CALL FOR PARTICIPATION—SBSE RETREAT ’20

The call for proposals to present at the SBSE retreat 2020 is now open! The retreat will be held 3–6 Aug at the Manresa Retreat House in Bloomfield, MI, just north of Detroit. This 35th summer gathering of SBSE members will offer opportunities for social exchange and discourse about current issues in teaching building science in schools of architecture and allied disciplines. Retreat coordinators are Kristin Nelson and James Leach (University of Detroit Mercy School of Architecture).

The urgent call to address climate change through design of the built environment is at the core of contemporary building science education—using fewer and more ethical resources, designing for more extreme climate conditions, bringing more equitable solutions to spaces in the developing world and impoverished portions of the developed world. For architects and engineers, the boundaries of the site often constrain their thinking. The theme for the SBSE 2020 Retreat—Networks—will invite discussion that transcends such barriers by considering neighborhoods, districts, villages, cities, and regions beyond the limits of the single-parcel lines.

We invite proposals for 30-minute or 60-minute workshops on any of the thematic topics below. Proposals must include innovative pedagogical or research content that relates to teaching and learning for design studios, lectures, or seminars. Sessions will take place in parallel, and the venue will hold approximately 25 in each room. We are looking for 15–20 workshops and presentations for the retreat, selected through a review process that will balance content and schedule.

Topical areas for workshops and sessions include:

- **Virtual Networks.** Digital capabilities—big data, BIM, parametrics, programming, smart devices, etc. to connect and empower teaching and research.

SBSE ELECTION RESULTS

The SBSE ballot closed on 31 Oct, and I am happy to report the results.

Troy Peters has been elected President–Elect; he will join the Board and become president in 2 years.

Tom Collins has been re-elected Treasurer.

Emily McGlohn has been re-elected Secretary.

Thank you all for volunteering to serve SBSE.

Georg Reichard moves into the role of President, and I will now be your Past-President, and remain on the Board two more years.

Thank you all who cast your vote.

As outgoing President I extend thanks to Alfredo Fernández-González, Past-President for his leadership as he departs from the Board after six years’ service.

Keep up the good work SBSE! 🌟

—Ulrike Passe

https://www.sbse.org/retreats/sbse-retreat-2020
LETTERS TO THE EDITOR

I did not know about Project Drawdown until I got an email from Alison Kwok. I finally have hope that we can avoid the worst of climate change because this organization is not in denial of the role of population growth. Please watch the excellent 17-minute TED talk called, “We the Future” at <https://www.drawdown.org/>.

—Norbert Lechner, Auburn

Thanks, Norbert. I sounded their call on page 5 of this issue.—ed.


—Architecture 2030

Check it out. It’s cool and I can relate, being a point guard for life!—ed.

Thanks for organizing such a great Reynolds Symposium! So many great presentations about teaching, particularly on building science-related topics. I wanted to participate in the 2015 inaugural symposium, but was unable to. I am so glad and excited to see the symposium continues! I also want to thank SBSE for providing scholarships. It is encouragement and a reminder that we should continue advocating for building science education in our respective programs.

—Ming Hu, Maryland

See more from Ming in the next column and on page 9.—ed.

2019 REYNOLDS SYMPOSIUM REVIEWS

The 2019 Reynolds Symposium was held at the University of Oregon, Portland, 18–19 Oct. The Symposium explored how architectural education can address the multiple urgent challenges facing our current environment—climate change, resource scarcity, and environmental degradation, to name a few. Those challenges, coupled with new and advanced technologies, place building science educators at a critical juncture in architecture education. What is happening now? What lies ahead? Can the current education model be sustained? How might different programs change to address those challenges, opportunities, and shifting student interest? The 2019 symposium was poised to start answering those questions.

