2021 RETREAT UPDATE

We are happy to announce plans to host the SBSE 2021 Retreat in Detroit, MI, 2–5 Aug. The theme of NETWORKS will invite discussion that transcends the barrier of the traditional building site, while considering communities, neighborhoods, districts, villages, cities, and regions. We are hopeful that the ever-changing public health situation will allow for an in-person retreat, giving attendees access to the city and surrounding region of Detroit. The retreat committee will follow up with authors for inclusion of previously-accepted proposals.

Detroit has a long history of technical and cultural innovation—from beginning as a French farming and trade settlement to becoming an industrial powerhouse, the “arsenal of democracy.” Detroit has been a cradle of jazz, Motown, and techno music. Present-day Detroit is one of the largest African-American cities and has the largest Middle Eastern population of any city in the country. Detroit is in a process of reimagining itself, examining policies to ameliorate its circumstance as a “shrinking city,” pioneering new ways to live in a city that mixes the best of dense urban fabric with open zones of green and blue infrastructure providing opportunities for local productivity and recreation. SBSE and the University of Detroit Mercy School of Architecture invite you to visit this unique, energizing city. Hosted at the peaceful, wooded Manresa Jesuit Retreat Center north of Detroit, the retreat will include visits to the Williams Natatorium (Williams/Tsien) at Cranbrook, Frank Lloyd Wright’s Affleck House, and the Kresge Foundation Headquarters (a LEED Platinum project).

It’s not too late to participate! E-mail your proposal to Kris Nelson <nelsonkr@udmercy.edu> by 15 Apr 2021, 5:00pm Pacific Daylight Time with “SBSE Retreat Proposal” as the subject line. Proposals will be reviewed by the Conference Program Team and accepted proposal leaders will be notified by email. See <https://www.sbse.org/retreats/sbse-retreat-2021-networks> for full details.

—James Leach, Kris Nelson

SBSE ELECTION YEAR

The SBSE Board met via Zoom (see the above) recently to discuss the retreat with Kris and James, resulting in the update to the left.

The other topic that came up was the fall 2021 election. We’ve seen no one campaigning, so we’re asking you SBSEers if you’d like to run (or nominate someone) for one of the elective posts? Let Georg and me know your intentions. You may run/nominate for:

- President-Elect
- Secretary
- Treasurer

It’s time to throw in your hat! (I did it years ago and retained it as you may have noticed.)

—Bruce Haglund
MORE LOW-TECH SOLUTIONS

SITTING OUTDOORS IN THE COLD, REVISITED

In the last issue we explored pandemic-driven winter outdoor socializing and outdoor comfort through lap dogs, blankets, and fire pits. This month we broaden our view across more low-tech outdoor heating systems.

In temperate climate zones, winter outdoor dining can be comfortable with some added heat, some wind protection, and perhaps a greater degree of enclosure. As seen in several US west coast cities, the consensus systems for restaurants are propane radiant heaters, either the “giant torch” (see photo) or the “column of fire”.

Some of us realized that these may be wildly inefficient (40,000 to 50,000 Btu, like a small residential furnace), and, here in the US upper left edge, are ineffective for more than a few diners and only in quite moderate temperatures. Unlike the wood fire featured last month, these provide overhead radiation (and misses most of our bare skin) or columnar radiation (interferes with social interaction if radiating to our faces). So we decided to look at alternatives, in addition to the wood fire and the lap dog from the winter 2020 SBSE News.

Inspired by traditional Japanese dining’s kotatsu table, with a heat source contained beneath an extended table covering, we put two people at each end of a six foot folding table with cloth covering all around extending to the ground, and put a portable electric heater under the middle of the table (5,500 Btu, or roughly 10% of radiant propane heaters). Diners put their legs and laps under the cloth, and feet and legs were warmed by convection in the enclosed space under the table. The comfort was quite good, even on a very cold night, as long as diners wore warm clothes. The unexpected benefit of the metal table frame as hand warmer was also greatly appreciated.

In the third approach, inspired by the research of SBSE members, we heated people with direct conduction. As with seat warmers in a car, each metal chair had a pad on the seat and back, then a small electric therapeutic heating pad with several heat settings directly under the subjects, putting roughly 170 Btu as close to the skin as possible and using roughly 5% the energy of conduction. Our tiny sample of users was quite happy, too.

