calibration against light reflectance. Assess growth rates on surfaces with intermittent polling.



“Mould Spy” sensor

Objective

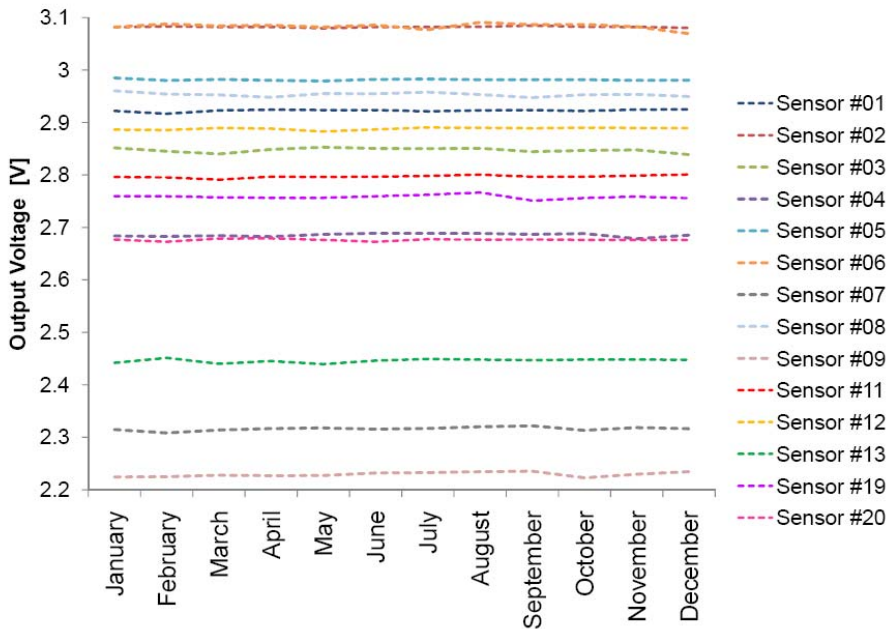
1. To assess the performance of the sensors installed into wall panels in the Control Building at IRLBH.
2. To evaluate the sensor’s sensitivity and accuracy.



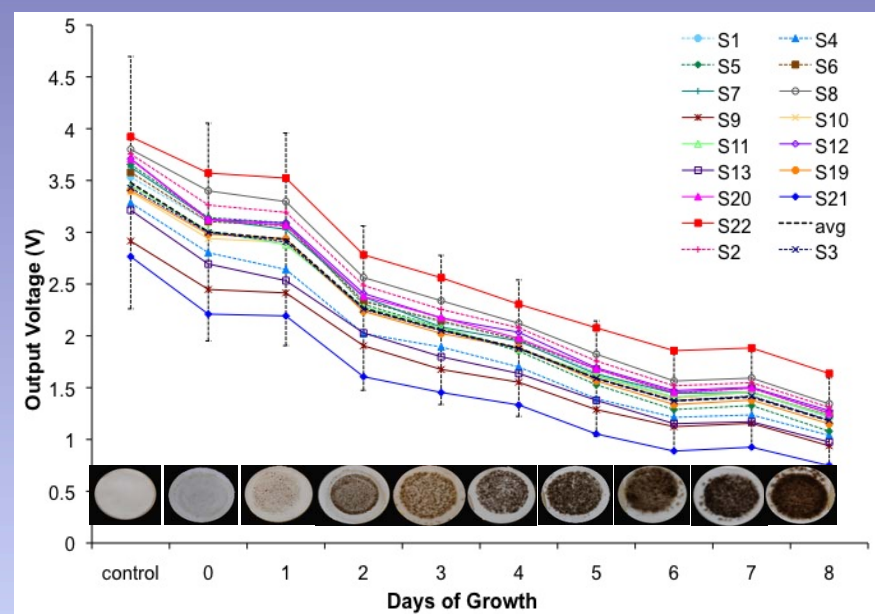
Wall Panels of the Control Building at the Insurance Research Lab for Better Homes

Research Carried Out

- Monitored results from the sensors throughout 2009, which showed consistency in measurements.
- Assessed factors affecting the sensitivity and accuracy of the sensor.



Results from wall panels throughout 2009



Calibration of 17 "Mould Spy" sensors up to 8 days of growth

Future Work

- Continue to monitor the sensors installed at IRLBH.
- Assess the performance of "Mould Spy" in mould-growing conditions, by placing the sensor in an environmental chamber.