



photo: Bruce Haglund

IslandWood will provide traditional (but green) classrooms and meeting spaces for retreat delegates. Small groups might take advantage of alternatives such as this floating classroom, the treehouse, the duck blind, or the suspension bridge.

OUT OF THE BOX AT ISLANDWOOD

CALL FOR PRESENTATIONS

Help shape our retreat content. Submit your proposal for a session, presentation, workshop, demonstration, or interactive activity. We'll organize the retreat around your work with practitioners, K-12, communities and studies abroad, and innovation as well as the roundtable/workgroup track. Limit your proposal to one page and address one or more of the retreat themes (details at <http://www.sbse.org/retreat2007/>). All sessions will be seventy-five minutes long (though shorter activities may be proposed). Presenters must bring their own computer and supply other materials as needed. Proposals must include:

- Name(s) of session organizer/presenter
- Contact information (institution, email, telephone, web site)
- Theme(s) addressed by your proposal
- Title of session, presentation, workshop, demonstration, or interactive activity
- Length of your contribution/session (select 15, 30, 45, 60, or 75 minutes)
- Summary of objectives, specific issues addressed, questions raised, and/or activities implemented
- Intended outcome(s) and deliverable(s).

Submit your proposal with "Subject: SBSE Retreat Proposal" via e-mail by Monday, March 5, 2007, 5:00pm PST to both Walter Grondzik <gzik@polaris.net> and Bruce Haglund <bhaglund@uidaho.edu>. We'll notify you on Monday, March 12, 2007. Accepted presenters must register for the retreat by Friday, April 6, 2007, 5:00pm PDT to ensure a place at IslandWood. A draft retreat schedule will be posted to the SBSE listserv and retreat web site around March 18, 2007. ■

—Walter Grondzik, Bruce Haglund, Alison Kwok

SBSE CALENDAR

2007

- Mar 8-11 ACSA Meeting; Philadelphia, PA
- Apr 15-19 Engr Sust 2007; Pittsburgh, PA
- Apr 16-18 ARCC Conf; Eugene, OR
- Apr 19-22 HOPES Conf; Eugene, OR
- Jun 27-30 SBSE Retreat; IslandWood, WA
- Jul 7-12 Passive Solar Conf; Cleveland, OH
- Sep 6-8 Greening 7 Conf; Muncie, IN
- Sep 14-15 TIA Conf; Krems, Austria
- Nov 22-24 PLEA Conf; Singapore

2008

- Jul 22-23 TIA/SBSE Conf; Oxford, UK

SOLAR DECATHLON 2009 RFP

The RFP for 2009 will be released during the competition in fall 2007. Proposals will likely be due before Christmas 2007 with teams selected in Jan 2008.

—Miranda Anderson

GREENBUILD 2007 CALL

USGBC's call for papers for 2007 in LA is out. See <http://www.greenbuildexpo.org/DisplayPage.aspx?CMSPageID=84>. The dates are different in different locations, so go with this one—proposals due Jan 12, 2007. ■

—Jim Wasley

FULL RETREAT INFO: [HTTP://WWW.SBSE.ORG/RETREAT2007/](http://www.sbse.org/retreat2007/)

In October, Mary and I flew to DC where I spoke about *Ritual House* at the National Building Museum Green House Exhibit. What a great audience—full of questions and more serious than in my own town. Best of all, they bought out the entire NBM gift shop stock of forty books. We then stayed in town for a week of sightseeing—museums and all the war memorials that leave one with the strong impression that our leaders have no clothes.

About design education, for over forty years I have thought we go about things in the wrong way. Maybe we could have some interesting discussions in Oxford.

—Ralph Knowles, USC

[It's great to hear about appreciative, book-hungry audiences. And I know we'll have lots to discuss in Oxford.—ed.]



With help from Ron Larson, I plan to give U.S. awards for the design of each of my two proposed entries in the China competition. I will also consider funding demonstrations in developing countries.

From Dec 19 to Jan 19 I'll be in the humid Philippines to dwell in a hammock under mosquito netting in a bamboo-frame, semi-rural house, adding to my international experiences with climate. I plan to start a project on an idea that seems marginally practical, except for the possibility of a better design from others.

—Harold Hay, World Citizen

[Wow! Harold's energy and ideas just keep flowing.—ed.]



