



SBSEers pause to pose in the amphitheater at Pingree Park. Charlie Brown was off fishing with the moose.

photo: Deborah Cowen

RETREAT AT PINGREE PARK

Sitting atop Denny's Point watching my last sunset over Pingree Park, long after the other retreat attendees had departed on Tuesday, gave me the opportunity to reflect on the retreat as well as what I might write about it—both as a “record” of the event and to help non-attendees understand what they had missed.

The retreat theme was based on Ken Wilbur's Integral Theory and its point-of-view that, in spite of promoting the use of multiple perspectives to approach any problem, seemed to take a very particular approach to the meaning of “Integral.” The integral approach, presented by Mark DeKay, differentiating interior/exterior/objective/subjective, contrasted with Leonard Bachman's use of physical vs. strategic design, which brought about extended discussion as to the continued validity of concerns of aesthetics in architecture, considering the limited time remaining to salvage the planet (Sue Roaf). John Quale presented a web-like diagram for assessing design decisions that the group tested to determine the pros and cons of a concrete-block vs. a high-tech curtain wall solution for a south-facing wall—a process that revealed some interesting and perhaps unexpected results as well as potential for further refinements of the tool. Kevin van den Wymelenberg and Chris Meek presented their NEEA Integrated Design Labs and showed us an integrated approach to daylighting design through a real, working process.

Shortly into the retreat schedule, the participants formed five groups and began to define key issues to develop and present, using discussion and the multiple perspectives of the group members. Leonard Bachman's group looked more deeply at the issue of aesthetics and its potentially changing role in ecological design. Bruce Haglund's group began working on incorporating carbon-neutral design as a way to develop and refine the graduate studio Bruce is offering this fall and reflective of the carbon-neutral Aldo Leopold Center design brought to the group by Mike Utzinger. Jim Wasley's group looked more closely at the interdisciplinary design approach and how it could be better implemented in the school setting. Role-playing was looked at as an alternative approach when actual variation in student disciplines was not possible. Sue Roaf's group looked at the development

SBSE CALENDAR

2006

- Aug 3–5 BTE Symposium; College Park, MD
- Nov 15–17 GreenBuild; Denver, CO
- Nov 22–25 ANZASCA Conf; Adelaide, SA

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 29–Jul 1 SBSE Retreat; IslandWood, WA
- Jul 8–12 Passive Solar Conf; Cleveland, OH

DUES'RE DUE ON SOLSTICE

The summer solstice was membership renewal time. I'm a bit behind as I celebrated the solstice by joyfully chasing six-year-olds through the surf and sand dunes on the Oregon coast. I'm in good company—80% of you need to add “SBSE renewal” to your “To Do” lists. *[So do it!—ed.]*

I am delighted to report that we are now 282-strong and represent all corners of this *[cubic?—ed.]* planet! Join or re-join this happy crew. ||

—Judy Theodorson

LETTERS TO THE EDITOR

Please remove me from the hard-copy distribution for *SBSE News* and save at least 50 cents. I like the electronic copy better anyway.

—Erv Bales, NJIT

[We'll use the four bits for doing good. However, changing is DIY. If you prefer the electronic News, use the SBSE membership page on our web site to update your preference.—ed.]



Thank you for mentioning *BRI* in the latest issue of *SBSE News*. I hope it will create an avalanche of papers from SBSE members! Much appreciated that you wrote a short piece about the journal! The rest of the newsletter is excellent—keep up the good work.

—Richard Lorch, *BRI*

[Thanks for the praise. It's a service to the membership to pose golden opportunities.—ed.]



The spring *News* looks great, filled with interesting news and graphics. Thanks for including the picture of the elderly gentleman!

—Ralph Knowles, *USC*

[Thank Mary for the lovely photo. Grace before the storm—this issue features a review of your tome!—ed.]



Thanks for your efforts to get Moji's news to fit.

—Moji Navvab, *Michigan*

[It's always a joy to scrunch good work into limited space. Also, I'm sure your photogenic physiognomy helps sell the News!—ed.] ■

SBSE News is published quarterly by the Society of Building Science Educators, a not-for-profit corporation. Submit material for publication before the first of March, June, September, or December to Bruce Haglund, Editor; Department of Architecture; University of Idaho; Moscow, ID 83844-2451; tel. 208.885.6781; fax 208.885.9428; e-mail <bhaglund@uidaho.edu>. Direct membership and mailing list inquiries to Judy Theodorson, Secretary-Treasurer; WSU Spokane; 668 N Riverpoint Blvd; PO Box 1495; Spokane, WA 99210-1495; phone 509.358.7901; fax 509.358.7900; e-mail <jtheodorson@wsu.edu>. To join our list server or to manage your account go to <<http://www.lists.uidaho.edu/mailman/listinfo/sbse>>. For full membership info and more, visit our home page <<http://www.sbse.org>>. ■

