



photo: Alison Kwok

Picture yourself enjoying the Oregon sun at Sitka Center for Art & Ecology (Cascade Head), the site of our 2004 summer retreat.

TAKE THE SBSE 2004 RETREAT QUIZ!

The session and session leader groups are scrambled! Please help me decipher it; use red lines and balloons to indicate the proper alignment. Send me your helpful correction or find out the truth at the retreat, July 7-10, 2004. Register now <<http://www.sbse.org>>!

SESSION

1. METHODS AND MODELS

Architecture and Public Health

Research Methods for Undergraduates

Perceiving a Site

2. CURRENT RESEARCH

Research in Practice

Do Architects Learn What They Need to Know?

Forms of Feedback: Lessons in Living

3. RESOURCES AND TOOLS

If Chiang Mai, Thailand, Can Build a Heliodon, So Can You

Comparing Bldg. Simulation through Daylight Monitoring

Introduction to Bldg. Simulation

4. CASE STUDIES

Post-Occupancy Evaluation: Mid-Course Peer Review

AoC Applied to Building Construction

Closing the Loop through Physical Ambience Studies

5. ROUNDTABLES

SBSE web site future

Teaching in the Next 20 Years

Infrared Cameras

SESSION LEADERS

GROUP A

Harvey Bryan, ASU

Norbert Lechner, Auburn

Terri Meyer Boake, Caroline Prochazka, UWaterloo

GROUP B

Diane Armpriest, UIIdaho

Claude Demers, André Potvin, Laval

Sandra Mallory, Environmental Works

GROUP C

Robert Marcial, PG&E

Jim Wasley, UWM

Hofu Wu, CalPoly Pomona

GROUP D

Bruce Haglund, UIIdaho

Christine Theodoropoulos, Ryan Smith, UO

Katy Janda, Oberlin

GROUP E

Leonard Bachman, UHouston

Lisa Hescong, HMG

Chris Theis, LSU

-Alison Kwok

SBSE CALENDAR

2004

Apr 29-May 2 TIA/SBSE POE Conf; Windsor, UK

Jun 2-4 ARCC/EAAE Conf; Dublin, IE

Jun 26-30 ASHRAE Conf; Nashville, TN

Jul 7-10 SBSE Retreat; Cascade Head, OR

Jul 11-14 ASES Solar 2004; Portland, OR

Jul 13 SBSE Annual Mtg; Portland, OR

Jul 15 Tool Day; Portland, OR

Aug 5-7 AoC Workshop; Santa Barbara, CA

Oct TBA AoC Workshop; East Coast, USA

2005

Jun 25-29 ASHRAE Conf.; Denver, CO

Aug 8-12 Solar World Congress; Orlando, FL



photo: Walter Grandzik

Last year SBSEers hung out on the Waycross deck.

LETTER TO THE EDITOR

I miss your smiling face and Hawaiian shirts! We're making great strides in putting together our holistic view of workplace performance consulting that 'hard-nosed' developer types will also understand. It's not been an easy task as each party quickly falls into the 'my area is more important than yours' trap. But, headway is being made.

My personal focus has been more and more on the relationship between innovation and strategy. I have been spending some time with Shell, participating in their expert workshops as they look twenty years ahead. I've had the privilege of working with some of the world's leaders in technology as they assemble their technology roadmap. Knowing about what might happen is both terrifying and thrilling. I have a new lecture put together entitled, 'Drivers of Change,' that is keeping me busy—starting the internal lecture circuit with this one in the middle of February and looking for schools that might be interested in hearing it later this spring (hint, hint).

London is still struggling with the unexpected success of congestion charging; it reduced traffic so much that the merchants are starting to close shop, the malls on the outskirts are doing a booming business, and the taxpayer is required to fund the program since the fines don't bring in enough income to meet costs. Ahhh, the logic of it all! Right up there with those good old WMDs (words of meaningless drivel) that seem to spout from elected officials everywhere these days.