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DENVER, CO, NOVEMBER 11-12, 2006

Attending: Mohsen Aboulnaga (guest), Emad Affi, Leonard Bachman, Terri Meyer Boake, Bruce Haglund, Katy Janda, Alison Kwok, Margot McDonald, Chris Theis, Judy Theodorson, and Greg Thomson.

In advance of the formal meeting the officers met with Alison Kwok to review the SBSE Bylaws and to recommend changes. The most substantive change proposed was the creation of a new governing body. The board of directors would consist of the President, past-President, President-elect, Secretary/Treasurer, and the chairs of three new committees (Communications, Awards and Scholarships, and Educational Resources). The board would meet at least once a year, either at the Annual Retreat or before the Annual Meeting at ASES. If possible, the Retreat Coordinators (for both the current and upcoming retreats) would also attend this meeting. This recommendation was unanimously supported at the formal meeting. This proposal, along with a few other changes to the Bylaws, will be posted on the SBSE web site and voted on by the membership.

The following agenda items were discussed at the SBSE board meeting:

1. Should SBSE (as an organization) take a more active role in some of the current initiatives aimed at encouraging the design and construction of a (more) sustainable built environment (such as formally endorsing Ed Mazria's program and actively pursuing partnerships with organizations like AIA COTE and USGBC)?

Two of the purposes listed in our Articles of Incorporation indicate that we will “promote relationships between this Society and other professional organizations, with the intent to foster the interests of this Society among those organizations” and “encourage interaction between this Society and practicing architects, engineers, and the general public in matters related to our objectives.” Most of our members are actively involved with other organizations, and it might be best for us not to take on the role of a “political action committee.” A lengthy discussion resulted in the following recommendations:

- SBSE shall formally endorse Ed Mazria's 2030 °Challenge and his proposed 2010 Initiative in schools of architecture. SBSE will send him a letter indicating our support and offering to assist with the 2010 Initiative. (See “A Letter to Ed Mazria,” pg. 8.)
- SBSE shall sign a memorandum of understanding proposed by AIA COTE, wherein we will “jointly endeavor to better inform architecture and design students of the important role of design practices that integrate built and natural systems and enhance both the design quality and environmental performance of the built environment” and that we “also desire to open the industries and professions related to sustainability to architecture students at an earlier age by providing more resources and avenues of exposure.”
- Since several of our members are actively involved with USGBC programs, including four members on the newly created Formal Education Committee (including the committee chair), we felt any formal partnership unnecessary. However, it was suggested that we post a link on their new education web site.

Additional initiatives might include:

- Facilitate a speakers' service for schools in the process of “greening” their curricula.
- Make a formal proposal to AIA and ACSA to host a Teachers' Seminar at Cranbrook. Leonard Bachman and Terri Meyer Boake offered to investigate this opportunity.
- Encourage Walter Grondzik to pursue his suggestion that we assist NAAB in what may be substantive accreditation criteria changes in response to Mazria's 2010 Initiative.

2. Should SBSE make an effort to add more content to the web site (e.g., course syllabi), or should we simply encourage people to use the listserv and merely provide information on the web site to facilitate that process?



The post-meeting dinner at the Painted Bench was accompanied by a symbolic vintage.

photo: Alison Kwok

• continued next column

ACADEMIC JOB OPS

It was suggested the proposed Communications and Educational Resources Committees investigate this issue, particularly these ideas:

- Post links to curriculum examples on the web site. Create a simple template that would assist schools in defining their programs and provide a consistent format.
- List members who have home pages with specific expertise in various subjects.
- List the organizations on the web site with whom we have relationships (AIA COTE, ASES, ASHRAE, Architecture 2030, USGBC Formal Education Committee, TIA, etc.) with links to their web sites.
- Provide more information about the listserv, including how to search it.

3. Should SBSE continue to support student programs at ASES (and other venues)? We didn't sponsor a poster competition at ASES last year. At the Annual Meeting we agreed that we should sponsor a competition next year, which Nick Rajkovich and Greg Thomson have agreed to develop and coordinate. Jim Wasley pointed out several problems with administering the best paper and presentation awards. Is there a need for a committee to coordinate this and other student award and scholarship programs?

The proposed Awards and Scholarships Committee would be charged with the administration of these programs.