The symposium started with a keynote speech delivered by Nina Maritz of Nina Maritz Architects, a Namibia-based architecture firm, “From Sustainability to Resilience—Preaching Outside the Choir.” The main program took place on the second day, with six different paper sessions and one poster session, altogether featuring 27 presentations from 22 universities. The second day started with a keynote speech delivered by Marsha Maytum and Bill Leddy, “Redefining Design Excellence for a Climate Positive World.” Maytum and Leddy, both Oregon graduates, have been working in sustainable design since the early 1980s, well before the LEED rating system for the design of green buildings existed. Their firm, Leddy Maytum Stacy Architects, was named the No.1 firm in the country for sustainable design in 2013 by Architect magazine and won the AIA’s Architecture Firm Award in 2017. They discussed their design approach of treating architecture as the synthesis of poetics, economics, technology, and the environment while showcasing their award-winning projects. More exciting, they reported the progress the AIA is making to help achieve carbon-neutral goals. AIA adopted the Resolution for Urgent and Sustained Climate Action by a vote of 4,860 to 312 at its national convention on 13 Jun 2019. This historic resolution will realign the basic responsibilities of architects and help improve our design standards and construction techniques.

This exciting news certainly energized the academic participants in this symposium, which also calls for the improvement of our current architectural curriculum. In the following presentation sessions, we heard about how an integrated design studio can facilitate or simulate the integrated design process, how design should deal with changing climate conditions, and how digital approaches could improve or change design education. The symposium ended with a practitioners’ panel discussion of how sustainable design leaders brought foundational knowledge into practice and developed their expertise in sustainable architecture.

There are no absolute answers to all those questions, but the overall message shared by the panelists left all participants with something to reflect on, especially the educators and academics in the audience. The climate is changing, technology is evolving—however, design principles, professional ethics, and responsibility are well established and should be preserved. We should learn those while in school and continue to hold ourselves accountable in our practice. The principle is to design environmentally responsible architecture.

—Ming Hu

It was my first time to attend the Reynolds Symposium or any SBSE-related event. The keynote presentation by Nina Maritz set the tone for an intense couple of days. She challenged our behaviors to personally move beyond sustainable practices to more resilient approaches called for by extremely diminished conditions and lack of resources—a reality in some parts of the world. I was challenged to think of my responsibility in the use of resources, and on becoming aware of my daily actions as part of this call for personal action. After this presentation (alert) the Reynolds Symposium 2019 provided various opportunities to consider how to move forward.

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>.

• continued next page
The Portland Declaration and compiled Reynolds Symposium Proceedings can be found in three places:

- “Past Symposia” on the Reynolds Symposium web site: <https://reynoldssymposium.uoregon.edu/past-reynolds-symposium/>
- Pubpub: <http://Reynoldssymposium.pubpub.org> will also host/archive the proceedings. The abstracts to the individual papers are visible; the PDFs can be downloaded; each have an individualized DOI (digital object identifier) making it easier to find, searchable, etc. This site will soon have the keynotes and panel discussions and a few pictures from the event.
- UO Scholar’s Bank: all the papers from the proceedings will also be archived here.
CALLS FOR ABSTRACTS
PLDC 2020 NEW YORK, NY

The Professional Lighting Design Convention is recognized as the thought leadership event for the lighting design community worldwide. After staging six editions in ten years, the organizers analyzed the impact of the event and are now prepared to develop this event to the next level.

Prospective contributors are invited to submit papers dealing with recent findings, achievements, or professional issues in the field of light and lighting design. The papers should be relevant to the following topics: Professional practice issues—skills and competencies; flexible-use environments—interior case studies; Professional Practice Issues—communication; and flexible-use environments—exterior case studies.

Deadline for the Call for Papers is 4 Jan 2020 / 11 pm GMT.


—Joachim Ritter

ARCHITECTURAL ENGINEERING AND ME

After 14 years’ teaching architecture, I joined the University of Texas at Arlington in 2018 to direct the Architectural Engineering Program which began in 2015. I’ve transitioned from teaching at Cincinnati to the Dallas–Fort Worth (DFW) metroplex and from being a member of the architecture faculty to a member of the engineering faculty, providing a very different perspective in academia. Architectural Engineering (AE) is within the Department of Civil Engineering in the College of Engineering, home to seven departments. With more than 7,500 students, the college is among the largest in Texas and is the most comprehensive engineering school in the region.