Lesson learned: In outdoor heating, there is a strong relationship between the physics of heat delivery and energy efficiency. Outdoors, conduction is clearly more efficient than convection, and convection, done right, is much more efficient than radiation. [Is this related? Another correspondent tells me that in historic buildings without insulated exterior walls great tapestries were hung on the walls to reduce the radiant loss to those chilly walls in winter. And it’s decorative low-tech.–ed.]

—Fred Tepfer

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 <bhaglund@uidaho.edu>. Direct membership and mailing list inquiries to Tom Collins, Treasurer; Ball State University, 2000 W University AV, Muncie, IN 47306; e-mail <tdcollins@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>.

LETTERS TO THE EDITOR

I found the carbon neutral checklist on the SBSE web site and thought I would send you a translated version asap.

—Gaurav Shorey, New Delhi

Thanks for another fine addition to our resources. Your previous checklist inspired others to contribute translations in Swahili!—ed.

Building tours: they’ve been a vital educational component of green building from day one. But now COVID-19 has made them unsafe. BuildingGreen has compiled a list of seven online tours and other videos that your students can view from wherever they are! This blog is publicly accessible at <https://www.buildinggreen.com/blog/seven-online-tours-and-the-viewers/>—ed.

For anyone who would like to consider full access to all of BuildingGreen’s premium content for your students, just contact Jerelyn Wilson, <jerelyn@buildinggreen.com>.

—Jerelyn Wilson, BuildingGreen

These e-tours are brilliant! And a few more, notably the Bullitt Center, have been added by viewers.—ed.

Thank you for your diligent and quality work in producing the SBSE News for many years. How long? I appreciate the opportunity to stay in touch and observe the organization in retirement. I hope you never retire. 🙏

—Jack Knaers, amterius, Kent State/Judson

Much appreciated! The first one was in 1992, do the math! I’m wondering who would like to do this for the next 30 years? I suspect I will retire sometime.—ed.
Specifically, the GBAC has recommended two main approaches and sent these to GSA:

“These procurement guidelines are a giant step forward towards that goal.”

Victor Olgyay, Co-Chair of the GBAC task group that produced these procurement guidelines.

Opportunity for the federal government to cost-effectively reduce its carbon footprint,” said Victor Olgyay, Co-Chair of the GBAC task group that produced these procurement guidelines.

To cut emissions in a stubborn sector. “Addressing embodied carbon is an enormous untapped opportunity for low embodied carbon building materials and approaches in the United States, as a means to cut emissions in a stubborn sector. “Addressing embodied carbon is an enormous untapped opportunity for the federal government to cost effectively reduce its carbon footprint,” said Victor Olgyay, Co-Chair of the GBAC task group that produced these procurement guidelines.

The GSA’s vast procurement power gives it a unique ability to influence markets. Over the last decade 253 million square feet of buildings were constructed for GSA, representing more than $11 billion in value. By shifting its procurement, GSA will accelerate the development of a market for low embodied carbon building materials and approaches in the United States, as means to cut emissions in a stubborn sector. “Addressing embodied carbon is an enormous untapped opportunity for low embodied carbon building materials and approaches through the GSA, as well as the national market.

On 28 Jan, the Green Building Advisory Committee (GBAC), an advisory body to the U.S. General Services Administration (GSA), approved a series of procurement principles to enable a shift to low embodied carbon building materials and approaches. These principles were proposed by the GBAC Embodied Energy Task Group co-chaired by RMI.

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The study found that a sizable reduction (~60%) in embodied carbon is possible in two to three years by bringing readily-available low-carbon materials into wider use. Furthermore, this work predicts that fostering a carbon-storing material supply system by investing in the development and manufacturing of nascent carbon-storing materials industries will make a carbon-positive future for individual projects possible in three to five years.

Available at no cost from <https://carbonleadershipforum.org/carbon-storing-materials/>.

—Carbon Leadership Forum

THE U.S. FEDERAL GOVERNMENT TAKES THE LEAD ON LOW EMBODIED CARBON BUILDINGS

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Specifically, the GBAC has recommended two main approaches and sent these to GSA:

- A material approach for all projects, requiring environmental product declarations for 75% of materials used (by cost or weight), and that their emissions fall in the best-performing 80% of global warming potential among functionally equivalent products.

- A whole building life cycle assessment approach for larger projects (over $3 million), requiring that buildings be designed in such a way that life-cycle carbon assessment shows that the selected design results in a 20% carbon reduction.

View the full document at <http://www.gsa.gov/gbac>.

