SBSE RETREAT 2015: REGIONS AND LOCALITIES

The annual SBSE retreat is something I always look forward to, even though I haven’t been able to attend very often. Yet it is on my calendar every year. I was terribly excited to realize that this year it was in my own backyard, though still a 4+ hour road trip. On June 16, I packed my car and headed for Highlands, North Carolina (via Georgia??) eager for two days to partner, share, commiserate, and get energized with nearly 50 other SBSEers from around the world.

The 2015 annual retreat was held at The Mountain Retreat and Learning Center high up in the Nantahala National Forest, atop a 4,200-foot granite cliff in the Blue Ridge Mountains. With little wireless signal and even less cell service, this was the perfect setting for making, strengthening, and revisiting SBSE relationships. It was all the energy I was hoping for, and more. SBSEers, newer and seasoned, shared expertise on the built environment, with presentations on topics such as building performance, book suggestions, travel experiences, interdisciplinary collaborations, photography, design-build, and teaching strategies.

Flexibility in the schedule allowed time for reflection at Meditation Rock, a guided hike around Chinquapin Mountain, or a quick trip into the quaint town of Highlands. Karno Chaay from Cambodia and Rupesh Shrestha from Nepal joined us as Jeff Cook Memorial Scholars, as did a number of student SBSE scholarship recipients. It was amazing—and demonstrated why I keep it on my calendar even if I can’t go. I’m eagerly looking forward to the July retreat next year, and I know you are too! 🌈

—Traci Rose Rider

SBSE ELECTION YEAR!

It’s your last chance to nominate folks for President-Elect and Secretary/Treasurer. Make your selections known to Pablo LaRoche via e-mail <pmlaroche@cpp.edu>. The deadline is Sept 29. So far there is only one nominee for each position, so throw your hat into the ring! The election will be conducted on-line during the month of October. 🌹

SBSEers pause for the traditional retreat group photo on the deck on the edge at The Mountain. Below: They also enjoyed a mountain campfire. Were stories told?

The wind makes music at the Aeolian Harp Pavilion, designed by Mark Norris, in the Royal Botanic Garden Edinburgh.
LETTERS TO THE EDITOR

Kudos go to Walter Grondzik for helping to organize and run a productive conference during a time of change in ASES. Walter did an outstanding job. He deserves our appreciation. Contact him to see how you can help and make decisions going forward.

—Marc Shiler, USC

[It’s gratifying to hear that the Passive Conference went well and was appreciated by a wide range of SBSEers. Thanks Walter!—ed.]

Thank you SBSE so much for the wonderful opportunity to participate and learn from the SBSE Retreat 2015. And congratulations for its success. I must say it was a memorable experience for me. I had the opportunity to present few things I know, and also the chance to meet wonderful people and learn new things.

I must thank you all for the kind gestures and friendliness. I have been able to make new friends and colleagues. And I will cherish these moments for a lifetime!

Coming from Nepal and then again from Germany to the U.S., I realize that however far we come, from whichever country, however different we all look, we are all bonded by a common mission. And I hope our bond gets stronger and stronger in days to come.

—Rupesh Shrestha, AEC, Nepal

[Thanks Rupesh for your participation as a Cook Scholar and for capturing the spirit of the retreat!—ed.]

SBSE RETREAT 2016 IN SAN FRANCISCO, CA

DESIGN FOR ZERO ENERGY, WATER, AND WASTE

We’ll meet at the PG&E Pacific Energy Center (PEC) in San Francisco, Monday, July 18–Thursday, July 21, 2016.

With precious and limited water resources, how actively are California’s green buildings addressing water conservation and management? What can we do to assert a greater environmental priority for water and energy use in buildings in our own regions? From best practices, new research, and advanced management systems in buildings in California, what lessons can we learn to guide our teaching of building design as a part of the solution to the current energy, water, and waste issues. What strategies are appropriate for different locations? What are the limitations in some states and how do we move forward in our stewardship of the environment?

Welcome to the 2016 SBSE Retreat, Design for Zero Energy, Water, and Waste, which will provide a forum for expanding our understanding of these issues; sharing the strategies, tools, and ideas that SBSEers are using to teach and practice building design; and rekindling our teaching with new ideas, collaborations, networks, and shared experiences.