AE has grown rapidly—to 126 undergraduate students in fall 2019. It uses faculty from all Civil Engineering degree programs, with additional faculty support from electrical engineering, mechanical engineering, and architecture. The program is strongly aligned with the phenomenal architecture/engineering/construction industry in the DFW region. The AE program was started as a joint venture of civil engineering and architecture, using existing courses in the two disciplines. When I joined UTA in fall 2018, I quickly heard many opinions about the importance of addressing AE’s unique characteristics and curriculum. But first, I had to learn what comprises AE.

I was lucky to have come to architecture with a deep appreciation of engineering as a result of the cross-disciplinary approach to teaching at Oregon, including teachers such as Chris Luebke, now Director of Global Foresight and Innovation at ARUP. My early career included four years at EHDD Architecture in San Francisco, working on our projects from day one with ARUP engineers and others. Nonetheless, I came into my new role as AE Director with little actual understanding of the discipline. However, an incredible group of practitioners in the DFW Metroplex helped me understand the critical role of this growing discipline.

Informed that we would be going through our accreditation review from the Accreditation Board for Engineering and Technology (ABET) in fall 2019, I learned that AE is not a combination of architecture and engineering. Those studying AE take enough courses in architecture to understand its graphic and verbal languages. AE is an engineering discipline so those with an accredited degree can go on to become licensed engineers. They typically work within the building industry, knowing the basics of engineering (science and math) with a combined focus in four areas—structures, mechanical systems, electrical systems, and construction/construction management. Our primary focus at UTA is structures.

Soon after arriving, I met Thomas Taylor, Principal Designer and President of Datum Engineering, who explained what distinguishes AEs from other types of engineers, “They are trained to help the architect realize their vision.” AE is often synonymous with structural engineering because many people working as structural engineers on buildings have degrees in architectural engineering. The important difference is that structural engineering students learn about the structural properties of materials in general while architectural engineering students are focused on engineering for buildings. A student graduating in architectural engineering will be prepared to begin work as a productive member of a building team.

It has been an incredibly busy year-and-a-half learning about and updating the AE curriculum through input from students, faculty, and our advisory group. In early November 2019 we had a successful ABET accreditation visit and are excited to move forward with the expectation of receiving ABET accreditation in summer 2020.

We are looking into developing a graduate AE degree that would include opportunities to research in building science, building forensics, building information modeling, and other areas. Presently we are hiring in the areas of mechanical or electrical engineering <http://uta.peopleadmin.com/postings/10484>. Please reach out if you are interested in learning more.

—Michael Zaretsky
ARIZONA STATE UNIVERSITY
We seek someone to evolve the conversation around architecture and energy. The position has the possibility to develop a new center, aligned with our grad and post-professional program, as well as with other schools around ASU. See details at <https://herbergerinstitute.asu.edu/about/employment/assistant-professor-architecture-1>. Application deadline is 3 Jan 2020.
—Marc J Naveau

FLORIDA STATE UNIVERSITY
The Assistant Professor position has an emphasis on lighting and starts in August. We are reviewing applications until 3 Jan 2020. See <https://www.idec.org/i4a/careercenter/jobdetails.cfm?id=902>.
—Amy Huber

NORTH CAROLINA STATE CHARLOTTE
We’ve posted an Assistant Professor/Design Integration position in the School of Architecture <https://jobs.uncc.edu/postings/29243>. You can find a full advertisement on the ACSA web site as well <https://www.acsa-arch.org/job/assistant-professor-design-integration/>.

With this position our department seeks to add a faculty member with strong design skills who is engaged in research areas specific to building technology, including but not limited to, computational methods, advanced technologies associated with construction, structural systems, ecological systems. With this position there is an opportunity to collaborate with colleagues in SoA’s Integrated Design Research Lab and advance research within our state-of-the-art fabrication and computation labs.
—Mona Azarbayjani

ROCHESTER INSTITUTE OF TECHNOLOGY
RIT has begun a search for a tenure/tenure-track faculty position with a focus on sustainability and building sciences.

