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### CLEVELAND STATE RECREATION CENTER

Do you generate enough wattage to illuminate a light-bulb as you burn 500 calories during your work out on the elliptical machine? The students at Cleveland State University in Ohio may discover the answer to this question in their new 100,000sf Recreation Center Sasaki Associates is designing in association with Weber Murphy Fox. As the lead design architect, landscape architect, and environmental graphics designer, the Sasaki team has spearheaded the effort to integrate sustainable design principles for both building and site from the very beginning of the design process. The University is seeking a Silver level of LEED certification.

The urban context and site constraints result in a northern orientation of our major façade making

daylight a challenge and goal. We have devised an integrated roof system over the large gymnasium and running track that consists of a series of sloping trusses and glazing that should provide ample light levels without distracting glare for most days. Other environment-friendly features are:

- > Reuse of an urban site
- > Inclusion of underground parking
- > High albedo and vegetated green roofing
- > Restoration of over 50% of remaining site to vegetation
- > Capturing of rainwater for irrigation
- > Reuse of gray water for flushing
- > Use of bathroom fixtures that minimize water
- > Use of low VOC and high recycled content interior finishes

In addition, we aim to provide educational value by exposing and labeling energy efficient systems to celebrate a facility that promotes health for itself and its users. The project is at the end of Schematic Design

- NANCY FREEDMAN

### SASAKI TEAM

David Dymecki	Nancy Freedman
Sal Canciello	Cyril Chong
Antonio Furukawa	Alan Ward
Jason Hellendrung	Brian Pearce
Meredith Elbaum	

### DID YOU KNOW?

Sasaki Interiors is working hard towards eliminating all products with PVC from our resource library?

Honeybees were needed to truly complete Herman Miller's "Greenhouse" project? Stay tuned for details in the next issue.



## TECHNOLOGY SQUARE

In 1997, Beacon Capital Partners hired Sasaki to develop a 15.38-acre land parcel located in the city of Cambridge, known as Technology Square. The project included the demolition of 43,500sf of existing buildings, the renovation of thirty-year-old buildings, and the construction of four new buildings with 599,000sf of gross floor area and 622 additional parking spaces.

The team designed this new Research and Development Park to comply with the City of Cambridge's "Towards a Sustainable Future" policy. In this spirit, the development

introduced a wider range of uses, promoted the use of public transit and enhanced the pedestrian friendly environment with public accessible open spaces.

To prevent an overburden of the city's combined storm and sewer system, the design included a separate storm drain and sanitary sewer system within the project site. The storm drain system consists of a series of catch basins with hoods and sumps for debris settlement. Pre-treated runoff is directed to a 150,000-gallon underground storage facility located beneath the public open space green. To further

## DEAR SASAKI GREEN,

**Q:** Where do I find information on recommended Sustainable Design consultants?

**A:** There is valuable information on the Sasaki Green page of the Sasaki Intranet Site. There you will find project checklists for interiors and architecture, a starting point for green specifications, green

project information, green products, and a list of green contacts including sustainable design consultants. Sasaki Green plans to continue to update the site.

## FROM THE EDITOR

The editors invite questions, comments, and suggestions. Email [melbaum@sasaki.com](mailto:melbaum@sasaki.com).

reduce the peak discharge rate, the team installed a 40,000-gallon underground sanitary storage tank that stores 24-hours of sanitary flow during storm events. Completed in 2003, after 6 years of design and construction, Tech Square contributes "Towards a Sustainable Future".

- TING CHANG

*(note: please see Steve Casentini for more info.)*

MANAGING EDITOR  
MEREDITH ELBAUM

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SONJA MARCK, VITAS VISKANTA

## DESIGN

KRIS WALDMAN  
ANNE DAUCHY

## TECHNICAL

CHAD BENNETT

## from the editors

A key element of the Sasaki Vision states, "Our work will demonstrate sensitivity to the environment." Every project, from a regional plan to an interior space, is an opportunity to explore and advance ecological design. The purpose of the Sasaki Green Newsletter is to encourage the sharing of ideas and knowledge of good design practice in the office. I encourage you to contact your discipline assistant editors regarding current 'green design' activity in your work.