We’ve secured a generously donated venue for this year’s retreat—the Pacific Energy Center, 851 Howard Street in downtown San Francisco. This facility is supported by the Pacific Gas and Electric utility and provides extensive educational programs, tools, and design advice on energy efficiency, HVAC systems, lighting, comfort, and environmental quality. We will maintain our traditional schedule of invited speakers/practitioners, tours, and parallel 1-hour workshops/presentation sessions and long breaks to explore PEC’s resources, facilitate new conversations, and have impromptu gatherings. We have garnered support from the AIA and PG&E and may synergize with community college educators who do workforce training in energy efficiency.

Participants are encouraged to arrange their own lodging for the 3 nights as soon as possible at places of their choice: AirBnB, the East Bay, or hotels near the airport. A limited block of rooms are being arranged at nearby hotels for convenience. The Pacific Energy Center is centrally located nearest to the BART Powell Street Station and a mile walk from CalTrain’s 4th and King Street Station. [And, just 7 blocks from the Giants’ AT&T Park!—ed.] Participants will not need to rent any cars (and parking is nil).

Meals and snacks during the retreat will be carefully prepared from regional sources. Stay tuned for a call for proposals, information on registration, etc. Please join us for participation and to learn! More info to come at More info to come at <http://www.sbse.org/retreat2016/Retreat2016Home.htm>.

Critical Dates:
- August 2015 Announcement
- September 2015 Call for Proposals
- March 1, 2016 Proposal Deadline
- March 15, 2016 Acceptance of proposals
- May 15, 2016 Registration deadline
- July 18-21, 2016 Retreat

Program Committee: Sophia Duluk, EHDD Architecture; Seth Holmes, University of Hartford; Omar Al-Hassawi, Washington State University; and Alexandra Rempel, Rensselaer Polytechnic Institute.

Site Coordinator: Alison Kwok, University of Oregon

—Alison Kwok
CONFEREE REVIEWS

SOLAR 2015: EXPANDING HORIZONS, SHAPING THE NEW ENERGY ECONOMY

This year’s annual ASES solar conference might have been smaller than usual and the exhibition hardly noticeable, yet some of the social events were held outdoors, which was not only wonderful, but appropriate, considering the contents of the conference. Instead of a large, massive, anonymous conference center, ASES partnered with The Pennsylvania State University to hold the 2015 event on campus. Thanks to the local organizers at the forefront—Jeff Brownson and the local organizing committee chair Laura Dininini—this was an excellent choice. Moreover, longtime SBSCEers Walter Grondzik and Alexandra Rempel kept the passive design conference track afloat with aplomb.

Solar 2015 resurrected the passive track with a pledge for an even closer connection between building design and solar on the expanding horizon—requesting to develop further partnerships and collaborations with the passive house institute.

Passive solar heating and cooling, daylighting, building integrated photovoltaics (BIPV), site design, building design tools, and case studies projects were prominently present in professional and academic presentations. Inspiring presentations came from the communities and policy sections, for example Solarize Connecticut <http://solarizect.com/about-solarize/> which seems like a great success and should be adopted all across the states.

Solar 2015 was also strong on student engagement with student-lead presentations on the strong showing of PennStaters at DOE’s Race to Zero competition supervised by Lisa Iulo, a long-time SBSEer.

It was also great to see Penn State’s Morning Star, its 2007 Solar Decathlon house, so well used and in such good shape. Thanks to Jeff and the whole ASES team, the Solar story continues. — Ulrike Passe

JOHN REYNOLDS SUSTAINABILITY SYMPOSIUM UPDATE

The inaugural John Reynolds Sustainability Symposium at the University of Oregon on May 17, 2015 was a remarkable and memorable event. We were honored to host such distinguished speakers, and we heard from many of the symposium’s attendees that the talks were inspiring.

Because there were so many important topics addressed, I am pleased to say that we have uploaded content onto the John Reynolds Symposium web site <http://architecture.uoregon.edu/events/sustainability-symposium>, including video recordings of all the lectures and panel discussions, as well as photos from the event. We hope that you benefit from the talks and continue to check back as we add more content.