—Chris Luebke, Arup

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SBSE News is published quarterly by the Society of Building Science Educators, a not-for-profit corporation. Submit material for publication to Bruce Haglund, Editor; Department of Architecture; University of Idaho; Moscow, ID 83844-2451; phone 208.885.6781; fax 208.885.9428; e-mail <bhaglund@uidaho.edu>; before the first of March, June, September, or December. Direct membership and mailing list inquiries to Sandra Mallory, Secretary-Treasurer; Environmental Works; 402 15th Avenue East; Seattle, WA 98112; phone 206.329.8300; fax 206.329.5494; e-mail <smallory@eworks.org>. To join our list server or to manage your account go to <<http://www.lists.uidaho.edu/mailman/listinfo/sbse>>. Visit our home page <<http://www.sbse.org>>. ||

AOC—FOUR DAYS IN PHOENIX

For four clear, beautiful days in January, I visited Phoenix with two graduate students as participants in the 2004 Agents of Change workshop focused on Will Bruder's Phoenix Public Library. As a relatively new teacher, it was a rewarding and enlightening experience.

There were several important aspects of my trip, including a chance to spend two full days trying to analyze and critique an important contemporary building. Yet the most significant aspect was the opportunity to get to know colleagues and students from a wide range of universities. In particular, I appreciated the generosity among the faculty members present—their willingness to share their thoughts and suggestions on teaching building technology, performance, and environmental ideas. There was a communal spirit in Phoenix—quite different from my experiences at other academic conferences.

Since my return, I've enjoyed recounting our trip to Paolo Soleri's Cosanti in Scottsdale (organized by our hosts, the faculty of Arizona State University). Luckily we visited while Paolo was in residence, and he was willing to sit with our large AoC group for a few minutes in a shady spot. His philosophy, seemingly abstract and remote in his writings, became a lot clearer under those olive trees. And I give him credit for answering my challenging question about what he has learned about keeping water out of concrete during his many years of experiments by simply looking around and with a wink saying, "Next question?"

Thank you for the chance to see a good building and test the hypothesis-driven case study method. I've asked the two UVA graduate students who attended the workshop to briefly state their thoughts.

—John Quale



John Quale (UVA) prowls the library stacks with high-tech AoC gear.

photo: Tisha Egashira



photo: Tisha Egashira

With teammates Steve Porterfield (UI) and Vidhi Agarwal (ASU), Phoebe Richbourg prepares their final presentation.

"My Agents of Change experience helped me conceptually integrate the case study process with design process. At the University of Virginia the greater curricular investment is in the latter. Therefore, taking a scientific approach over those three days to study the Phoenix Central Library informed my perspective of the efficacy of built environments and of the potential of the scientific-method to both inform and learn from design.

In my recent experience in Barcelona for studio Arch 602, I was able to experience and be critical of the examples in the city with a unique perspective on sustainability, thermal comfort, etc. I would definitely recommend the case study method as a learning tool. I would also strongly recommend Agents of Change for the exposure to this method as well as the discussion for its potential use in addressing the larger concerns of sustainability."

—Phoebe Richbourg

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“Agents of Change was an informative and rewarding experience. It allowed me to translate the impressions I had of the Phoenix Public Library, based mostly on photographs, into an understanding of its spatial qualities and the way energy flows through the building. It helped substantiate my belief that on-site, hands-on architectural analysis should be an integral part of architectural education and should more regularly complement the abstract analysis of plan, section, and diagram.



Ben Spencer checks out air movement among the stacks.

photo: Trisha Egashira

The strengths of the conference outnumber its weaknesses. I'll get the weaknesses out of the way first. I believe it would be productive to encourage participants to do some analysis of the case study building before they arrive to give them a foundation of knowledge that they could substantiate or refute when they visited the building. Second, the training on the instruments was a bit too brief. I would have liked a more rigorous explanation of their use.

I hope the following strengths will find their way into educational institutions and continue at subsequent AoC conferences. First, helping participants formulate a hypothesis was very helpful. It allowed us to focus on a limited set of issues that we could explore in depth within a limited time frame. We gained insight into microclimate as an interior phenomenon by focusing on half the library's reading room and a limited number of environmental criteria. Second, Will Bruder's presentation on the library allowed us to compare his intentions with their manifestation in built form (it also helped improve my personal impressions of Bruder). Third, working with a team, rooming with people from other institutions, and group discussions involving everyone at the conference allowed me to establish connections with people who have interests similar to mine. Universities can be insular places. The more we branch out and communicate with one another, the more progress we will make in transforming the environmental ethics of architecture.

