

ILLINOIS INSTITUTE OF TECHNOLOGY

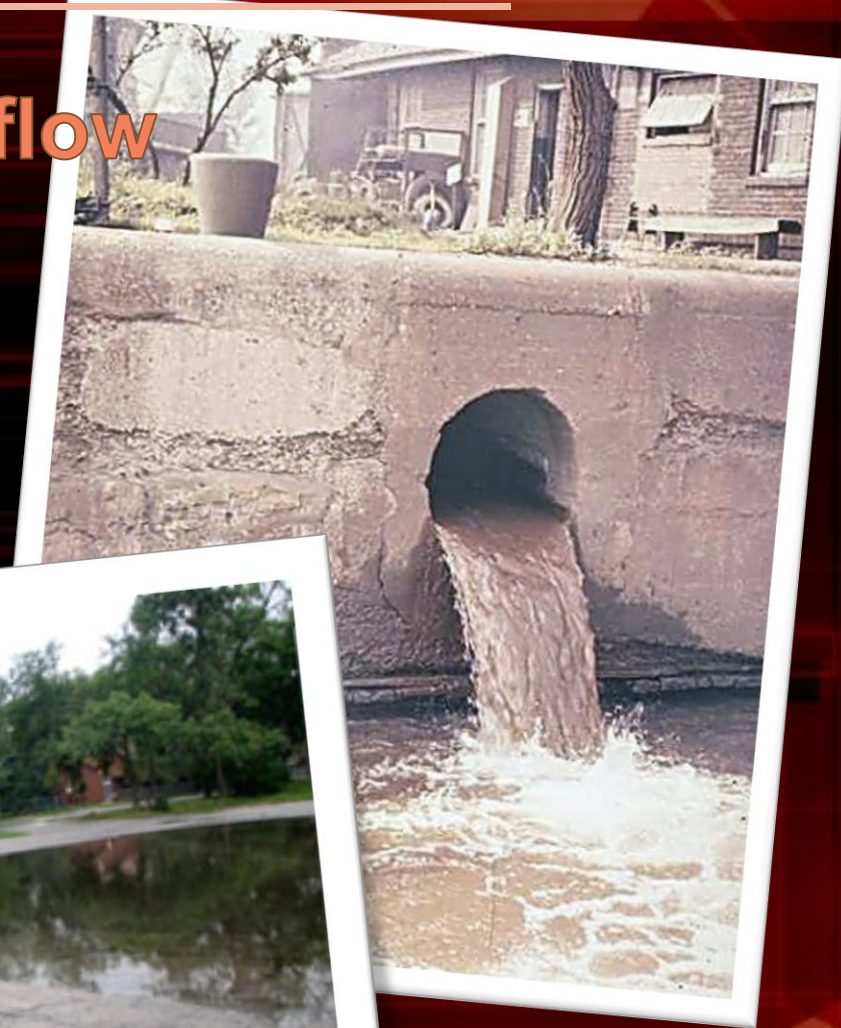
IPRO 312

**Active Porous Pavement System
for Storm Water Control**

Presented By:
Sarah Johnson
Shawn Shoulders

What's our Problem?

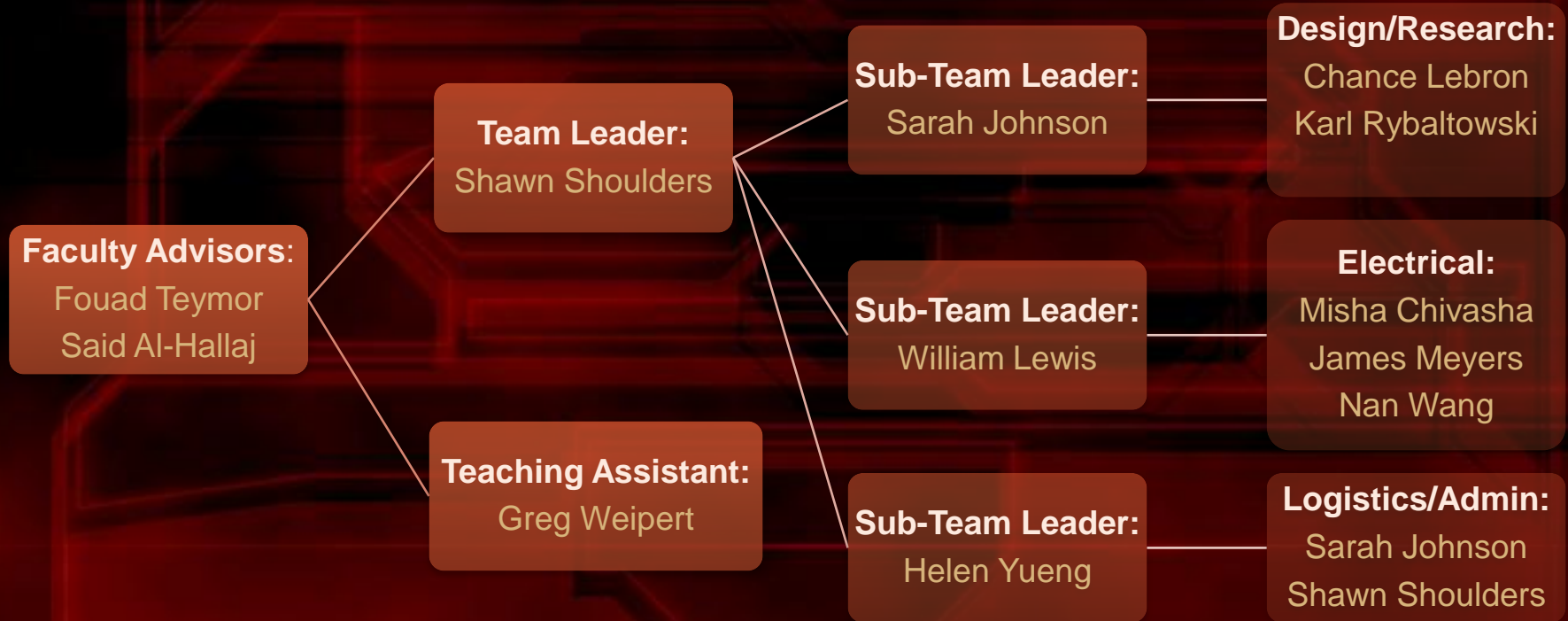
- Combined Sewer Overflow
- Flooding
- Water Management



Goals

1. Create a “plug and play” cell-based design incorporating hydro-gel technology, renewable energy sources and porous pavement.
2. Construct a working prototype.
3. Compare and contrast our design with current technologies
4. Forecast the ecological/economic impact of our design on a Chicago-land neighborhood.

Team Organization



Progress so far...

- Identified case study for implementation projections.
- Identified structural material for cell design.
- Created preliminary designs for cell structure and circuitry

Obstacles to date

- Initial design process.
- Acquiring the right information.
- Circuitry design.
- Flexibility of design.

Hurdles ahead...

- Incorporating design into working prototype.
- Making accurate and realistic predictions about the impact of our system.