I want to again acknowledge and thank Energy Trust of Oregon, the International Living Future Institute, BetterBricks, Eugene Water and Electric Board, The Van Evera and Janet M. Bailey Fund of the Oregon Community Foundation, Leddy Maytum Stacy Architects, Opsis Architecture, and Phyllis Naylor for their sponsorship of this symposium. It could not have happened without their support and advocacy. Additionally, I want to extend my deep gratitude to the generous supporters of the John S. Reynolds Architecture Symposium Endowment Fund at the UO Foundation. It is our plan that this symposium will be a continuing event for many years to come; this fund will provide a perpetual source of support to make that happen. — Judith Shire

ANNUAL MEETING NOTES

Board members present: Ihb Elzeyadi (presiding in place of Pablo LaRoche), Walter Grondzik, Alex Rempel. Attendees: approx. 25

I. Introductions + Mission of the SBSE

A. Ihb introduced himself, Walter, and Alex, and the organization’s mission.

II. Treasury report [in good financial standing]

A. Contents are summarized in the 2015 business report, submitted to the board.

III. Scholarships

A. Scholarship checks and certificates were presented to Majd Hijazi, Kenneth Black, Thomas Doorn, Nicole Peterson, and Sebanti Banerjee. Although two of the recipients were not in attendance at the SBSE meeting, all were present at the conference and participated fully.

IV. Call for nominations for President-Elect and Treasurer {none presented}

V. Discussion of future retreat and business meeting venues

A. Question: Should we move annual business meeting from ASES? If so, should it be moved to the retreat? In 2016, should it be held at the PLEA conference?

B. Discussion

1. Comment: Don’t hold business meetings at the retreat, because the retreat is always held in the summer when people are traveling. It would be good to hold it at PLEA next year, and in general, it would be good to combine it with a public, open conference. Alternatively, move the retreat to end of semester or beginning of fall semester. (Response: That creates conflict with people on the quarter system.)

2. Comment: It would minimize travel costs to combine the retreat with a conference; PLEA sounds like a good option. We have high hopes for the combination of ASES with Penn State; this is better than combining it with a PV conference, i.e., Intersolar. We would like ASES to include peer-reviewed papers.

3. Comment: People need peer-reviewed papers for conferences, but PLEA is expensive both to get there and for registration. Prohibitive for students. India: $1700 airfare, $800 to get there and for registration.

4. Comment: Perhaps the business meeting venue should be decided on a case-by-case basis for the next few years, until the viability of the ASES conference becomes clear.

VI. Adjourn
Martin Gold has been appointed as the program director of UF’s CityLab-Sarasota, a newly established satellite Master of Architecture program located in Sarasota. Gold will liaise with the Sarasota community, the design profession, and local partners, the Center for Architecture Sarasota. This unique partnership will present opportunities to help educate students through service learning projects within the local community, and will attempt to engage UF faculty and students with the local professionals and community stakeholders in the study, visioning, and advancement of Sarasota as a world-class architectural community.

Marc Schiler was awarded the Passive Solar Pioneer Award at Solar 2015 (44th Annual Conference of the American Solar Energy Society) Awards Banquet. “The American Solar Energy Society has established this award for passive solar pioneers. It honors those in the passive field whose pioneering work set the stage for others to follow. Honorees are men and women who developed the theories, early research efforts, new concepts, and opportunities for later researchers to develop. Their foresight, innovative thinking, and creativity opened the doors for others.”

The Passive and Low Energy Architecture Association PLEA, Cal Poly Pomona, the University of Southern California and Cal Poly San Luis Obispo invite you to attend the 2016 annual Passive Low Energy Architecture Conference in Los Angeles California, July 11–13, 2016.

Since 1982 PLEA has organized international conferences and events across the globe. PLEA annual conferences are highly ranked, attracting academia and practicing architects in equal numbers. Past conferences have taken place in United States, Europe, South America, Asia, Africa, and Australia. This is the first time since its inauguration in 1981 that the United States will host a PLEA conference. The theme of PLEA 2016 is Cities, Buildings, People: Towards Regenerative Environments, exploring the interactions between people and buildings to achieve livable, regenerative environments at multiple scales. Given that we at PLEA value both research and practice, each track will strive to combine exemplary case-studies and research papers. All papers will be considered with special consideration to papers addressing the following tracks:

**Strategies, Tools and Simulation Methods.** Advances in computing power and software development have made performance analysis tools widely available. This track will explore measurement and performance in all areas and scales including energy, transportation, and daylight.

**Passive Strategies for Resilient Cities.** The importance of passive cooling and heating techniques has long been recognized. This track will explore recent advances and their contribution to the development of resilient buildings and cities.

**Carbon Neutral Design.** Synergies and opportunities to achieve net-zero energy and carbon-neutrality in buildings, neighborhoods, districts and cities. This track will explore new directions in city planning and urban design.

**Sustainable Design Education.** It is impossible to solve today’s environmental problems without the knowledge necessary to implement appropriate design strategies at multiple scales. This track will explore design education and best practices at all levels including innovative methods, experiences, and teaching techniques.

