



# ILLINOIS

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

## *Trials & Tribulations: How Do You Incorporate Sensor Technologies in a 60 Story Commercial Building?*

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Systems

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# Overview

- What type of sensors? (structural, life safety, security, CBN, etc.)
- How to power them?
- Issues with sensors that will be “embedded” and inaccessible after construction.
- Assimilation of information
- Presentation of information

# Types of Sensors

- **Structural:** *façade skin pressure, thermal, displacement, strain, etc.*
- **Life Safety:** *smoke, thermal, chemical, biological, radiological, etc.*
- **Security:** *infrared, motion, individual occupant sensor “keys”, facial recognition, etc.*

# General Comments

- Building under consideration would be a “Living Laboratory”
- Use of “distributed intelligence” sensors
- Human Factors – presentation of information
- **What is missing? What have we forgot?**