Thank you for inviting UVA and good luck spreading the AoC message. I'll do what I can to help.” ■

—Ben Spencer

LETTER [CONT.]

[Looks like the door is still open for SBSE scholars at Arup. It sounds like London is struggling with the success of reduced congestion—yet they're extending the C-zone boundaries!?!—ed.] ■

SHINY BUILDINGS UPDATE

A *Los Angeles Times* article by Jia-Rui Chong appeared in my local paper on February 29 reporting, “To a handful of condo owners whose units face Disney Hall, the view of the Frank Gehry landmark is glorious—until around noon on a sunny day. Then the sun hits the stainless-steel arches on the hall's Founders Room, and bright light *[and solar heat—ed.]* is reflected into their condominiums. Soon the temperature rises as much as 15 degrees, forcing residents to get off their patios, draw the blinds, and turn on the air-conditioner for up to three hours until the sunlight shifts. Residents began complaining about the glare in late June soon after workers peeled off a special film that covered the steel during construction.” Of course Gehry's office blamed the type of steel used, slight errors in construction, and other externals beyond their control. As a stop-gap a \$6,000 mesh has been installed over the offending shiny steel. ■

—Bruce Haglund

TRIPPING THROUGH THAILAND

Some of you may remember Sombat (his last name is too long for anyone to remember or pronounce) *[It's Thiratrakoolchai! —ed.]* who taught at Cornell and other schools for many years. He has returned to his native Thailand where he is now the dean at the architecture school at Chiang Mai University. He asked me to help his school build a heliodon much like the one I have at Auburn. I sent him working drawings and agreed to go to Thailand to make sure it was constructed properly and to show his school how to use it. (I'll give these drawings to anyone who wants to built such a heliodon.) I also agreed to give lectures and workshops on sustainable architecture. Last December I spent 4 days at Chiang Mai University which plans to become an “international university” where the education will be in English. Much of the faculty and student body have begun that transition.

My wife and I arrived in Bangkok on December 20, 2003. We spent 2 days there recuperating from jet lag. We were given a wonderful tour of the city by Professor Ekkachai and his wife. Bangkok is both modern and exotic—a wonderful city to visit.



The heliodon construction crew and their oeuvre.

photo: Norbert Lechner

On December 23 we flew to the second largest city and ancient capital of Thailand, Chiang Mai in the north where the Himalayan foothills begin. Thus, it is both cooler and more scenic than Bangkok. The campus, at the base of a mountain, is very beautiful.

We then flew to southern Thailand, a major tourist destination in Asia because of its beautiful beaches, bays, and scenic rock formations. We thoroughly enjoyed every minute of our visit to Thailand. Besides the natural and designed beauty, the people are extraordinarily friendly.

As a self-imposed bonus, on our way home we stopped in Japan for 4 days. We took the bullet train from Tokyo to Kyoto, the former capital of Japan, which is rich in traditional architecture. ■

—Norbert Lechner

SBSE PEOPLE

■ **Ihab Elzeyadi** and Donald Peting (Oregon) received the Joel Yamauchi Memorial Studio Award from MulvannyG2 Architecture of Seattle, WA, for their co-taught double studio; “Recycling Buildings,” that focused on engaging students in adaptive reuse and sustainable planning for the at-risk historical fabric in Portland, OR. They employed a pedagogy that considers issues of sustainable design, historic preservation, and community building as part of an integrative design process.

☞ Joyce Lambeth, widow of **Jim Lambeth**—famous for solar and other energy works—died Saturday, January 31, only 10 months after Jim passed from a heart attack. They were both heavily involved in renovation and operation of an historic women’s dormitory on campus that opened a few months ago as a hotel and gourmet restaurant—the center for the UArkansas Hospitality degree program. (UA once held first-year architecture design classes in the now elegant dining room.)

