CALL FOR PARTICIPATION: RETREAT 2015 “REGIONS AND LOCALITIES”

The Mountain Retreat and Learning Center, Highlands, NC, Tuesday, June 16—Friday, June 19, 2015.

We call on faculty, practitioners, content experts, and students to share tools, case studies, and innovative studio exercises with attendees through workshop experiences at the 2015 SBSE Annual Retreat. Regions and Localities focuses on the strategies, tools, and ideas that members of SBSE are using to teach and practice appropriate building design for region and place. Systems, energy, materials, and knowhow are all subject to Regions and Localities.

We invite proposals for a presentation, workshop, activity, or discussion on any of the sub-themes below. Proposals must include innovative pedagogical content that relates to teaching (and learning) for design studio and lecture/seminar courses.

Topics for Sessions and Workshops

1. Global Perspectives on Place—Activities, programs, and research reflecting how these perspectives inform teaching and practice.
2. Materials and Embodied Energy—Activities, assignments, and exercises that enhance an understanding of local resources, materials, and manufacturing energy.
3. Regional Climate and Appropriate Technology—Projects and activities involving weather and climate analysis and strategies that address building and community impacts.
4. Strategies and Tools—Exemplar tools, methods, and design strategies that teach about the importance of place and appropriateness in building design and planning.
5. Roundtable Discussions and Working Groups—“Hot topics” which could include case studies, book and grant proposals, promotion/tenure/mentorship issues, contributions to the 2050 Imperative, and so on.
6. Workshops—share projects, games, tools, material demonstrations (1 hr each).

Your proposals must include:

o Name(s) of session organizer/presenter
o Contact information (institution, e-mail, telephone)
o Topic(s) addressed by your proposal
o Title of your presentation
o Description of presentation (250 words max.)
o Objectives, questions raised, and/or activities implemented
o Intended outcomes and deliverables
o Take away (if any) for attendees
o Indicate 30-minute activity or 60-minute workshop, demonstration, or hands-on activity

Submission Deadline: E-mail your proposal to Alison Kwok <akwok@uoregon.edu> by Mar 2, 2015, 5:00p PDT.

Notification of Acceptance: Monday, Mar 16, 2015. Accepted presenters must then register by May 1.

—Emily McGlohn and Alison Kwok

SEE HTTP://WWW.SBSE.ORG/RETREAT2015/SBSE RETREAT_2015.HTM
EMERGING CURRICULA?

I find myself, as I am sure you do periodically, once again on a curriculum planning committee. This one, more broad minded and ambitious than most, is looking at developmental sequences in all the technology areas and how they might be connected to design studios across three to four years.

The givens are that learning design requires developing the ability for complex thought about a complex discipline, that learning is a developmental process of increasing complexity, and that the 2010 Imperative from Architecture 2030 asks schools to address reducing fossil fuel use in every design studio.

The questions that I am contemplating for professional degrees in architecture are these:

1) In the domain of plus-energy/carbon-neutral design, what knowledge is beginning, intermediate, and advanced?

2) How can such a knowledge progression also be meaningfully engaged in a sequence of design studios that address multiple integrated concerns?

Let’s hear some success stories and theories as well as what didn’t work for you. Have you had success in implementing the 2010 Imperative across your curriculum? Do you start with basic principles and physics (more the engineer hat) or with architectural patterns and basic types (more the architect hat)?

[After a rash of responses from SBSEers, Mark posted the following. You can review the SBSEers’ posts at <https://lists.uidaho.edu/pipermail/sbse/2014-November/001476.html>.–ed.]

So far what I’m hearing is on the questions of what is fundamental and what is advanced energy design knowledge and how to integrate it into design sequences:

1) Expand the educational timeline/scope to include the front and back end.

2) Expand sustainability education beyond technics to consider ethics, ecology, and equity, which may limit the implementation of technics.

3) Keep researching what we don’t know about performance.