Screening of applications will begin in Jan 2020, and will continue until the position is filled. Visit the electronic posting at <https://sjobs.brassring.com/TGnewUI/Search/Home/Home?partnerid=25483&siteid=5291#jobDetails=1515924_5291> to learn more about this position and to submit an application.
—Dennis Andrejko

UNIVERSITY OF OREGON
We seek applications for a full-time, tenure-track Assistant Professor position in Mass Timber Design and Construction to begin Fall 2020. Candidates should have the potential to make a strong contribution to the design and technical areas of the curriculum and to pursue a well-defined research and/or creative practice agenda with a commitment to sustained inquiry into emerging issues in the field. See <https://careers.uoregon.edu/en-us/job/524129/assistant-professor-of-architecture>.

Candidates are expected to develop and teach innovative design studios, lecture courses, and seminars in integrated building design in the department’s professional programs, the new M.S. degree pathway in Mass Timber Design, and the Ph.D. degree program in Sustainable Design as well as to make significant contributions to the TallWood Design Institute (TDI), a partnership of Oregon’s College of Design and Oregon State’s Colleges of Forestry and Engineering <http://tallwoodinstitute.org>.
—Nancy Cheng

UNIVERSITY OF TORONTO
We have a new Assistant Professor job posting in building science at the University of Toronto’s John H. Daniels Faculty of Architecture, Landscape, and Design. The position is open to all types of specializations including environmental performance, materials, urban design, health & design, and structures. Please consider learning more and applying <https://utoronto.taleo.net/careersection/10050/jobdetail.flt?job=1903886&tz=GMT-05%3A00&tzname=America%2FToronto>.

• continued next column

DISTANCE DOCTORATE
Doctor of Design distance learning program applications are now being accepted for Fall 2020 admissions.

Established in 2016–17, the professional Doctor of Design (DDes) program at North Carolina State University is an advanced degree program for established design practitioners and design faculty, which complements our existing PhD in Design in-house program. This is the only DDes program in the country that offers blended learning (online + on campus) in design research aimed at applications in practice. This unique program offers DDes student practitioners the flexibility to continue working, either in practice or academia, while completing program requirements.

Review of applications will begin 1 Mar 2020 and remain open until the class is filled.

The purpose of the program is to pursue design research in support of those professions creating the artifacts, communications, environments, organizing structures, and systems of the future. DDes students conduct original investigations through design-based practices, cases, and methods. The program provides a forum for connecting design research to the needs of society, by promoting the application of new knowledge in design and addressing how design affects larger systems.

Note: While most of the program is completed online, physical attendance at one week-long workshop held each semester is mandatory. At the time of admission, DDes students are expected to demonstrate mastery over their respective practices and to articulate a clear, compelling topic along with specific research questions.

Questions? Please contact Elen Deming at 919-515-3876 or <doctor-of-design@ncsu.edu> or see <https://design.ncsu.edu/admissions/graduate-admissions/doctor-of-design/>. 🌐
—Traci Rose Rider

JOB OPS [CONT.]
As always, “All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.” 🌐
—J. Alstan Jakubić
**2020 ARCC AWARDS ANNOUNCED**

### 2020 ARCC James Haeker Award for Distinguished Leadership in Architectural Research

Given for the innovative, sustained, and high impact of her work, the ARCC Board of Directors is pleased to announce the recipient of the 2020 ARCC James Haeker Award is Dana Cuff (UCLA).

### 2020 ARCC New Researcher Award

Based on the experimental and creative nature of her work and promise in the field, the ARCC Board of Directors is pleased to announce the recipient of the 2020 ARCC New Researcher Award is Tsz Yan Ng (Michigan).