♣ The Institute of Environmental Sciences and Technology has named **Tengfang (Tim) Xu** a recipient of the 2004 Willis J. Whitfield Award. The award citation reads: “To Tengfang (Tim) Xu for his numerous published papers in the field of contamination control and for his support of IEST programs.” Formal announcement will be made as part of the Keynote and Awards Ceremony on Tuesday, April 27, 2004, at ESTECH 2004 in Las Vegas, NV. ■

JOB OPS

LAWRENCE TECHNOLOGICAL UNIVERSITY

Assistant Professor of Environmental Systems. Candidates for this tenure-track position should be proficient in the field of environmental systems, primarily HVAC, and in specialist areas such as lighting and acoustic design. Candidates must possess a master’s degree in architecture or engineering with a doctoral degree and/or professional registration preferred. Applications will be reviewed commencing March 15, 2004, and the review process will continue until the position is filled. Info from <faoro@ltu.edu>. ■

—Daniel Faoro

VIRTUAL RESOURCES

EBN’S BUILDINGGREEN SUITE

Looking for a curriculum resource that will give your students breadth and depth of information on sustainable building design concepts, issues, and practices? BuildingGreen might be able to help. Have your students sign up for access to the newly expanded online resource, the *BuildingGreen Suite*.

If you are familiar with the carefully researched, in-depth content in the monthly publication, *Environmental Building News (EBN)*, this past November BuildingGreen added the content from more than 12 years of *EBN* to our web resource called the *BuildingGreen Suite*. Normally \$199 a year, we are offering a sweet deal for you and your students. For only \$39 each, every student in your course can have 4 months’ access to the Suite, and you get a free year’s access.

With *BuildingGreen Suite*, each student can search the full archive of *EBN*, explore over 1,750 green building products with descriptions written by *EBN* editors (not the manufacturers), and peruse more than 70 case studies of high-performance building projects. On top of that, we will sweeten the deal with a copy of the *EBN Archive CD (6.0)* for each student so they have something to walk away with when the course is done. Always on the cutting edge, our good friend Jim Wasley is one of the first to require a class to subscribe to the Suite. He says, “For information I use *EBN* feature articles as the core text for my green building seminar. There is also a term paper requirement, and I assume that the entire Suite will come into play in research for that.”

If you have questions or want to sign up your class, give us a call at 1.800.861.0954, or email me <jerelyn@buildinggreen.com>. Thanks, and keep up the great work!

—Jerelyn Wilson

PUBLIC SERVICE VIDEOS

Excellent public service announcement videos are available from Earth Communication Office <<http://www.OneEarth.org>> or <info@oneearth.org>. These high-quality videos are 60–90 seconds long, describing various environmental problems and solutions. I first saw one at an ASES keynote address. The narrators are top quality—Patrick Stewart talks about planet earth, and who would know more about planet earth than the captain of the starship Enterprise? Of the twenty or so shorts that are available, I just show five, one or two at a time. A great way to start a class.

—Norbert Lechner

VIRTUAL LIGHTING LABORATORY

I have installed the first digital addressable lighting laboratory (DALI) in the U.S. (see <<http://www.dali-org>>) at Penn State in the Department of Architectural Engineering. Every lamp can be controlled, dimmed, or switched locally or remotely. The 1200 ft² lab with about 70 fixtures includes color-changing fixtures, TV lights, spotlights, and typical commercial lighting. New items that have not been demonstrated before include DALI spotlights and real time remote control, via web cam and web browser, of any lamp from anywhere in the world. Ask <mm12@psu.edu> for a web cam and log-in passwords if you want to control the camera and the lights from your desktop. Details at <<http://www.personal.psu.edu/mum13/pa2.pdf>>.

—Martin Moeck

BIPER NEWSLETTER

The Building Industry Professionals for Environmental Responsibility (BIPER) was formed in 1995 to develop solutions to environmental problems related to the construction industry. BIPER provides a range of resources at <<http://www.biperusa.biz/>> to keep all those interested in green building informed of the many choices available to help them make educated decisions about which new products and designs best fit their needs. *BIPER News* (free via e-mail) and their web site serve as communication tools for the design and build industry.