RETREAT AT PINGREE PARK [CONTINUED FROM PAGE 1]

and characteristics of an “Eco Society” and what public awareness events might be useful in encouraging cultures to change toward more sustainable practices. My group worked with the four-quadrant framework of Integral Theory to examine the evolution of a Neo-Medieval Society, a likely result of impending ecological catastrophes such as the depletion of petroleum, water scarcity, and shoreline loss due to global warming. We contrasted the process and effectiveness of proactive planning vs. reactive disaster control. The work of the groups will be posted and linked to the retreat web site, but is at <http://www.architecture.uwaterloo.ca:16080/faculty_projects/terri/sbse/2006/retreat_2006.html> now so that everyone might benefit from insights of the combined brainwaves and approaches of our varied group members!

The multiple presentations of both the developmental stages of our proposals as well as our final words were deftly chaired by Mary Guzowski, who kept us all on track with equal opportunity to feed our insights into the lively discussions. Yet never in all my years of SBSE Retreat participation have I felt such conflict and tension ripple through the group. The actuality of multiple perspectives is very real given the varied education and experience of our highly engaged membership. Layered on this was the extreme sense of urgency brought to the sessions from members who had just attended the ASES Conference in Denver whose topic was climate change.

Chris Theis, the logistics/site coordinator, did an excellent job securing a location that kept us extremely well-nourished, was truly environmentally inspirational, and provided opportunities for long hikes through landscapes recovering from the 1994 fire that ravaged the park. Mornings started with meditation, facilitated by Susan Cadogan. There were opportunities for fly-fishing (Charlie Brown caught and released 24 [*and met a moose—ed.*] in one day!) and the observation of various forms of “wildlife” (Not referring to Leonard Bachman and Jim Grady's guitar work that kept us singing and rocking on Monday night!). Bruce's red ballcap was constantly dive-bombed by fierce hummingbirds that mistook it for a feeder. I never saw the moose, but others were more fortunate. I did manage to keep many of the resident mosquitoes away from other retreat-goers as they seemed to prefer my tasty Canadian blood! And perhaps the reason you might not see many stars in the night sky in your town is that they are all suspended over Pingree Park and spectacular to watch from the vantage point of a warm campfire on a cool alpine evening (thanks, Sam Augustine, for tending the fire!).

The energy and ideas from this retreat will serve to heighten awareness of the urgency of our global situation and feed into the next retreat, “Outside the Box,” at IslandWood on Bainbridge Island (Seattle-area) in late June 2007—an event to book early! ■

—Terri Meyer Boake

SBSE AND USGBC FORMAL EDUCATION

Congratulations to the newly elected members of the USGBC Formal Education Committee and thanks to those who ran for the committee but did not gain a seat this time.

The current Formal Education Committee (covering K-16+ curricula): *USGBC staff:* Karol Kaiser, USGBC Director of Education; Ana Kaahanui, Assoc. Curriculum Manager; Alexis Ionititiu, Curriculum Coordinator. *SBSE members:* Bob Koester, Ball State University; Alison Kwok, University of Oregon; Margot McDonald (chair), Cal Poly-SLO; Jim Wasley, University of Wisconsin-Milwaukee. *Other new (and continuing [*]) members:* Iris Amdur, Greenshape, LLC; Dan Arons*, Architerra, Inc; Gay Bindocci, U.S. Dept of Interior; Terry Calhoun*, Society of College and University Planners; Liz Coles*, Purdue School of Engineering & Technology; Paul Goldsmith, Harley Ellis Deveraux; Chris Magent, Alexander Building Construction, LLC.

I've agreed to chair the committee as one of the continuing members (since May 2005). One of the committee's first tasks will be to seek opportunities for members of the committee (especially USGBC staff) to meet with ASES and SBSE in the coming months. Thanks to Jim Wasley for planting this seed! There's still a bit of ground work to do before we begin to function as a committee, but at least now you have more ears to bend on issues pertaining to how the USGBC can assist in the delivery of green building education in the schools. ■

—Margot McDonald

CONFERENCE REVIEWS

SOLAR CITIES 2006

This April conference organized by Sue Roaf was a tremendous event that made it clear to participants that the time has come to look at the performance of entire cities (as opposed to single buildings) if we are to slow down climate change by reducing our CO₂ emissions to 1990 levels. The conference was well-attended by SBSE members from around the world. Some of the SBSE highlights were Ralph Knowles' presentation of his most recent book, *Ritual House*, the launch of the "Swikipedia" web site <<http://www.sustainable-buildings.org/>> by Rajat Gupta and his colleagues from SHADA, and Alfredo Fernández-González's interview with BBC radio and TV (an estimated audience of 11 million people around the world) to talk about solar cities. It is also worth commenting that NASA has developed a climate database for sustainable building design available at <<http://earth-www.larc.nasa.gov/solar/buildings/>>.



