The INNOVATION 2030/COTE Top Ten for Students design competition winning projects have been announced! The top ten projects embraced this year’s challenge of carbon-neutral design while also addressing climate change adaptability and resilience in the built environment.

Over 1,000 students and faculty, representing 56 schools of architecture, participated in this year’s design and ideas competition. Two SBSEers were among the sponsoring faculty.

**Prescriptive Hydrologies**

**Student:** Brie Jones, Cal Poly Pomona

**Faculty Sponsor:** Pablo La Roche

**Juror comments:** This project stood out for its creative use of water, discovering intelligent and creative new ways of deploying water. The student’s diagrams are strong and show a commendable view at larger environmental issues. The scuba tanks are an entertaining idea on user experience which could be expanded.

**Fabricating Wellness**

**Students:** Amy Santimauro, Katelynn Smith, and Joel Bohlmeyer, University of Oregon

**Faculty Sponsor:** Brook Muller

**Juror comments:** The jurors were impressed with this winning project which included a production cycle within the building. Water grows the bamboo, which is then used as the primary building material. The student’s emphasis on renewable energy sources, natural ventilation, and sustainable materials is a clever process and program. It shows a good urban prototype by focusing on mixed-use design.

These award-winning projects will be displayed and presented during a panel discussion at A’18—the 2018 American Institute of Architects Conference on Architecture taking place Friday, June 21, 9:45 am at the Jacob K. Javits Convention Center in New York City. Additionally, a roundtable discussion about INNOVATION 2030 and design education, featuring the winning faculty members, will be hosted at the Design Futures Council 2018 Leadership Forum on Education and Talent, on June 20 in New York City.

—Architecture 2030

Electric vehicle recharge line-up, Paris.
LETTERS TO THE EDITOR

One of our SBSE members isn’t getting the email about newsletters. I assume there is some master email list you use for this. Can you see if you can add Sam to that list?

—Tom Collins, Ball State

Notification is sent via the list server! Follow the instructions on the SBSE web site to join.—ed.

I got the “Thank you for registering an account at the Society of Building Science Educators website” message. I already have an account. I was trying to renew and found the right link and did so. Are there two web portals?

—Drake Wauters

Yes, there are actually 3. See Three Passwords on page 3. Everyone should have an SBSE web account, a membership, and a list server account, all with different hosts.—ed.

I am unable to locate any sort of link to renewing my membership.

—Stephen Brown, SB Architects

If you log-in to the SBSE wildapricot site, you should find the way to renew. You can also click on your profile link at the upper left to see your membership renewal date. I couldn’t find a link either, but found that my renewal date is in 2020.—ed.

Me too! 

—Jim Grady

See above!—ed.

Gentle readers do my Nov 2017 photos show that Paris is green?—ed.

ARCHITECTURE STUDIO EXPERIMENT

STARTING FROM SCHEMATIC DESIGN

Okay, all architecture studios are experimental. But this experiment attacked the long-standing problem of attaining the depth of investigation and execution required for sustainable design. I’ve found that students suffer “paralysis by analysis” as they struggle with schematic design, as over half of the semester expires. So, why not start with schematic design?

THE PROJECT: SOUTHMERE VILLAGE LIBRARY, THAMESMEAD

While planning the spring 2018 studio the five-entry shortlist for the Southmere Village Library Design Competition was announced. The designs were presented as three images, two exterior, one interior and were obviously simply schematic design. Perfect! The competition web site contained a wealth of information—site, program, photographs, client intent, and more.

The teams were formed randomly by drawing image cards of the four projects pictured above from a hat [I had one handy!—ed.]. Consequentially, none of the students was invested in their assigned schematic design, so they could view it critically. Their assignment was to act as architect of record and develop the project beyond schematics while honoring the design architects’ intentions and formal language as well as meeting performance goals. The project was a mystery, what is intended, what is it made of, how do you build it, can you make it perform well. Student curiosity was aroused.

The studio had a rhythm of focused Friday critiques—schematic design, structure, enclosure, site & water, performance, penultimate, and final—every two weeks. The week after the crits students focused on responding to guest critics’ comments and beginning to prepare for the next critique. They were able to use analysis tools such as Climate Consultant, Sefaira, Opaque, AGi-32, and various structural, water, and HVAC sizing calculations to tweak their designs. The pace of the studio seemed relaxed without the normal anxiety level, yet productivity was extremely high. Students were encouraged to think holistically, considering how decisions in one realm affect other realms, e.g. will the design of the green roof affect structure and water catchment schemes? The penultimate and final critiques gave the students time to develop an integrated presentation and then improve upon it. In the end the work was extremely good and thorough. You can check it out on the studio web site <http://www.webpages.uidaho.edu/arch454-554/Arch454.htm> along with the complete syllabus.

