Mary Guzowski says, “It’s really hard to teach a daylight studio online, but I did get some amazing daylight models made from potato chip boxes and scotch tape.” ARCH 3261: ART OF DAYLIGHTING: Spring 2020, Prepared by Kayla Reed, Instructor Mary Guzowski. PROJECT TWO: Exquisite Rooms: Design Interventions—The Seuss Room.

SBSE MEETS EDRA?

SBSE Retreat planners James Leach and Kristin Nelson are helping organize EDRA 52, Just Environments, in Detroit next summer (hoping that it can be in person, but we shall see.) Our chair asked us to publicize within our networks to raise awareness of the theme, format, and key dates. The theme should be of interest to SBSE folks, so we thought there would be a natural overlap. The conference will focus on how research, design, and relationships between people and environments contribute to the creation of justice. Current social, health, environmental, and justice challenges call for collaborative and transdisciplinary efforts to pursue intentional questioning of disciplinary borders and sensitive approaches to framing and solving pressing contemporary problems. Find full conference info at <https://www.edra.org/page/EDRA52>.

We haven’t set a new date for the SBSE 2021 Retreat, but perhaps the retreat could bookend with EDRA52 if there is a lot of overlap of interest? 🕰️

—Kris Nelson

VIRTUAL LIGHTING

Kayla Reed’s images (above) are from a 7-week undergraduate Bachelor of Design in Architecture (BDA) studio (vertical sophomores, juniors, and seniors who are from different design programs in our college; mostly architecture and interior design). We had no access to materials or the shop (meaning there were no stores open to buy typical materials as we were “sheltering in place”). Among the projects you’ll find the handmade models (from whatever they found at home). Fall semester our shop will be open by appointment, but we have many students who are not in Minneapolis, so again they will have to be creative.

It was pretty insane since we normally do many small iterative physical study models and a final \( \frac{1}{2} \) scale physical model (with much help from our excellent staff in the fabrication lab). 🕰️

—Mary Guzowski

HTTPS://WWW.SBSE.ORG/RETREATS/SBSE-RETREAT-2020-POSTPONED-2021
LETTERS TO THE EDITOR

Please unsubscribe my Utah address from the distribution list. I’m phasing out its use because it was hacked just before I retired.

I haven’t been a dues-paying SBSE member for the past few years, but have enjoyed the exchange of ideas that the list server has provided throughout the years.

—Bob Young, Utah, emeritus

Bob, you don’t have to be an SBSE member to enjoy the list server. You can remove your Utah e-mail from the list and reenroll with the new address to stay in the conversation. For instructions to enroll and to unsubscribe see <https://www.lists.uidaho.edu/mailman/listinfo/sbse>. Enjoy your emeritus status!—ed.

The newsletter looks fabulous! So much content?! It must have taken something on your part (and if you had a team) to put that together! Especially during the lockdown! Thanks so much for all your efforts. 🙏

—Gaurav Shorey

Thanks! Lots of folks send in stuff, but the team that edits and assembles is simply ed.’s ed. (aka Tisha) and me.—ed.

ANNUAL MEETING, WORKSHOP, & SOCIAL

[Notes from the Annual Meeting are on page 7. Minutes will be posted on the SBSE web site. —ed.]

Unprecedented times call for unprecedented social interactions. With COVID–19 shutting down all travel and social gatherings around the globe, we had to postpone our annual retreat and thus find a new “place” for our annual meeting, which has coincided with the annual retreat over the past few years.

The new format of holding virtual meetings presented an opportunity for more people to participate in events. On 7 Aug 2020, the SBSE board invited the broader SBSE family to join our annual meeting over Zoom, and also to engage in a kind of virtual mini retreat in the form of a workshop with a social hangout thereafter. Both the annual meeting and the workshop were well attended and created a sense of community, albeit not the same as when we meet in person.