Terri Meyer Boake, Margot McDonald, and Chris Theis agreed to coordinate the Best Paper and Best Presentation Awards for the ASES Conference this coming summer. Our goal is to identify student papers early so a ballot (with student names and session times) will be available to SBSE members in advance of the conference. Margot and Chris will coordinate with Becky Campbell-Howe at ASES and the current Technical Review Chair (in this case, Adil Sharag-Eldin) to identify student papers and presenters.

Greg Thomson reported on plans for the Poster Competition at ASES. (Note: since the board meeting, Harvey Bryan reported that it appears that significant funding may be available from the Jeffrey Cook Foundation to provide substantial awards. Jim Wasley and Greg Thomson will work with Harvey.)

4. What's SBSE's role as co-sponsor the Oxford Conference 2008 (as presented by Sue Roaf at the Annual Meeting) and will we hold our 2008 Retreat in the UK? Several people expressed interest in working on the conference, but I'm not aware of any formal commitments other than the vote of support.

Bruce Haglund indicated that Sue Roaf has volunteered to be the site coordinator for an SBSE Retreat at the Center for Alternative Technology in Wales in the summer of 2008 following the Oxford Conference. We need a budget outline, but we endorsed the idea. Bruce will follow up with Sue.

We need more information, but we agreed to provide support of up to \$1,000 for promotion and United States distribution of proceedings for the Oxford Conference.

5. Other Business

We agreed that SBSE will provide financial support (up to \$1,000) for a "green bag lunch" at the upcoming ARCC Conference in Oregon.

There was a brief discussion of reviving Murray Milne's proposal for a Collective Academy. It was noted that his original idea was presented several years ago, and it may not be as relevant today. Leonard Bachman offered to contact Murray.

There was also a brief discussion of Norbert Lechner's proposal that SBSE help organize a series of workshops similar to those sponsored by the DOE in the late 1970s to help architecture faculty get "up to speed" with sustainable design. While we agreed that it might be a good idea, we also recognized that we're really not in a position to undertake such a task. The initiatives mentioned above (especially offering to host a Teachers' Seminar at Cranbrook) are more in line with our capabilities and resources. ■

—Chris Theis

MIAMI UNIVERSITY, OXFORD, OH

Teach design and environmental technology bringing a global understanding of principles and practices of architectural technology into design studio. Contact Diane Fellows, Search Committee Chair, 513.529.6447; <fellowsd@muohio.edu>. Deadline is Jan 15, 2007.

UNIV. OF CALIFORNIA BERKELEY

A researcher to manage the Center for the Built Environment Occupant Survey Project. Full details at <<http://www.cbe.berkeley.edu/jobs/>>.

UNIVERSITY OF IDAHO

Two tenure-track positions—Teach design studio; emphases in structural integration and sustainability. Application deadline: Jan 30, 2007. For full details e-mail Bruce Haglund <bhaglund@uidaho.edu>.

UNIVERSITY OF KANSAS

Two PhD assistantships for Fall 2007 in Design and Fabrication Processes, Healthy and Sustainable Environments, or Dwelling and Community. Learn more about program admissions at <<http://www.saud.ku.edu/Admissions/Grad2.shtml>> or contact Keith Diaz Moore <diazmoore@ku.edu>.

UNIVERSITY OF OREGON

Two positions—Architectural Design + Structures or Construction Technology and Visiting Fellowship in Architectural Design. Full position descriptions and application requirements at <<http://architecture.uoregon.edu>>. Review of applications begins on Jan 16, 2007.

UNIVERSITY OF SYDNEY

Professor/Associate Professor—Architectural Science, Ref No: ARCH42/007146. For further information e-mail Tom Kvan, Dean, Faculty of Architecture <tkvan@arch.usyd.edu.au> or Lucy Courtenay, Human Resources Coordinator <l.courtenay@usyd.edu.au>.

UNIVERSITY OF TEXAS AT AUSTIN

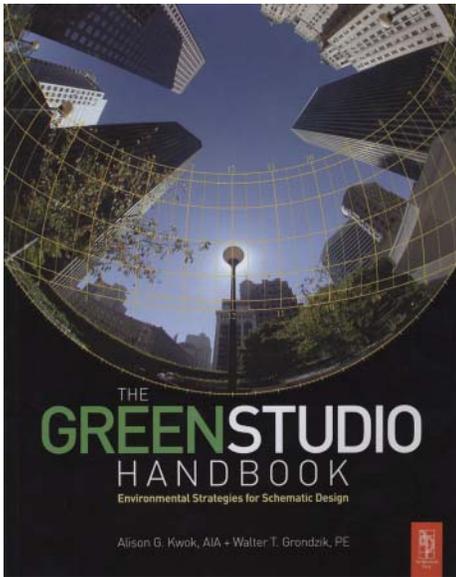
Assistant Professor of Architecture in Sustainable Design. Review of applications will begin Jan 15, 2007. Contact Steven Moore, Search Chair <samoore@mail.utexas.edu>.

