

# LUC Richard J. Klarcheck Information Commons

## FIRST PLACE

ASHRAE Excellence in Engineering Award  
*Chapter, Regional, International Levels*

### Project Highlights and Results

- LEED Silver designation because of innovative design and sustainable characteristics.
- 53% energy cost reduction achieved, exceeding predicted value.
- Project results published in numerous industry journals.
- Considered the marquee building on the University's Lake Shore Campus.

### Project Background

<b>Owner:</b>	Loyola University Chicago (LUC)
<b>Location:</b>	Chicago, IL (Lake Shore Campus)
<b>Team/Team Lead:</b>	Don McLauchlan, Steve Maze, Caitlin Levitsky
<b>Elara Role:</b>	MEFPFIT Engineering Design
<b>Type:</b>	New Construction
<b>Construction Cost:</b>	\$28,300,000

### Project Overview

<b>Building Type:</b>	Higher Education
<b>Building Attributes:</b>	3 Stories, 70,000 SF
<b>Initial Construction:</b>	2009
<b>MEFPFIT Systems:</b>	Natural ventilation, Automated motorized shading, Pre-cast heating/cooling radiant ceilings, DCV, Heat Recovery, Daylight harvesting, State-of-the-art DDC

### Innovation

- Building is a leading example for highly innovative design emphasizing Energy Efficiency and Indoor Air Quality.
  - The natural ventilation mode is so effective that the indoor temperature can be maintained within approximately a ½ degree of the outdoor temperature.
  - The audible rhythm of the adjacent lake waves in the natural ventilation mode further enhances the overall aesthetics within the building.
- The resultant savings of the implemented energy efficiency measures ensured lower operating costs and a greater long-term rate of return that more than negated the initial construction cost.
- The building's overall environmental impact was minimized by maintaining a visual, audible and tactile connection with the outdoors through natural ventilation, sound transmission, a green roof, and building transparency.



Photo by James Steinkamp



Photo by Mark Beane