**Regenerative Design.** This track will explore ideas and examples of processes that restore, renew or revitalize their own sources of energy and materials maximizing closed loop input-output systems. Special emphasis will be given to research that explores the connection between water, materials, and energy at multiple scales, from systems to buildings to cities.

Abstracts should be a maximum of 500 words. Authors of selected abstracts will be invited to submit a final paper that will be published in the Conference Proceedings.

Further details on the conference themes at: <http://Plea2016.org>. A template, more detailed information, instructions, and the online submission system will be available on the web site soon. SBSE will provide several scholarships to presenting students and, with financial support from the Jeff Cook foundation, will provide scholarships to presenters from less developed countries. Details will be available at <http://www.sbsc.org/awards/>.

Abstracts are due by November 8, 2015.

Additional PLEA info: <http://plea-arch.org/>

Additional info on PLEA 2016 conference: <http://plea2016.org>

Additional info on PLEA 2015 conference: <http://www.plea2015.it/>

Thank you for considering attending PLEA and I hope to see many of you there.

—Pablo La Roche
We are organising a followup conference to the Sustainable Futures Conference (SFC) held in Kampala in 2012, which will be the final conference for the EU-funded university cooperation JENGA (Joint Development of Energy-Efficient Courses for Sustainable Housing in Eastern Africa). Academics, professionals, and students from around the world, with a focus on sub-Saharan Africa, are invited to submit contributions for oral or poster presentation and to join the JENGA team for this symposium on energy-efficient and sustainable architecture and construction in the Global South.

Preliminary schedule:
- Call for Abstracts: Jul 2015
- Request for full papers: late Nov 2015

The Call for Abstracts is open on the conference web site <http://www.sfc2016.com>. The first time you access the site, you will need to create a new account in order to:
- Submit an abstract
- Register as a participant

Abstracts are requested for one or more of the following conference themes:
- Materials, construction and technology
- Resource-efficiency in building
- Participation and social aspects of design
- Architecture for regional and local context
- Enabling framework
- Approaches to architectural education

More information about the conference themes may be found at <http://www.sfc2016.com>.

—Mark Olweny

The International Conference on Sustainable Energy and Environment (ICSEE 2016) will be held on 22–24 March, 2016 in Dubai, UAE. It’s a great opportunity to share your sustainability perspectives while visiting one of the burgeoning areas on the globe.

If you are not yet familiar with this planned event, additional information can be found at <http://www.icsee2016.com>.

—Dennis Andrejko

Umi is a Rhino-based design environment for architects and urban planners interested in modeling the environmental performance of neighborhoods and cities with respect to operational and embodied energy use, walkability, and daylighting potential. Umi is being developed by the Sustainable Design Lab at MIT. Check out <http://www.urbanmodeling.net/>.

—Bruce Haglund

Remember when these great devices cost over $20,000? This affordable pocket-sized model houses both infrared and visual cameras in one, allowing greater resolution of edges in the infrared image when the two are superimposed. I just ordered my Flir C2 and hope to inspire students with vivid images that depict thermal phenomena in an easy to interpret manner!

—Norbert Lechner

I have completely rebuilt my scholarly heliodon website. Please take a look at: <http://www.heliodons.org>.

—Norbert Lechner
OCCUPATIONAL OPPORTUNITIES
JOURNAL OF ARCHITECTURAL ENGINEERING

Special Issue Call for Papers: Advances in Energy Efficient Building Systems and Operations

This special issue of the JAE will present state-of-the-art in research and case studies related to low-energy building systems or energy-efficient design and operation of buildings.

Topics of interest include, but are not limited to, energy efficiency in HVAC systems and controls, building system fault detection and diagnostics, lighting systems and controls, building envelopes, energy simulation, and occupant behavior. The Journal of Architectural Engineering is a peer-reviewed publication of the American Society of Civil Engineering.


Please submit papers online by October 31, 2015 at <http://www.editorialmanager.com/jnaeeng>. Authors should include a cover letter upon submission indicating that the paper is for a special issue while including the special issue title and guest editor name. Editor for the special issue is Ralph T. Muehleisen. —Ralph Muehleisen

ARCHITECTURAL EDUCATION AND CLIMATE CHANGE

To the faculty the nature of architectural education is exceptionally important, but now it is not only objectively important, it is critically important. To minimize the severity of climate change, buildings must be designed and built differently, and for that to happen on a large scale all architects must have the knowledge, skills, and motivation to design low-carbon buildings. The 2030 Challenge and the 2050 Imperative will be impossible to achieve if graduates of architecture schools don’t learn to help design low-energy and low-carbon buildings.