### 2020 ARCC Research Incentive Award

Due to the high caliber of applications, the ARCC Board of Directors is pleased to announce this award for two proposals.

1. **Reconfigurable Space:** Kinematic Environments Controlled with Computer Vision—Principal Investigator: Rachel Dickey; Co-Investigators: Ali Karduni and Noushin Radnia (UNC Charlotte).

   The project will explore a robotic architecture produced from large-scale deployable surfaces that can change size in shape based on human activity. The research focuses on the first of the three related projects: 1) physical design and prototyping kinematic architectural elements; 2) design and testing computer vision sensing and control systems for actuated elements; and 3) user testing studying the impact of reconfigurable environments on occupants.

   The outcome of this first phase of work includes a research exhibition demonstrating pneumatically actuated soft robotics.

2. **Flexi-Form:** Design and Fabrication of Additive Flexible Formwork for the Design of Concrete Interlocking Modules—Principal Investigator: Niloufar Emami, Ph.D. (LSU).

   The project will study 3D-printed concrete fabrication methods that can accommodate the creation of complex and cost-effective formwork geometries at scale. The proposed research involves optimization of a wide range of process parameters, including temperature, extrusion speed (flow rate), printing speed (feed rate), extruder nozzle diameter, and effects of mixes with different densities. The outcomes of the study will produce sufficient data to better understand the influence of these aspects, narrowing the gap between design and fabrication.

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**CALL FOR REVIEWERS**

**PROJECT DRAWDOWN**

Project Drawdown [https://www.drawdown.org/] is moving into its final phase of External Review and we are currently seeking qualified individuals to participate in this process. As an SBSer your background and expertise in this area make you uniquely qualified for this position and we would benefit greatly from your contributions.

Project Drawdown is a research organization that reviews, analyzes, and identifies the most viable global climate solutions, and shares these findings with the world. We also partner with communities, policy-makers, nonprofits, businesses, investors, and philanthropists to identify and deploy science-based, effective climate solutions—as quickly, safely, and equitably as possible.

Project Drawdown’s External Review process ensures that our data and results are supported, credible, and useful to the larger research community. Fair and unbiased feedback from reviewers like you is essential to this process. External Reviewers will be asked to review 4 solutions relevant to your subject expertise and provide your thoughts and recommendations for improvement. Each solution should take no more than 2 hours to complete. In recognition of your time, Project Drawdown will provide a $500 stipend.

If you are interested in participating in the External Review process directly and/or wish to provide further recommendations, please complete this form [https://form.jotform.com/92266908944975]. You may forward the form to colleagues, graduate students, or others in your network who might be interested and qualified. If you have any questions and/or need additional information, please let us know via our web site. 🏡

—Chad Frischmann

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**ZERO CODE PROGRESS**

The preliminary votes are in! Cities, states, and voting members chose to update the International Energy Conservation Code (IECC) and incorporate the ZERO Code Renewable Energy Appendix submitted by the American Institute of Architects (AIA) and Architecture 2030.

The Appendix will allow jurisdictions to adopt mandatory provisions to meet or exceed the efficiency standards of the IECC and achieve zero-net-carbon emissions annually. It encourages on-site renewable energy systems when feasible, but also supports the use of off-site renewable energy. The votes must now be certified by the ICC Validation Committee and Board.

The ZERO Code Renewable Energy Appendix accommodates sophisticated user-friendly code compliance tools and software such as COMcheck, EnergyPlus, PVWatts, and a multitude of other energy performance programs; provides a renewable energy default table and convenient renewable energy calculator for all locations; and recognizes both on-site and off-site renewable energy options to reach zero-net-carbon.

