



photo: Bruce Haglund

Frank Lloyd Wright's Jacobs I house, bunkering down in the prairie grass, is among the many Wrightian delights that await SBSEers in Madison and Spring Green.

We Know What You're Doing Next Summer

June and July promise to be busy months for SBSEers. I hope everyone has a chance to participate in at least one of our offerings. This year's annual meeting will be held in conjunction with ASES Solar2000 at Monona Terrace in Madison, Wisconsin. It will be a great opportunity to find out how (W)right the new Monona Terrace convention center is. [Check their website <http://www.mononaterrace.com/comm_activities.htm> for info and activities. Find out why Otis Redding is forever connected to Madison.—ed.] The annual SBSE dinner in Madison on June 21 will serve as a segue to the retreat at Taliesin's Hilltop School [To get the lay of the land, study <<http://www.taliesinpreservation.org>>—ed.]. SBSEers who attend ASES and those coming in for the retreat will have a chance to mingle and regroup between events, before the SBSE caravan to Spring Green on June 22. This year we return to rustic, ascetic retreat accommodations. [See the enclosed flyer for details.—ed.]

Our new president, Walter Grondzik, reports that ACSA Executive Director Stephanie Vierra [whose eloquent soliloquy on Golden Pond in the October ACSA News showed a deep sympathy for SBSE-esque issues—ed.] was very pleased with our sponsorship of the 1999 Technology Conference and welcomes our passive sponsorship of the MIT-organized 2000 event, *Emerging Technologies and Design*. The topic areas—design process and virtual media; simulation, testing, and form generation; and new directions in research—are rich with possibilities for SBSEers. Abstracts are due at ACSA by **January 7**. We're contemplating an active role in planning and organizing the 2001 Technology Conference. Is there a superhero out there willing to set the venue and agenda? Sounds like a listserver discussion topic.

Our globe-trotting members will have the opportunity to participate in Frank Sun's workshop in China [details soon on the SBSE listserver—ed.], the ARCC/EAAE conference in France, not to mention the potential to participate in Ove Arup's three-day SBSE workshop in London. [See Chris Luebke's letter to the editor.—ed.] ■

□BruceHaglund

SBSE Calendar

2000

Jan 1	World Ends
Jan 7	ACSA Technology Conf. abstracts due
Jun 3–10	SBSE Workshops; China
Jun 16–21	ASES Solar2000 Conference; Madison, WI
Jun 21	SBSE Annual Meeting; Madison, WI
Jun 22–24	SBSE Retreat; Taliesin, WI
Jul 2–5	PLEA 2000 Conference; Cambridge, UK
Jul 4–8	ARCC/EAAE 2000 Conference; Lyon, FR
Jul 14–17	ACSA Technology Conf.; Cambridge, MA ■

Election Results

Alison Kwok is president-elect with a 58% majority over Mike Utzinger, Mark DeKay, and Paul Clark. Secretary/treasurer **Terri Meyer Boake** was reelected over write-in Jim Wasley.

Reactions—AK: Uh-oh, were the ballots counted correctly? Oh my, that's good news! Thanks to those who have made my life richer. We'll be mapping venues for the next few years' retreats.

PC: I think the big picture is distorted. Therefore—for the SBSE Nation—I demand a recount. I'll launch a massive, grassroots fund-raising drive to pay for it. Just kidding! [We read you, Ross P. Clark!—ed.] ■

□BruceHaglund

Letter to the Editor

Greetings from sunny London! It's incredible what a pair of yellow lenses will do to the clouds! I have been talking with some of my peers here about expanding their internal summer school program. We would like to hear about your research interests: You probably want to hear about our programs and interests. We're considering hosting a three-day workshop here in London on a topic of mutual interest (i.e., naturally ventilated buildings, resource-efficient design, good wine). We would also visit a few building sites. What topics interest you? What would be the best time for you to come to London this summer?

Chris Ludkeman, Over Arup

[Sounds like a great opportunity! Let's pepper Chris <chris.ludkeman@arup.com> with so many replies that Arup considers SBSE participation in summer school a cornerstone of their operation.—ed.]



It's been such a long time since I saw any of you, but I enjoy keeping up with the group through the *SBSE News*. Bruce, great job with the *News* over the years. It's a wonderful source of information, ideas, and resources.