UNIV. OF TEXAS SAN ANTONIO

Two positions: Architectural Design Technical/Professional Sequence and Building Technology/Architectural Design. Application deadline: Jan 16, 2007. Contact Search Chair Stephen Temple <stemple@utsa.edu>. ■

Wiley just published new editions of two books co-authored by **Ed Allen**—*Architectural Detailing 2E* and *The Architect's Studio Companion 4E*.

Walter Grondzik and Alison Kwok's *The Green Studio Handbook*, (Architectural Press) is hot off the press. It should be a valuable resource to students attempting to do "green" design projects, for faculty dealing with sustainability, and for practitioners in the early stages of schematic design. Check out <<http://www.greenstudiohandbook.org>>.



cover: Architectural Press

In November the National Building Museum in Washington, DC, hosted **Martin Moeller's** walking tours of downtown DC, followed by his December presentation, "Eccentricity: Intriguing Characters in Washington's Architectural History," at the museum.

As a result of ASES Chair Ron Larson's resignation, **John Reynolds** was elected by the ASES Board to serve as ASES Chair beginning one year early; thus serving a three-year term as Chair, then two years as Past Chair. JR says, "Something to do with all my time in my dotage."

Veronica Soebarto has been approved for promotion to Associate Professor at the University of Adelaide effective January 1, 2007. (Those who understand the British system of ranking will know that this is a great honor, indeed!) ■

ASES SOLAR 2006 CONFERENCE, DENVER

An enthusiastic solar crowd registered for Solar 2006, one of the largest in attendance for ASES since the Carter days. The theme, *Renewable Energy, Key to Climate Recovery*, was beautifully integrated in the plenary sessions on all four days. I can't remember a better-integrated theme in lo these many years of ASES conferences (almost all since 1975). In connection with the surprise-hit film, *An Inconvenient Truth*, this conference was superbly timed to inspire a large audience to action.

For SBSEers, so architecturally inclined, there were presentations by Don Aitken, Ed Mazria, Sue Roaf, and Alex Wilson. Add Joe Hackler on Woods Hole Research Institute and Patrick Hughes from Oak Ridge on the Potential Contribution from Buildings to the many plenaries that gave a wide range of points-of-view. The closing luncheon talk by conference chair Chuck Kutscher detailed how renewable energy can return our country to a more responsible level of carbon emissions with a reasonable investment in renewables and without resorting to nuclear energy. In my opinion, his presentation vastly underestimated the potential contributions of new and renovated buildings. What can we expect from our national labs, where, except for daylighting, passive research ended when Reagan took office 26 years ago?

The Emerging Architecture presentations by many solar decathlon teams were high-energy [*but the buildings, low-energy-ed.*], and bred a subsequent movement to establish ASES student chapters. I ask, could we have joint ASES-USGBC-ASHRAE student chapters with three memberships for the price of one or two? Also let's establish a Western U.S. Solar Decathlon, where the buildings are built to stay in the climate for which they were optimized. And where lower-tech, lower-cost options like daylighting, passive solar heating, and passive cooling are given equal emphasis with PV? I'm offended when the national winner has no thermal mass, and more north-facing than south-facing glass. What a message to spread about what constitutes a solar house!

The SBSE annual meeting was crowded, rushed, and inspiring. What a pleasure to see so many old—well, at least familiar—faces, and get a chance to hear about what so many SBSEers are doing. We need to make a stronger effort to get book publishers, especially Wiley and McGraw-Hill, to exhibit at the ASES conference. Also, they'd get a much better feel for adopters of their textbooks if they attended the SBSE annual meeting.

My highlight was the quality of pertinent technical sessions, covering most SBSEesque topics—we even heard from Harold Hay and Steve Baer. The mix of rookie and veteran researchers, of students and faculty, and the occasional welcome surprise of a previously unknown practicing architect, were characteristic of ASES. I find the combination of educator, researcher, practitioner, seller, manufacturer, and Joe Public to produce an always-rewarding experience. It's the principal reason I return each year, along with the rich networking in which we so effectively engage.