At the workshop, “Faculty Teaching Exchange—Concerns, Strategies, and Tools in Times of COVID–19,” participants engaged in an open discussion about the challenges of teaching this fall. Participants discussed concerns and issues that relate to their classrooms and shared strategies and tools to make the best of this crisis. Many faculty said they would be teaching outside, even when temperatures become less inviting. Other discussion explored synchronous versus asynchronous content and how it can be integrated in virtual classroom environments. Overall, the participants concluded this virtual networking was extremely helpful, and they would like to see more such events in the future.

The evening (or day, night, morning—depending on their locale) finally concluded in the form of a Virtual Summer Social with the virtual backdrop of the Mountain Lake Lodge. Some of you may recall this location as the setting of the hit movie Dirty Dancing back in the eighties. And while most of us currently do not feel this is “the time of our lives,” we still had a good time and enjoyed each other’s virtual company. Though we had some technical glitches the virtual backgrounds in the zoom rooms created an additional sense of sharing the same place. 🌞

—Georg Reichard

This screen shot captured some of the annual meeting participants. Can you identify them by sight, or do you need to zoom in to read their names?

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Ed Allen, Building Technology Educator!

Ed Allen passed away peacefully on 7 Jul 2020, from complications of Parkinson’s disease. Beloved husband for 59 years of Mary (Mennes) Allen. Ed was born in St. Paul, MN, on 16 Sep 1938. [Happy birthday, dear friend!—ed.]

He was valedictorian of his Madison, WI, West High School Class of 1956 and began college at the University of Wisconsin in mechanical engineering. Since Wisconsin did not then have a school of architecture, he transferred to the University of Minnesota where he received his BArch with High Distinction in 1962. He received his MArch from the University of California (Berkeley) in 1964 and worked for the architectural firm of Moore/Lyndon/Turnbull/Whittaker for two years before he received a Fulbright research grant to study the trulli stone structures in southern Italy from 1966–67, during which time he wrote his first book, *Stone Shelters* (MIT Press, 1969).

Ed joined the faculty in Architecture at MIT in 1968, where he taught for 15 years before becoming a practicing architect and author of architecture textbooks while spending time teaching at the University of Washington, Yale University, Montana State University, University of California San Diego, the Boston Architectural Center, the Chinese University of Hong Kong, the Universidad Nacional de Tucuman (Argentina), and the University of Liverpool (England). He was honored to be the Pietro Belluschi Distinguished Professor in Architectural Design at the University of Oregon in 1997. He became a Fellow of the American Institute of Architects (FAIA) in 2000, and was awarded the AIA/ACSA Topaz Medallion for Excellence in Architectural Education in 2004. He was author of 10 books, many of them still used in teaching the architecture around the country and the world. *Fundamentals of Building Construction* is in its 7th Edition (2019), now with coauthor Joseph Iano.

He loved classical music and played the piano and string bass. He also wrote wonderful poems for many occasions. He designed and built his and Mary’s South Natick home, in which they lived for over 35 years, as well as a lake cottage in Washington, NH. Funeral arrangements were private, with burial at the Glenwood Cemetery in South Natick. A memorial gathering will be held in the future. Donations of remembrance can be made to the University of Oregon Foundation in support of the Technical Teaching Fund that Ed began (or by mail, made out to the University of Oregon Foundation in support of the Ed Allen Technical Teaching Fund, 1720 E. 13th AV, Suite 410, Eugene, OR 97403–2253) or made to the Michael J. Fox Foundation for Parkinson’s Research.


—Mary Allen

More of Mary Guzowski’s COVID–19-inspired daylight models, these by Lauren Finch and Kennawak Geneti.

Education Resources Committee Chair

We’re excited to report that David Fannon, an Associate Professor at Northeastern University, has been appointed as the new SBSE Education Resources Committee Chair and as such will join our team on the board of directors.

He follows in the footsteps of long-term chair Michael McGlynn, who was instrumental in facilitating the implementation of our current Education Resource Portal over the past years.