—Norbert Lechner

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PHENOMENOLOGY NEWS

Published three times a year, *Environmental and Architectural Phenomenology Newsletter* is a forum and clearinghouse for research and design that incorporates a qualitative approach to environmental and architectural experience. One key concern of EAP is design, education, and policy supporting and enhancing natural and built environments that are beautiful, alive, and humane. Realizing that a clear conceptual stance is integral to informed research and design, the editors emphasize phenomenological approaches but also cover other styles of qualitative, descriptive research. Exemplary themes include: sense of place; architectural and landscape meaning; changing conceptions of space, place, and nature; home, dwelling, and journey; environmental design as placemaking; the practice of a lived environmental ethic; and the experienced qualities of architectural materials, structures, and systems. The EAP web site, including a sample issue and past articles and reviews, can be found at <http://www.arch.ksu.edu/seamon>.

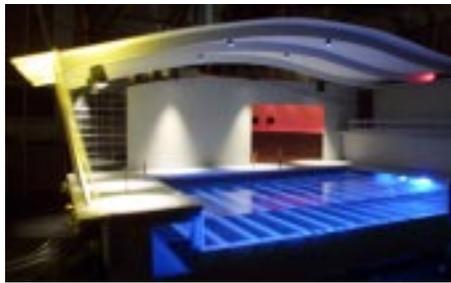
—David Seamon

FIBER OPTICS AND MICRO FIXTURES

Light study in scale models no longer is limited to daylight. Developments in the fabrication of miniature luminaires with fiberoptic illuminators allow designers and researchers to accurately model light in real time, in scale models. Originally developed for the rigors of museum lighting, miniature fixtures are rapidly advancing in variety and sophistication, duplicating theatrical and traditional directional fixtures. Recently adapted for theater and architectural scale-model studies at the University of Florida, miniature lighting kits have been applied to architectural and theatrical scale models providing great promise as design, research, educational, and visualization tools. Supported by the Nuckolls Fund for Lighting Education in 2001, professors Stan Kaye (theater and dance) and Martin Gold (architecture), as part of an interdisciplinary lighting design course, adapted Luxam fiberoptic miniature fixtures for scale modeling. They have continued to work with the Luxam Corporation to expand and improve the range of fixtures available and to develop “kit-of-parts” complete systems as requested by other schools, practitioners, and researchers. The micro fixtures light source and precise optical train provides extremely high light levels, tight control over the beam angle, focus, color, and color rendering.

Eight colleges in the U.S. have begun to do modeling research with the LuxLab kit-of-parts systems, including initiatives to advance the range of architectural applications by Texas Christian University. The University of Florida has used this fiberoptic system as an integrated part of the design process for the Howard Brandston student design competition, producing dramatic and innovative lighting solutions. Students took full advantage of the system flexibility to explore alternate ideas and redesigns that incorporated practical and conceptual revelations. This powerful, hands-on, visualization tool is appropriate for those who design with light. For speculative design scheming, refinement of schematic intentions, and final representational images, the system has clear advantages over computer models by operating in real time. You can get more detailed information on system components and “kit-of-parts” packages from Luxam Museum Lighting <http://www.luxam.com/> or Stan Kaye 352.392.2038 ext 219. ■

—Martin Gold



A University of Florida student lighting model.

STUDENT COMPETITIONS

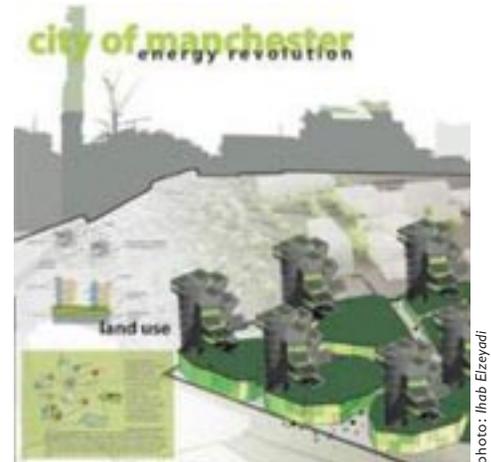


photo: Ihab Elzeyadi

A segment of the winning entry.