Mark your calendars for Cleveland in 2007, July 7 through 12. Nick Rajkovic promises we'll love downtown Cleveland, and I trust him implicitly.

—John Reynolds

INAUGURAL BTES MEETING

In introducing the August 2006 Building Technology Educators' Symposium, organizers Deborah Oakley (Maryland) and Ryan Smith (Utah) told us they were "looking forward to a stimulating and thought-provoking symposium, potentially the beginning of an organization of educators passionate about teaching and architectural technology." The symposium did that and more.

Participating educators and practitioners shared common interests in structures and construction technology, pedagogy, teaching tools, and building information modeling, presenting a set of excellent papers that are available on the BTES web site <<http://arch.umd.edu/BTES>>.

The conference concluded with a discussion of the resources we all need to assist professional development, and a committee was formed to explore formalizing our new organization. Does

• continued next column

MORE ACSA TIDBITS

BTES sound like SBSE? Many of the goals are similar, but the group sees itself as a complementary organization, focused on structures and construction, looking forward to working with SBSE in the future.

We've established a yahoo group that includes those who attended the symposium. Others who share our interests may join; see <<http://groups.yahoo.com/group/BTES/>>. Concurrently, the organizing committee is exploring BTES's future. Thanks to Bruce Haglund and other founding members of SBSE for sharing information and insight on how to get started and keep going.

—Diane Armpriest

ACSA ADMINISTRATORS' CONFERENCE, SCOTTSDALE, AZ, NOV 2-5, 2006

For ACSA highlights see <<https://www.acsa-arch.org/conferences/2006%20Admin%20Program%20Text.pdf>>. Also see "More ACSA Tidbits" (next column).

Building Information Modeling (BIM) and Visualization tools <<http://usa.autodesk.com/adsk/servlet/item?siteID=123112&id=8127972>>.

BIM interfaces with CAD software and produces a live database document concurrent with the drawing, allowing for instant schematic-level feedback on performance, construction take-offs, and other empirical information about the design in progress. In conjunction with the sustainability conversations at the conference, it seems that an energy target indicator will be one of the most popular BIMs integrated with drawing software. Apparently, such a BIM is already available for *Revit* and *Sketchup* or will be soon. Since the BIM do not require numerical user input, but work directly from the drawing objects, they can promote intuitive understanding of design decisions in push-pull and what-if thinking, assuming a basic understanding of the principles.

Carbon-neutral design will be standard practice in large firms within six months.

Ed Mazria is making more headway toward unifying sustainable design efforts <<http://www.architecture2030.com>>. The realization of rapidly impending climate change and energy crises is coalescing into a single issue of great immediacy and high impact. Sea levels are rising much more quickly and CO₂ levels increasing much more rapidly than previously thought. Furthermore, the tipping point where climate change becomes instantly chaotic is at a much lower threshold than previously proposed. As all the increased CO₂ is from buildings (industry and transportation sectors have already flattened out), the urgency for sustainable design is preeminent. I will develop a separate report on this argument.

Biodesign linked with energy crisis, global warming, and terrorism.



photo: Leonard Bachman

ACSA administrators and ARCC delegates mingled on the terrace at Taliesin West.

See <<http://www.biodesign.asu.edu/about>> and especially George Poste's keynote lecture at <<http://www.biodesign.asu.edu/assets/pdfs/george/X530%20DesignFLW.pdf>>.

This lecture was one of the most convincing and scary of my life. How odd that it was given at Taliesin. You can see all 119 slides by downloading the pdf at the link above, but it does not carry the Pulitzer-quality oration and insightful explanations by George Poste. ▮

—Leonard Bachman

A WORD OR TWO

The *New Oxford American Dictionary's* Word of the Year for 2006 is (drum roll, please) **Carbon Neutral**. The rise of carbon neutral reflects the growing importance of the green movement in the United States. For the full story see <http://blog.oup.com/oupblog/2006/11/what_do_al_gore.html>. ▮

—Walter Grondzik

- Nine schools of architecture have produced 45% of the current faculty at NAAB programs. None of those nine were represented at the ACSA Administrators' Conference this year.

- Ed Mazria and Architecture2030 propose that the following requirement be added to every studio project: "All projects will be designed to engage the environment in a way that dramatically reduces or eliminates the need for fossil fuels."