Alfredo Fernández-González and Katy Janda enjoyed the hallowed halls of Oxford and the Solar Cities Conference.

—Alfredo Fernández-González

ARCC/EAAE 2006 RESEARCH CONFERENCE

The ARCC/EAAE 2006 International Conference on Architectural Research was held in Philadelphia 31 May–4 June. The conference had 75 participants: 23 from EAAE universities, 47 from ACSA/ARCC universities, 2 from the Middle East, and 1 from China.

Among the conference highlights, John Reynolds, this year's ARCC James Haecker Awardee, presented his extensive studies of courtyards in Mexico and in Spain (see his book, *Courtyards*), that specifically addressed the changing temperature and humidity conditions over time (collected with data loggers), the use of plantings and fountains within the courtyards, as well as the use of *toldos* to cover courtyards during periods of high sun. Japanese architect Kengo Kuma's keynote lecture, "Anti-Object" gave insights into his work and his desire to develop projects that respond to the landscape and intensify observers' understanding and appreciation. His sensitivity to materials and explorations into the fabrication of building elements revealed a broad range of approaches and numerous examples of the potential of traditional materials used in a variety of innovative ways. His most recent explorations study materials that change their structural and space-enclosing attributes to accommodate seasonal and daily temperature changes.

Participants opted for self-led Philadelphia tours, visited architectural offices, or formed a group of 27 who visited the Vanna Venturi House (Robert Venturi) and the Esherick House (Louis Kahn). These events were followed by a reception at the University of Pennsylvania Architectural Archives, which holds the Kahn Archives, and a lecture on the Fairmount Waterworks of Philadelphia that illustrated the historical importance of this large municipal works as well as the preservation and adaptive reuse project that has saved it.

The conference was supported by Temple University, the University of Pennsylvania, Drexel University, ARCC, EAAE, and the Gilbane Construction Company. The co-chairs of the conference were J. Brooke Harrington (ARCC) and Per Olaf Fjeld (EAAE). For more information see <<http://www.temple.edu/architecture/arcc>>.

During the conference it was announced that the 2008 EAAE/ARCC International Conference would be hosted by the Royal Danish Academy of Fine Art in Copenhagen. ■

—Brooke Harrington



Brooke Harrington introduces John Reynolds who accepted his Haecker Award at ARCC.

ACADEMIC JOB OP

UNLV

Two visiting faculty positions are open at the UNLV School of Architecture. If you are (or know someone who may be) interested in either of these two positions, please contact me for more information.

Senior Visiting Faculty. This position is directed toward faculty interested in spending a sabbatical, development leave, or an in-between-jobs leave teaching and doing research. The teaching load would include a two-semester graduate studio sequence with emphasis on sustainability and seminar courses in the area of expertise of the candidate. The salary for this position is competitive, and the opportunities for research and professional practice at UNLV and in Las Vegas are outstanding.

Junior Visiting Faculty. This position is directed toward recent graduates of M.Arch. or Ph.D. programs (or ABD doctoral students) interested in gaining teaching experience in design studio and in courses in the area of expertise of the candidate (we are primarily interested in people with expertise in construction technologies [materials and methods], LEED, or computer graphics and representation). The salary for this position is competitive and the opportunities to launch a teaching/research career are outstanding.

UNLV is an Affirmative Action/Equal Opportunity educator and employer committed to excellence through diversity. ■

—Alfredo Fernández-González

COOK SCHOLAR

I'm pleased to announce Rahman Azari from the Art University of Tabriz, Iran, as this year's recipient of the Jeffrey Cook Memorial Scholarship, which provides \$500 to assist a faculty member from a developing country in attending our annual retreat. Rahman has been an SBSEer since 2004 and has translated Fuller Moore and Norbert Lechner's classic ECS texts. At the retreat he was to present a comparison between the features of vernacular Iranian wind towers of the hot, arid region and the hot, humid region. [*Unfortunately he was unable to obtain a U.S. visa.—ed.*]

We owe a continuing debt to Jeff's vision of global sustainability and globally informed education. ■

—Jim Wasley

SBSE PEOPLE

☞ **Diane Armpriest** was tenured and promoted to Associate Professor at Idaho.