4) Engage technics in studio settings.

5) Replace reductionistic science and math courses with holistic approaches focused on applications to buildings.

6) Apply granular analysis to multiple courses so the content can be recombined and integrated appropriately.

7) Study biology and ecology for organizing principles that will work for human-nature integrated systems. Organize knowledge and learning in terms of systems within systems. Any additions to this list of possibilities would be appreciated. For example, the 3rd edition of Sun, Wind & Light suggests a hierarchy of approaches for a net-zero building, beginning with 1) “archetypes,” and moving through 2) efficient (architectural) technology, 3) passive/green design, 4) high-performance design, and 5) green power. Such a sequence suggests that the problem be solved at the simplest level, for example, “Solve loads before providing supply; reduce loads with intelligence-embodied building form before solving with efficient machines.”

Many great traditions teach with pithy aphorisms or sutra.

Can you encapsulate how students might learn with twitter-like efficacy? 🗣️

—Mark DeKay
Program Note

The Chase L. Leavitt Graduate Building Science Program at USC

This is the time of year that I ask you to go out of your way to notify your undergraduate students about the outstanding Master of Building Science (MBS) degree program at USC. We are looking to grow a little bit this year, and will admit a slightly larger class if we get quality applicants. We are blessed with great facilities and outstanding technology faculty. We seek students with enthusiasm for sustainability, energy, computing, facades, tension structures, seismic, daylighting/glare, human comfort, or other building science topics. USC is an expensive private university, but we do have a pretty good scholarship program plus teaching and research support opportunities.

Just a few years ago, the Graduate Building Science program at USC was endowed by and named for Chase L. Leavitt. The endowment has transformed the program. It helped us move into a new addition to the building, placing new student workplaces adjacent to new building science faculty offices. The PhD program was re-started in 2008 after a hiatus of more than two decades. We have added graduate certificate programs in building science and sustainability. We now have four tenure-track faculty. We created and host annual BIM and Facade Tectonics conferences, and recently the USC School of Architecture hosted the ACADIA conference. Our undergraduate building science degree program (shared with the USC School of Engineering) remains strong, with some undergraduate students choosing to stay at USC to pursue a progressive Master of Building Science degree. We teach free evening/weekend classes covering the technology content of the architecture licensing exams to alumni of all the schools in the region through the “NotLY” program (NotLY means ‘Not Licensed Yet’). The faculty have completed several recent books, and a large number of collaborative papers with each other and our students. USC is well-represented at SBSE events, and we are regular presenters at PLEA, ASAS, ISES, AIA, ACSA, and a number of other conferences. Our Master of Building Science (MBS) degree attracts students from around the world, and we enjoy a great mix of domestic and international students. Well over half of the students in the newest class are women. Our PhD program graduated two last May, and we expect to graduate two or three more this year (there are five PhD students who think they are graduating, and maybe we will get all five through by May).

It has been a great blessing to be a part of this program and watch it develop into a powerhouse. The students are devoted to their studies and research, and the faculty are outstanding colleagues. You will not find a more collegial group anywhere. The regional professional architecture and engineering firms are engaged with our program. Our students, faculty, staff, and alumni are fanatically devoted to the school (we are dangerously close to becoming a cult!!).

Please send us your students who are seeking graduate school experience. We are hoping to grow the incoming class size by a few more students, and we will need your help identifying viable candidates.

This is a marvelous place, and we are very proud of it. We have a few schemes in mind for our next adventures, and we are grateful to our colleagues in SBSE for their enthusiasm and support.

Figure 1 is from the 2013 Schiler Family Thanksgiving celebration. The Schiler family has been hosting international students for Thanksgiving for decades, and in recent years the celebration has become an enormous event. Marc and Dianne Schiler (front center in the photo) are the best hosts at their home in Pasadena. (And yes, they are wearing short-sleeves on another beautiful, 80-degree day in late November in sunny Southern California.) Prospective students should ask to see our psychrometric chart!