- Architecture2030 further proposes, "All graduating students have demonstrated the ability to design carbon-neutral buildings (no CO₂ emissions or energy from CO₂-producing sources).

- Whether we will live in a +1°, +2°, or +3°C world due to global warming by 2030 will be determined by what we build in the next ten years. A +1°C world is almost assured at this point and will result in a 2- to 5-meter increase in mean sea level. A +2° to +3°C world could result in a 20-meter (~80-foot) increase in mean sea level.

- The average U.S. residence uses 42.7 kBtu/ft² per year and the average commercial/institutional building uses 85.0 kBtu/ft² per year. Meanwhile, the south elevation of a building receives between 300 and 400 kBtu/ft² per year and a roof receives anywhere from 400 to 700 kBtu/ft² per year. ▮

—Leonard Bachman

PLEA HELP PLEA

We're looking for potential keynote speakers, international advisors, and reviewers for our forthcoming conference on Passive and Low-Energy Architecture to be held at the National University of Singapore. Reviewers' duties include a review of the paper topics and active participation in reviewing abstracts and papers. I'd appreciate nominations including self-nominations related to our conference theme, *Sun, Wind, and Architecture*. More info at <<http://www.plea2007.org>>. Also, please send nominations and suggestions, including links to further information, to <Plea2007@nus.edu.sg>. ▮

—Stephen Wittkopf

WORTH READING

Check out the COTE newsletter <http://www.aia.org/nwsltr_cote.cfm?pagename=cote_nwsltr_current>. You'll find the current and archival newsletters full of relevant info. ▮

—Bruce Haglund



photo: Norbert Lechner

The wee heliodon is laser-cut, affordable, effective, and cute as a bug's ear.

An architecture student at Auburn has gone into business making table-top heliodons. Subsidized by the School of Architecture, he uses its laser cutter to make these beautiful, inlaid heliodons. In return, he's selling them for \$200 minus a 20% discount for faculty and students of architecture. Making low-cost heliodons available is a public service in response to the global warming threat. The heliodon comes with the month ribbon and one laser-cut sundial whose latitude can be selected from those available. Sundials for other latitudes are available for \$15 each. To buy a heliodon contact William Lee Maffett at <heliodon@hotmail.com> or 931.267.4646.

—Norbert M. Lechner

TEACHERS OF LIGHTING WORKSHOP

IESNA is sponsoring a workshop for full- and part-time lighting teachers, Jun 17–22, 2007, at Cooper Lighting, the SOURCE, in Peachtree City, GA. Room, board, and tuition grants are awarded—attendees only pay for transportation and a \$200 fee. For application details see <<http://www.iesna.org/>>. Deadline: Jan 31, 2007. For questions contact Dee Ginthner <dginthne@umn.edu>.

—Dee Ginthner

GREENING OF THE CAMPUS 7

We invite abstracts, due Feb 12, 2007, describing how your college or university partners for sustainability and enables a diverse future through academic programs, research initiatives, community outreach, and resource management. See <<http://www.bsu.edu/greening>>. ■

—Bob Koester

Over 13,000 attendees, 700 vendors, 75 presentation sessions, and 100 presenters made for a very full USGBC Greenbuild 2006 conference in Denver, CO, Nov 15–17. The first USGBC Greenbuild Expo in 2002 had a few hundred attendees. Its exponential growth brings more options, more prestigious speakers, and more snake oil. When the U2 song started playing in the background as Rick Fedrizzi (president, CEO, and founding chair of USGBC) was bringing his presentation to a close, I knew things had taken a Hollywood turn. Beyond the glitz, content of the conference was incredibly diverse with meaningful, critical, and inspirational information. The Cascadia regional chapter challenged USGBC to develop a category beyond Platinum called “Living Buildings”—buildings that give back energy, water, and cleaner air. Regenerative design became one of the on-going conference themes. If green buildings are going to make a difference in our global climatic condition, we need to eliminate all CO₂ emissions, and produce buildings that reverse the depletion of fossil fuels and the pollution of our air and water.

Navigating Greenbuild was challenging due to an overload of options. From Wednesday afternoon through Friday morning there were six ninety-minute sessions with concurrent presentations in twelve different “tracks.” Before the conference began I did my best to evaluate sessions for optimum benefit, but I was often running from session to session during the first ten minutes, trying to find a relevant one. Of course, several sessions were more popular than expected—standing room only or simply inaccessible due to over-attendance. I was frustrated to miss so many good sessions, but knowing I could purchase internet access to the powerpoints and audio tracks of all the presentations offered some condolence.