☞ **Harvey Bryan** is on a sabbatical year from Arizona State, partially in residence at the Lawrence Berkeley National Laboratory. He has been named to the Board of Directors of the Green Building Initiative, developers of the Green Globes Environmental Rating System, and will serve on the ANSI committee converting Green Globes into a national standard.

☞ In June the new Cavin Family Traveling Fellowship was announced during the AIA convention and at the UOregan reception. It honors the architectural traditions of the grandfather and father of **Brooks Cavin III**. An annual competition among architectural graduates of Oregon and Cal Poly Pomona will determine the \$10,000 prize winner. The proceeds of the prize must be used to offset foreign study/travel expenses.

☞ **Alfredo Fernández-González** was tenured and promoted to Associate Professor at UNLV. Also, he received the prestigious Jane & Robert Fielden Medal for Contributions of Excellence to Architectural Education and the College of Fine Arts Teacher of the Year Award.

☞ **Mary Guzowski** and colleagues at Minnesota received a grant from the Minnesota Pollution Control Agency to develop an educational program and online design resource to help architects integrate solar design and renewable energy in Minnesota architecture.

☞ **Vidar Lerum** will begin teaching at Illinois Urbana-Champaign this fall.

☞ **Martin Moeck** previously from Penn State, has accepted an Associate Professorship at Arizona State University beginning in August.

☞ Congratulations to the new Fellow of the American Solar Energy Society, **Marc Schiler** of USC. The multitude of excellent papers that Marc and his students have presented at ASES conferences over many years have resulted in this well-deserved honor.

☞ **Adil Sharag-Eldin** was tenured and promoted to Associate Professor at UNLV.

☞ **Michael Zaretsky** has left SCAD and will begin teaching environmental controls and sustainability at Cincinnati this fall. ■

BOOK REVIEW CORNER

RITUAL HOUSE

Ritual House: Drawing on Nature's Rhythms for Architecture and Urban Design by Ralph L. Knowles, Island Press, 2006.

This book is an uplifting invitation to explore architecture's fourth dimension. The rituals described here are those associated with the sun and the seasons that result from earth's rotation around it. From Paiute Indians migrating within the Owens Valley to the seasonal changes in the nave of cathedrals (and diurnal changes in the transept) this book illustrates how users of buildings celebrate change over time. With so many detailed examples, the designer is invited to create settings where nature can inspire people to use their buildings and outdoor spaces in ways that enrich daily life. The invitation is made even more appealing by the many sketches that capture the essence of each topic.

We who teach "technical" courses such as ECS are keenly aware that not all students respond to the design criteria that technical issues bring to studio. Even the aesthetic issues, so richly abundant in ECS, are sometimes not enough to hold our students' interest. The social issues are what many students also crave, and Ralph Knowles has given these issues a warm and thorough treatment in his latest book.

In separate chapters on migration, transformation, and metabolism, the focus is on people—their movement within buildings, their manipulation of building elements, and the extent of their awareness of fuel consumption. While there is well-deserved criticism of modern buildings' exclusion of nature, there is far more to excite designers to find ways to help nature lure our buildings' occupants into patterns of self-expression and acts of creativity.

This book is about more than houses. Urban life styles are isolating people from nature and its seasons, and urban density is blocking out the sun. Leading into his detailed discussion of the solar envelope and how it might seasonally expand and contract, Ralph points out "we need to go further than perception of solar access as only a way of providing energy to heat, light, cool, and ventilate our buildings. We need to extend the concept ... to include a more rewarding quality of life based on opening our experiences to complex natural rhythms." He then gives us richly detailed models of neighborhoods that respect the solar envelope. He explains the interstitium, that part of the solar envelope that allows seasonal vertical expansion with higher summer sun, and how it might facilitate seasonal cooling by ventilation.

Ritual House summarizes Ralph Knowles' many and varied contributions in his past books and technical papers, adding new insights. I found it joyful and inspiring.