Although I was unsuccessful in my bid for tenure in 1991, I continue to teach as Senior Lecturer (School of Architecture, University of Texas at Arlington) on a part-time basis (one course per semester—ECS Lighting in the fall; Energy in the spring). I also maintain a small design and consulting practice. SBSE has a very positive effect on my

□continued next page

SBSE News is published quarterly by the Society of Building Science Educators, a not-for-profit corporation. Material for publication should be submitted to Bruce Haglund, Editor; Department of Architecture; University of Idaho; PO Box 442451; 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. Membership and mailing list inquiries should be directed to Terri Meyer Boake, Secretary/Treasurer; School of Architecture; University of Waterloo; Waterloo, ON; Canada N2L 3G1; phone 519-885-1211 x6647; fax 519-746-0512; e-mail <tboake@cousteau.uwaterloo.ca>. Join the SBSE list server by sending **subscribe sbse** to <majordomo@uidaho.edu>. Visit our home page <<http://www.polaris.net/~sbse/web/>>. ■

Daylighting Breaks through

[The following letter, posted on the California Energy Commission list server, was sent to John Sugar from Lisa Heschong of the Heschong Mahone Group and submitted to the News by Murray Milne.—ed.]

We recently completed a Third Party Project, funded by Pacific Gas & Electric, on behalf of the California Board for Energy Efficiency, investigating the relationship between human performance and daylighting. This innovative research approach, using existing data from large numbers of buildings, has proven to be an extremely useful way to probe the relationship between the characteristics of the physical environment and human purposes. Our study has demonstrated a strong statistical relationship between: 1) skylighting in stores and increased retail sales and 2) daylighting in classrooms and improved elementary student test scores.

We believe these combined studies will help drive the market for increased use of daylighting and will give the state an opportunity to reap considerable energy savings. We spent over five years seeking funding for this study, which other sources considered too risky. The Third Party Process, thus, was a blessing, allowing us to pursue the study and engage in a proof-of-concept for the methodology. The study greatly benefited from management and guidance by George Loisos, PG&E project manager, because of his deep technical understanding of daylighting and his sense of mission to create a market transformation program that will bring daylighting into mainstream commercial buildings in the state. Other PG&E staff also contributed to the success of the study by providing context and contacts for the research effort. Those resources were invaluable. However, since the project was a Third Party Project at PG&E, upper management did not consider it a PG&E project. As a consequence and unsure of the results, a considerable distance between the project and PG&E was structured into our contract. We were asked never to mention that PG&E funded the study. PG&E interest in the findings of the study was very slight, until the media picked it up. Once a story appeared in the *Sacramento Bee* and on CBS and ABC-TV, upper level PG&E management became very interested in the project. Interest from the public has been phenomenal. We have received dozens of media requests for the report. We have had over 200 private requests for the reports from around the country and the world. We are waiting for PG&E's approval to release the reports to the public.

Given the level of public interest, it will be very difficult for the Heschong Mahone Group with its limited resources (as a small private consulting firm) to meet the demand for information and continue to disseminate our findings via seminars, conferences, and conventions. In order to do so, we will need subsidy from some larger, interested organization. The Third Party Process provides enormous, welcomed support for innovative programs that do not fit within the confines of other utility or government initiatives. We believe that the technical expertise and sense of mission at PG&E contributed to the success of the project. However, we also see conflict between the public purpose of the Third Party Process and the corporate mentality of a utility. It would be good to work out a procedure that takes advantage of private sector "can-do" and technical knowledge of the utilities, preserves the public's access to the results, and provides cooperation of a large, motivated organization to help publicize and disseminate the results.

□Lisa Heschong

Epilogue

News of the day—we just got three years(!) of funding to do more research on daylighting, lighting, and ventilation effects using the daylighting study methodology along with other daylighting research. We are very excited!

We are continuing our efforts to apply building science and our wits to the problem of making the built environment more energy efficient. Our consulting firm is composed of architects, engineers, and others; our client base includes state and national energy agencies as well as utility companies interested in market transformation toward energy efficiency. Because of our recent successes, our project list is expanding, and we're looking for a few good people to add to our team. Please mention us to your best students and have them send us a vita. Or send us one of your own if you'd be interested in joining the consulting world. We're located in Sacramento, a great place to live, work, and play (despite what our friends by the Bay may think).