Please ask those interested in our program to contact me directly at <dnoble@usc.edu>.

—Douglas E. Noble

Program Note Too

University of Utah

The University of Utah School of Architecture announces strengthening of its MS in Architectural Studies. The degree which has been on the book for decades, is being revived with three tracks of study—architectural technology, historic preservation, and project delivery. The core of study is stewardship in the built environment with a focus on leadership, strategic partnering, and industry applied knowledge creation and transfer. For details see <http://www.arch.utah.edu/msas>.

—Ryan Smith

DIVA Day Seattle Review

Most of the DIVA Day participants sorta posed for this group photo.

The third DIVA Day was held at City Hall in Seattle. I was expecting a dozen hard-core geeks to show up, so I was surprised by the hoard of converts who attended and participated. It wasn’t a hands-on training session, but rather a series of inspirational stories about DIVA use and DIVA potential. I was lucky to schedule a studio field trip to Seattle to investigate wood use in sustainable buildings (Bullitt Center, Federal Center South Building, Mithun Architects, and Miller Hull Architects) to coincide with DIVA day. One of my students (great student fee!) and I attended and enjoyed the day in a fine, high performance building designed by BCJ Architects. If DIVA Day lands in city near you, take advantaged.

—Bruce Haglund
The new expanded version of ClimateConsultant has many new features, mostly the work of my colleague, Robin Liggett. Highlights include:

- Weather data in the EPW (Energy Plus Weather) file format can be downloaded from the US Department of Energy’s EnergyPlus site for thousands of locations around the world, but in the new ClimateConsultant 6.0 you also have the option of choosing data for one of the 16 California climate zones by selecting a zone from a map of California or by entering a California ZIP code.

- A new option allows you to Export selected weather data variables and associated statistics calculated by Climate Consultant to a .CSV file for viewing in EXCEL.

- Another new option allows you to create custom plots of the original EPW data and/or statistics calculated by Climate Consultant.

- You now have the option to print Climate Consultant screens directly to a printer, the clipboard, or a PNG or BMP file.

- You can now choose between a residential building or a small non-residential building and Climate Consultant will determine the best set of passive design strategies displayed on the psychrometric chart for the selected weather site. If you are designing a small non-residential building, many of the guidelines have links to the 2030 Palette <http://2030palette.org> for supporting examples (swatches) and information. If you are designing a residential building, as in prior versions, each guideline is accompanied by a sketch to help illustrate the application of the guideline.

- An automatic link has been established between HEED and ClimateConsultant 6.0 so that the Guideline List and Design Sketches and Swatches will be linked to the HEED climate data and scheme design data.

- Another feature added to the Psychrometric Chart analysis displays hours for a specific day as points in an animated hourly sequence. This feature allows you to see, in fine grain, the daily evolution of temperature and humidity overlaid on the 16 Design Strategy zones.

- To design windows for your specific climate, the Sun Shading Chart allows you to click and drag shading masks for an overhang and/or fins and to input remote objects like trees, buildings, and chimneys that shade windows or solar collectors. Every hour of the year is shown in color using actual temperature and radiation data to indicate if shading is needed, if solar gain is needed, or if it does not matter, and the number of hours in each category is calculated to indicate how accurately the window is shaded in your location and climate.

- To design solar collectors, the plot of radiation on a tilted surface is shown on the Radiation Range Chart. Tilted Surface Radiation is also a plot option on the Time Table Plot and 3D Charts. The latter can show, for example, how much tilt is needed to generated equal radiation input for each month of the year in your specific climate.

- You may now change colors assigned to range categories for plotted variables on the Time Table Plot or 3D Charts by clicking on the associated colored square in the Legend.

- The Help function has been greatly expanded to explain all the new terms and features in ClimateConsultant 6.0.