—Victor Olgyay

—RIBA, Architecture 2030, Architects Declare
Mary Guzowski received a 2021 Nuckolls Fund Grant to expand the ecological and health-related curriculum in the Lighting Design Minor at the University of Minnesota. The integrated electric and daylighting design curriculum will expand design strategies, assessment methods, and metrics to promote the evolution from low-energy lighting design toward net-positive goals that not only reduce fossil fuel consumption and greenhouse gas emissions, but to also improve the health and well-being of humans, other species, and the planet.

Kevin Van Den Wymelenberg has received a UO COVID-19 Research Innovation Award. Kevin says, “Our Biology and the Built Environment Center team has conducted extensive research on viral transmission dynamics in buildings by conducting environmental sampling in several locations in spaces with individuals who tested as COVID+.”

**SUSTAINABILITY**


The topics will cover, but are not limited to:

- Outdoor thermal comfort within microclimates,
- Heat mitigation strategies at urban and local scales,
- The impact of heat waves on thermal comfort and energy use,
- Passive climate design strategies,
- Air pollution within canyons and microclimates,
- How urban characteristics affect indoor energy use and thermal comfort,
- Urban climate measurement and modelling,
- Green interventions and nature-based solutions,
- Urban heat islands and human health,
- Different urban forms and canyon orientations.

Papers can be submitted at any point from now until the deadline on 30 May 2021.  

—a Mohammad Taleghan

**BUILDINGS & CITIES SPECIAL ISSUES**

**EDUCATION & TRAINING: MAINSTREAMING ZERO CARBON**

Guest editors: Fionn Stevenson and Alison Kwok

We’re at a critical transition in built environment education, specifically how built environment programs, practitioners, and the AEC industry are addressing the zero carbon agenda and what more urgently needs to be done. This *Buildings & Cities* (B&C) special issue examines the options for a rapid transition within universities and training colleges to equip students with new knowledge and skills to create a zero-carbon built environment.

Solutions involve the coordination of rapid and innovative responses to a wide range of issues: educational and training pedagogies, curricular change, governance and policy leadership, and changes to the roles of teachers and certification bodies.

This special issue has an editorial and 9 peer-reviewed articles from around the globe that each call for a variety of critical and necessary actions to address the current climate emergency, such as: policy interventions for structural reform, improved validation requirements, more streamlined pedagogical practices, broader ethical considerations, interdisciplinary and collective working practices, upskilling carbon literacy and abilities by organizations and professionals across the built environment industry.

**Research**

- **Mainstreaming zero carbon: lessons for built environment education and training** [Editorial]  
  F. Stevenson & A. Kwok [https://doi.org/10.5334/bc.84]

- **The contested “privileging” of zero carbon: plausibility, persuasiveness, and professionalism**  
  S.D. Green & N. Sergeeva [https://doi.org/10.5334/bc.49]

- **A design workflow for integrating performance into architectural education**  
  Ulrike Passe [https://doi.org/10.5334/bc.48]

- **Cooperative learning in design studios: a pedagogy for net-positive performance**  
  Malini Srivastava [https://doi.org/10.5334/bc.45]

- **Mainstreaming environmental education for architects: the need for basic literacies**  
  Elizabeth J. Grant [https://doi.org/10.5334/bc.41]

- **Material recovery certification for construction workers**  
  M. Mayer [https://doi.org/10.5334/bc.58]

- **Developing a low-carbon architecture pedagogy in Bangladesh**  
  R. Afroz [https://doi.org/10.5334/bc.54]

- **A reform agenda for UK construction education and practice**  
  G. Kilip [https://doi.org/10.5334/bc.48]

- **Transforming vocational education and training for nearly zero-energy building**  
  L. Clarke, M. Sahin-Dikmen & C. Winch [https://doi.org/10.5334/bc.56]

- **Preparing “middle actors” to deliver zero-carbon building transitions**  
  K. Simpson, K.B. Janda & A. Owen [https://doi.org/10.5334/bc.53]

**Commentaries** (Read them at [https://bit.ly/3miSAGg].)

In addition to the research articles, there are 8 commentaries reflecting on the content of this special issue by Ed Mazria and Lindsay Rasmussen, Ray Cole, Kira Gould, Mark Olweny, Simone Villa and E. G. da Cunha, F. Samuel and I. Farely, E. Marco, and S. Pelsmakers and F. Stevenson.
**TEACHING NEWS**

**MARK DEKAY**

Mark is giving a five lecture series with four collaborators entitled Integral Design and Research, sponsored by Università Iuav di Venezia [http://www.iuav.it], where he is a Visiting Professor (virtually), courtesy of the coronavirus.