*Dennis Pieprz*



## THE UNIVERSITY OF BALAMAND CAMPUS MASTER PLAN

The University of Balamand occupies a dramatic hilltop site in North Lebanon. It commands panoramic views to the Mediterranean, looking over the walls and towers of a monastery dating to the 12th century. Taking advantage of this extraordinary setting, the Sasaki master plan creates a compact, walkable pedestrian environment with an emphasis landscape preservation and renewable energy resources.

Water conservation in Lebanon is a high priority, and the campus currently has high summer water needs.

A planned retention pond will capture water runoff from storms, storing it and making it available for irrigation. Winds on campus are extremely strong, and wind turbines sited according to local wind data will harness this power. Solar heat gain is a major issue in Lebanon, and buildings will be sited to minimize summer solar heat gain. Proposed solar panels on specific buildings will capture solar energy to add to the campus power supply.

Vegetation by buildings will also minimize summer solar heat gain, while the use of native species will lower water and maintenance expenses. A major landscape



preservation area will be created adjacent to campus, and historic olive terraces from the monastery's past will be preserved as a specific protected area.

Along with the master plan, both landscape and urban design guidelines were created to ensure the implementation of these environmental design strategies.

### SASAKI TEAM

Anthony Mallows, PIC  
Dennis Pieprz, Design Principal  
Philip Parsons, Educ. Planner  
Peter Hedlund, Landscape Architect  
Nayla Naufal, Planner  
Stephen Kun, CAD  
Pablo Savid, Architect  
Roberta Doocey  
Riki Nishimura  
Laura Incatasciato

- PETER HEDLUND

## tech corner

### BETTER-THAN-AVERAGE CARPETS AND PRODUCTS

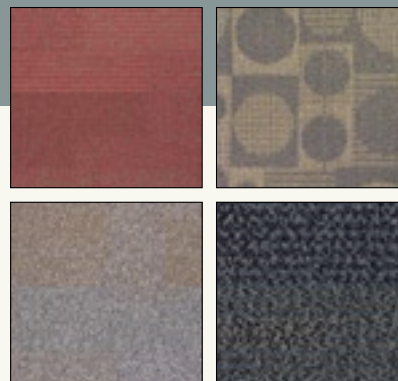
#### CARGILL DOW

The hot news is about "Ingeo" – "the world's first man-made fiber from 100% annually renewable resources", this corn-derivative fiber takes any plant containing sugar and turns it into lactic acid which can then be woven into fabric and tufted into carpet. [www.cargilldow.com/ingeo/home.asp](http://www.cargilldow.com/ingeo/home.asp)

#### INTERFACE FLOORING

Over the past few years, Interface has poured a lot of corporate energy into making their products and processes sustainable. Here are some highlights:

InterfaceFlor – The new residential division of Interface Carpet (commercial); manufactures the only 100% "Ingeo" floor covering in the U.S. [www.interfaceflor.com/cgi-bin/flor/ecoflor.html](http://www.interfaceflor.com/cgi-bin/flor/ecoflor.html)



"Entropy" (Interface) – Commercial carpet tile that creates 14% less waste than ordinary carpet tiles.

"Departures" (Interface) – The first commercial carpet product to contain "Ingeo," this is a carpet tile constructed of 1/3 "Ingeo" and 2/3 nylon blend. [www.interfaceflooring.com](http://www.interfaceflooring.com)

Interface also has in place a service called ReEntry, which has reclaimed over 1/2 million yards of carpet; After reclamation the carpet is ground, separated and used to produce "Glasbac", its 100% post-consumer recycled vinyl carpet tile backing.

[www.interfaceinc.com/us/services/Reclamation/](http://www.interfaceinc.com/us/services/Reclamation/)

# sasaki green updates

## BINDER RESOURCE SYSTEM

site green

Sasaki Site Green is firmly committed to the stewardship of the earth's natural and cultural resources; Consideration and incorporation of innovative sustainable design solutions is the foundation of our work at the interface of the natural and built environments.