Because of the importance and urgency of teaching low-carbon design in architecture schools, the program BEE now (Built Environment Education now) was created. We’ve launched our web site <http://www.beenow.org>. If you agree with us, please endorse us by filling out the endorsement form. If you would like to get more involved, please e-mail me at <lechnnm@auburn.edu>. —Norbert Lechner

EAAE/ARCC INTERNATIONAL CONFERENCE
ARCHITECTURAL RESEARCH ADDRESSING SOCIETAL CHALLENGES

The 10th EAAE/ARCC International Conference will be held in Lisbon, Portugal from 15–18 June 2016. FAUL (Faculty of Architecture of the University of Lisbon) will host and organize the conference.

EAAE/ARCC Lisbon2016, having the theme “Architectural Research Addressing Societal Challenges,” aims to attract architects, professors, researchers, and students from all over the world. FAUL has many strong links with the international architectural education and research communities, which will certainly add value and will be reinforced by the invited keynote speakers. The conference discussions will focus on research experiences in the field of architecture and architectural education, providing a critical forum for the dissemination and engagement of current ideas from around the world. The official conference language is English.


ARCHITECTURE LIGHTING DESIGN WORKSHOPS

Highlights from the successful single-day program, “Architectural Lighting Design Workshops,” conceived and presented by Professor Cindy Limauro, is now a video posted on the site of The Nuckolls Fund for Lighting Education, at <http://www.nuckollsfund.org>. Professor Limauro, who teaches at Carnegie Mellon University’s School of Architecture and School of Drama, was awarded grants from The Nuckolls Fund to create the workshop format and present it at cooperating architecture schools around the country.

In the past two years, she has visited six universities with an enthusiastic response from students and faculty. Professor Limauro’s objectives include an introduction of basic lighting design concepts to upper class and graduate architecture students and to faculty. Her workshop combines illustrated lectures with hands-on lab demonstrations using light labs where students work with fixtures and lamps to create illuminated settings. 🌍

—Vilma Barr

SCOTTISH PLEA 2017

ADAPT AND THRIVE: THE PLEA SUMMIT ON CLIMATE CHANGE

The dates aren’t set yet, but we are going to make this the “Enlightenment” PLEA. If SBSE would like to combine it with the retreat, I can help you set up a great work shop at Findhorn, where so much interesting stuff is going in the lovely highlands, see <http://www.findhorn.org/>.

For PLEA 2017, it would be great if a SBSE person could co-chair each of the fora. It is going to be stunning with all enlightenment venues (late 18th century) and great parties and tours featuring the new Victoria & Albert Museum in Dundee <http://www.vandadundee.org>, which should be near complete as will the re-furb of Mackintosh’s Glasgow School of Art. 🌍

—Sue Roaf
THE AIA COTE TOP TEN

The American Institute of Architects Committee on the Environment (AIA COTE), in partnership with the Association of Collegiate Schools of Architecture (ACSA), is pleased to announce the second annual AIA COTE Top Ten for Students. The program challenges students, working individually or in teams, to submit projects that use a thoroughly integrated approach to architecture, natural systems, and technology to provide architectural solutions that protect and enhance the environment. The competition will recognize ten exceptional studio projects that seamlessly integrate innovative, regenerative strategies within their broader design concepts. For full details see <http://www.acsa-arch.org/programs-events/competitions/2015-2016-cote-top-ten-for-students>.

Schedule

Dec. 9, 2015 Registration Deadline (free) + Submission Site Opens
Jan. 20, 2016 Submission Deadline
April 22, 2016 Winners Announced on Earth Day
May 19-21, 2016 Exhibition at the AIA Convention in Philadelphia, PA

More information and resources online at <http://network.aia.org/committeeontheenvironment/home/>.

RACE TO ZERO

The Energy Department encourages students from all collegiate institutions to be a part of a new leadership movement to achieve truly sustainable homes.

Continuing to build on the momentum from previous years, the 2016 U.S. Department of Energy Race to Zero Student Design Competition will be held April 16–17, 2016, at the National Renewable Energy Laboratory in Golden, Colorado.

Registration is open, and the comprehensive 2016 competition guide is available. A new enhancement to the competition is a design contest in four categories:

• Suburban Single-Family Detached House
• Urban Single-Family Detached House
• Attached Housing (two- to six-unit duplex or townhouse style)
• Small Multifamily (three or fewer stories above-grade).

