Objectives

- The Client Question...
- “Creator of Light” Status
- Features and Future of Lighting
- Thought Leader Opinions
- Pilot Project Findings
- Research to Application Process
- New Perspectives for Users of Light
- Challenging Energy Assumptions
- Questions and Comments
Most People…

The Client Question…
- What comes after the LED?

What?!
- Everyone doesn’t think of Light as a Relationship?

The Client Question…
- History of Experiencing and Creating Light
  - Do Nothing
  - Burn Things
  - Use Electrodes
  - Don’t Use Electrodes
  - Use Electrons

The Client Question…
Re-Phrased
- What Light will we create next?

The Creator of Light
- Larkin Soap Company Administration Building Headquarters (Buffalo, NY 1906)
- Frank Lloyd Wright
- Lost in 1950
- Exterior here...
  - Visually massive
  - Fenestration placements and setbacks into façade articulations
The Creator of Light

Interior here...
- Building performed like a luminaire

The Creator of Light

What is the Efficiency of This Space?
- Cubicles and Geometry
- Daylight Access
- Quantity of Illumination

The Creator of Light

When did our Relationship Change?

The Creator of Light

In Other Words...

The Creator of Light

Our Human Experience...

The Creator of Light

New Question
- How do we break our ADDICTION to light?
The Creator of Light
Breaking the Addiction

Codes have forced us to remember:
- Efficiency Relative to Architectural Materiality and Massing (Volume)
- To Use Light When we Need Light

Practicing our Rules, leads us to a new Understanding...

...Hatred....

it's not you, it's me.
I don't like you anymore.

Breaking the Addiction includes looking to the Future
Features and Future
- How does Society Move Beyond Codes?
- What Do We Want Light to Do?
- How Do We Want People to Use Light?
- Can Technology Help?
- Does a Market Economy Assist or Hinder?

Thought Leader Opinions
- We will need to re-learn things we once knew.
- We should learn to think of light as a precious commodity.
- We have not SAVED ENOUGH energy until we SPEND NO energy.

Thought Leader Opinions
With Controls….
- Energy
- Health
- Wellness
- Performance
- Happiness

A better relationship with our Light

Pilot Project
CUNY Brooklyn College Whitehead Hall
- Largest Urban University System in USA
- >500,000 Students
- 26.3MM Gross Square Feet
- CUNY represents approximately 1% of NYC Energy Load
- Whitehead Hall: 1 Building, 1 Campus, 100,000 square feet
Pilot Project Findings

- Built a Mock-Up, Built the Project....
- Mock-Up Rooms were Commandeered
- Occupants Like “New and Better” but they Don’t like “Change”
- Occupant First Assumption is Always that “It is Broken”
- Easy to Forget the Previous Condition
- Stakeholders forgot that it was a Pilot Project
Pilot Project Outcomes

Research to Application

In the Design World, Pilot Projects are Research.
- Prepare Occupants for Change
- Set Expectations for Performance
- Remind and Revisit
- As the Design and Facility Team, “Cut Yourself some Slack”

New Perspectives

For users of Light….
- I LIKE for my light to be OFF when I am not using it.
- I LIKE for my light to be OFF if there is enough Daylight.
- I LIKE for my light to know it should be OFF.
- I LIKE to sleep with the lights OFF at night.
Challenging Assumptions

Questions to Help you Challenge Lighting Assumptions:

- Why do the Occupants NEED Light?
- What are the sources of light in my space that are NOT “light fixtures”?
- Can you ask a (child, differently abled, user, investor, maintainer, non-user) what they think?

Is There Danger in Challenging Assumptions?

You have to be successful at two things that are disparate:

- You have to Ask Questions as if Naive
- You have to Implement the Answers like an Expert

Questions and Comments