

# Shades of Green: how La Kretz Hall saves energy



**Recycled:** Carpet tiles at the IOE incorporate recycled carpet fibers and ground-up plastic bottles. In the restrooms, the tiles are made of recycled glass. Even the cubicle partitions, Steel-case furniture and the building's steel structure consist of as much as 80% recycled materials.



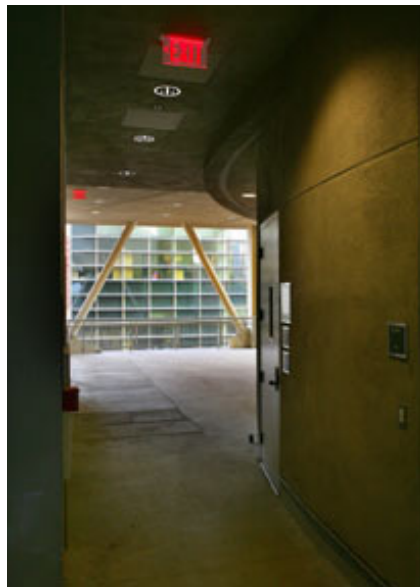
**Smart Fans:** Because people exhale carbon dioxide, there are air quality standards for room air ventilation. Fans in the auditorium turn faster or slower, depending on sensors in the room that measure the amount of CO2 in the air.



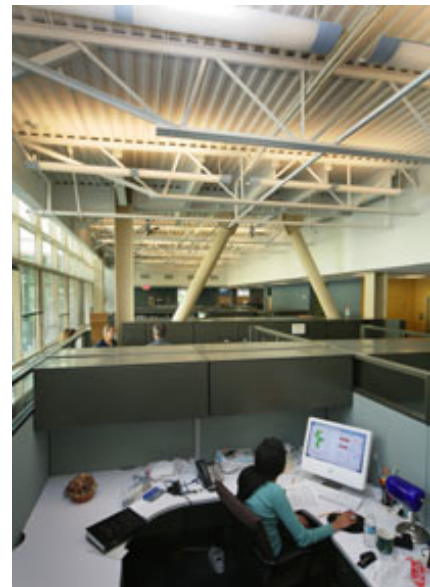
**Heating and Cooling:** To heat the room in winter, small radiators stand at floor level so heat flows into the room at foot level and rises. In the summer, ceiling fans draw in air from lower windows and circulate it to the top where it can be released through higher open windows.



**Bike-friendly:** A shower and changing room await those who get to work by pedal power.



**Floor Plan:** To save energy, the building was designed without internal lobbies or corridors to heat or cool. All the entrances and exits are on the exterior, as is the building's main staircase.



**Sunlight:** Wide expanses of green-tinted glass allow sunlight to flood the office space. The double-paned windows are coated to let in light waves but to block out heat-carrying ultraviolet waves.

**Artificial Light:** Lighting fixtures disperse a hybrid light. Electric light radiates through a light cover perforated with tiny holes to soften it. But the cover also captures light and bounces it back to the white ceiling, which reflects it back out into the room.