You can download ClimateConsultant 6.0 and our other free design tools at <http://www.energy-design-tools.aud.ucla.edu>.
Registration is underway for the 2014/2015 Race to Zero Student Design Competition. The deadline for registration was December 15, 2014. [We’ve asked for an extension to mid-January to accommodate academic planning cycles. If deadlines aren’t extended this year, next year they will be fully considered for fuller integration with academic schedules.—ed.]

The DOE Race to Zero Student Design Competition provides an excellent multi-discipline, experiential learning opportunity in applying building science. Students, working with industry advisors, develop project submittals typical of what would be needed for quality, high-performance buildings (that are safe, heathy, durable, comfortable, and sustainable (e.g., energy efficient or “green”).

The inaugural year of this program (formerly known as the DOE Challenge Home Student Design Competition) brought together 28 university teams to compete in designing cost-effective, zero-energy-ready homes for mainstream builders. The winning teams produced market-ready, state-of-the-art, zero-energy-ready design solutions for high-performance homes that are very energy-efficient, requiring less renewable energy to be zero-net-energy. Teams competed in a high-energy juried event at the National Renewable Energy Laboratory in Golden, CO.

The event was such a success that it is being repeated in the 2014/2015 school year, and has been recommended for an annual event with the National Renewable Energy Lab hosting the awards ceremony. Student designs from 2013/14 are now being built. Industry is hiring former competition participants, and will participate in a job fair at the 2014/15 awards event. Registration for the competition is accessible via the Race to Zero web site, along with the 2015 Student Design Competition Guide, which provides complete details on competition requirements. For more information on competition requirements and time lines, visit the Competition Requirements page or contact Heather Stafford at racetozero@ee.doe.gov or (206) 498-1308. Resources for students and faculty are listed in the Competition Guide, and are also provided through the DOE Solution Center, as well as on the website <http://www.BuildingScienceEducation/Resources>. Since building science is critical to all high performance building designs, these resources should also be useful for other university student design competitions or aspirational design studios. In addition, DOE is arranging in-person and on-line building science training for Race to Zero Student Design Competition registrants.

If you don’t get into this year’s event, it is highly recommended that you begin pulling together your multi-discipline team for 2016’s competition now. Also, please contact the Race to Zero Team to register, or express your interest in participating in the competition. You will be then be kept informed of webinars and other resources available to registered and potential teams.


Hammer & Hand is pleased to announce the launch of the perFORM 2015 Building Design Competition, a contest challenging emerging architectural professionals (students and interns) to design a net-zero energy, mixed-use building that fuses high-performance building with high design. This year’s competition jumps in scale and energy requirement, challenging architecture students and interns to design a net-zero-energy, mixed-use building in the heart of Portland.

Registration is open now, with submissions due by June 19, 2015. The perFORM jury will distribute $6,000 in cash awards to competition winners who will also see their work displayed online, in print, and as part of public displays in Portland and Seattle. Professor Peter Keyes (Oregon) is the perFORM advisor for this year’s competition.

For details visit <http://hammerandhand.com/perform/design-competition/>. —Dan Whitmore & Zack Semke

We hope to see you at the National Renewable Energy Laboratory, Golden, CO. —Eric Wayne Ellis
**CONFERENCES**

**ARCHITECTURE AND RESILIENCE**

The University of Sheffield School of Architecture is pleased to issue the call for papers for the international conference “Architecture and Resilience on a Human Scale” 10–12 Sep 2015 at The Edge, Endcliffe Village, Sheffield, UK. See the full call at <https://www.sheffield.ac.uk/polopoly_fs/1.420284!/file/Resilience2015CallforPapers.pdf>. Abstracts are due Jan 16, 2015.

—Fionn Stevenson

**PLEA 2015—(R)EVOLUTION**

The call for abstracts is now open for PLEA 2015 “Architecture in (R)evolution” which will be held in Bologna, Italy Sep 9–11, 2015.