The students loved the studio! They learned how much design work goes into projects after schematics—a place they hadn’t been before—and how useful judicious application of analytics is to the design process. They found that the schematics weren’t equally well-considered and that all of them could be improved and made more viable with added design effort, while keeping design intent intact. And, since the project was located in London, they needed to use the metric system (a plus for my international students) and translate the British design language. Overall, it proved to be among the very best studios in my 30-odd year career.

—Bruce Haglund

SBSE News is published quarterly by the Society of Building Science Educators, a not-for-profit corporation. Submit material for publication before the first of March, June, September, or December to Bruce Haglund, Editor; Architecture Program; University of Idaho; 875 Perimeter Drive MS 2451; Moscow, ID 83844–2451; tel 208.885.6781; e-mail <bghaglund@uidaho.edu>. Direct membership and mailing list inquiries to Tom Collins, Treasurer; Ball State University, 2000 W University Ave, Muncie, IN 47306; e-mail <tcdollins@bsu.edu>. To join our list server or to manage your account go to <http://www.lists.uidaho.edu/mailman/listinfo/sbse>. For full membership info and more, visit our home page <http://www.sbse.org>.
SBSE RETREAT 2018—ARE YOU GAME?

Retreat registration is finalized. We have 25 eager participants who are preparing for a wonderful retreat at Rathbun Lake in Iowa and are looking forward to visit award-winning architecture in Des Moines.

The retreat web site has been updated to include vital information on the Venue (how to get there) and Additional Information (what to bring, notably omiyage) as well as a full listing of Participants. See <http://www.sbse.org/retreats/sbse-retreat-2018>. Omiyage is a gift or souvenir for friends. Please bring a teaching gift for each of the participants (approximately 30 people). In past years, omiyage has included memorable teaching gifts such as bandana for acoustical walks, pocket balometer, pocket pyranometer, magnetic concrete, watercolors, a hand-bound book, bubbles for airflow, images from textbooks, PV hats, syllabi, publications, truffles(!), and many more creative and crafted teaching/learning gifts.

Ulrike says, “We might not have enough time for chess, but with Memorial Day temperatures already in the upper 90s, we will need to bring swim suits ...”

—Ulrike Passe

SOCIETY NEWS

RETREAT CAR POOLING URL

Coming by car? Please check, to see if you can take a slight detour and pick up other participants as they arrive at the airport, to minimize vehicle travel to the Resort. If you plan to rent a car, offer your spare seats to other participants <http://www.groupcarpool.com/t/2h5u37>.

—Ulrike Passe

SCHOLARSHIP UPDATE

We have received 52 applicants for the PLEA scholarships! Selections for those and NAPHC are underway. We are still accepting applications for the ASES scholarships and for the first time will offer an open scholarship for students to a building science-related conference of their choice. More information to come—watch for the upcoming announcement via the SBSE listserv.

—Jonathan Bean

SOCIAL MEDIA COORDINATOR

SBSEers, we need a hero to coordinate our mostly non-existent social media presence. If you’re interested, let me know at <bhaglund@uidaho.edu>.

—Bruce Haglund

THREE PASSWORDS!

Many SBSEers are confused—see Letters to the Editor. The <http://www.sbse.org> site is independent from our membership portal (where we collect our fees), which is hosted by wildapricot.org—these accounts are not linked. Moreover, our listserv is hosted by uidaho.edu. All three hosts require passwords to manage your account and you must join each one separately. For example, just paying your dues at our Wild Apricot site doesn’t automatically give you access to our main web site or enroll you to our listserv. You need to keep track of all three passwords or, heaven forbid, use the same p-word for all three hosts. It’s sort of a separation of powers scheme.

—Bruce Haglund

AIA UPJOHN AWARDS

AIA GRANTS $100,000 TO FOUR UPJOHN RESEARCH INITIATIVE PROJECTS

In its 11th year, the grant program provides funding for applied research, the Upjohn Research Initiative provides up to six research grants of $15,000 to $30,000 each year for projects to be completed within an 18-month period.