David Fannon is no stranger to the building science community, and you may have met him at a past retreat, or any building science related conference. David is a very versatile all-rounder or jack of all trades, as he has held positions at international engineering, architecture, A/E, and specialty consulting firms, where he contributed to a range of new construction, renovation, and historic restoration projects for government, higher education, and commercial clients. He currently holds a joint appointment in the School of Architecture and the Department of Civil and Environmental Engineering. David earned a BArch degree from Rensselaer Polytechnic Institute, a Master’s from University of California, and is a registered architect in the State of New York. He is a member of ASHRAE and a LEED Accredited Professional with a Building Design and Construction specialty.

As an architect and building scientist David’s work integrates research, analysis, and design to provide occupant comfort and well being in long-lasting, low-resource consuming buildings.

Please join us in thanking Michael for his many years of service and welcoming David in his new role. 🎈

—Georg Reichard
FORWARD INTO THE PAST

Richard Hayes shared these historic images as a reminder that history does repeat itself. He came across this poem written in 1869 and reprinted during the 1919 pandemic.

This is Timeless...

And people stayed at home
And loved, and knew
And rested, and did not play the game

And learned in new ways of living
And worked
And lived and died

And someone meditated, someone poured
And people began to think differently

And people healed
And in the absence of people who
Lived in ignorant ways
Dangers, misunderstandings and heartaches,
The earth also began to heal
And when the danger ended and
People found themselves
They praised for the dead
And made new choices
And dreamed of new visions
And created new ways of living
And completely healed the earth
Just as they were healed.

SBSE WELLS’ CHECKLIST UPDATE—SWAHILI!!

[It’s not déjà-vu, another translation of the Wells’ checklist has populated our web site. Is your native language unrepresented? SBSE welcomes contributions!—ed.]

Oroda ya kuangalia upya wa Ubunifu na Ujenzi

Here is the SBSE Wells’ Checklist that I translated into Swahili. As I mentioned earlier, ki-Swahili is widely spoken in Eastern and Central Africa. It was checked by my colleague in Behavioral Sciences, Deogratius Mshigeni, a native of Tanzania with perfect fluent knowledge of spoken and written ki-Swahili. I am from Kenya. Both our native countries have Swahili as their national language.

—David Ogoli

HINDI CHECKLIST UPDATE

We finally heard from the government body for schools! They’re going ahead with the framework, but they’ve asked for minor modifications, and we’re in that precarious position where we don’t know if we’ll get acknowledged for the work we’ve done! Anyway, let’s hope for the best!

The “World Lighting or Illumination Day” webinar went quite well. We had over 200 participants. I always end up thinking “I’m sick of this content on Circadian Rhythm and lighting and health and climate-based daylight modelling. Will the audience put up with this?” and then I find that the audience hasn’t heard of most of the stuff. Phew! They’ve asked us for a whole series on lighting now.

Thanks a ton for including us in your conversations in the newsletter once again. [See Gaurav’s Hindi checklist in the Summer 2020 issue.—ed.]

With best wishes from a steadily unlocking India, but with unprecedented increases in COVID cases!

—Gaurav Shorey
### WELL-BEING IN THE BUILT ENVIRONMENT

**CALL FOR PAPERS**

*ASME Journal of Engineering for Sustainable Buildings and Cities*

**Special Issue on Well-being in the Built Environment**

Americans spend approximately 90% of their time indoors, and the quality of the indoor environment directly influences their well-being. A sense of well-being in the built environment is linked to productivity, performance, and employee recruitment and retention. It also helps reduce health risks, absenteeism, and associated costs. Poorly designed or controlled indoor environments are linked to some of the nation’s greatest public health concerns, such as obesity, cardiovascular diseases, diabetes, asthma, and depression as evidenced by studies on sick building syndrome (SBS), respiratory distress, discomfort, stress, and anxiety.

Until recently, well-being in the built environment has been largely neglected by the building community despite decades-long research on improving energy efficiency. However, with the recent COVID–19 pandemic, we are witnessing an increased level of attention to research on this subject. Building design, construction, operation, and use strategies that benefit rather than harm occupants are an engineering grand challenge. The need is dire for several, often siloed disciplines—including building science and technology, public health, measurement and data science, design and architecture, human-building interaction, social science, systems design and control, and computer science—to converge towards one unified goal.