Over the past few months, the SiteGreen initiative has developed a "Binder Resource" system (located in the landscape architecture river wing) that will serve as in-house resource for "green" topics including: stormwater, groundwater, wastewater, materials, green roof and brownfields. In addition, the SiteGreen group has compiled a "Sustainable Design" checklist that will serve as a reference tool at the onset of new projects and throughout the duration of the design process. The checklist is currently under review by all landscape architecture and civil staff members.

## CURRENT PROJECTS

**Cleveland State University Recreation Center**  
SD - LEED™ Silver Goal

**MIT Sloan School** - SD completed, on hold - LEED™ Silver Goal

**Northfield Mt. Hermon Student Housing** - SD - LEED™ Certified Goal

**University of Vermont Catamount Apartments**  
CDs completed, construction on hold - LEED™ Certified Goal

**The College of William & Mary Barksdale Student Housing** - DD completed, CDs likely to start soon - LEED™ Certified Goal

**Evergreen Valley College Performing/Visual Arts Center** - San Jose, CA - CDs - LEED™ Silver Goal

## NEW GROUP

planning green

Planning Green is a group of individuals dedicated to the promotion and advancement of green planning and design within the Planning Discipline. The group hosts a topical reading/research series that is open to all within Planning. The series focuses on establishing a baseline knowledge of green planning issues and identifying opportunities to apply green planning principles on Sasaki projects. For each topic pursued, a presentation is developed for the entire discipline, providing the larger group with basics about the selected topic, and directing those who

are interested to sources for additional reading and reference. Each presentation is developed using PowerPoint and then filed in the Sasaki Green project folder (see 23760.03/projmgmt/PlanningGreen/ppt) for future reference and availability to all in Sasaki.

Our first presentation, in January 2004, addressed the question of how a green planner would analyze solar and wind impacts to site buildings and landscape elements. A survey undertaken during that month showed a broad interest within

## OUR GOALS

space green

The Interiors/Architecture Green group goals are to: Improve and expand knowledge beyond the core group. Understand the positives and negatives of green design. Have an integrated process between disciplines at Sasaki and with our consultants. Lead by example, and Expand our presence in the market

The group is focusing in 4 main areas of Education/Distribution, Resources, Process, and Research. Current initiatives include purchasing books, creating a binder system for products and information, developing a best practices checklist for interiors, and holding educational seminars. The group meets the last Wednesday of every month.



the Planning Discipline in this topic and a variety of other green issues. The March and April study/presentation topics are smart growth and transportation-oriented-development.

Planning Green does not have a mission statement, but plans to develop one later in the year, after the green topics identified as being of greatest interest have been studied and discussed.

## IMPLEMENTING SUSTAINABILITY

sf green

Legislation by the University of California system has sent the San Francisco office scrambling to implement a sustainable design practice. In 2003, the UC system, our major client on the west coast, called for all projects to target LEED certification as a minimum project goal, and LEED Silver wherever possible. The impact is widespread, with planning, landscape, architecture and interiors all on the same steep learning curve. Strategic implementation of green strategies, material and system research, specifications, successful project teaming, and "Green" marketing have been particular focuses of the practice. We currently have four LEED accredited professionals, and plan to double this number in the next few months.

- > **Jane Zimmerman** and **Meredith Elbaum** passed the LEED Professional Accreditation Exam
- > LEED Study Groups meet 7:30 am Wednesdays in Watertown and Tuesdays and Friday evenings in San Francisco. For information on LEED go to [www.usgbc.org](http://www.usgbc.org)
- > Sasaki's **Scott Smith** and **Maureen O'Leary** along with **Philip Haves** of LBNL and **Peter Alspach** of ARUP will be presenting Analysis Techniques for Sustainable Design Solutions at the 2004 AIA National Convention and

Design Exposition Friday June 11th from 4:00 to 5:30.