From a field of 113 entries, from 21 countries UOregon’s Joshua Chang, Tyson Gillard, and Thomas Kosbau (faculty advisor Ihab Elzeyadi) won first prize in the student category of “An Energy Revolution: Solutions for Sustainable Urban Communities,” an international competition sponsored by RIBA and INREB. The winners are invited to the March 17 awards ceremony and will present their project on March 18, in Manchester, UK, as well as at the UO HOPES conference in April. ■

—Ihab Elzeyadi

STUDENT SCHOLARSHIPS

Application procedures for student scholarships to defray expenses associated with attending the SBSE Summer Retreat or presenting papers at the ASES Solar Conference in Portland are posted on the Awards page of the SBSE web site <http://www.sbse.org/awards/>. Please pass on this info to interested students. ■

—Chris Chais

STUDENT POSTER CONTEST

SOLAR 2004 will feature a student poster contest open to all full-time university/college students. Poster presentations should address topics related to buildings and the integration of passive design strategies (heating, cooling, daylighting); the use of renewable resources (solar, PV, wind, geothermal, biomass, daylighting); energy efficiency through architectural design; or green, sustainable practices. We are particularly interested in case studies, studio projects, and other research, analysis, and design projects that demonstrate the integration of technologies and design or address building system performance. Find details on the SBSE web site <http://www.sbse.org/awards/>. ■

—Jim Wasley

AOC BY-THE-SEA

Agents of Change is pleased to announce Sandy Stannard's team from Cal Poly San Luis Obispo (Tammy Clack, Margot McDonald, Brook Muller, and Rob Peña) was awarded \$15,000 to conduct our next training workshop, again advocating the field-based case study methodology of teaching and learning. The Cal Poly training will be held August 5–7, 2004, focusing on the LEED™ “platinum” Bren School of Environmental Science and Management on the University of California, Santa Barbara campus <http://www.esm.ucsb.edu/about/donald_bren_hall.html>. The school—an 84,672 ft², four-story, courtyard building of classrooms, offices, conference rooms, and laboratories—was designed by Zimmer Gunsul Frasca Partnership and completed in 2002.



photo: Sandy Stannard

LEED Platinum Bren Hall glimmers by the sea at sunset.

We're looking for your team of faculty and graduate students to join us in this spectacular setting as we employ the Bren School as our laboratory of discovery. Fellowships for the FIPSE-funded project cover lodging, some meals, and the workshop and its materials. Enrollment is limited to 24 participants to ensure access to equipment, encourage full participation, and provide effective training. Applications are available at <<http://aoc.uoregon.edu/workshops>>; the deadline is April 23, 2004. ■

BOOK REVIEW

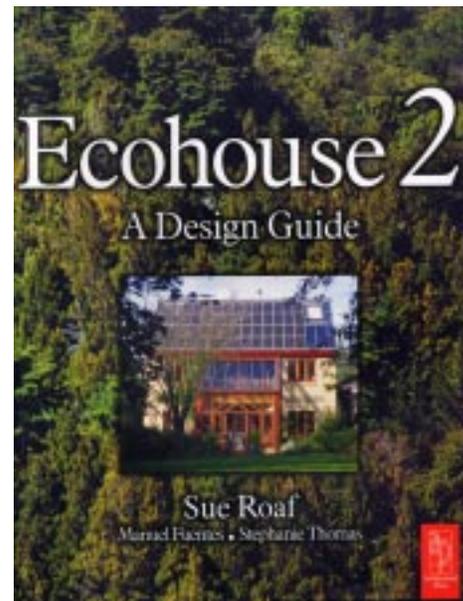
ECOHOUSE 2: A DESIGN GUIDE

Ecohouse 2: A Design Guide, Sue Roaf with Manuel Fuentes and Stephanie Thomas, Architectural Press, 2003.

Ecohouse 2 is a worthy second edition. It's a full-color, illustrated upgrade of the original, including an expanded series of mini case studies as well as updated information and corrections to the original. This reference is one you can recommend to both your students as a primer for sustainable design and to lay people as a guide to beginning and completing green building projects. It does a great job of setting the conceptual and theoretical bases for sustainable architecture as well as examining the practical details of designing and building integrated sustainable systems. Especially compelling are the two dozen case studies drawn from projects around the world spanning three decades. These projects illustrate diverse strategies appropriate to the wide variety of climates and cultural settings—there is no universal answer!