Networking is a main reason people attend Greenbuild. There were no shortage of events, even “networking booths” sponsored by companies and organizations, for chance or planned encounters. Evenings were filled with parties, forums, and galas sponsored by USGBC or vendors. The downtown Denver location and mild temperatures made for enjoyable evening strolls—restaurants and shops had signs welcoming Greenbuild attendees.

There were dozens of green design- and construction-related opportunities for education and exploration, including LEED workshops and Green Building Tours before and after the official conference dates. In addition, the three-hour lunch slot could be filled by meeting the 700-plus vendors of green products, technologies, projects, and more. One could have had a seven-day-long Greenbuild event if they had the time and funds to do so.

Ira Magaziner from the Clinton Global Initiative gave a moving presentation of their global work in reducing the spread of AIDS, passionately explaining that they are now shifting attention to reducing the effects of global climate change, addressing green building as a critical element. An AutoDesk vice-president announced partnership with USGBC to develop a Revit version with integrated, real-time building performance analysis. Several vendors already offer plug-ins that achieve this integration, but it's a major step for AutoDesk to recognize this opportunity.

John Knott was among many speakers who addressed the incorporation of social issues in sustainable design. As CEO of the Noisette Development Corporation, he presented their 300-acre development in North Charleston, SC, a de-commissioned naval yard that had



photo: Michael Zaretsky



photo: Michael Zaretsky

“Our cities are a mess, schools are failing, we have a 55% divorce rate, our culture is breaking down and we all know it. ... You can't have a green building without a green culture.”

—John Knott

• continued next column

FACTOR 10 ENGINEERING (10XE)

Rocky Mountain Institute (RMI), a non-profit think-and-do tank, is in the early stages of the ambitious 10xE project to teach integrative design to engineers. Using case studies as a teaching tool, engineers will learn how to achieve very large—even order-of-magnitude—energy and resource savings with uncompromised performance and often lower capital cost. While the target of ten-fold resource productivity through better engineering is achievable, it is clearly not easy. This optimization will need original, transdisciplinary thinking and a willingness to question familiar practices. We are currently collecting potential case studies, and would like engineers and teachers with experience or interest in whole-system design to join us.

Our project vision is to assemble an outstanding international group of diverse and creative engineering practitioners and teachers to write a casebook of integrative, radically efficient engineering, with instructional methods that teach whole-system design to undergraduates and practicing engineers. We are also building a network of engineers and teachers who will be the early-adopters, bringing whole-system design into firms and engineering curricula worldwide. To learn more about 10xE, if you think this way about design or know another engineer who does, or if you can share a compelling case study of radical efficiency (preferably at lower capital cost), please visit <www.10xE.org> or write us at <casebook@10xE.org>. ■

—Imran Sheikh

FOCUS THE NATION

In the first three weeks after our launch, Focus the Nation teams at over 70 institutions planted their flags on our map, committing to participate in our national educational initiative on global warming. See who has signed up at <<http://www.focus.thenation.org/actionmap>>. Focus the Nation can shift the national conversation about global warming from fatalism to determination to face the challenge of our generation. ■

—Eban Goodstein

EXTENDED REVIEW CORNER [CONT.]

become home to many low-income residents and was linked to 70% of Charleston's crime. They've worked with Bob Berkebile and BNIM Architects, addressing sustainable design at the planning and building scales, but the project's new vision is the integration of social issues at the core of their development decisions—incorporating programs for re-training prisoners, mixing income levels throughout the community, aiding women- and minority-owned businesses, and focusing on issues of advocacy and “life-long learning.”

The closing plenary session speakers included David Winstead, commissioner of Public Service Buildings from the General Services Administration. GSA has found LEED to be “the most credible” of five building rating systems they reviewed. All two billion square feet of their annual new construction will be LEED-certified in the future.

The closing keynote by Jeffrey Sachs, Professor of Sustainable Development and Health Policy at Columbia University, director of the Earth Institute, special advisor to the United Nations, and author of *The End of Poverty: Economic Possibilities for our Time*, a *New York Times* bestseller, perfectly encapsulated the whole conference, discussing the link between social and economic inequity and the critical stress that we have placed on the earth's environment. He described how easily poverty could be eradicated worldwide by 2025 and explained why its elimination is a critical step in addressing the rising levels of CO₂ in our atmosphere and oceans.