The lecture series link for live viewing in Microsoft Teams is: [http://www.iuav.it/DI-PARTIMEN/CHISIAMO/eventi/2021/03-marzo/integral-d/index.htm]. The series is also livestreamed on Facebook from [https://www.facebook.com/UniversitaIuavDiVenezia/] and on Iuav’s YouTube channel [https://www.youtube.com/user/universitaiuav]. The first, recorded 1 Mar can be seen on YouTube [https://www.youtube.com/watch?v=0BpCm6h4w1].

In addition to the public lecture series he is working with Susanne Bennett in a workshop series with research fellows (post-docs) and Ph.D. students from the Laboratorio PRIDE di IR.IDE, which translates as Pro Research in Integral Design Environment of the Research Infrastructure in Integral Design Environments. The idea is to engage the integral model in their various research projects.

Finally, there is a five-week seminar in April and May on the topic “The Integral Project” for Master’s students at Iuav.  

—Mark DeKay

**BUILDINGS & CITIES SPECIAL ISSUES [CONT.]**

**Videos** (Watch them at [https://bit.ly/3k9rXEl].)

To launch the special issue and promote a wider international dialogue two virtual events considered what constitutes a rapid change agenda for built environment education. This included short 5-minute presentations by 4 authors (Fionn Stevenson and Alison Kwok, Gavin Killip, Katy Janda, and Malina Srivastava) followed by respondents from industry who gave their views on how education and training needs to change: David Gloster (Director of Education, RIBA), Lynne Jack (Heriot-Watt and Past-President of CIBSE), Marsha Maytum (Leddy Maytum Stacy Architects and AIA COTE), Steph Carlisle (Carbon Leadership Forum and Univ. of Pennsylvania).

**CALL FOR PAPERS: ALTERNATIVES TO AIR-CONDITIONING**

Guest Editors: Brian Ford, Dejan Mumovic, Rajan Rawal

**Deadline for abstracts: 12 Apr 2021**

Buildings & Cities seeks abstracts (and papers in due course) for a special issue exploring alternative approaches to cooling. In particular, providing thermal comfort and ventilation in different climatic zones across the world at the scales of building, neighborhood, and city. This special issue will consider the implications of these alternatives across a range of issues: health, well-being, air quality, and heat stress; technical/design solutions; social expectations and practices; climate change; policy and regulation; supply chain and procurement; education and training.

In urbanized areas, there is an opportunity to break the current dependency on air conditioning. The design of cities, neighborhoods, and buildings can ensure ventilation and thermal comfort by climate friendly means. Retrofit opportunities for the existing building stock can make existing buildings comfortable without increasing energy demand. The design of new buildings and their environs can reduce or eliminate the need for air conditioning.

Full details: [https://www.buildingsandcities.org/media/pdf/BCCFPAltCooling.pdf].

—Richard Lorch

**BOOKS BY SBSEERS**

**VISUAL DELIGHT IN ARCHITECTURE**

Lisa Heschong’s new book, *Visual Delight in Architecture: Daylight, Vision, and View*, obviously, is intended to build on *Thermal Delight*, using the same structure and voice while expanding into a new topic area. But this book is much more substantive than her little ambassador from 40+ years ago, pulling in lots of current vision science research, plus stories and direct experience from her career.

The book is actually being released electronically this week (maybe March 16?), so it should be possible for anyone to download or preorder it from Routledge at [https://www.routledge.com/Visual-Delight-in-Architecture-Daylight-Vision-and-View/Heschong/p/book/9780367563233] or from Amazon.  

—Lisa Heschong

**EAAE–ARCC PROCEEDINGS**

We are pleased to announce that the conference proceedings are now composed and available for download from the event web site [https://www.eaae-arcc-ic.upv.es/deliverables/]. It is quite an extensive publication. Therefore it has been distributed in two volumes.  

—Ivan Cabrera i Fausto
SOLAR 2021: Empowering a Sustainable Future, the 50th Annual National Solar Conference, 3–6 Aug 2021, Boulder, CO, University of Colorado Boulder

The American Solar Energy Society (ASES) has opened the Call for Participation for their 50th Annual National Solar Conference, SOLAR 2021. This conference, “Empowering a Sustainable Future,” will highlight innovations and advancements in renewable energy technology and its equitable adoption. SOLAR 2021 promises to cover the most important and empowering content to drastically reduce carbon emissions now.