This Special Issue aims at raising awareness on the emerging topic of well-being in the built environment. It will focus on interdisciplinary research in this field and will provide a venue for research findings from a variety of disciplinary perspectives.

**Topic Areas**

- Well being centric building design and operation
- Emerging methods for measurements of well-being in buildings
- Data science and artificial intelligence for well-being in built environments
- Novel human–building interactions for well-being in built environments
- Understanding the effects—including but not limited to environmental, social, culture, and financial, of well-being in buildings
- Building energy technologies to promote well-being in buildings
- Sensing approaches and technologies to promote well-being in buildings.

**Publication Target Dates**

- Paper submission deadline: 1 Feb 2021
- Papers reviewed and revised: 1 Jul 2021
- Production: Aug–Oct 2021
- Special Issue release date: Nov 2021

**Submission Instructions**

Papers should be submitted electronically to the journal at [http://journaltool.asme.org](http://journaltool.asme.org). If you already have an account, log in as author and select “Submit Paper” at the bottom of the page. If you do not have an account, select “Submissions” and follow the steps. In either case, at the “Paper Submittal” page, select the *ASME Journal of Engineering for Sustainable Buildings and Cities*, then select the “Special Issue Well-being in the Built Environment.”

Papers received after the deadline or papers not selected for inclusion in the special issue may be accepted for publication in a regular issue.

—Simi Hoque

### MORE CALLS

**ARCHITECTURE, CLIMATE CHANGE, AND SOCIETY**

*Call for submissions deadline 14 Oct 2020*

Columbia University’s Temple Hoyne Buell Center for the Study of American Architecture and the ACSA announce the second year of a competitive call for course proposals on the theme, “Architecture, Climate Change, and Society.”

—ACSA

### SOLAR DECATHLON


USGBC is proud to partner with the U.S. Department of Energy Solar Decathlon Design Challenge, where collegiate student teams blend design excellence and smart energy production with innovation, market potential, and building efficiency. This innovative competition allows for students to experiment with emerging green building practices and technologies applying the concepts learned in the classroom to a real project.

The 2021 Design Challenge is planned for 16–18 Apr 2021, at the National Renewable Energy Laboratory in Golden, CO. The deadline to register is 20 Oct 2020.

—US DOE

### CONFERENCE ON CLIMATE CHANGE

We are pleased to share with you the Call for Papers for the Thirteenth International Conference on Climate Change: Impacts & Responses, UBC, Robson Square, Vancouver, Canada, 8–9 Apr 2021. We welcome submission of proposals to the conference at any time of the year before the final submission deadline, 8 Mar 2021.

Check out the conference home page [https://on-climate.com/2021-conference/call-for-papers](https://on-climate.com/2021-conference/call-for-papers).

—Victoria Hurth and Phillip Kalantzis–Cope
HELP WANTED

The SBSE Pilkington Sun Angle Calculator sales provide critical support each year to our scholarships and awards program. For the past 15 years, the Center for Energy Research, Education, and Service (CERES) at Ball State University has managed the Sun Angle Calculator sales for SBSE. Bob Koester, Peggy Weis, and Jeff Culp at CERES receive hundreds of orders each year, process payments, pay sales taxes, assemble, and package the devices, and ship to bookstores and individuals around the country and internationally. Their work often goes unseen, but is not forgotten by the SBSE board.

As a faculty member at Ball State and in my role as SBSE Treasurer since 2017, it’s been a pleasure to be able to coordinate the SAC sales with CERES in person when necessary. They always had everything under control and well-managed, which gave me peace of mind and certainly relieved a heavy burden from the SBSE board. Jeff and Peggy retired this summer and SBSE is now looking for others to take over the Sun Angle Calculator sales. In the meantime, we would like to express our deep appreciation to CERES for all their efforts over the years in supporting building science students and scholars.