□continued next page

Conference Review

As a seasoned conference attendee I have been known to give my paper and then play hookey [*I doubt other SBSEers are guilty of this transgression.—ed.*], however the AIA's Mainstreaming Green Conference held last October in Chattanooga proved worthy of more constant attendance. Muscoe Martin, this year's chair of AIA/COTE as well as conference chair, organized a compelling event. William McDonough led off with a well-received evening keynote, building on his popular *Atlantic Monthly* article (October 1998) criticizing eco-efficiency. The next day the conference proceeded to explore variations on the eco-efficiency theme—rating systems. The USGBC people presented the latest changes to LEED, the results of a year-long pilot test of the system. Yours truly presented the latest developments with BREEAM, which was followed by presentations of a host of regional systems. Of those, the work of Mary Guzowski *et al.* on a rating system for Hennepin County was the most developed.

The most intense series of presentations occurred at the life-cycle assessment (LCA) session. Nigel Howard of the Building Research Establishment presented a very powerful LCA-based tool called ENVEST which incorporates an extremely friendly user interface. Wayne Trusty presented the latest developments with ATHENA, a Canadian LCA tool. Rumor has it that Wayne has managed to get AIA/COTE to collaborate on generating a U.S. LCA database for buildings. This \$675K proposal, if funded, will result in an open LCA database that can be used by ATHENA or any other LCA-based tool. This session demonstrated that LCA research is moving at a rapid pace and, if rating systems don't start including some type of LCA, they may soon be history.

At these events, it always takes the non-architect to stir the pot, skillfully done by lunchtime speaker Janine Benyus, a life scientist and author of *Biomimicry: Innovation Inspired by Nature*. In her well-crafted presentation, Benyus argued for a new science that seeks sustainable solutions by mimicking nature's design and processes. She opens up new territories that if explored, can provide important theoretical underpinnings for sustainability. Perhaps someone (any Ph.D. students out there?) should try linking Benyus' work with Edward O. Wilson's notion of Biophilia.

Don Prowler moderated the wrap-up plenary. Here results from a design charette for a sustainable Chattanooga developed by UT students were presented and critiqued by Chattanooga's colorful city council member, David Crockett (yes, a descendant!). From this brief, but stimulating, interaction it is not surprising that Chattanooga has the reputation as one of the more sustainable cities in America.

No conference proceedings are being planned, however the AIA/COTE has placed thirty-five of the conference papers on its web site <<http://www.e-architect.com/pia/cote>>. [*Worth bookmarking for the papers and more!—ed.*] ■

□Harvey Bryan

Daylighting Breaks Through [continued]

The *Seattle Times* printed a story about our recent Seattle Lighting Design Lab-sponsored workshop because they were contacted by Mark Ohrenschall of NEEA. Plus they were interested because we studied their school system. Consequently, the study got quite a bit of play through ripple effect from the *Times* story. Two local Seattle TV news stations reported it, and now ABC's *20/20* is considering a segment! So it's been a great opportunity to promote daylighting.

The executive summary of this research is on our web site <<http://www.h-m-g.com>> under "What's New," and the reports are available from <<http://www.pge.com/pec/daylight/>>. ■

□Lisa Heschong and Doug Mahone

Letters [continued]

teaching and practice. I miss having an active association with SBSE, but my status with the university doesn't provide much support. Regards to all my old friends at SBSE. Best wishes to all of you—keep up the good work!

□Trudd James, Texas Arlington

[*It's always great to hear from old friends. Congratulations on the IESNA award! If you can't come to SBSE, bring SBSE to you—how about co-sponsoring a retreat in Texas!? You find the site, we define the program. Just a thought. Listening, Alison?—ed.*]



I've been designing and managing school construction in Ohio. I've had some fun doing state-financed energy retrofits, too. There are many opportunities for improvements. The big barrier is schedule. We pump projects out! I've been spearheading the institution of daylighting practices here thanks to support from SBSE members. I keep track of SBSE goings on and hope some day to report great news in the development of case studies for SBSE use. Keep up the good work!