In April the AIA announced the recipients of its Upjohn Research Initiative funding for research projects that “will advance the future of architectural design and practice,” according to the Institute’s press release <https://www.aia.org/press-releases/188011-aia-grants-100000-to-four-upjohn-research-i>. This year’s four winners cover a range of topics focused on technology and innovation: a study on the impact of biophilic learning environments on stress levels and academic performance; a microalgae façade prototype; an engineered living-wall panel prototype for ecological resilience; and the development of 3D concrete printing technologies to produce prefabricated concrete panels. Among the awardees was SBSEer Kyoung-Hee Kim.

BIOPHILIC ARCHITECTURE BY KYOUNG-HEE KIM

Project: Biophilic Architecture: Sustainable Materialization of Microalgae Facades

Principal Investigator: Kyoung-Hee Kim, Associate Professor of Architecture, University of North Carolina at Charlotte

Description from the AIA: The project will prototype and study a microalgae façade, which is a sustainable building system based on the synthesis of biophilic, bioclimatic, and biomimicry design approaches. Results will provide alternative sustainable building materials and broaden the knowledge base for integrated microalgae façades toward carbon-neutral building practices.

—Katharine Keane, Bruce Haglund

AIA UPJOHN AWARDS

SOCIETY NEWS

—Ulrike Passe

—Jonathan Bean

—Bruce Haglund

—Bruce Haglund

—Bruce Haglund

Green wall maintenance, Musée du Quai Branly, Paris
**Walter Grondzik** is the ASES 2018 Passive Pioneer Awardee! Solar 2018 is at the University of Colorado Boulder, August 5–8, 2018. The Awards dinner is on August 6. Despite the loss of a passive track, you might want to attend.

**Amir Nezamdoost** has been selected as a recipient of an ASHRAE Graduate Student Grant-In-Aid for the 2018–19 academic year and the 2018 IALD Education Trust scholarship. Moreover, he recently was selected as a committee member of USGBC LEED Indoor Environment Quality Technical Group (IEQ-TAG) and would be more than happy to echo the feedback of SBSE experts about the limits of LEED IEQ credits to the committee.

**John Reynolds** has finally retired from his 17-year service on the Board of the Energy Trust of Oregon, based in Portland. As Chair of its Nominating Committee, he led the search for his replacement. The winner is Dr. Ernesto Fonseca, who is CEO of Hacienda Community Development Corporation, in Portland. To John’s delight, Ernesto did his Masters and PhD work under the guidance of **Harvey Bryan** at Arizona State University. Introducing his replacement to the Board at its meeting in May, John said, “You’re getting someone half my age with twice my education.”

**Ryan Smith** is excited to join Washington State University this summer as Director and Professor in the School of Design and Construction.

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**CONFERENCE PREVIEW**

**ASES SOLAR 2018**

SOLAR 2018, the 47th annual ASES National Solar Conference and Summit, is set for Boulder, CO, August 5–8, and promises a full agenda of fast-paced presentations and dialog among participants from every corner of the solar field, nearly every state and a few other countries, too. The planning group for this year’s conference decided to keep the visitor-friendly size (between 300 and 400 attendees) and many popular features from last year’s successful event, but to move it up the Front Range, from Denver to the University of Colorado Boulder, and to raise the expected impact, too, as we explore some of the biggest challenges confronting a swift, clean renewable energy transformation.

Under the theme, Pathways to Renewable Energy Transformation, this conference will take a close look at what it takes to succeed at:

- Broadening access to renewables, to give everyone a choice and a voice
- Orchestrating new energy systems, including renewable-based electrification in every sector
- Promoting solar for climate resilience, preparedness and recovery

**Resilience and Regeneration**

The third track at SOLAR 2018 addresses the difficulties of life in the “new normal,” of climate-induced emergencies and other present dangers. The day-long exploration of Solar for Resilience, Preparedness, and Recovery (RPR) invites participants to consider the risks and remedies for year-round storms, floods and droughts, extreme temperature conditions and other, non-climate risks. U.S. weather disasters alone cost more than $300 billion in 2017, according to the National Oceanic and Atmospheric Administration (NOAA), and that does not begin to reflect the disruption and heartache in places like Houston, TX; Santa Rosa, CA; Minneapolis, MN, and San Juan, Puerto Rico.

Keynote speaker for this track, David Fahey, Director of the Chemical Sciences Division in NOAA’s Earth System Research Lab, will lay out the bad news from the National Climate Assessment, but he will also talk about how rising climate risks frame the future role for solar energy.