—John Reynolds

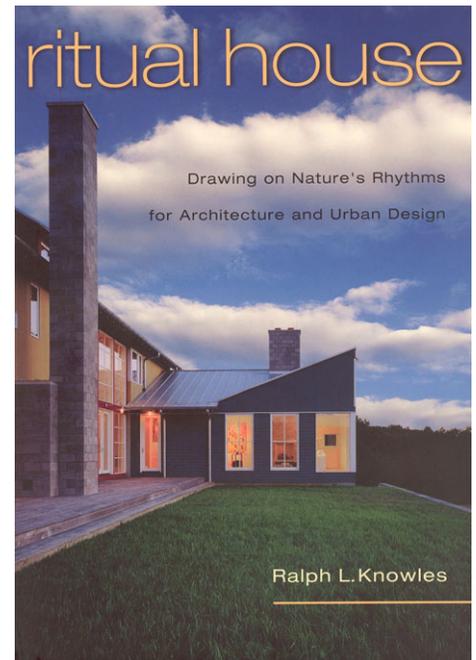
CONSTRUCTING IDEAS

Constructing Ideas, Understanding Architecture by Lance Lavine, Kendall/Hunt Publishing Company, 2004.

[Our reviewers Kathy Bash and Dorothy Payton practice realizing BIG ideas in Portland, OR.—ed.]

Lance Lavine's newest book provides a great example of the power of a provocative idea whether in the form of a building or a book. He explores the principles of domain, order, technology, and the idealized landscape as ideas generated by great buildings rather than the other way around. His book stirred up so many ideas and conversations about our roles as place-makers and the design of our built environment that we'll attempt to convey our enthusiasm for his

• continued next column



STUFF FOR YOU

ENERGYPLUS INTERFACE

On June 19 DOE released a Web-based interface for the *EnergyPlus* simulation program. Its Example File Generator quickly creates, runs, and e-mails user-defined simple models for commercial buildings with just a few inputs. Giving the user an easy way to create and review *EnergyPlus* input and output greatly simplifies learning the software. Users quickly create input files using Web-based forms with defaults based on ASHRAE Standard 90.1, CBECS, and other data sources. Look for the web interface near the page bottom at http://www.energyplus.gov/interfaces_tools.html. While you're there, check out the information on Hevacomp and EFEN, new full-featured interfaces.

—Drury Crawley

FABULOUS CASE STUDIES

Our friends in EAAE have put together a fabulous case study web site <http://dynamo.asro.kuleuven.ac.be/> with photos, drawings, and narrative. Registration is free. Herman Neuckermans herman.neuckermans@asro.kuleuven.be presented it as part of his talk at ARCC/EAAE in Philadelphia.

—Leonard Bachman

STRUCTURES GROUP FORMING

As many of you may already know, from August 3 to 5 the University of Maryland will be hosting the Building Technology Educators' Symposium, a gathering of architectural educators oriented to issues of pedagogy in the areas of construction materials and methods and building structures. We have a great slate of over 40 presentations on a diverse range of topics ranging from studio integration to BIM, to effective teaching methods in structures and more. Ed Allen and Joe Burns (of Thornton Tomasetti Engineers) are the keynote speakers. It's shaping up to be a great event, and interest has exceeded expectations.

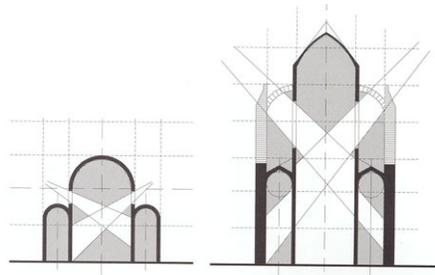
For more information on the event and the organization visit our web site <http://faculty.arch.utah.edu/btes>. ■

—Deborah Oakley

book and share some of the questions we entertained. At the beginning of an early conversation about the book, Kathy said, "Lance's words are like dark chocolate!" We had to savor the book slowly cover-to-cover, only pausing long enough to have some of the best conversations about the meaning of architecture either of us has had in a long while. And, like good chocolate, it changed the tone of this review.

When Dorothy volunteered to review the book, her original question was, "Why would this book be of interest to people involved in building science?" Given the audience, Kathy wondered what Lance's treatise would illuminate about sustainability issues. The altered inquiry became what can sustainable buildings reveal to us about our place in the cosmos? What in green buildings could resonate with people to stir-up or connect them to BIG ideas? (Warning: You might need some chocolate to answer these questions!)

The most stimulating questions emerged midway through the book. Chapter Six, "Chartres Cathedral and Architectural Technology, Symbolic Form that Redirects Nature," redefines the function of technology. We wondered what new insights about being human arise from the current conceit of sustainable buildings. What would it take to connect the principles of Feng Shui with those of quantum mechanics? Where are the dissertations about the flows of energy, water, and materials? "Buildings cannot deny the importance of measurable, empirical performance because they must stand up in the face of gravity; keep us comfortable in the face of sometimes harsh climatic conditions; and bring us light so that we can see well enough to perform tasks. Accomplishing these tasks with the least possible material or energy identifies only a portion of the architectural problem of technology. They are asked to create ideas of domain and order as they relate us to the natural world that they modify. This task is not calculable, but born of interpretation of architectural form. Technological forms in architecture thus bear the symbolic as well as mechanical responsibilities."