Take part of the (R)evolution in Architecture and submit your abstract in “MyPlea2015—Restricted Area” (registration required) by 30 Jan 2015, 6:00pm (GMT+1). Visit <http://www.plea2015.it> for more information on the conference goal, list of topics, and abstract submission process.

We look forward to welcome you in Bologna! —PLEA 2015 Organizing Team

**SOLAR 2015**

We are pleased to announce that our annual conference will be held next year at the Pennsylvania State University (PSU) on July 28–30, 2015! There will be many activities to go along with our technical sessions, including a tour of the MorningStar solar decathlon site, other solar house tours, opportunities for cave tours, world-class mountain biking, and famous ice cream at the Penn State Berkey Creamery! The Penn Stater is an exceptional all inclusive conference facility. We are excited to expand our Emerging Professionals program as part of our academic affiliation with PSU. [So, the SBSE Annual Meeting will be at PSU next summer—ed.]

—Carly Rixham

**OPPORTUNITIES GALORE**

**BALL STATE UNIVERSITY**

There are four positions at Ball State University currently being advertised <http://cms.bsu.edu/about/administrativeoffices/humanresources/employopp/public/faculty/colarchitecturedesignplanning>. The one of most interest to SBSEers is in Environmental Systems. We seek an energetic and skilled person to provide depth in this area of the curriculum as well as in studio. Ball State is very invested in environmentally responsible design and operations. The entire campus, for example, is heated and cooled by a ground source heat pump system. Another position, with a focus on digital design and fabrication, may also be of interest to listserve users. And, a reminder that we also seek applicants for a non-tenure track Design Innovation Fellow. This position represents an exciting opportunity for the right person to explore an area of inquiry in a university setting, while leaving an impact on students and the program.

—Walter Grondzik

**CAL POLY, SAN LUIS OBISPO**

The College of Architecture and Environmental Design is seeking applicants for department and college-wide, tenure-track teaching positions at the rank of Assistant Professor for the academic year beginning Sep 14, 2015. For college-wide positions dedicated to advancing interdisciplinary design education, potential tenure home departments are Architecture, Landscape Architecture, Construction Management, or City + Regional Planning based on the qualifications and interests of successful candidates for the following two positions.

Environmental design representation + beginning design [one position: requisition #103452]

Sustainability + the built environment [one position: requisition #103452]

The Architecture Department has openings for two colleagues to teach design, representation, and fabrication and to collaborate in and/or coordinate team teaching.

Lower division design [two positions: requisition #103461]

Review begin date: December 22, 2014 (for all positions). Priority will be given to applications received by these dates. For more information and complete instructions on how to apply visit <http://calpolyjobs.org>. Separate applications and portfolio submissions are required for department and college positions (requisitions #103461 and #103452, respectively).

—Margot McDonald

**OXFORD BROOKES UNIVERSITY**

We are pleased to announce a new exciting full-time research post based in the OISD Low Carbon Building Group at the School of Architecture. The Research Associate in Building Performance Evaluation is part of our growing portfolio of cutting-edge research projects on Building Performance Evaluation, which aim to reduce the credibility gap between designed and actual performance by evaluating the actual energy and environmental performance of case study buildings from both technical and occupants’ perspectives. For further information about the job description and application pack, please see <https://edm.brookes.ac.uk/hr/vacancies.do;jsessionid=a2eaa643ed0c2012a6fc241b488cf5179acece5cc2450505d9e9a9e7c2d877d1e341bNmNh7QaOMaheCqaxaTaxiSe6fznA5p7ftolbGnkTy?id=16703109>. The closing date is 4 January 2015.

—Rajat Gupta

**PORTLAND STATE UNIVERSITY**

The Department of Mechanical and Materials Engineering at seeks a highly qualified candidate to fill a tenure-track position at the level of Assistant/Associate Professor with research and teaching interests in Building Science. Applicants must have a Ph.D. in a relevant science or engineering discipline. Specific areas of interest include but are not limited to indoor air quality, building-environment interactions, and advanced sensors/controls.