Up to 10 teams will be selected to compete in each category.

Be a part of this movement and register your team for the 2016 Race to Zero Student Design Competition today!

Full info at <http://energy.gov/eere/buildings/us-department-energy-race-zero-student-design-competition>. Questions can be sent to <racetozoero@ee.doe.gov>.

STUDENT PODCAR CITY CHARETTE

The Charette will be held at the annual Podcar City Conference on Wed, Nov 4, 2015 in Mountain View, CA.

The Student Design Charette will let students showcase their skills and expertise in architecture, engineering, urban planning, business, and technology. See <http://www.podcarcity.org/siliconvalley>.

The student cost to attend the conference is $15. Winning teams will be publicly awarded certificates on the last day of the conference, Friday, Nov 6.

For more information, contact: Charette leader Shannon McDonald <smcdonald@siu.edu>.

—Ron Swenson

TIMBER IN THE CITY: URBAN HABITAT COMPETITION

The Association of Collegiate Schools of Architecture (ACSA) is pleased to announce the second Timber in the City Competition for the 2015-2016 academic year. The competition is a partnership between the Binational Softwood Lumber Council (BSLC), the Association of Collegiate Schools of Architecture (ACSA) and the School of Constructed Environments at Parsons The New School for Design (SCE). The purpose of the Competition is to engage students to imagine the repurposing of our existing cities with sustainable buildings from renewable resources, offering expedient affordable construction, innovating with new and old wooden materials, and designing healthy living and working environments.

Schedule

March 30, 2016 Registration Deadline
May 25, 2016 Submission Deadline
July 2016 Winners Announced

FINAL WORD, IT’S A BOOK!

Adaptive Thermal Comfort by Michael Humphries, Fergus Nicol, and Sue Roaf

There has been widespread dissatisfaction with accepted models for predicting the conditions that people will find thermally comfortable in buildings. These models require knowledge about clothing and activity, but can give little guidance on how to quantify them in any future situation, which has forced designers to make assumptions about people’s future behavior based on very little information and, as a result, encouraged static design indoor temperatures.

This book is the second in a three volume set covering all aspects of adaptive thermal comfort. Its first part narrates the development of the adaptive approach to thermal comfort from its early beginnings in the 1960s. It discusses recent work in the field and suggests ways in which it can be developed and modelled. Such models can be used to set dynamic, interactive standards for thermal comfort which will help overcome the problems inherited from the past. The second part of the volume engages with the practical and theoretical problems encountered in field studies and in their statistical analysis, providing guidance towards their resolution, so that valid conclusions may be drawn from such studies. [The third volume, which Roaf edits, How to Design a Comfortable Building will be out late 2016.—ed.]

Available at <https://www.routledge.com/products/9780415691611?utm_source=adestra&utm_medium=email&utm_campaign=SBU3_mbs_2pr_1em_6con_nba15_x_78928>.

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SBSE CALENDAR

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<th>Event</th>
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<tr>
<td>2015</td>
<td>Oct 18–21</td>
<td>Behavior, Energy, &amp; Climate Change Conf</td>
<td>Sacramento, CA, United States</td>
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<td>Oct 23</td>
<td>DIVA Day</td>
<td>London, England</td>
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<td>Nov 8–12</td>
<td>ISES Solar World Congress 2015</td>
<td>Daegu, Korea</td>
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<td>2016</td>
<td>Mar 2–3</td>
<td>Residential Bldg Design and Construction Conf</td>
<td>State College, PA, United States</td>
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<td></td>
<td>Mar 22–24</td>
<td>Sustainable Energy and Environment Conf</td>
<td>Dubai, UAE</td>
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<td>Jun 16–19</td>
<td>EAAE/ARCC 2016</td>
<td>Lisbon, Portugal</td>
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<td>Jul 11–13</td>
<td>PLEA2016</td>
<td>Los Angeles, CA, United States</td>
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<td>Jul 18–21</td>
<td>SBSE Retreat</td>
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<td>Aug 30–Sep 2</td>
<td>Sustainable Futures Conf</td>
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<td>Sep 19–20</td>
<td>SBE16 Toronto</td>
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FALL ISSUE SUBMITTAL DEADLINE—SEPTEMBER 1

SBSE NEWS
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TO: SBSE MEMBERS & FRIENDS
PLANET-WIDE