A Gothic cathedral is much higher and light-filled than its Romanesque predecessors.

Image: Lance Lovine

We do not have the space in this review to launch a discussion of his great essay about asking building technologies to do more than redirect climate, gravity, and sunlight. He proposes that the manner in which buildings contain us is analogous to the way Kepler's solar system holds the earth. A discussion of that section is easily worth a star-gazing evening at an SBSE gathering.

Circling back to address the original questions, we did not find direct correlations to sustainable issues or energy flows. We did, however, discover audacious new ideas to pursue. This fascinating book would be of interest to SBSE readers and educators with the opportunity to inculcate and exhilarate students with BIG ideas that guide an understanding of the art and science of architecture. Through germinating vital and life-conducive ideas we can affect how we build our environments. The twenty buildings examined provide a cache of case studies that would be useful to incorporate as part of an introductory curriculum to explain building science themes. More important, the entire exposition could keep a theory-of-architecture class pondering for a term and possibly their entire careers.

We recommend getting a few friends together, each with her or his own copy of this beautifully designed book, to read this epistle before the next solstice or equinox. Set out the fondue pots, melt some chocolate, start the inspired conversations. Buildings will never seem the same. ■

—Kathy Bash and Dorothy Payton



The skyline at Pingree Park.

photo: Bruce Haglund

EVENT PREVIEWS

CASE STUDIES AT ACSA

There is one category in the call for papers for the 2007 ACSA Annual Meeting that should be of particular interest to SBSEers:

“Contemporary and Emerging Approaches to Case Study Evaluations of Buildings”

(Brooke Harrington and Rashida Ng, moderators)

The goal is to discover and examine significant design analysis and post-occupancy studies important to architectural and post-professional continuing education. I urge you to submit papers for the conference to be held in Philadelphia.

—Brooke Harrington

40TH ANZASCA CONFERENCE

“Challenges for architectural science in changing climates” will be 22–25 November 2006, in Adelaide, South Australia.

You are invited to present your views and share your experiences in topics reflecting the conference theme: The indicators of sustainable building, thermal comfort, building and energy, daylighting and lighting, acoustics, construction and materials, digital architecture, education of future architects, and building case studies.

For further information about paper submission, registration, accommodation during the conference, and all else please visit <<http://www.adelaide.edu.au/anzasca2006>>.

—Veronica Soebarto

ENGINEERING SUSTAINABILITY 2007

“Innovations that Span Boundaries” will be April 15–18, 2007, in Pittsburgh, PA. Sponsored by the Mascaro Sustainability Initiative at the University of Pittsburgh, it will be an initiative created to promote and support interdisciplinary research and education programs that focus on green construction and the sustainable use of water.

Engineering Sustainability 2007 aims to bring together scientists and engineers to present cutting-edge results on technological advances in sustainable engineering. Check the MSI web site for the call for papers and other conference details <<http://www.engr.pitt.edu/msi/2007conference/confmain.htm>>. Abstracts are due October 20, 2006. █

—Gena Kovalcik

PUBLISHING OPPORTUNITY

ARCHITECTURAL SCIENCE REVIEW

I have recently become only the second Editor-in-Chief of the *Architectural Science Review* in its 48-year history. It is a position I am honoured to hold; I hope to raise the *ASR* to even higher levels, both as an academic journal and as a journal that has interesting and relevant information for the professions. As one part of this quest, we wish to get the word out to more organizations and professionals about the revamping of the journal, subscriptions, and the call for papers. We look forward to hearing from you.

This international, double-blind refereed journal, published by the University of Sydney since 1958, is devoted to the science of architecture and the built environment. *ASR* publishes original research papers, review articles, and research notes in all areas of architectural science, building science and technology, building economics, environmental science, environmental sustainability, structures and materials, audio and acoustics, illumination, building services, building climatology, history and theory of architectural and building science and technology, and the social sciences pertaining to architecture and the built environment. We also publish extensive book reviews and occasional editorials.