□John McCreery, AIA Ohio

P.S. You might like to see some former Ball State student work inspired by "integration" of theory and practice: <<http://infocom.com/~jarch/jarch1/jarch.html>>.

[*I'm glad that at least one state is investing in schools (rather than just prisons) and has the good luck to have an SBSE-savvy practitioner involved. Grease the machine!—ed.*]



I applaud the "Manifesto" proposed by Clark, DeKay, Haglund, Mallory, and Wasley! I especially love their suggestion that the ideal curriculum consists of **one** course taught by the entire faculty (oh yes, such sweet heresy!)

I love it! Let it be!

□Mary Guzowski, Minnesota

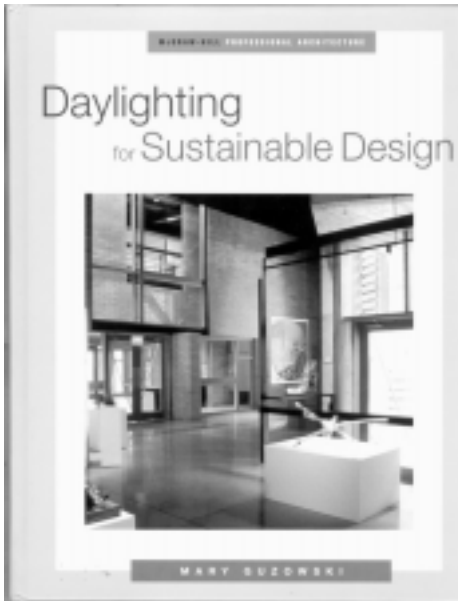
P.S. Please sign me up for the summer retreat. I wouldn't miss it.

[*Join the conspiracy. Propose another tenet of radical holism. We hope to meet furtively in Wisconsin's hinterlands during the retreat. The Romeo and Juliet tower comes to mind.—ed.*] ■

SBSE People

🐼 **Dana Buntrock** was selected to serve on the editorial board of the *Journal of Architectural Education* for 1999–2002.

✍️ Hot off the McGraw-Hill press is **Mary Guzowski's** book, *Daylighting for Sustainable Design*. It's available from amazon.com or your local bookseller. Read the review in the November issue of *Environmental Building News*. [I'd offer my review of Mary's book, but I made the mistake (?) of showing it to my design studio—they sucked it up because they found it chock full of useful information pertinent to their sustainable, daylighted gallery/museum project. Besides, Malcolm Wells wrote a warm Foreword.—ed.]



✨ **Truett James** and his partner Stephen Lawson received an IESNA 1999 Award of Merit for the Fisk Residence kitchen/family room remodel using daylighting and manufactured lighting. **Mojtaba Navvab** also received an IESNA award for lighting design work for the Chrysler Corporation.

✍️ *A Green Vitruvius: Principles and Practices of Sustainable Architectural Design*, recently published by James & James, co-authored by **J. Owen Lewis** also received rave review from *Environmental Building News*.

☐ *continued next page*

Bazaar for the bizarre

Beta 3 Software from LBL

We are happy to announce the Beta 3 release of the *Building Design Advisor* (BDA 2.0b3) available at <<http://kmp.lbl.gov/BDA>>, and the *Desktop Radiance* software available at <<http://kmp.lbl.gov/DT-Rad>>. This version of the BDA has links to the DOE-2.1E building energy simulation program and supports the specification of overhangs, vertical fins, and external obstructions. We look forward to your comments and suggestions towards making the BDA and *Desktop Radiance* better serve your needs. Please let me know if you have any problems downloading, installing, or using the software. For help or info e-mail <K_Papamichael@lbl.gov>. [I've downloaded the BDA and found it to have a slick Windows GUI [Eeyuu!—ed.'s ed.] and a short user's manual, which I've lost on my desk (see photo). Since it's beta software, it crashes! Try it, you'll have fun!—ed.]