Victor Olgyay, an architect and director of the buildings practice at RMI, along with Thomas Doerr, architect and author of *Passive Solar Simplified*, will remind conference participants that community resilience begins with good design. Alison Mason, an ASES Fellow and CEO of SunJuice Solar, will speak to work underway to apply solar and micro-grid design to serve storm-ravaged communities in Puerto Rico, and Robi Robichaud, an NREL Research Scientist will apply “island solutions” to sustainable community design on any scale. Conference participants also will be encouraged to check out an array of products, from solar chargers for computers and phones to solar lamps, radios and kitchen appliances that are the focus of the ASES “Tiny Watts” campaign. These devices are fairly affordable, and some should be in every household’s disaster recovery kit.

ASES will also introduce a special guest speaker, Hunter Lovins, founder of Natural Capitalism Solutions, co-founder of Rocky Mountain Institute, and distinguished author and presenter. Hunter will draw the frame larger, and inspire hope for sustainable communities, nurtured by an emerging regenerative economy. This theme, developed in *A Finer Future*, which Hunter recently co-authored, is a call to action for people from all corners society and especially from the solar community.

Full conference info at [https://www.ases.org/conference/](https://www.ases.org/conference/).
**NET POSITIVE SYMPOSIUM FOR HIGHER EDUCATION**

Please join the International Living Future Institute and the Association for the Advancement of Sustainability in Higher Education at Hampshire College on June 25–26 for the Net Positive Symposium for Higher Education. This symposium will focus on inspiring, educating, and igniting action that creates a living future within higher education institutions.

Campuses in Western Massachusetts—Hampshire College, Smith College, and Williams College—are on the forefront of transformation, adopting the Living Building Challenge and the Living Community Challenge. The Net Positive Symposium for Higher Education will highlight these campuses and their holistic, multi-generational approach to sustainability, resiliency, health, innovation, and equity.

This symposium is for campus planners, sustainability directors, faculty/educators, administrators, operations staff, policy professionals, and design and construction professionals. Learn more and register at <http://bit.ly/2oXzPwx>.

We hope many SBSEers in the northeast (and those farther away) will participate in the symposium. Please feel free to spread the word to fellow educators, campus staff, and administrators.

Hope to see you there!

—Alicia Daniels Uhlig

**GRADUATE SYMPOSIUM: BUILDINGS, CITIES AND, PERFORMANCE**

Please let your graduate students know about the IIT Architecture PhD program’s annual Graduate Student symposium Nov 16-18, 2018 in Chicago. The theme of the 2018 symposium is “Building, Cities, and Performance” with a focus on urban energy modeling, full info at <http://arch.iit.edu/life/Buildings-Cities-Perf>. The registration is free-of-charge for students with accepted papers. This can be a great opportunity for students who would like to combine trips and attend the (separate) GreenBuild 2018.

—Rahman Azari

**NET ZERO 18—LOS ANGELES, SEP 12–14, 2018**

We are thrilled to announce our continued collaboration with the International Brotherhood of Electrical Workers (IBEW) and the National Electrical Contractors’ Association (NECA) to host the Net Zero 2018 Conference at their Net Zero Plus Facility in Commerce, CA (just South of Los Angeles). The facility is a net positive living laboratory that features a microgrid, electric vehicle charging stations, energy dashboards, battery storage, and a large solar array.


—Net Zero 18

**NETWORKING OPPORTUNITIES**

**PACIFIC ENERGY CENTER**

If you know of a gadget-prone person who is into energy-efficiency and community outreach, we have an opening for a Senior Tool Library Specialist, San Francisco, CA <https://www.linkedin.com/jobs/view/688138119>.

—Robert Marcial

**UNIVERSITY OF UTAH**

Utah is in search for a visiting instructor/professor for the 2018-2019 academic year to pick up 2–3 classes including the core Materials and Construction class (50 students undergrad/grad students), an Advanced Technology class (graduate) and possibly another elective or introduction to technology class for first and second year design foundation students. The school is coming off of a year long curriculum revisioning process that has completely overhauled the content. The visitor will be instrumental in informing the technology sequence (building ecology, materials, construction, structures, environmental systems, and design integration) and working with the technology faculty (Patrick Tripeny, Joerg Ruegemer, and Robert Young).

This is an excellent opportunity for a mid-career or senior faculty member who is looking for a stellar place to spend a sabbatical year, or for a beginning post-doc/recent PhD graduate looking to get into an academic career. If you know of someone, please pass this on. If you are interested yourself, please contact School of Architecture Chair, Mira Locher at locher@arch.utah.edu.

Salt Lake City is a beautiful city in an incredible landscape. It is affordable, full of recreation, and has excellent restaurants. More about the area: <https://www.visitsaltlake.com/>.

