

Bird Strikes on Buildings

THE STORY

WHERE

College at Brockport State University of New York

WHO 6900 Undergraduate Students

WHAT 61,000 SF / 3-Story / Liberal Arts Building

WHEN Occupancy Summer 2014

HOW MUCH \$30 Million – Project Cost State University of New York Construction Fund

CONCLUSION http://www.youtube.com/watch?v=89EtNgGJriA&feature=related



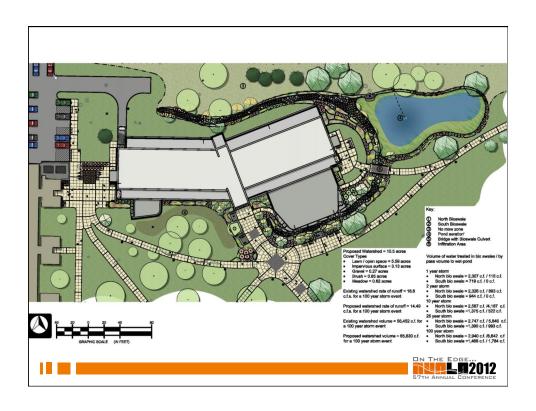


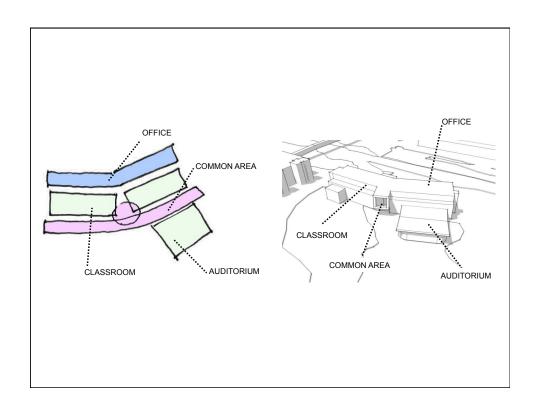






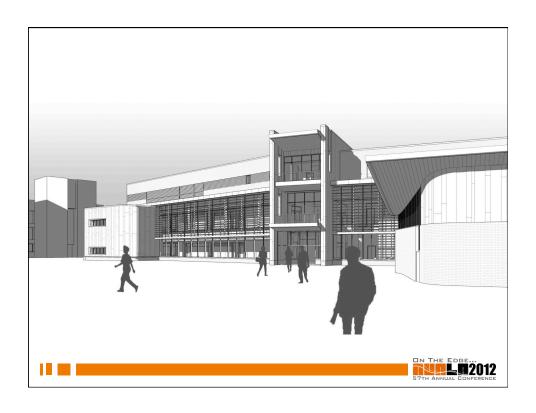


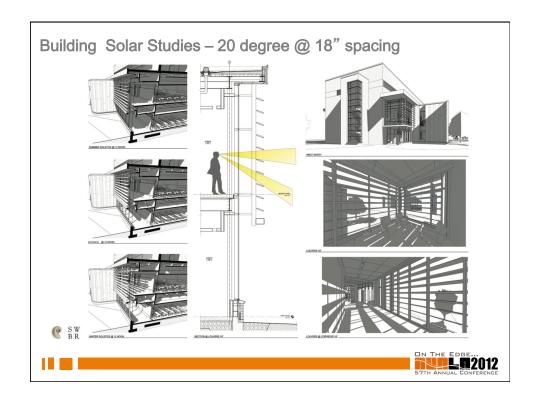




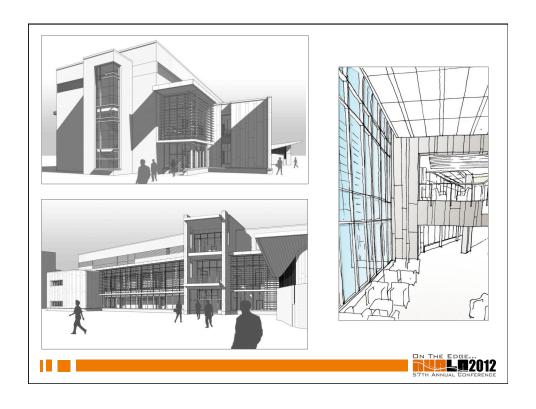














What causes bird collisions?

- Reflection
- See-through
- Passage Effect
- Light pollution makes things worse



THE EDGE ...

Building Comparative Mortality Collisions with Mortality estimate Date of reference Wind turbines 2008 400,000 Cell towers 2008 50,000,000 Power lines 2000 15,000,000 1,000,000,000 Buildings/glass 2006









Project Safe Flight 1998- 2001

- Pre-dawn: Dozens of birds dead or disoriented at base of Towers
- One morning Spring 2000: 65 birds
- Total Count: 2352 birds
- "Skyscrapers were like magnets sucking birds groundward"



Building Night Lighting/ Dark Sky



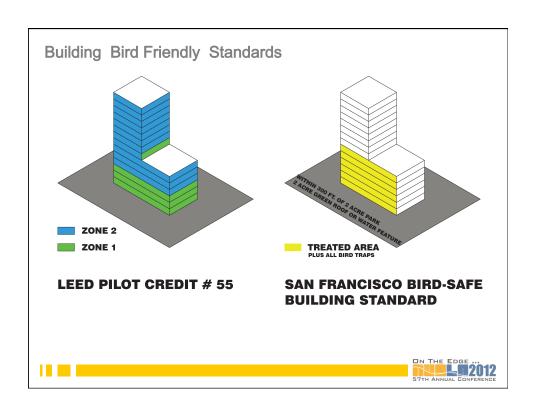












Building Bird Friendly Testing Lab



Building Bird Friendly Standards

2 x 4 Rule:

The majority of birds will not attempt to fly:

- >Between horizontal lines less than 2" apart
- ≻Through vertical lines less than 4" apart
- >Lines should be at least 1/8" wide

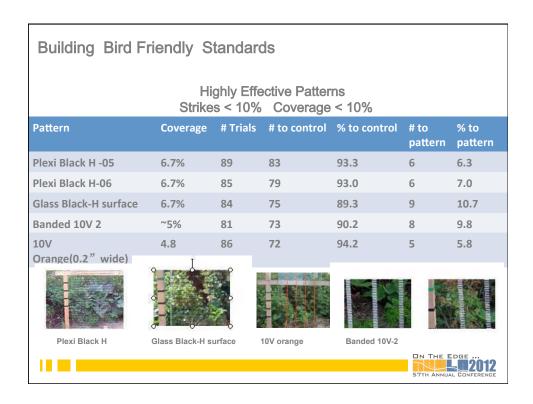
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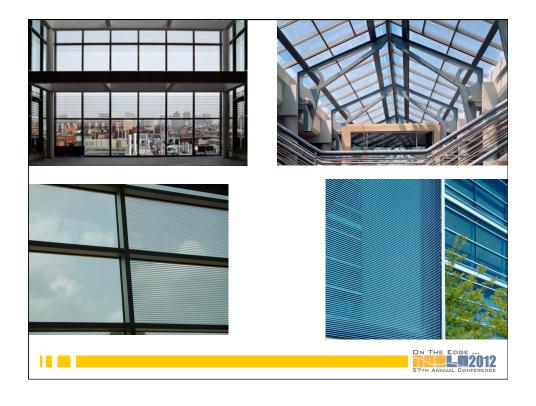


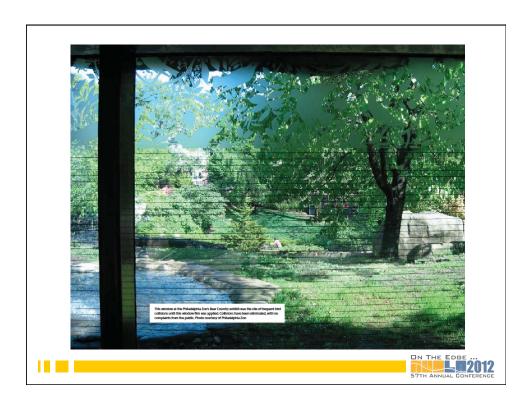


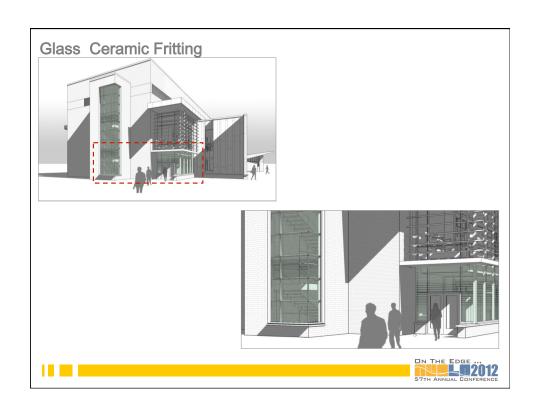


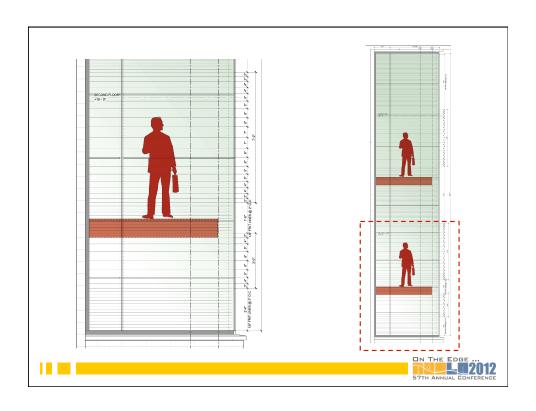


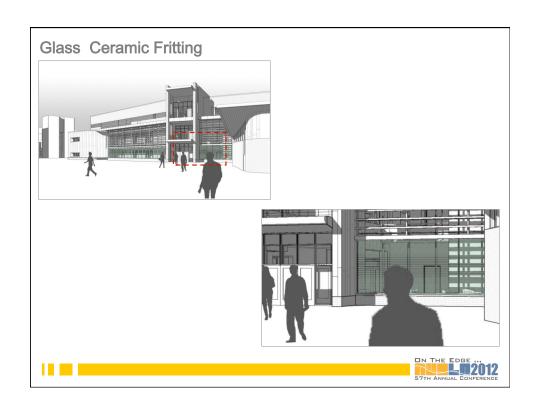


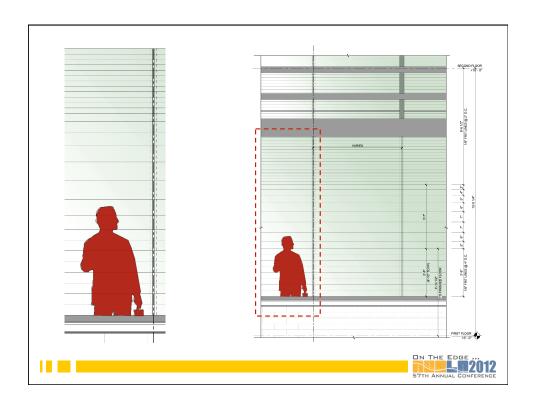














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