- > Sasaki Watertown changed their paint specifications to Benjamin Moore EcoSpec Low VOC [www.benjamin-moore.com/wrapper\\_pg3.asp?L=prod&K=intprods&groupid=28](http://www.benjamin-moore.com/wrapper_pg3.asp?L=prod&K=intprods&groupid=28)
- > Interiors developed a "top ten to do green" list that was presented on April 7.
- > **Cathy Bell** and **Jane Zimmerman** will be attending EnvironDesign8 April 21-23 in Minneapolis [www.isdesignet.com/ED/index.html](http://www.isdesignet.com/ED/index.html)

- > **Julie Hendricks**, **Meredith Elbaum**, **Nancy Freedman**, and **Christiana Linera** attended the North East Sustainable Energy Association Conference in Boston see [www.nesea.org](http://www.nesea.org) for conference info.
- > Watertown viewed a screening of Blue Vinyl in March. Stay tuned for a follow-up presentation on reading between the lines when selecting products
- > Individuals have been given access to the Building Green online suite – contact David Damon if you would like access [www.buildinggreen.com](http://www.buildinggreen.com)



Evergreen Valley College Performing/Visual Arts Center - San Jose, CA

- > To see the winners of the 2004 Northeast Green Building Awards go to [www.nesea.org/buildings/buildingawards/2004winners.html](http://www.nesea.org/buildings/buildingawards/2004winners.html)
- > In March, **Fred Merrill** and **Ted Schirmacher** attended the Greenprints conference in Atlanta see [www.southface.org/home/Greenprints/g2k4/g2k4index.html](http://www.southface.org/home/Greenprints/g2k4/g2k4index.html)

## DID YOU KNOW?

The TOP 2 "environmentally effective" things that each of us can do according to The Consumer's Guide to Effective Environmental Choices are: DRIVE LESS and EAT LESS MEAT!

If you are in the market for a new home appliance, you can check out the following web sites to find tips on buying an energy efficient appliance, as well as listings of the energy efficiencies of appliances now on the market:

- > [www.aceee.org](http://www.aceee.org)
- > [www.energy.ca.gov/efficiency/appliances](http://www.energy.ca.gov/efficiency/appliances)
- > [www.energystar.gov/](http://www.energystar.gov/)

The Sasaki Vision Statement states that "Our work will demonstrate sensitivity to the environment."

The **Green Laboratory Group** has been established to look at the operations and energy needs of the physical plant at Sasaki so that we are literally demonstrating sensitivity to the environment in our own backyard. The concept is that we will use our physical building and policies as a laboratory to test environmental ideas, products, and designs.

The Green Laboratory Group has been divided into 6 different teams. Each team will analyze a different aspect of the office and will focus on implementing changes:

- PURCHASING** What does Sasaki buy?
- WASTE** How much waste does Sasaki produce?
- SITE** What is Sasaki's impact on it's site?
- ENERGY** How much energy does Sasaki use?
- TRANSPORTATION** What is the impact of Sasaki's commute to work?
- I.A.Q.** What is the quality of Sasaki's interior environment?

## CONSULTANT'S CORNER

**James Andrew Dobbin**  
**President, Dobbin**  
**International Inc.**

Integrated Coastal  
Management (ICM) Planner |  
Regional Development Planner

Jim graduated from the University of Toronto with a Bachelor of Landscape Architecture and from Harvard University GSD with an MLA. In 1976, he established the first firm specializing in Integrated Coastal Management (ICM) planning—extending the principles of land planning to coastal and marine regions. Since then, he has worked around the world on a wide range of projects that incorporate

environmental, terrestrial and marine science, coastal engineering, architectural, macroeconomic, legal, and international development issues in the planning and design process. He looks forward to the prospect of creatively combining Sasaki and Dobbin specialties in future work. Do drop by his desk at Sasaki and chat, and if you wish to see some of his work, visit [www.dobbin.org](http://www.dobbin.org).