Applications must be submitted online at <https://jobs.hrc.pdx.edu/> (search on keywords: Mechanical Engineering). Applications must include cover letters, curriculum vita, teaching and research agendas and at least three references. Application review will begin on/after Jan 1, 2015 and continue until the position is filled. Non-U.S. residents must state their visa status.

—David Sailor
MORE OPPORTUNITIES GALORE

SHEFFIELD SCHOOL OF ARCHITECTURE

We’re seeking to appoint a Lecturer or a Senior Lecturer with a passionate commitment to sustainable architecture. The post holder will have a PhD or equivalent research experience/qualifications in a relevant engineering or architecture discipline, ideally in the field of environmental design, with a focus on low carbon design. See <http://www.jobs.ac.uk/job/AKD082/lecturer-senior-lecturer-in-environmental-design/>. Closing Date 05 Jan 2015.

—Fionn Stevenson

SUTD-MIT POSTDOCTORAL PROGRAMME

We’re seeking interested collaborators for a two-year postdoctoral position in an area related to (day)lighting and visual comfort. Ideal candidates should have experience in various lighting simulation programs and programming as well as fundamental knowledge of related areas such as photometric measurements and human subject research. Our Postdoctoral Programme offers a chance to perform research for one year at the Singapore University of Technology and Design (SUTD) and a second year at MIT, working with two advisers—Alstan Jakubiec (SUTD) and Christoph Reinhart (MIT)—in separate research labs at the two universities. Post-Doc fellows receive a full stipend with allowance for conference travel and a small teaching requirement for one semester per year. More details are available at <http://www.sutd.edu.sg/mit_sudp.pdp.aspx> or via e-mail inquiry to <Alstan at john_jakubiec@sutd.edu.sg>. Application deadlines are 1 Jan 2015 and 1 Mar 2015 for starting dates in July or September respectively.

—Alstan Jakubiec

UNIVERSITY OF CALIFORNIA BERKELEY

The Center for the Built Environment (CBE) and Singapore Berkeley Building Efficiency and Sustainability in the Tropics (SinBerBEST) are looking for one Postdoctoral Scholar and one Professional Researcher to be appointed at UC Berkeley. Download the advertisement describing the two positions at <https://drive.google.com/file/d/0Bw1fKa_Ht_-WX1ZMSWdkJWSt0M/view?pli=1>.

—Stefano Schiavon

UNIVERSITY OF CINCINNATI

The School of Architecture and Interior Design (SAID), with the Department of Civil and Architectural Engineering and Construction Management (CAECM) of the College of Engineering and Applied Science (CEAS) seeks to hire full-time, tenure-track Assistant Professors to support the research, teaching, and service efforts of SAID and CAECM. Appointments will be made jointly between SAID and CAECM, and successful applicants will be expected to support the curriculum at the graduate and undergraduate levels, conduct research, engage in scholarly activities, and participate in service activities supporting the two colleges (CEAS and DAAP). All areas of expertise in the building sciences will be considered for this position, but the need in SAID for expertise in the areas of building mechanical and electrical systems is immediate and pressing. To apply, go to <http://www.jobsatuc.com and search for posting 214UC9535>.

—Michael Zaretsky

UNIVERSITY OF MASSACHUSETTS AMHERST

The Department of Environmental Conservation seeks applications for a full-time, non-tenure-track appointment as Lecturer in Renewable Energy & Sustainability. The initial appointment will be for two years, but is renewable based on performance and program need. Candidates must have an M.S., and preferably a Ph.D., in a field closely related to renewable energy and sustainability. The earliest start date is January 18, 2015. Review of applications will begin December 1, 2014, but the position will remain open until filled. Applicants should submit curriculum vitae, statements of teaching goals, and the names, addresses and contact information of three references online to <http://umass.interviewexchange.com/jobofferdetails.jsp?JOBID=54302>. Specific questions about this search can be directed to Timothy Randhir, Chair, <randhir@eco.umass.edu>. See more at <http://eco.umass.edu/positions-in-eco/lecturer-and-program-management/#sthash.1qtca9qz.dpuf>.

