UMKC Sustainability Team
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Associate Dean of Libraries

Building Addition

- minimizes site disturbance & preserves green space
- reduces square footage required by traditional book stacks
  - 1/7 the space
  - reduced cost and materials for traditional construction
- provide a high performance building envelope and mechanical system
- exterior of durable, low maintenance materials
- metal screens high in recycled content and manufactured locally
- Construction Waste Management & Recycling program diverted demolition waste from landfills
Green Roof:

- Supplements vegetation on campus
  - improving air quality
  - reduces urban heat island effect
- Uses 28 varieties of sedum which is drought resistant and will provide color most of the year.
- Reduces energy costs with natural insulation
- Absorbs storm water and reduces the need for complex drainage systems
- Provides a lovely view instead of looking out on a black surface.
UMKC Libraries
Automated Storage and Retrieval System
“RooBot”
RooBot:

- Controlled temperature and humidity settings for optimal collection conditions and lower energy consumption
- 1/7 the space of traditional stacks
- Lighting is limited to work spaces
- Daylight in all work spaces
- Traditional shelving is being re-used by other libraries or has been recycled.
Old Shelving:
Re-painted for MNL use or Other libraries

Steel Recycling
Renovation

• Collaborative and quiet learning spaces
• Flexible and multi-functional spaces and furniture
• Variety of furniture to test user preferences for future renovations
• Reuse of former Information Commons furniture
• Furniture made from rapidly renewable resources, recycled content, and regionally harvested materials
• Encourage recycling of paper and bottles
• Water cooler with bottle refill feature
• Any new plumbing fixtures are low-flow to reduce water consumption
• Efficient lighting systems with energy efficient bulbs
• Maximize natural daylight with glass wall partitions
2nd Floor– IS Computer Lab

Libraries
2nd Floor Study Area
Collaborative Learning Spaces
Collaborative Learning Spaces

\[ pK_a = -\log K_a \]

\[ 4.58 = -\log K_a \]

\[ K_a = 10^{-4.58} \]
Collaborative Learning Spaces

UMKC LIBRARIES

reduce
Collaborative Learning Spaces
Flexible Furniture

UMKC LIBRARIES

Coreuse
The iX Theater
Robot Café
Water cooler with bottle fill feature and count

As of July 19, 2011

As of Sept. 19, 2011
What’s Next?

• Classroom Addition
• Parking lot changes
• Renovation of the other library floors
Library Sustainability Web Site:
http://library.umkc.edu/newmnl/sustainability