

# PROJECT PROFILE

## SCHLITZ AUDUBON NATURE CENTER

1111 East Brown Deer Road, Milwaukee, Wisconsin



### OWNER

Schlitz Audubon Nature Center

### SIZE

30,000 sf building on 190 acres along the shores of Lake Michigan

### CONSTRUCTION COMPLETED

April 2003

### DESIGN BUILD

The Kubala Washatko Architects, Inc.

### CONTRACTOR

Jansen Group

## PROJECT DETAILS

### USE OF AVAILABLE ENERGY SOURCES

- Building orientation uses daylighting for work spaces reducing energy needed for lighting
- Building mass stores and releases energy, mitigating temperature swings
- Operable windows facilitate natural ventilation
- Geexchange heat pumps use constant earth temperature to provide both heating and cooling, minimizing dependence on fossil fuels

### CHOICE OF BUILDING SITE

- Building location uses a somewhat deteriorated portion of the site, yet provides open space for solar "window"
- Building site connects to existing trails and provides for creation of adjacent "trail heads"

### CONSTRUCTION

- Thicker wall construction allows greater insulation values
- Exposed concrete floor is the finished floor eliminating the use of additional material
- Overhangs help to control sunlight and reduce summer heat gain
- Site grading at south side of building allows use of windows at basement level for ventilation and light

### BUILDING MECHANICAL SYSTEMS EMPLOYED

- Geexchange heat pumps for heating and cooling
- Natural and heat recovery ventilation
- Low-flow, low water usage plumbing fixtures
- Waterless urinals
- Photovoltaic generation of electricity
- "Cool daylighting" to reduce electric lighting and associated heat loads

### CONSTRUCTION PHASE

- Completed most environmentally destructive parts of construction during winter
- Minimized impact of equipment and deliveries on site
- Contained dust and runoff to minimize effect on site
- Employed construction waste recycling program with help from Wastecap Wisconsin
- Encouraged contractors to take home material cutoffs

### MATERIALS & INDOOR ENVIRONMENTAL QUALITY

- Use of locally available materials to reduce impact of transportation
- Site harvested lumber for timber frame
- Site harvested lumber for exterior decking
- Logs donated from Aldo Leopold family use as porch columns
- Use of recycled content materials to reduce dependence on virgin resources
- Use of durable materials
- Low VOC finishes
- Two week building 'flushout' before occupancy