# calendar

## april

- |       |   |       |   |    |   |
|-------|---|-------|---|----|---|
| 14    | AIA/COTE 8am Boston Society of Architects / AIA 52 Broad Street, 5th Floor Boston | 21    | Trex Decking Presentation 12:00pm Watertown Great Space   | 28 | Watertown LEED Study Group 7:30am-8:30am Lower Overlook   |
| 15    | How to design with Solar-Solar Design Associates 12:15pm Great Space              | 21    | Restoration & Renovation Conference Boston Hynes Convention Center <a href="http://www.restorationandrenovation.com">www.restorationandrenovation.com</a> | 28 | Space Green 12:15pm EDO   |
| 14-15 | CERES 2004 Conference – Boston Hyatt Regency Hotel                                | 21    | Tour Rhode Island's First "Green" Building – 17 Gordon Avenue, Providence RI rsvp to 978664 1110  | 30 | Mass Energy Boat trip to Wind Turbine in Hull MA <a href="http://www.massenergy.com">www.massenergy.com</a> |
| 20    | Site Green 12:00-1:00pm   |       |   |    | <input type="checkbox"/> San Francisco LEED Study Group meets Tuesday and Friday Evenings                   |
| 21    | Watertown LEED Study Group 7:30am-8:30am Lower Overlook                           | 21-23 | EnvironDesign8 – Minneapolis  |    |   |

## may

- |    |   |    |  |    |   |
|----|---|----|--|----|---|
| 4  | Site Green 12:00-1:00pm EDO   | 13 | NAIOP Breakfast Presentation. Dan Tishman will speak about the reconstruction of the World Trade Center and its green initiatives. 7:30am-9:00am Boston Harbor Hotel Wharf Room <a href="http://www.naiopma.org">www.naiopma.org</a> | 26 | Space Green 12:15pm EDO   |
| 5  | Watertown LEED Study Group 7:30am-8:30am Lower Overlook   |    |  |    | <input type="checkbox"/> San Francisco LEED Study Group meets Tuesday and Friday Evenings |
| 7  | Indoor Air Quality Symposium 8:00am-7:00pm BSA @ Omni Parker House <a href="http://www.architects.org/IAQsymposium">www.architects.org/IAQsymposium</a> | 18 | Site Green 12:00-1:00pm EDO  |    |   |
| 12 | AIA/COTE 8am Boston Society of Architects / AIA 52 Broad Street, 5th Floor Boston   | 19 | Kalwall Translucent Panel with Nanogel Presentation 12:00pm Great Space  |    |   |

## june

- |       |   |    |  |    |   |
|-------|---|----|--|----|---|
| 1     | Site Green 12:00-1:00pm EDO   | 15 | Site Green 12:00-1:00pm  | 28 | Driving Down the Cost of LEED: Advanced Workshop. 8:00am-5:00pm Tufts University <a href="http://www.paladinoco.com">www.paladinoco.com</a> |
| 9     | AIA/COTE 8am Boston Society of Architects / AIA 52 Broad Street, 5th Floor Boston | 18 | SASAKI GREEN DAY – an all day office wide event. Stay tuned for details. |    | <input type="checkbox"/> San Francisco LEED Study Group meets Tuesday and Friday Evenings   |
| 10-12 | AIA National Convention & Design Expo – Chicago                                   |    |  |    |   |

 = conference  = Sasaki Watertown  = Sasaki San Francisco

## RESOURCES

### NEW IN THE LIBRARY

- > Green Architecture by James Wines
- > The Pittsburgh Papers compiled by the Environmental Building News
- > Ecological Design & Planning edited by George Thompson and Frederick Steiner
- > The HOK Guidebook to Sustainable Design by Sandra Mendler and William ODell

### WEBSITES

#### [www.buildinggreen.com](http://www.buildinggreen.com)

Need to find information on a green product or want to learn about sustainable parking lots. This is your first source for information

[www.eere.energy.gov/buildings/highperformance/case\\_studies/](http://www.eere.energy.gov/buildings/highperformance/case_studies/)  
A great source for case studies. You can even add your own.

#### [www.usgbc.org](http://www.usgbc.org)

Keep up to date with the latest from the United States Green Building Council