All manuscripts are to be submitted electronically in Microsoft Word™ to <asreditor@arch.usyd.edu.au> with “ASR Submission” in the subject line. Also submit a PDF backup file for comparing tables and figures. If authors do not have access to e-mail, send one complete hard copy of the article, accompanied by a CD containing the electronic version, to *ASR Journal*, Faculty of Architecture, University of Sydney, Sydney NSW 2006, Australia. The language of submission and publication is English in accordance with the Oxford English, Macquarie, or Webster’s (USA) dictionaries. The *Architectural Science Review* adopts the Harvard, APA, or “Royal Society” science style of manuscript preparation, submission, and publication. For assistance see <<http://www.cput.ac.za/library/infoLit/biblapa.html>>; we have a slight preference for the APA version. All manuscripts are to be submitted in 12-point, double-spaced text with 2.5 cm [1 in] margins all round. Additional submission details are contained in any issue of the journal or from the web site at <<http://www.arch.usyd.edu.au/web/research/publications>>. █

—Gary Moore

TEACHING ENCLOSURE

I hope to start a dialogue regarding building envelope education for architects and students of architecture. I am an architect in Alberta and have been retained by the Alberta Association of Architects (AAA) to develop a building envelope course for practicing architects in the province. The course, developed jointly by AAA and the Faculty of Environmental Design (EVDS) at the University of Calgary, will be mandatory and a part of the AAA Continuing Education program. SBSE was highly recommended as a resource in our course development, and I hope to develop an ongoing dialogue with you.

There is a vast amount of on-going research in building science in Canada and in the U.S.. Finding appropriate material for our course and making it manageable in a seminar setting as well as in a distance education format are our challenges. I look forward to studying the content of your web site and communicating with you if you are amenable and your schedule permits.

I am curious as to what types of computer technology and software you employ for the delivery of building science concepts. I am trying to develop a means of presenting dynamic conditions in buildings in a dynamically; much like a computer animated fly-through of a building but with the materials of the building assemblies and the environmental factors doing the “flying.”

I would greatly appreciate hearing from you and look forward to future communication as well. Join the conversation by e-mailing <chambersarchitect@shaw.ca>. █

—Mark Chambers

ANNUAL MEETING REPORT

SQU1.COM IS BACK!

1. Introduction of 38 members and 3 visitors.
2. President's Report (Theis)
 - Thanks to Ecotone for contributing *The Ecological Engineer* to Retreat participants.
 - Green Energy Education Act: Bill on the table in Congress awaiting approval for engineering/architectural programs. Thanks to SBSE members who provided input.
 - President's agenda: 1) Reconstitute, 2) Revisit, and 3) Revise. **Reconstitute:** clarify officers' duties and revise SBSE by-laws. **Revisit:** identify areas of web site to be filled with content provided to Robert. Revive curriculum group. Coalesce a plan for more curriculum information on web site (see #6 below). **Revise:** create a strategic plan that includes the Oxford Conference 2008.
3. Treasurer's Report (Theis) distributed with the agenda. Balance: \$39,000.
4. Peer-Review Network (Grondzik). Process continues to be active. Members and administrators contact Walter for faculty reviews of promotion and/or tenure cases. Web site to be reviewed for clarification of process. Names of peer-reviewers are not offered, which is in keeping with university blind-process review.
5. Newsletter (Haglund). Still going strong; the membership writes the newsletter.
6. Web site (Theis). Discussion about enhancing web site content. Kwok to discuss course/curriculum links at the Retreat. Bryan (on sabbatical), Olgyay, Haglund, Guzowski willing to assist.
7. SBSE Awards (Wasley)
 - *Contributions for Student Retreat Scholarships and ASES Travel Awards.* Kudos to Fuller and Jane Moore as well as John Reynolds for contributions to SBSE. There might also be some assistance from ASES in the future.
 - *Student Retreat Scholarships.* Eight scholarships, by school: Shelley Kawamura, Amy Kreye, Kirk Jensen, Clint Wood (CSU); Megan Compton (Idaho); Dianne Ahmann, Sam Jensen Augustine (Oregon); Tareq Baker (USC).
 - *ASES Travel Scholarships.* None given this year.
 - *ASES Best Student Paper Award.* Jim designated 10 SBSEers to view student presentations. A more "formal" application for students eligible for best papers will be instituted next year because of the difficulty in developing a definitive list.
 - *Green Poster Competition.* Not conducted this year. Rajkovich and Thomson to develop and coordinate the competition requirements for next year.
 - *Jeff Cook Memorial Fellowship.* Awardee not granted U.S. visa to attend doctoral program. SBSE will award two next year.
 - *Jeff Cook Student Travel Award to PLEA.* Extended deadline, 2 applicants. Decision and notification will be announced in the next few weeks.
8. Other Projects
 - Jeff Cook Legacy Project (Bryan). Jeff Cook's collected works are in a long process of being scanned and archived to be placed on a CD.
 - Retreat 2007 (Grondzik, Haglund, Kwok). IslandWood, Bainbridge Island, WA, June 27–July 1. "Out of the Box" theme about connecting SBSE activities with practice, community, K–12, and other.
9. Oxford Conference 2008 (Roaf). Terrific venue in Oxford, UK. Sue Roaf invites SBSE to participate in strategically planning targets for architectural education with TIA (Teaching in Architecture). MOTION (Haglund): SBSE to co-sponsor the Oxford Conference. 2nd (Giaccardo). No discussion. Motion passed.
10. SBSE relationships with other organizations (McDonald, Wasley). USGBC has solid SBSE representation in its Education division [cf. page 2]. Margot urged faculty to attend the ASES Education Committee meeting and encouraged institutions to form student chapters. Sustainable Campus and Urban Planners (SCUP) met in Hawaii during this ASES meeting—potential for working with faculty on energy and other issues.
11. Green Building Initiative (Bryan). Green Globes offers web-based delivery system useful