—Ryan E. Smith

**NETWORKING OPPORTUNITIES (Cont.)**

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—Ryan E. Smith
INTERNATIONAL DAY OF LIGHT CELEBRATION

Laboratory of Architecture & Environmental Design, University of Biskra, Algeria

The international day of light was celebrated 16 May 2018 by the Laboratory of Architecture & Environmental Design (LaCoMoFa <http://lacomofa.univ-biskra.dz/>) at the University of Biskra, Algeria this year by organizing a workshop and exhibition titled “Light on light!”

Noureddine Zemmouri, Director of LaCoMoFa, opened the International Daylight event recalling ‘Nour’, the divine light that illuminates eyes and souls from inside, skillfully transcended by architecture and gently sublimated by fine arts. In this regard, Mahdjoubi R., artist-painter, related the adventure of impressionists as Monet and Seurat in the early nineteenth century, who were able to reproduce the natural light by a subtle juxtaposition of small painting keys of contrasting colors. As Rouag D. reminded us that natural light is a privileged intangible material expressing indoor and outdoor environments dynamically over time and season. When combined with electric light, it contributes to the psychological well-being of users in addition to the value of buildings’ architecture and aesthetic.

Benferhat M.L suggested a multi-criteria method to appreciate symbolic and descriptive scopes of natural and/or electric lights in sacred spaces. The method has been performed in Ben Izguen’s mosques (Ghardaïa). Otherwise, Bendekkiche S. focused on natural lighting of learning spaces using the reverse simulation approach. The model developed would help architects to integrate daylight as part their design intentions. The integrated approach of Hassan Fathy, presented by Aroua N., recalled the need to consider simultaneously local natural physical and climatic environment features (sun, wind) and sociocultural context specificities (usages, needs, aspirations). Following oral presentations, the debate focused on some key issues:

1. Light, fine arts and architecture
2. Light, comfort, ambiances and health
3. Daylighting versus artificial lighting
4. Lighting and new technologies (smart buildings, smart cities)

Finally, Zerarga’s presentation focused on bioclimatically flexible architecture, combining arts, techniques and sciences such as those implemented in many of his projects presented in the exhibition and so well described in the first volume of his book, Concepts and Projects, published in 2017.

— Noureddine Zemmouri

WETLANDS AND SUSTAINABLE CITIES WORKSHOP

Organized by Laboratoire de Conception et de Modélisation des Formes Architecturales (LA-COMOFA), Department of Architecture, University of Biskra (Algeria) in partnership with Groupe d’Histoire des Zones Humides (GHZH), Biskra, 11–14 Février 2018

The Standing Committee of the Ramsar Convention on Wetlands approved “Wetlands for a Sustainable Urban Future” as the theme for World Wetlands Day in 2018. World Wetlands Day is celebrated every year on 2 February [while the US celebrates Groundhog Day!—ed.]. This day marks the date of the adoption of the Convention on Wetlands on 2 February 1971, in the Iranian city of Ramsar on the shores of the Caspian Sea. Since 1997, the Ramsar Secretariat has provided outreach materials to help raise public awareness about the importance and value of wetlands.
Cities have grown over time in close dependence on wetlands. However, they have rivalled, if not expelled, native fauna and flora progressively and claimed exclusivity of various ecosystems services (biodiversity, climate regulation and protection against flood, water resources, fishing and hunting, recreation and cultural activities, etc).

While the Ramsar Convention urges wetlands conservation, it reports the slowness of adoption and even neglecting its recommendations. Urbanization continues threatening the hydrosystems’ dynamic and the wetlands that are an intrinsic part. Their degradation would be ineluctable as long as cities do not consider the water cycle features.

Thus the workshop “Wetlands and Sustainable Cities” aims to answer questions of why and how to integrate wetlands issues into urban planning policies and practices. Which sciences, knowledge and skills should be combined to implement concretely the Ramsar Convention strategy? Participants from Algeria, France, and Italy have been invited to share vision and experience with early career researchers from the Department of Architecture at the University of Biskra (Algeria). Full details (in French) at <http://lacomofa.univ-biskra.dz/news_article/11.aspx>.

For instance, the conservation of wetlands requires the delimitation of protected perimeters in addition to the regulation of social-economic activities developed both inside and surrounding natural corridors and areas of local fauna and flora. Therefore, land use and urban planning should rely on cross-disciplinary, community involvement and real policy support. The urban ecology approach and the water-sensitive urbanism principles may provide suitable guidance for the management and the preservation of wetlands, especially in arid to semi-arid countries like Algeria, suffering water scarcity and extreme hydrometeorological events.