☐ *Kostas Papamichael*

MINNESOTA SUSTAINABLE DESIGN GUIDE

In 1997, leaders and staff from Hennepin County, the largest county government in Minnesota, took the initiative to design a program to ensure that their \$30 million annual facilities budget was spent on sustainable projects. Working with an interdisciplinary team, Hennepin County staff developed a sustainable design guide for county medical, office, and institutional buildings. The first phase of the project, completed in December 1998, developed the concept, structure, and content for the *Minnesota Sustainable Design Guide*. The second phase of the project, which began in January 1999, and will extend through April 2000, pilot-tests and develops an educational program to train designers to implement the guide.

The *Minnesota Sustainable Design Guide* can be used to overlay environmental issues on the design, construction, and operation of both new and renovated facilities. It can help set sustainable design priorities and goals; develop appropriate sustainable design strategies for a particular project; and determine performance measures to guide the design and decision-making process. It also can be used as a management tool to organize and structure environmental concerns during the design, construction, and operations phases. After December 15, 1999, a public website for the *Minnesota Sustainable Design Guide*, <<http://www.sustainabledesignguide.umn.edu>>, will describe its concept, goals, structure, and content. Please send us your thoughts and comments on the project.

☐ *John Carmody and Mary Guzowski*

Alliance to Save Energy Newsletter

Published bimonthly at <AlliancetoSaveEnergy@ase.org>, the ASE newsletter provides a lot of pertinent information for energy-conscious architects and educators. In the current issue there's a pointer to a wonderful speech by Tim Wurth (that makes me wish HE were running for President) on the Union of Concerned Scientists site at <<http://www.uca.usa>>.

☐ *Murray Milne*

Architectural Lighting Design Online

Through Penn State's internet-based World Campus, the Department of Architectural Engineering has begun to offer two courses aimed at professional engineers and designers who need formal education in lighting or are preparing for NCQLP certification. Full information on the courses, Architectural Lighting Design Practice and Architectural Daylighting, can be found at <<http://www.worldcampus.psu.edu/pub/programs/archlighting/index.shtml>>. ■

☐ *Penn State*

SBSE Y2K Job Mart

Arizona State University

The School of Architecture invites applicants for a tenure-track position beginning fall 2000. A qualified individual may be appointed at the rank of assistant or associate professor, contingent on accomplishments appropriate to rank.

The school seeks an individual broadly-based in sustainability and capable of integrating knowledge of energy-efficient, climate-responsive design and building technologies. The appointee will be expected to teach graduate and undergraduate lectures, seminars, and design studios as well as contribute to the Ph.D. program in Environmental Design and Planning. Applicants must hold an M.Arch. or equivalent professional degree with demonstrated excellence in teaching and the ability to conduct research and scholarship, appropriate to rank, in the areas of sustainability and energy-efficient design and technology. A post-professional graduate degree or appropriate doctoral degree and professional practice are desired.

Applicants must submit a letter of interest including areas of teaching, creative activity, research and/or scholarship; a curriculum vitae; a portfolio and/or other evidence of professional and/or academic work; and names, addresses, phone/fax numbers, and e-mail addresses of four professional or academic references. Send applications to: Sustainable Search Committee; School of Architecture; Arizona State University; Box 871605; Tempe, AZ 85287-1605. Applications will be reviewed commencing January 31, 2000, and every two weeks thereafter until the position is filled.

Rensselaer Polytechnic Institute

The School of Architecture invites applications for tenured and tenure-track positions beginning fall 2000. Candidates must have earned a master's or doctorate in architecture or related field.

Architectural Technology and Design: Candidates should have demonstrated strength in teaching and research in construction technologies and computer-assisted design integration. Technology and design faculty are expected to lead in teaching the technology and design studio sequence in the architecture and building science degree programs. The chosen candidate will be expected to undertake significant research and scholarship.

Candidates interested should submit a résumé, statement of professional interests, as well as names/addresses of at least three references to: Chair, Architectural Technology and Design; School of Architecture; Rensselaer Polytechnic Institute; Troy, NY 12180-3590. Review of applications will begin immediately and continue until the position is filled.

State University of New York at Buffalo

The Department of Architecture is seeking applicants at either the assistant or associate level with excellent records in teaching, research, and/or creative practice. Candidates should hold terminal degrees in their respective fields; professional registration is desired.

Design/Construction Technology candidates should have a record of accomplishment and teaching experience in the area of architectural design with a special emphasis on construction and/or environmental technologies. The candidate will teach design studios at both the undergraduate and graduate levels, supervise thesis students, conduct courses in construction and building technologies, and offer advanced seminars in his or her area of specialization.