Image: Squ1 web site

It has taken a long time and a huge amount of effort, but we are pleased to announce that Square One research is finally back online with a brand new web site <<http://squ1.com>>.

One of the reasons for our 9 months' offline [*appropriate gestation period!—ed.*] is that squ1.com has given birth to two brand new sites as well! The proud mum would love to share her newborns with you—<<http://squ1.org>>, the Square One WIKI, and <<http://natural-frequency.com>>, a free environmental design journal.

You may also be interested in the imminent release of the brand new version of *Ecotect*. You can read the full details of the release schedule and download the latest beta trial at <<http://squ1.com/ecotect-v550-trialbeta>>.

We would greatly appreciate your taking a bit of spare time to investigate our new creations and hope you find them useful in your daily work. Thank you for your continued interest in our work and your patience during these long nine months. Your kind words of encouragement during this time were a great help and kept us going. Thanks to all! █

—Andrew Marsh

ANNUAL MEETING [CONT.]

in studio, follows design phases of a project. Competition in the Fall.

12. Announcements

- AIA Convention, May 3–5, 2007, San Antonio, TX, sustainability theme.
- Adil Sharag–Eldin will be Passive Technical Committee Chair for Solar 2007 in Cleveland, OH, July 7–12. Seeking volunteers for the review committee.
- Solar 2008 in San Diego, CA.
- Solar 2009 in Washington, DC. █

—Alison Kwok

• continued next column

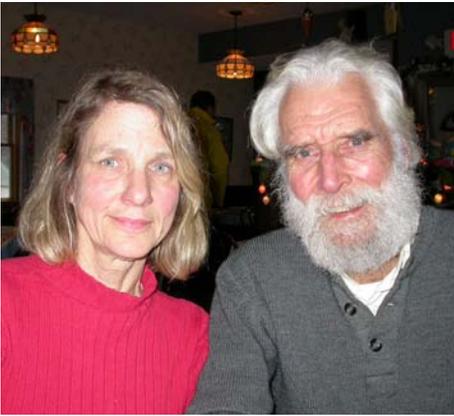


photo: Alison Kwok

Karen and Malcolm Wells.

Malcolm Wells was invited to ASES this year to receive the Passive Pioneer Award at the Award Dinner on July 11. Malcolm looked forward to this trip, but ill-health prevented him from accepting this prestigious award in person. An honorary SBSEer, Malcolm has inspired us for decades through his work and writing, his incisive criticism of the profession, and his 1969 “Wilderness-Based Checklist for Design and Construction,” which SBSE updated in 1999. ||

—Harvey Bryan & Bruce Haglund



SBSE NEWS
C/O BRUCE HAGLUND
DEPARTMENT OF ARCHITECTURE
UNIVERSITY OF IDAHO
PO BOX 442451
MOSCOW, ID 83844-2451

DHAKA HELIODON

SBSEer Shamim Javed at the Department of Architecture, North South University, Dhaka, Bangladesh, recently made this “shoe-string budget” heliodon with seed drawings from Norbert Lechner and assistance from an iron shop. He intends to infuse NSU’s new undergraduate architecture program, started fall 2004, with environmental concerns from the beginning years. Send suggestions on attaining this goal to <javeds@northsouth.edu>.

Up to this point it has cost slightly less than US\$150. He’s planning to test this gadget over the summer, looking for an easy way to take time-lapse photos of the shadow that a one-cubic-foot cube makes in sunlight and compare those results with shadows made in the heliodon to test the reliability of the machine. Does anyone have sound advice about calibration? ||

—Shamim Javed



The heliodon at home in the architecture lab.



The iron shop origins of the beast.

photos: Shamim Javed

FALL ISSUE SUBMITTAL DEADLINE—SEPTEMBER 1

FIRST CLASS MAIL