Now every jurisdiction can adopt a ZERO Code standard [http://zero-code.org/]. There are multiple pathways to effectively reduce building sector emissions—through the IECC; adopting the ZERO Code itself; or requiring, by ordinance or legislation, on-site and/or off-site renewable energy (see the ZERO Code Renewable Energy Standard), and banning on-site fossil fuels. 🏡

—Architecture 2030

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—Architecture 2030

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—Chad Frischmann
A research team led by Tarek Rakha (Georgia Tech School of Architecture) has been awarded $1.4M in research funding (in addition to $370K cost-share commitment) by the U.S. Department of Energy (DOE), Office of Energy Efficiency and Renewable Energy (EERE), Building Technologies Office (BTO) under the Building Energy Efficiency Frontiers & Innovation Technologies (BENEFIT) program. BTO is investing in early-stage research and development for advanced building technologies and systems that will serve as a foundation for future reductions in building energy consumption.

More than half of all U.S. commercial buildings were built before 1970 and are inefficient relative to newer buildings. The research team is addressing this challenge in a three-year project called Aerial Intelligence for Retrofit Building Energy Modeling (AirBEM). AirBEM will complement human auditing of building interiors with the use of Unmanned Aerial Vehicles (UAVs or drones) equipped with infrared sensors and onboard processors to audit the exterior envelope. The drones will use Computer Vision (CV) techniques to detect both materials and heat transfer anomalies which suggest construction defects such as air leaks.

“The aspiration for this work is to profoundly inform building retrofit design by radically enhancing the methods and modes of envelope audits,” said Tarek Rakha. “We want to allow auditors to move past a small number of single-frame images for inspection; we want to enable retrofits to address specific building envelope issues, and want to develop 3D models that designers can interact with when developing retrofit plans.”

Research, Development, and Demonstration (RD&D) will be led by Georgia Tech as the prime recipient with academic partners including Senem Velipasalar and Ed Bogucz (College of Engineering and Computer Science at Syracuse) and John Fernández (School of Architecture and Planning at MIT). Sandeep Ahuja (Pattern R+D software developers) will serve as industry partner. RD&D conducted with DOE funding will advance AirBEM from a preliminary proof-of-concept to develop a transformational cyber-physical system that automates diagnostic capabilities of the UAV platform.

POST-DOC JOB OP

We have a position for an AirBEM post-doc fellow to aid in the design, development, implementation, and write up of research, including authoring and co-authoring peer-reviewed conference and journal articles. Post-docs may also participate or lead courses in the school of architecture, including course planning and development, creating class materials as well as lecturing and delivering content. Application packages that are received by 31 Jan 2020 will have the best chance of being reviewed for the available fellowship; but applications will be accepted and reviewed until the position is filled. See <https://arch.gatech.edu/high-performance-building-lab-postdoctoral-position>. 

—Tarek Rakha

INTERESTED IN TAKING YOUR RESEARCH WITH COMMUNITY ENGAGEMENT TO THE NEXT LEVEL?

The Interdisciplinary Research Leaders Program, <https://interdisciplinaryresearch-leaders.org/> funded by the Robert Wood Johnson Foundation (RWJF), will start accepting applications for Cohort 5 beginning 10 Jan 2020. The program is a three-year research leadership program focused on forwarding RWJF’s Culture of Health, which is a broad goal. The applications are team-oriented, requiring two research partners and one community partner. Fifteen teams are accepted into the program each year. In Cohort 4, two teams have representatives from the built environment (we need more!), but others do address built environment issues, such as energy efficiency in subsidized housing in the Southwest, water quality in the rural South, or structural racism in public housing in Baltimore. The award includes a stipend for each team member each of the three years to buy time, as well as a small amount of research funding for a small, exploratory research project. IRLP Leadership is clear that this program will “try new things” and expand participants’ research expertise, leadership training, and collaboration. Traci Rose Rider (North Carolina State), and her team were accepted in Cohort 4. They’re looking at how post-occupancy evaluations and Health Impact Assessments can be used in tandem to understand the health impact of a hybrid YMCA/elementary school and its supported programs on the larger community. Questions about the program can be directed to the program staff at the link above. Traci will also be happy to answer any questions about the experience (so far).

—Traci Rose Rider

The Michael Ventris Award is open for application.