—Tom Collins

STUFF FOR YOU

ASES SOLAR 2021

I would also like to let you know that the 50th Annual National Solar Conference will be in Boulder, CO, on the University of Colorado Boulder campus from 3–6 Aug 2021. We hope to see you there in person, but we will have an online option available (details are to be determined).

—Carly Cipolla

BUILDINGS & CITIES JOURNAL UPDATE

METRICS FOR ENERGY PERFORMANCE IN OPERATION: THE FALLACY OF SINGLE INDICATORS

This paper is now published online both in HTML and PDF versions at https://journal-buildingscities.org/articles/10.5334/bc.35/. The paper is open access; I suggest that you send people like SBSEers! the URL and ask them to download it directly. That helps our impact. Otherwise, if you circulate the PDF, we don’t know how many people are reading it. (I’ve read Bill’s B&C article online (Richard should be happy). The universal truths prevail—keep it simple, make sure it works, stay aware.—ed.)


Bill, thanks very much for all your efforts in writing and revising it. Delighted to publish it in the special issue.

—Richard Lorch

THE ARCHITECTURE OF NATURAL COOLING

A recent review of Brian Ford, Rosa Schiano-Phan, and Juan Vallejo’s natural cooling book can be found at https://www.buildingsandcities.org/insights/reviews/architecture-natural-cooling.html and might be of interest to SBSEers. The book includes some of Jeff Cook’s cool towers.

The book is clear, well-written, well-structured, and contains much good information, advice, guidance, and experience. It will appeal to practitioners—planners, architects, and engineers—and to students. The authors are well-regarded architects and academics, who designed some of the buildings they write about. Unusually, they also examine how well the systems worked in operation, what went wrong, and what was or might be done to improve their performance.

—Bill Bordass

AIA SEeks CONSULTANTS

We are looking for members to help with updates to the AIA Framework for Design Excellence toolkit as well work on a Climate Action Practice Guide. We want a wide variety of voices and perspectives to help. Please submit your name for consideration or share this call with your friends or colleagues.

The toolkit updates have two levels of volunteer engagement opportunities. We are looking for a task group of ten individuals with one person to lead the update of each principle. They will coordinate with a small team of 2–3 people for additional feedback and perspective. So additional volunteers will have a smaller commitment than the lead. The task group will reconnect to harmonize the information collected within each principle, and then discuss how it all works collectively.

The practice guide will have 2–3 meetings at the beginning to brainstorm content and give guidance to the consultant on what needs to be in the guide. These volunteers will then review drafts and give feedback throughout the fall.

If you have any questions, please reach out to melissamorancy@aia.org!

—Melissa Morancy
SBSE Annual Meeting Notes

SBSE Annual Meeting, 7 Aug 2020

[Full minutes will be posted on the SBSE web site.–ed.]

Board Members present: Jonathan Bean, Tom Collins, David Fannon, Bruce Haglund, Ulrike Passe, Troy Peters, Georg Reichard.

Announcements (Georg Reichard)

Michael McGlynn resigned as Education Chair; David Fannon now serves as new Education Chair.

Treasurer Report (Tom Collins)

Started the year with a little more than $41K. End-of-year balance: $26,946. In line with where we’ve been the last few years.

There are some decreases in membership from last year. Membership is a moving target. People renew on summer solstice. Made a little more than 6K in membership dues. We pay out some money to Wild Apricot, which does a good job of reminding SBSEers of renewal. We’ll try to track membership a little more closely.

We budgeted for more scholarships than were issued because of COVID. We sponsored an event at the John Reynolds Symposium.

Thanks to Tom and Bruce for helping SBSE deal with an issue with the IRS.

Bruce noted, “Someone, not us, changed our address to Arizona State University.” Tom added, “Our IRS nonprofit status was terminated in 1998 for reasons unknown. We’re working with the IRS to restore it.” Idaho still recognizes our nonprofit status.

Scholarship Report (Jonathan Bean)

One goal for this year was to move some of the scholarship information to a form where it is easier to access and communicate. The idea is that we will have a yearly list of scholarships, the amount that’s been committed, and indication of whether it’s been awarded.