As straightforward and compelling as Ed Mazria's *The Passive Solar Energy Book* (1979), this seminal work is today's most accessible guide for aspiring designers of sustainable residential buildings worldwide. ■

—Bruce Haglund



graphic:Ecohouse2cover

PORTLAND TOOL DAY 2004

Tool Day will be held on July 15 at the Brewery Blocks in Portland, courtesy of Agents of Change alumna Kathy Bash. It will follow our usual 9am–4pm format. Our host will be Jamie Heard, head of the Interiors Program at the Art Institute which occupies floor 2 of Block 4. This building has light shelves, solar panels, an eco-roof, and more. We think it will be rated LEED silver, maybe gold.

A Midwest architecture firm did the TI and missed on such basics as zoning the lighting to take advantage of daylighting. The day may be mostly about light and visual comfort, so we'd need to pack extra light meters. An interesting study might be comparing the high spaces in the Art Institute with the high spaces in Whole Foods grocery next door. Very different feel.

The Brewery Blocks, a five-block project, introduced approximately 1.7 million ft² of urban retail, office, and residential space to the SW section of Portland's vibrant, post-industrial Pearl District. The design is faithful to the industrial and historical character of the former Blitz-Weinhard Brewery and the Pearl District and incorporates environmentally-friendly, sustainable architecture concepts. GBD Architects in Portland is designing the Brewery Blocks, incorporating single- and mixed-use projects. See <<http://www.breweryblocks.com/>> for a preview of the venue. Stay tuned for updates! ■

—Kathy Bash (GBD) and Alison Krok



Portland Pearl District's Brewery Blocks mixed-use development. Is it silver; is it gold?

photo: Kathy Bash

REMEMBRANCE

"This watercolor is an effort to capture the light, the reflectance on the table, and the fleeting nature of the candle flame."

So wrote Don Felts in a holiday greeting to me in 1998. Don passed away last autumn in New York City after a brave and difficult struggle with a life-long disease. Friends and colleagues remember him for his accomplishments in architecture, engineering, and education. Everyone who met Don instantly recognized his strong and determined spirit.



drawing: Don Felts

Studying first at Southern Illinois University and then at the University of New Mexico, Don developed a keen sense of how buildings could operate efficiently and yet have a luminous aesthetic. He shared his enthusiasm and expertise with students and associates alike. In the mid-1980s he won the International Association of Lighting Designers Award of Excellence for Daylighting for a residence near Sandia Peak, NM, that was described by critics as "*The House That Light Built.*" Moving to San Francisco, Don worked independently and also with Pacific Gas & Electric in the 1990s to introduce and implement efficiency programs for HVAC systems, conduct research on sensors and lighting, and develop simulation and modeling tools to a high degree of sophistication.

Soon after moving his architectural-engineering practice to New York in 2001, Don witnessed and videotaped the collapse of the World Trade Center towers. Despite the devastation, Don remained resolute and devoted to his work and family. Sharing the images of that day with me, Don seemed even more determined than ever to build a legacy of elegant, sustainable structures. The last time we met to enjoy lunch in his favorite neighborhood restaurant he confided, "*You know, I'm really looking forward to this next year. We will flourish!*"

In remembrance of Don, his family suggests either planting a tree or making a donation to the Kennedy Krieger Center <<http://www.kennedykrieger.org>>. Messages can be sent to: Nancy S. Weinman, AIA; 3D/I, Two Gateway Center; Newark, NJ 07102; or <weinman@3di.com>. ■

-Kathryn M. Conway

TOURS AND WORKSHOPS AT SOLAR 2004

In early March you should receive the registration brochure for Solar 2004. There are several tours and workshops of special interest to SBSEers. Please review the brochure before you make your travel reservations because these events occur both before and after the conference. And remember, the conference starts Sunday noon!