Applicants should include a letter of interest, curriculum vitae, portfolio (not to exceed 9.5" x 12"), and names of three references. Send inquiries and applications to: Chair Design/Construction Technology Search Committee; Department of Architecture; 112 Hayes Hall; SUNY-Buffalo; Buffalo, NY 14214-3087; <drs5@ap.buffalo.edu>. Review of applicants begins January 15, 2000.

Temple University

The architecture program invites applications for a full-time, tenure-track position at the assistant professor level in the areas of design, building technology, and theory beginning in the fall 2000. The candidate should demonstrate experience in the initiation and teaching of technology and theory courses, design studio instruction, and experience in architectural practice and research. The candidate

SBSE People [cont.]

∪ The University of Florida Foundation Research Professor for 1999 is **Gary Siebein** "in recognition of outstanding research and scholarly achievements which have contributed greatly to the reputation of the University." This work has involved the modeling, measurement, prediction, and simulation of acoustics in applied design situations, particularly in concert halls, theaters, and lately, classrooms and construction noise. [*Sounds like the classroom to which I'm always assigned.—ed.*] This prestigious award is given only to one researcher each year. Everyone in the College of Architecture agrees it is well deserved. ▮

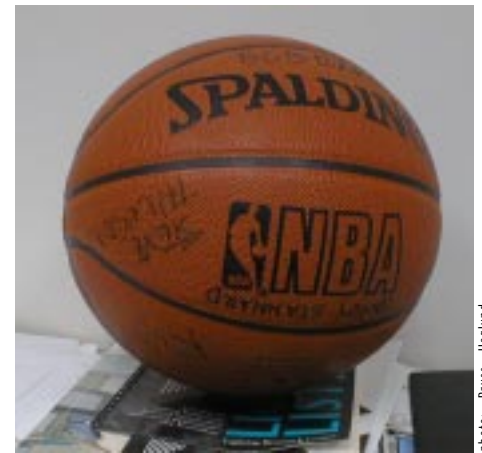


photo: Bruce Haglund

Bruce Haglund earned la balle de joie for service as department chair.

More Hay Fund Info

Go to the main home page for the site <<http://suntzu.calpoly.edu/hay/>> and click on the SBSE/EEHS link. There is a "news item" posted at the top of the RFP page. The additional info provides a few general ideas for unsolicited proposals. The twelve areas outlined on that page were provided by Harold Hay as major themes in his life's work, all of which need further attention and most of which are good topics for SBSE members' research. ▮

□Margot McDonald

□continued next page

Your Carbon Debt

The American Forests has a very interesting web site that estimates the amount of carbon dioxide your home and car produce and calculates the number of trees you need to plant to offset that debt. Apparently my home produces more carbon dioxide than my car (and I live in a moderate climate with no air conditioning)! It takes three trees to offset each ton of carbon dioxide. This means I need to plant 18 trees to account for my house and 15 for my car. But I am left with a few questions:

1. Why do trash and recycled items both produce the same carbon emission?
2. Why is a car air conditioner charged for carbon emissions in addition to the gasoline that powers it?
3. How is the amount of carbon a tree consumes calculated; if I plant X trees this year, will they really offset my carbon debt, and if so how much will they offset when they are one year older? In other words how many trees do I need to plant next year?

I would like to include something similar on my web page of Energy Design Tools. Does anyone know about a publication that lays out the assumptions behind these calculations? Let me know <milne@ucla.edu>.

On the whole it is a very nice piece of work, an interesting start that deserves expansion <<http://www.amfor.org/climate/amforcalc.html>>. ■

□ *Murray Milne*



photo: Bruce Haglund

Why not host the ACSA 2001 Technology Conference in daylighting-friendly Cascadia?

SBSE Y2K Job Mart [continued]

must hold a professional degree in architecture and, preferably, a doctorate with a relevant focus or specialization in building technology in architecture, environmental science, or history of architecture.

It is recommended that the candidate have a secondary teaching focus and have graphics computer literacy. The successful candidate will be expected to conduct lecture and seminar courses in building technology, teach architectural design studios, serve as design thesis advisor, and participate in program, college, and university committees.

