POSTER TITLE

SECTION HEADER

Text Body:

Location: Ithaca, New York, USA
Client: Cornell University, College of Architecture, Art and Planning
Architects: OMA | Partners: Rem Kool Haas & Shohei Shigematsu
Year: 2006-2011
Project Area: 47,000 square feet
LEED Gold: 2012
Cost: Approximately $37.6 Million / $40 Million Budget
at the cantilevers and maintain open circulation
BASICS: COLOR

www.paletton.com
**Why Collaborate?**

Examining the impact of faculty-librarian collaboration on students' information literacy skill development in the First Year Seminar (FYS)

http://projecturl.com

**BASICS: PROPORTION**

**Methods**
- Start of Semester Student Survey
- Librarian Survey
- Rubric-based Assessment of Student Essays
- Faculty Survey
- Faculty Interviews

**Project Results**

**Starting Points**
- 98% useful school or public library
- 82% did research at the library
- 77% borrowed library materials
- 67% used library database
- 58% consulted a librarian for research assistance
- 64% real library or research instruction

**Relationships**
- 24 librarian-faculty relationships analyzed using the following scale:
  - Collaborative assignment development
  - Faculty integrates some librarians feedback
  - Discussion of course assignments (no changes)
  - Librarian received syllabus, assignments
  - Any contact between librarian & faculty

- 98% useful school or public library
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**We are doing more consulting than collaborating**

1. Most frequent # of classes taught by librarians per FYS.
2. Mean collaboration score
3. Collaborative assignment development
4. Faculty integrates some librarians feedback
5. Discussion of course assignments (no changes)

**Collaboration & Students' Use of Library Information Resources**

- The mean faculty-librarian collaboration score was significantly higher for students who...
- Borrowed Library Materials
- Used the Library's Database
- Using the Library Catalog
- Made a Consortial Book Request
- Enrolled a Librarian for Help

**Where Collaboration Fell Short**

There was no correlation between faculty-librarian collaboration levels and students' higher-level IL skills (based on rubric evaluation of sample essays)

**Overall scores were: Target (4).**
- Research Question Formulation (mean = 2.84)
- Appropriateness of Sources (mean = 2.98)
- Relevance of Sources (mean = 2.4)
- Accurate Acquisition of Sources (mean = 2.75)
- Analysis of Sources (mean = 1.8)

**St. Mary's College of Maryland Team Members**

- Mike Strong
- Colleen Heinnrich
- Cindi Garcia
- Anna Harmel
- Dave Blakeslee
- Linda Williams
- George Moore
- Librarians

**Acknowledgements**

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The project wouldn't exist without the help of Mary Steele, librarian at St. Mary's College of Maryland for her assistance with the rubric component of this assessment project.
Green Roof
- Soil
- Filter sheet
- Drainage
- Protection layer
- Waterproofing
- & roof

Energy Efficiency: Heating and Cooling
- 3.6 million Gallon of Rain Water Savings per year
- 90% Recycled Materials
- 50% Lumber from Sustainable Forests
- 68% Recycled Blue Jeans
- 90% Natural Light/Ventilation
- 10% Electrical Savings
- 30% Energy Consumption Reduction
- 60,000 PV Cells

Suggestions
- Increase number of photovoltaic cells and look into other energy generating solutions
- More research and massaging of the old buildings
- Should have aimed at reducing overall footprint by building upwards and not outward
- Considered options for better HVAC system effectiveness

Sustainable Sites
- Water Efficiency
- Energy & Atmosphere
- Materials & Resources
- Indoor Environmental Quality
- Innovation & Design Process

Green Roof
- Energy Efficiency: Heating and Cooling
- Composting
- Water Retention System
- Usage of natural light
- Environmentally fitting building
- into its surroundings
- Incorporating new elements
- with old elements

Environmental Education
- Water Retention System
- Innovative waste water treatment

California Academy of Sciences
- Renzo Piano
- Arup
- General Contractor: Webcor Builders
- Location: San Francisco, CA
- Date: 2000-2008
- Cost: 500 Million
- Size: 410,000 sq ft

Architect:
Engineer:
General Contractor:

California Academy of Sciences
Sandy Chung & Heather McGinn

BASICS: PROPORTION
**Green Roof**

- Soil
- Filter sheet
- Drainage
- Protection layer
- Waterproofing & roof

**Energy Efficiency: Heating and Cooling Diagrams**

- 3.6 million Gallon of Rain Water Savings per year
- 90% Recycled Materials
- 50% Lumber from Sustainable Forests
- 68% Recycled Blue Jeans
- 90% Natural Light/ Ventilation
- 10% Electrical Savings
- 30% Energy Consumption Reduction
- 60,000 PV Cells

**Sustainable Sites**

- Cafeteria / Biodiversity Center
- Brownfield Redevelopment
- Alternative Transportation / cars to public transportation
- Average Parking
- Reduced Site Disturbance