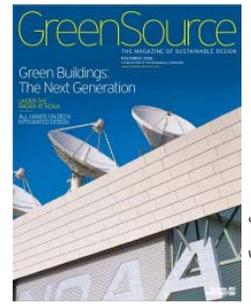
A hypocrisy inherent to Greenbuild is the energy and resources expended to host it and bring in 13,000 attendees. Greenbuild claims to be carbon neutral by way of purchased carbon-offsets to fund projects for renewable energy, energy-efficiency, or reforestation—a practice quickly becoming a modern-day indulgence.

I left Greenbuild 2006 re-invigorated and re-inspired. Meeting hundreds of people committed to a value system of sustainability was a welcome relief in the political and social climate of 2006. Greenbuild 2006 was entitled “Building Optimism.” I walked away hopeful, excited, and cautiously optimistic. ■

—Michael Zaretsky

NEW MAGAZINE

Earlier this year, some *Architectural Record* people teamed with folks from Building-Green, publishers of *Environmental Building News*, to start a new magazine, *GreenSource*,



cover: GreenSource

that includes essays, columns on policy, profiles of those prominent in the sustainability movement, and reviews of sustainable products. The most interesting parts of the magazine are case studies. We felt that lots of buildings that were acclaimed green had no backup data to prove it and were getting published. For all our case studies (five in each issue so far), we publish the data (e.g., simulated annual energy use and predicted annual carbon footprint). The narratives even reveal what went wrong.

To avoid publishing products whose properties are greenwash, each has undergone BuildingGreen's review for inclusion in the *GreenSpec* directory. It is rigorous.

Greensource goes to all USGBC members and about 10,000 other readers, so I'm sure many SBSEers have seen it. If not, a replica is visible at <<http://www.zinio.com/express2?issue=179703557>> or from a link at <<http://www.greensourcemag.com>>. ■

—Charles Linn

LETTERS [CONT. FROM P. 2]

The newsletter looks great as usual, and I always look forward to seeing it. Knowing a little about publishing myself, I have to say I don't know how you have time to put it out and teach, too!

I can't resist mentioning the first magazine I started, *Architectural Lighting*, debuted 20 years ago last month. I'll never forget visiting Charlie Brown at Oregon a few months before it came out. He said, “There is no artificial light: Only electric light. There is no natural light: Only daylight.” Boy, was I embarrassed. But, I've been telling writers that ever since.

—Charles Linn, *Architectural Record*

[I guess I multi-task well. Charlie was my first studio instructor at Oregon and greatly influenced me. Coincidence?—ed.] ■

SBSEERS TAKE WARNING?



photo: Tom Bartuska

Red dawn breaks on December 7, 2006, over the ferry landing on Bainbridge Island, portal to IslandWood, site of the 2007 Retreat. Mt. Rainier lurks in the background. [Check out this image in full color on the SBSE web site <<http://www.sbse.org>>.—ed.]

A LETTER TO ED MAZRIA

On behalf of the 170 members of the Society of Building Science Educators (SBSE), the officers and advisory board of the society endorse the 2030 °Challenge and the proposed 2010 Initiative in schools of architecture. I know that many of our members actively support your work at Architecture2030 on an individual basis, but at our annual board meeting last month there was unanimous agreement that we, as an organization, should formally lend our support to your efforts. Most of our members teach sustainability as an integral element in design and/or technology in architecture programs (in 18 countries), and we would be happy to assist the 2010 Initiative in any way that might be helpful. Take a look at our web site—especially the sections on resources, retreats, and the newsletter—to gain an appreciation of the depth of our commitment to, and expertise in, environmentally-responsible architecture. We plan to post this endorsement on our web site and make a call to our members on our listserv to individually and collectively address both the Challenge and the Initiative within the curricula of their institutions. Please don't hesitate to contact me or any of our members if there's anything we can do to help. On a more personal level, I know I speak for our members when I say we would like to convey our sincere appreciation to you for the work you are doing.

—Christopher C. Theis

AND MAZRIA'S RESPONSE

Thanks for the letter. I will get you information on the teach-in as soon as we launch our new web site. We would welcome your participation.

Can you send me the letter in e-mail form, this way I will have it on my computer. Thanks so much for your support. █

—Ed Mazria



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