Temple University has an extensive commitment to computer-based architectural education and is in the process of completing a network for all design studio students. The candidate will be expected to integrate the use of information technology and methodologies and consider hands-on approaches for the courses that she or he is teaching.

A letter of application; curriculum vitae; examples of academic and professional work; and names, addresses, and telephone numbers of three references should be sent to: Chair of Faculty Search Committee; Architecture Program; Temple University; 1947 N 12th ST, RM 907 (084-53); Engineering & Architecture Building; Philadelphia, PA 19118; phone: 215-204-8813; fax 215-204-5481. Applications are due by January 15, 2000.

TEXAS A&M UNIVERSITY

The Department of Architecture is seeking candidates for a full-time, tenure-track faculty position in the area of environmental control systems. The appointment begins fall 2000, with rank and salary commensurate with qualifications. The candidates are expected to teach core classes in environmental control systems as well as courses in their area of focus and research. (Desirable areas include lighting, daylighting, and acoustics.)

Preference will be given to candidates with evidence of a distinguished record of accomplishment who exhibit potential for peer-reviewed scholarship and creative work. Applicants should hold a terminal degree in their field. Professional registration and/or a doctorate are required.

Applicants should direct inquiries and submit a curriculum vitae, three letters of reference, and a statement of design and/or teaching philosophy to Julius M. Gribou, AIA, Head; Department of Architecture; Texas A&M University; College Station, TX 77843-3137. A portfolio of candidate's work should be available if requested. Review of applications will begin January 15, 2000, and continue until the position is filled.

UCLA

The Department of Architecture and Urban Design invites applications for a tenure-track position beginning academic year 2000-2001. The department seeks candidates with expertise in environmentally-responsive technology, lighting, sustainable design of products, systems, buildings, or communities, or green building technology, with implications for architecture, urbanism, or regionalism. The successful candidate will be able to work across disciplinary boundaries as well as in the design studio context and will be expected to conduct advanced research or practice related to his or her expertise. Academic training and experience are appropriate from architecture, landscape architecture, urban design, or urban planning. The department has demonstrated a long-standing interest in environmental issues related to architecture and urban design and seeks to extend this tradition in new directions.

Architecture and urban design at UCLA is structured around three primary content areas: design, cultural studies, and technology. Candidates for this new faculty position should be able to integrate their particular expertise with other aspects of the curriculum. It is possible, but not necessary, for the candidate to share an appointment with the Institute of the Environment, a cross-disciplinary program on campus. The Institute of the Environment brings together research, teaching, and community outreach from UCLA's diverse environment-related programs, with the objective of addressing the full breadth of environmental issues facing today's society. The appointment can be made at any level, with special attention given to junior-level candidates. Candidates are requested to furnish a letter of intent with a curriculum vitae and the names, phone numbers, mail, and e-mail addresses of three references able to provide knowledgeable evaluation of the applicant's qualifications. Please do not send additional

□ *Continued next page*

SBSE Y2K Job Mart [continued]

supporting materials until they are requested. Application deadline: February 15, 2000, or until filled. Address letters of application to: Dana Cuff, Acting Chair; Department of Architecture and Urban Design; UCLA; 1317 Perloff Hall; Los Angeles, CA 90095-1467.

THE UNIVERSITY OF TENNESSEE, KNOXVILLE

The School of Architecture seeks candidates for one or more full-time, tenure-track positions in architectural technology, either at the assistant or associate professor rank, commencing fall 2000. Candidates should be qualified to teach required and elective courses at all levels of both the undergraduate and graduate programs in their primary area of expertise, either structures or environmental control systems. An additional area of specialization in computer applications, lighting, materials, and/or building construction technology is preferred. An interest and aptitude in integration of design and technology through studio instruction will be a major consideration.

Applicants should possess a graduate, post-professional degree in engineering or architecture. Special consideration will be given to candidates who demonstrate multidisciplinary interests and those possessing both engineering and architectural degrees will be given preference. A background in architectural education, including experience in teaching, is valued. Preference will be given to those candidates who possess professional registration and/or experience in distinguished practice. All applicants must have the potential and capability to pursue self-defined intellectual objectives through research, scholarship, creative work, and/or practice.