- Native Plant Species
- Skylight
- Solar Panels

**Essential Savings and Materials**

- 3.6 million Gallon of Rain Water Savings per year
- 90% Recycled Materials
- 50% Lumber from Sustainable Forests
- 68% Recycled Blue Jeans
- 90% Natural Light/ Ventilation
- 10% Electrical Savings
- 30% Energy Consumption Reduction
- 60,000 PV Cells

**Building System Commissioning**

- Optimize Energy Performance
- CFC Reduction in HVAC Equipment
- Renewable Energy
- Ozone Depletion Reduction

**Construction Waste Management**

- Resource Reuse
- Recycled Content
- Local Regional Materials
- Certified Wood

**Innovation & Design Process**

- Transportation Incentives
- Green Building Education
- Flexible Exhibition System

**Architect:** Renzo Piano
**Engineer:** Arup
**General Contractor:** Webcor Builders
**Location:** San Francisco, CA
**Date:** 2000-2008
**Cost:** 500 Million
**Size:** 410,000 sq ft

**BASICS:** PROPORTION

- Green Roof
- Energy Efficiency: Heating and Cooling Diagrams

**Suggestions**

- Increase number of photovoltaic cells or look into other energy generating technologies
- Could have retained and reused more of the old buildings
- Should have looked at reducing building footprint by building upwards and not outward
- Lowered ceilings for better HVAC system effectiveness

**Sandy Chung & Heather McGinn**
BASICS: PROPORTION

CROTON WATER FILTRATION PLANT

GRIMSHAW, BROOKLYN, NY

CLIENT: New York Department of Environmental Protection
ARCHITECT: Grémillon & Partners
LANDSCAPE ARCHITECT: Peter Walker
SIZE: 7.5 million gal per day
COST: $1.2 billion
FUNDING: City of New York
COMPLETION: Open in 2015
WATER FILTRATION: 1.66 million gallons per day

SUCCESSFUL ASPECTS
- New green infrastructure
- High tech architectural design
- The plant can produce 100% of filtered water to the New York City water system
- The design allowed the supply of nearly 15% of a basic drinking water supply, allowing the reduction of water use for potable purposes

UNSUCCESSFUL ASPECTS
- 25% of the plant requires a 25% site area, as well as a 25% in the air
- The plant is not completely green building certified
- The plant will create jobs, but the local residents are not involved in the project
- The location is not optimal for the residents

IMPROVEMENTS
- Green space to all main areas
- Green roofs in all buildings and not just in the potable filtration
- Build惩戒 sustainable materials, paint, and finishes for the project
- Green’s contribution of plants, rather than only for the natural and ecological diversity - green eye system

KEY FEATURES
- Generate energy and climate control systems for the plant
- Reduction of maintenance and operations costs
- Increased energy efficiency and performance
- Site’s hydrology diagram

REGIONAL ANALYSIS
- Site plan
- Of water supply of the Croton Aqueduct
- Of water supply of the Catskill & Delaware Aqueduct

GREEN URBANISM
- Climate and Circular: the project incorporates a complex system of renewable water, taking advantage of existing resources and climate changes
- Water, energy, and buildings are integrated with local resources and remote areas of the water system
- Landscape, water systems, and buildings are high-tech and engineered, and the plant is designed to be green and local

SITE HYDROLOGY DIAGRAM

CELL 7

Improvements
- Green space to all main areas
- Green roofs in all buildings and not just in the potable filtration
- Build惩戒 sustainable materials, paint, and finishes for the project
- Green’s contribution of plants, rather than only for the natural and ecological diversity - green eye system
BASICS: PROPORTION

CROTON WATER FILTRATION PLANT

GRIMSHAW, BROOKLYN, NY

CLIENT: New York Department of Environmental Protection
ARCHITECT: Grimshaw Architects
LANDSCAPE ARCHITECT: Renzo Piano
SUSTAINABLE FEATURES:
- 17,500 square feet of green roof
- 12,000 square feet of walls with vegetation
- Stormwater harvesting for landscaping and irrigation
- Treated water is used for irrigation

SUCCESSFUL ASPECTS
- New green infrastructure
- High-tech infrastructure
- The plant uses technology to treat and filter water
- The design allows for the water to be used multiple times, reducing the amount of water needed

UNSUCCESSFUL ASPECTS
- Cost of the plant was high
- The initial design was not energy-efficient
- The use of treated water was limited

GREEN URBANISM
- Climate and Context: the project integrates a complex system of renewable filtered water, taking advantage of existing resources and climate
- Water usage: the water project involves the use of renewable filtered water, including rainwater harvesting and greywater reuse

IMPROVEMENTS
- Grasses and wildflowers
- Permeable pavements and green roofs
- Natural lighting and ventilation
- Use of recycled materials

Key Features
- Site hydrology diagram
- Site plan
- Regional analysis
- Sustainability
- Green infrastructure
- Water conservation
- Landscaping
- Sustainable materials
BASICS: **CATCHY TITLE**

**“From Echo to Eco”**

**“The Brentwood Billion”**
RESOURCES: PRINTING

Copymat: 10919 Weyburn Ave - $7.50/sf
FedEx Kinkos: 10924 Weyburn Ave - $5.70/sf
Your Architecture classmates