— Noureddine Zemmouri

ANNUAL DAYLIGHT HOUR

The fifth annual Daylight Hour will take place June 22, 2018, from 12 noon to 1:00 p.m.

This initiative was first launched by the Building Energy Exchange in 2014 “…to raise awareness about using natural daylight in lieu of electric lighting in offices.” The event is held annually on the Friday nearest to the summer solstice. For the upcoming June 22 event, six city partners and 225 offices have already signed on. A list of the 2018 city partners and organizations is being updated on a regular basis. Participants are asked to share their office activities via social media using the hashtag #daylighthour.

Involvement in this initiative has grown substantially in just a few short years. The 2017 program engaged participants from 17 countries, 12 city partners, and more than 820 offices, representing 100 million square feet of office space that did not use electric lighting during the one hour period—an energy savings corresponding to the amount of electricity needed to power 9,400 homes for an entire day.

For more information about participation and registration in Daylight Hour 2018, visit the Daylight Hour web site <https://daylighthour.org/>.

—Elizabeth Donoff

ROAST IS A BLAST!

Is the air humid or dry?

| Much too humid |
| Too humid    |
| Humid but comfortable |
| Neither humid nor dry |
| Dry but comfortable |
| Too dry      |
| Much too dry |

Roast displays one question at a time in a smart phone-friendly manner.

This spring my seminar on building performance was fortunate to be involved in a beta test of Kieran Timberlake’s new POE software, Roast. The students were able to build customized surveys quickly and easily with prepopulated questions based on building industry standards. Each question is displayed in a smartphone-friendly format that is colorful and user friendly. You can check out Roast’s capabilities at <https://www.roastsurvey.com/>.

Roast is derived from an experiment that Kieran Timberlake conducted on their newly remodeled and naturally ventilated office in Philadelphia. [It proved to be a bit hot in summer, hence “Roast.”–ed.]

Find out more about the creation of Roast at <https://www.fastcodesign.com/90169716/building-is-a-science-this-app-lets-architects-study-it>. It’s a good read.

The really good news is that Kieran Timberlake will make the use of Roast free to educators. Contact Roderick Bates <rbates@kierantimberlake.com> to participate.

—Bruce Haglund
WHO TEACHES ECS?

Some of my MS thesis survey results.

—Nathan Lima

Distribution of Males vs. Females

- 17%
- 83%

Males  Females

Research Classification

- 14%
- 30%
- 56%

Passive Systems  Active Systems  Other

FULL AIA–2030 ON-LINE SERIES DEBUTS

The much anticipated final course of the AIA+2030 Online Series has arrived on AIAU, marking the completion of this highly-rated professional education program. Co-produced by Architecture 2030 and AIA, and sponsored by Autodesk, the ten-part AIA+2030 Online Series addresses the design strategies, tools, and processes necessary for achieving dramatic reductions in building energy use and emissions.

Architecture 2030 would like to thank all who were involved in the production and development of the AIA+2030 Online Speakers, including AIA, Autodesk, our Video Editor, and all 42 expert speakers [see <https://aiau.aia.org/instructors/instructors-0>, SBSEers involved—ed.] that gave their time and expertise.

The portal to the entire series is found at <https://aiau.aia.org/aia2030-online-series>.

—Architecture2030

SBSE CALENDAR

2018

Jul 15–18  SBSE Retreat 2018/Walnut City, IA, USA
Aug 5–8    ASES Solar 2018/Boulder, CO, USA
Sep 12–14  Net Zero 2018/Los Angeles, CA, USA
Sep 23–26  Int’l Bldg. Physics Conf 2018/Syracuse, NY, USA
Oct 25–27  PLDC 2018/SINGAPORE
Dec 4–7    SASBE 2018/Sydney, AUSTRALIA
Dec 10–12  PLEA 2018/Hong Kong, CHINA

2019

Jul 24–26  Int’l Conf Structures & Architecture/Lisbon, PORTUGAL
Oct 23–26  PLDC 2019/Rotterdam, NETHERLANDS

FALL ISSUE SUBMITTAL DEADLINE—SEPTEMBER 1

SBSE NEWS
C/O BRUCE HAGLUND
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TO:  SBSE MEMBERS & FRIENDS
     PLANET-WIDE

OUR

ALISON & WALTER* MAIL

*Alison Kwok and Walter Grondzik are the latest ASES Passive Pioneers Awardees.