SOLAR 2021 will take place in Boulder, CO, which has become an example of sustainable practices for communities across the country. The conference will be held on the University of Colorado’s Boulder campus which has earned the STARS Gold rating for sustainability achievements in 2018 and is home to the first zero-waste collegiate athletic program, plus the first collegiate recycling program in the United States.

ASES invites you to submit a proposal for a presentation or poster. You can opt to present a ten-minute oral presentation, a five-minute switch presentation, or a poster. You can choose one or two of the six conference tracks. The submission requires a 100-word-max. bio, as well as 100–200-word abstract, and a brief pitch. ASES is interested in research and development, but not sales. Learn more and submit at <https://ases.org/conference/2>. The submission deadline was 15 Jan 2021. 

MORE AWARDS GALORE

ACSA 2020 AWARDS TOAST SBSE MEMBERS 18 FEB 2021

[I thought I was going to attend the award ceremony for the latest awardees, but, alas, it was a ceremony for the previous year’s honorees who had been cheated the spotlight due to a COVID-19 cancelation. Nonetheless, I was delighted to toast a few worthy SBSEers. Read on.—ed.]

2020 Distinguished Professor Karen Kensek, Professor of Practice in Architecture at the University of Southern California, concentrates her research and teaching on the evolving role of digital design and its applications to the building profession with special focus on the building sciences. She has been recognized for her tireless organization of symposia, editorial roles, authorship of textbooks and technical papers, dozens of grants, significant awards, and academic service.

2020 Annual Meeting Best Paper, Mary Guzowski, “A Biophilic Approach to Net-Positive Design: Studio Lessons” available at <https://arch.design.umn.edu/directory/guzowskim/documents/BiophilicNet-PositiveDesign_ACSA2020AnnualConference.pdf>. This paper discusses the curricular objectives, exercises, design tools, methods, and outcomes of a 7-week graduate studio that explored a biophilic approach to net-positive design. We may be well aware of the performance and pragmatic aspects of net-positive design, but what are its poetic, atmospheric, and health implications? While the curriculum agenda for this net-positive studio emphasizes energy performance for heating, lighting, cooling, and building operations, students are also challenged to go beyond energy and resource efficient design. Aesthetics, beauty, health, and well-being are as important to net-positive design as are reducing waste, energy consumption, and environmental impacts.


ACSA 2021 AWARDS

2021 Distinguished Professor, Alison Kwok taught science in Hawaiian secondary schools before deciding to become an architect. Earning M.Arch. and Ph.D. degrees at the University of California, Berkeley, she worked in the Bay Area and became a licensed architect before returning to her love of teaching and scientific research, focusing on building design and performance. Kwok’s teaching infuses scholarship on adaptive and mitigation strategies for climate change, thermal comfort, natural ventilation, building performance evaluation, zero net energy strategies, energy metrics, embodied carbon in cross-laminated timber, and passive house design. She believes that integration of these issues in design yields better buildings. She works collaboratively with colleagues and students across the globe via seminars, design charrettes, design studios, research seminars, and funded research. Recognizing large gaps in useful resources, she co-authored two significant references for students and practitioners: Mechanical and Electrical Equipment for Buildings and The Green Studio Handbook, both in multiple editions and recommended references for the Architectural Registration Examination.

2021 ACSA/AIAS New Faculty Teaching, Omar Al-Hassawi has been teaching at the School of Design and Construction (SDC) at WSU since 2015 and has taught a total of 20 courses between 2015 and 2020. Previously, Omar practiced architecture in the Middle East for nearly seven years. Omar’s research which focuses on advancing passive environmental control systems coupled with his professional experience allows him to teach students how to properly integrate sustainable principles into their designs while developing the imperative skills of architecture as was demonstrated
in the high-quality work from Omar’s graduate studios during the 2018 – 2019 academic year where one student team won the AIA COTE Top Ten Design Competition and one student won honorable mention in the Timber in the City Design Competition. Omar is popular among the students and was awarded the 2020 Tenure Line Teacher of the Year Award for the SDC.

2021 Collaborative Practice, Jörg Rügemer, Field of Dreams Ecocommunity (FOD), is a community outreach, teaching, and research project that links architectural faculty and students with Habitat for Humanity as a nonprofit affordable housing organization, professional practitioners, neighborhood citizens, jurisdictions and industry partners, to create learning and research opportunities through resilient, sustainable, and socially just design and construction projects. FOD development of 20 resilient, affordable houses became the prelude to a new regional design+build program at the University of Utah School of Architecture, which now serves as a partnership to regional community partners. The partnerships raise awareness of careers in the build environment and provide opportunities for students to engage in community service and creative projects as a way to promote cultural diversity and address issues of social injustice through architecture. FOD, as the inaugural project for these partnerships, allowed participation in design, development, permitting and construction, offering a comprehensive student construction component during the fall 2018 semester.