Candidates should submit a letter of interest and objectives, a curriculum vitae, photocopied select examples (non-returnable) of personal, professional, and/or academic work, and the names of three references to: Chair, Technology Faculty Search Committee; School of Architecture; The University of Tennessee; 1715 Volunteer BLVD; Knoxville, TN 37996-2400. Deliberations will start February 15, 2000, and will continue until the position is filled. ■

[All schools listed above are AA/EOE.-ed.]



photo: Bruce Haglund

The editorial incubator of the SBSE News, ed.'s office at the University of Idaho.

Events

Hot and Humid

The 12th Symposium on Improving Building Systems in Hot and Humid Climates, **May 15-17, 2000**, will be held in San Antonio, TX. For more information call 409-847-8950 or e-mail <drosen@esl.tamu.edu>.

PLEA 2000

The 17th International Conference on Passive and Low Energy Architecture, **July 2-5, 2000**, will be held in Cambridge, England. Check out the new web page for abstract/paper details <<http://www.arct.cam.ac.uk/plea2000/index.html>>.

2000 ACEEE Summer Study

Efficiency and Sustainability, **August 20-25, 2000**, will be held in Pacific Grove, CA. Check out the web page for details <<http://aceee.org>>.

Sustainable Building 2000

A joint conference of Buildings and the Environment and the Green Building Challenge, **October 22-25, 2000**, will be held in Maastricht, The Netherlands. For more information check out <<http://www.novem.nl/sb2000>>.

ANZAScA 2000 Conference

The Australia and New Zealand Architectural Science Association (ANZAScA) 34th annual conference will be held at the University of Adelaide, **December 1-3, 2000**. Abstracts are due on April 3, 2000. For further information e-mail Associate Professor Terry Williamson <twilliam@arch.adelaide.edu.au>. ■



photo: Bruce Haglund

Why not host the ACSA 2001 Technology Conference in sustainability-friendly California?



photo: Truett James

Truett James' IESNA award-winning lighting design, the kitchen remodel in the Fisk Residence, was completed within budget limitations. The connected lighting load is 1.3 watts per square foot.

PATH Funding opportunities

I am on a year-long leave at US EPA's Energy Star Homes program and represent EPA on the presidential interagency program, Partnership for Advancing Technology in Housing (PATH) with HUD as the lead agency and NAHB/RC (National Association of Home Builders/Research Center) as the lead for home builders and their allies. By 2010, PATH is to: (1) reduce the monthly cost of new housing by 20% or more; (2) improve durability and reduce maintenance costs by 50%; (3) cut the environmental impact and energy use of new housing by 50% and reduce energy use in at least 15 million existing homes by 30% or more; (4) reduce the risk of life, injury, and property destruction from natural hazards by at least 10% and (5) reduce residential construction work illness and injuries by at least 20%. Efforts that incorporate interdisciplinary educational experience and encourage student teamwork are encouraged.

PATH just announced a \$1.5-million initiative to develop technologies that will help create a new generation of housing. To accomplish this work NSF and NIST (National Institute of Standards and Technology) have issued RFPs. I hope SBSEers will respond. NSF has not had a building-specific program, as you all well know. This one, limited to housing, may only last a couple years as its champion, Vijaya K. A. Gopu, Program Director, Room 545, Engineering, Division of Civil and Mechanical Systems, 703-306-1361, <vgopu@nsf.gov>, will be returning to LSU next year. Program longevity greatly depends on the number and quality of the proposals received in response to this RFP. NIST applicants are requested to submit any technical questions to H. S. Lew; NIST; Building and Fire Research Laboratory; Structures Divisions; 100 Bureau DR, STOP 8610; Gaithersburg, MD 20899-8610; phone 301-975-6060, e-mail <hsl@nist.gov>.

You can get more details on the NSF and NIST RFPs using the PATH funding opportunities web site <<http://www.pathnet.org/funding/funding.html>>. [Erv sent much more detail from the web site. All of it intriguing.-ed.] ||

□Erv Bales



SBSE News
c/o Bruce Haglund
Department of Architecture
University of Idaho
PO Box 442451
Moscow, ID 83844-2451

Spring issue submittal deadline—March 1