—Norbert Lechner

Check out the new book on Post-Parametric Automation in Design and Construction by Alfredo Andia and Thomas Spiegelhalter <http://www.amazon.com/Post-Parametric-Automation-Designand-Construc-Spiegelhalter/dp/1608076938/ref=sr_1_5?s=books&ie=UTF8&qid=1414334835&sr=1-5>. Automation, a mixture of algorithms, robots, software, and avatars, is transforming all types of jobs and industries. This book responds to one critical question for the design and construction industry, “How are architects, engineers, and contractors using information technology to further automate their practices?” The book also documents a set of firms that are advancing automation by using pre-fabrication, modularization, and custom designs via robotics.

—Thomas Spiegelhalter

The 4th edition of Heating, Cooling, Lighting: Design Methods for Architects, 2014, John Wiley & Sons, is now available. This edition includes many updates and improvements. It also has two new chapters, one on tropical architecture and another with a lengthy checklist for designing low-energy buildings. The instructors’ manual has also been updated. It can be accessed with a password obtained from your Wiley representative.

—Norbert Lechner
LIFE IS A BEACH!

Jim Wasley visited Toronto/Waterloo in November to tour LEED education buildings and sustainable methods of waterfront water treatment. Here he is relaxing on Sugar Beach, Toronto! [Is sugar Canadian for snow?—ed.]

JOHN REYNOLDS SUSTAINABILITY SYMPOSIUM

Sunday, May 17, 2015 at the University of Oregon, Eugene OR

This special symposium will honor Professor Emeritus John Reynolds’ decades of contributions to sustainable design and energy policy. It will bring internationally renowned practitioners, researchers, and leading authorities to campus for lectures, panel discussions, networking, and sharing. This event will attract, inform, and inspire professionals, faculty members, students, alumni, and friends as they interact with individuals at the forefront of sustainable design policy, teaching, and research. Program schedule and ticket sales will be online after Feb 1, 2015 at <http://architecture.uoregon.edu>. For more information, call 541.346.3656 or e-mail archinfo@uoregon.edu.

Presenters will include Jean Carroon, FAIA, Goody Clancy; Margie Harris, Energy Trust of Oregon; Denis Hayes, Bullitt Foundation; Jason McLennan, International Living Future Institute; Ed Mazria, Architecture 2030; Mick Pearce, Architect; and John Reynolds. Panelists will include Virginia Cartwright, UOregon, Moderator; Alfredo Fernandez Gonzalez, UNLV; David P.Y. Lung, UHong Kong; and Susan Ubbelohde, Cal Berkeley.

SBSE CALENDAR

2014
Dec 16–18 PLEA 2014/Ahmedabad, India

2015
Mar 30–31 Climate Change in the Tropics Conference/Jakarta, Indonesia
Apr 6–9 ARCC Research Conference/Chicago, Illinois, United States
Apr 12–15 SimAUD Spring Simulation Conference/Washington, DC, United States
May 14–16 AIA Convention/Atlanta, Georgia, United States
Jun 14–17 International Building Physics Conference/Torino, Italia
Jun 16–19 SBSE Retreat: Regions and Localities/Highlands, North Carolina, United States
Jul 28–30 ASES Solar 2015 Conference/Penn State University, United States
Sep 9–11 PLEA2015/Bologna, Italy
Sep 10–12 Architecture and Resilience on a Human Scale/Sheffield, England

SPRING ISSUE SUBMITTAL DEADLINE—MARCH 1

SBSE NEWS
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TO: SBSE MEMBERS & FRIENDS
PLANET-WIDE

KWOck mail

Our 2 CENTS

MEEB over the years! First through eleventh editions! John didn’t write them all!