2021 AIA/ACSA Practice + Leadership, Corey Griffin transformed his graduate-level building science and technology course at Portland State University from a lecture and case study-based seminar into a practice-relevant, research-based course in collaboration with local architecture firms. This course, Arch 563 Building Science Research Topics, revolved around two primary activities: (1) architecture and engineering students conduct building science research of relevance to a project in a local architecture firm, and (2) students are embedded in project teams where they attend all interdisciplinary meetings for the course of a term to witness and document interdisciplinary collaboration. In this unique way, M.Arch. students became contributing members of a design team and building science experts on issues relevant to current practice. The course was initially funded through a grant from the National Council of Architectural Registration Board (NCARB).

Full details at <https://www.acsa-arch.org/awards-archive/2021-architectural-education-award-winners/>. — ACSA

CONFERENCES

COMFORT AT THE EXTREMES


The 2nd International Conference on Comfort At The Extremes (CATE’21) is a landmark conference dealing with thermal comfort issues in both high and low temperatures. It is a spin-off conference from the Internationally Acclaimed Windsor Conferences on Thermal Comfort. This year’s version is online and it is organized by the College of Engineering at Sultan Qaboos University, Muscat, Sultanate of Oman.

Abstract deadline: 1 Apr 2021


COVID has really heightened our belief in the need to design better for an unpredictable future, for more extreme weather, for less reliable energy systems (Texas 2021!), ever more expensive energy, and for future pandemics. This conference will bring together many of the threads we need to weave to create more resilient buildings and a more secure future in them. Please submit an abstract if you can. — Hanan Al-Khatri and Sue Roaf

PLEA 2022

The next PLEA Conference will be held in Nov 2022 in Santiago, Chile. Full details are forthcoming.

Stay tuned to <http://www.plea-arch.org/>. — Ulrike Passe

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The first and only hardy flower of spring blooms in my yard.
THE NEXT GENERATION

I’ve heard it through the grapevine that one of the side effects of COVID–19 has been the early introduction to building science among SBSEers’ off-spring. Equipped with a infrared spot pyranometer, Tom Collins’ young son enjoyed mapping the surface temperatures of his entire home! Home building science! 👨‍❤️‍👦

—Bruce Haglund

LOW TECH SOLUTIONS REDUX

I’m working with some students at University of Oregon who are getting close to launching TaskShade™, “your personal shading device”. We built a placeholder web page and are working on a Kickstarter Campaign for the product launch soon. SBSEers, check it out and share some feedback; we welcome it! We would love to hear your critical feedback as well as what you like about the product concept and its current incarnation. We think the product could help anyone complaining about glare, and specifically window glare, help keep blinds open longer, increase access to views, and therefore increase daylight’s circadian dose.

<https://taskshade.webflow.io/#section-about>.

[I love that it only comes in brilliant colors! Also, the instructional video gets a thumbs up by featuring a cuppa Joe and a best practices demo.—ed.]

—Kevin Van Den Wymelenberg

SBSE CALENDAR [COVID–19 RESTRICTIONS MAY CAUSE CANCELLATIONS]

2021

Apr 7–10  ARCC Int’l Conf 2021/Tucson, AZ, USA (virtual)
Apr 8–9   15th Int’l Conf on Climate Change/Vancouver, CANADA
May 19–22 EDRA52 Conf/Detroit, MI, USA
Jun 16–18 Amps Conf 2021/New York, NY, USA
Jun 24–26 ACSA/EAAE Teachers’ Conf/Brooklyn, NY, USA
Aug 2–5   SBSE Retreat/Bloomfield Hills, MI, USA (new date)
Aug 3–6   ASES 50th Solar Conf/Boulder CO, USA
TBD      Reynolds Symp 2021/Portland, OR, USA (new date)
Oct 24–26 CATE 2021 Conf/virtual
Oct 27–29 Built Environment Summit/London, UK
2022

Nov ??  PLEA 2022/Santiago, CHILE 🌧

SUMMER ISSUE SUBMITTAL DEADLINE—JUN 1

SBSE News
c/o Bruce Haglund
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To: SBSE Members & Friends
Planet-wide

UO brags up Alison at <https://archenvironment.uoregon.edu/alison-kwok-named-distinguished-professor>