PLEA is still outstanding. They will give us the list of applicants, but we need confirmation from the Cook Trust to fund up to 30 students to attend this virtual conference. (Actually, we funded 40+ students for the virtual conference.)

Our 2 faculty retreat scholarships and 4 student retreat scholarships will roll forward. We issued only one PHIUS student scholarship, and have funding for ASES conference (but no applicants).

We also sponsored 5 emerging faculty to attend the Reynolds Symposium.

In all we budgeted for 23 scholarships, but have only funded 11 so far. We did advertise, but late. There was a scholarship requirement for only undergraduate students, but more interest was shown by graduate students.

Education and Resource Committee Report (Michael McGlynn/David Fannon)

David Fannon affirms, “As a teacher SBSE has been an important resource. I’m eager to contribute to the organization.”

Communication Committee Report (Bruce Haglund)

The newsletter is well and good. We could use a social media presence. Looking for someone to help with social media and on the web site. [Subsequently, Clarke Snell from Stevens Institute of Technology has volunteered to help out.–ed.]

—Emily McGlohn

GRANTED

Simi Hoque has been recommended for a $450K NSF award from the Directorate of Engineering, in collaboration with Melissa Bilec from the University of Pittsburgh. The project, “Climate Impacts on the Urban Built Environment,” aims to create an analytical framework for predicting urban building energy consumption considering different energy source types and associated greenhouse gas emissions under different climate scenarios. The framework will include building performance vulnerabilities resulting from variations and uncertainties in parameters that have the most effect on building energy use, and by extension, life cycle environmental impacts.

Hoque has also been awarded a $350K NSF grant from the Directorate for Education and Human Resources. This project is called “Cultivating Sustainable Citizenship,” which focuses on building environmental advocacy through informal STEM education among underrepresented middle school girls in Philadelphia. The abstract for this project can be found at <https://www.nsf.gov/awardsearch/showAward?AWD_ID=2025181&HistoricalAwards=false>.

Both proposals were written and submitted during the first few months of the COVID quarantine, so while I really struggled with online teaching my students and home-schooling my three kids, I am glad that the whole of spring term was not a spectacular failure.

—Simi Hoque

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—Simi Hoque

—Emily McGlohn

Sunflower city, Moscow, ID!
REMEMBERING ED ALLEN

Edward Allen was a very special, kind, and humble mentor to many, yet a giant pillar in the field of building and environmental technology. I had the honor of meeting Ed Allen at the SBSE 2005 Retreat in Savannah. I cannot describe how delighted I was when I received the registration form, anticipating meeting him in person for the first time. In one very memorable workshop, Ed Allen, John Reynolds, and I were put in a 20-minute team to develop hands-on window design tools for students. The intent was to creatively think beyond the known metrics without necessarily violating design principles. We ended up using a large cardboard box with cut-out windows for students to wear with their heads inside. Looking outside the box, we took turns to qualitatively evaluate natural lighting and views. We lightheartedly called the experiment, “Thinking Inside the Box.”

One of our traditions at SBSE retreats is for all members to exchange small but meaningful omiyage (gifts). In 2005, Edward Allen brought a personally crafted booklet titled “Notes to Myself.” I must admit, I took two copies of the booklet, one for my office and one to save at home. Today, I looked for it in memory of Ed Allen and, with great delight, I found my copy with his hand-written note from fifteen years ago. Edward Allen will be forever missed, but always fondly remembered by his colleagues, students, and friends.

There’s more remembrance in the guestbook at <https://www.everettfuneral.com/>.

—Emad Afifi

SBSE CALENDAR (COVID-19 RESTRICTIONS MAY CAUSE CANCELLATIONS)

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WINTER ISSUE SUBMITTAL DEADLINE—DEC 1

SBSE News  
c/o Bruce Haglund  
Architecture Program  
University of Idaho  
875 Perimeter Drive MS 2451  
Moscow, ID 83844–2451  
bhaglund@uidaho.edu

To: SBSE Members & Friends  
Planet-wide

* Ed Allen, a kind friend and mentor to many SBSEers.