Tours

Saturday, July 10. All-day tours (leaving at a sunny 7am!) to the Oregon Coast (including Tom Bender's Bank of Manzanita) or along the Columbia Gorge to the huge windfarm on the Oregon-Washington border.

Later that morning, a half-day walking tour of several of Portland's green buildings includes the EcoTrust Center.

In the afternoon, the Wine Country tour takes you to a LEED Silver winery replete with earth tubes and ecoroofs, as well as superb Oregon wines.

Sunday morning. A Green Home Sampler to old and new green homes and gardens, an unusual collection to delight SBSEers.

Wednesday afternoon. The Daylighting in Large Buildings tour takes you to Aalto's lovely Mt. Angel Library and to Clackamas High School (featured in the passive plenary).

Thursday and Friday tours explore Seattle area architectural attractions.

Workshops

Friday all-day. Passive solar design strategies with Nick Pine, Drew Gillett, and Steve Baer.

Saturday all-day. Steve Strong and Paul Maycock's *BIPV*.

Saturday morning. *Natural Ventilation for Nonresidential Buildings, Daylighting by Design* (featuring G. Z. Brown and Joel Loveland).

Afternoon. Like solar politics? Take in *Solar Advocacy: Municipal Solar Campaigns*.

Sunday morning. *Designing High Performance Sustainable Buildings* (Murray Milne and Bruce Haglund); *Zero Net Energy Homes*.

Wednesday afternoon. *Roofpond Building Design* (Alfredo Fernandez-Gonzalez); *Rainwater Harvesting and Ecoroof Rainwater Management*.

See you all, I hope, at Solar 2004! ■

-John Reynolds

HOW TO TEACH THERMAL ISSUES

Ben Rippe in my Technical Teaching class, used this cartoon as an introduction to teaching degree days, and it worked really well! ■

-Alison Krok



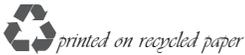
cartoon: Ben Rippe

ACSA TECHNOLOGY

[This short message appeared on the SBSE list server last month. We're vitally interested in the outcome and flavor of the conference. As you may know, the ACSA Technology Conference has served as a terrific venue for SBSEers' ideas in spite of its spotty history. Long live the Tech Conf in a format dear to you. We're looking forward to Jim's conference review!—ed.]

As you may know, SBSE members Mary Guzowski, Paul Clark, and I are each hosting sessions at the ACSA Technology Conference. We have also claimed control of an open session at 4pm Wednesday, following my Sustainability session, and are working to create an open forum on sustainability as an issue in architectural education. We're looking for recruits! If you're going to be at the Technology Conference on Wednesday (the National Conference starts Thursday, March 18), we would love to have you participate. Please contact me <jwasley@uwm.edu> so I have a sense of where things stand. ■

—Jim Wasley



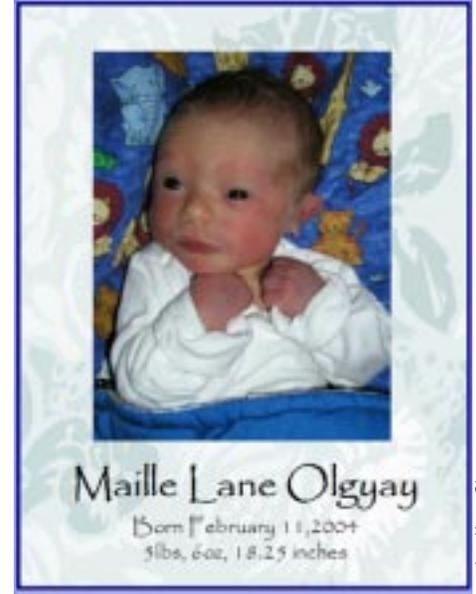
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NEW FACES



photo: Veronica Soebarto

Veronica Soebarto welcomed her second daughter, Angelique Josephine, at 5:58 pm on New Year's Day.



graphic: Victor Olgay

Victor Olgay welcomed his daughter, Maille Lane, nine days after Groundhog's Day. The SBSE community continues to grow in many ways!

SUMMER ISSUE SUBMITTAL DEADLINE—JUNE 1

FIRST CLASS MAIL