This year the prize is £5000 for a stand-alone project not related to a course of study, an interesting project that will really make a difference. The trustees look forward to a great set of proposals, so please encourage your students to apply if they are working on such a special project. See <https://www.aaschool.ac.uk/PUBLIC/NEWSNOTICES/schoolNotices.php?item=1238>. Applications deadline is Friday, 28 Feb 2020.

—Sue Roaf
**SBSE PEOPLE**

Gabrielle Brainard (Pratt) and Nina Sharifi (Syracuse) received a 2019 AIA Upjohn Research Initiative grant to produce an *Envelope Retrofit Guide* for architects in the early stages of net-zero-ready retrofit projects. It will provide technical guidance at a schematic level on a variety of retrofit strategies for the building envelope, with a focus on wood frame and masonry buildings.

Mark DeKay will be a visiting professor in Venice for May through July 2020. He will be working at the Department of Architecture and Arts, Università Iuav di Venezia with faculty and students in the IR.IDE lab (Infrastructure of Research in Integral Design Environment). In collaboration with Margherita Vanore and others, the project will focus on “Activating Integral Design Environments” by establishing an international network and developing an integral sustainable design approach to city and landscape, particularly for “water landscapes” across a range of scales.

John Reynolds was surprised to receive the AIA Oregon Chapter President’s Award at the Portland Design Awards ceremony on Friday 25 Oct. His son Vaughan, architect with Skylab in Portland, made the introduction. John’s award was the warmup; main attractions were the design awards!

**BOOK STORIES**

**Housing Fit for Purpose: Performance, Feedback, and Learning**

In the Fall 2019 issue I noted that Fionn Steven- son’s book was finally published by RIBA with a great endorsement from Alison Kwok. As a true believer in the words of Alison and Fionn, I purchased a copy from RIBA [https://ribabookshops.com/item/housing-fit-for-purpose-performance-feedback-and-learning/40077/] for only £30—amazingly affordable for a fine textbook [Take no umbrage MEEB—ed.]. The title makes it seem to be a book about housing, but in truth it’s a comprehensive view of POE written with humor and wisdom. Fionn has addressed history, learning from feedback, training, British and international context, and future challenges. Coincidently, I’m giving a building performance evaluation seminar this spring semester, so I’ve adopted *Housing Fit for Purpose: Performance, Feedback, and Learning* as its main text. It’s the textbook fit for purpose!

**The Art of Architectural Daylighting**

Helen Ronan, the Research and Development Editor for Laurence King Publishing, paid me a reconnaissance visit to discuss the secret of textbooks for architecture schools. [I was shocked too—ed.] Laurence King excels in the publishing art books. During our chat she noted that I teach architectural lighting and that LK had recently (2018) published a book on daylighting by Mary Guzowski. Would I like a copy? Duh!

Presently (pun intended) this beautiful coffee table book arrived. Mary and LK are on the same page (pun) about big and beautiful, and Mary also delivers in terms of substance and analysis. The text is simply six pairs of case studies plucked from around the world covering Light—Choreographed, Atmospheric, Sculpted, Structured, Material, and Integrated. For four of the projects the architectural design team provided the lighting analyses, for the other Mary and her research assistants contributed parametric analyses in plan and section. You’ll want to add all these buildings to your bucket list—only two are in the United States. Coincidentally, my design studio was assigned a project to design for Mackintosh’s Glasgow School of Art site (sob!) and Mary presented the neighboring Reid Building by Steven Holl in enough detail to serve as context and inspiration for their design efforts. At the same time my Graduate Teaching Assistant, Mai-Anh Doan from Viet Nam, was formulating her graduate project on providing a luminous experience and found the book to be illuminating (pun). She was especially charmed that Mary included Stacking Green House in Ho Chi Minh City by Vo Trong Nghia, an architect Mai-Anh admires.

Now that you love this book, you can learn more about it or purchase it directly from LK for £50 [https://www.laurenceking.com/product/the-art-of-architectural-daylighting/].

—Bruce Haglund
CONFERENCES OPPORTUNITIES

ASES SOLAR 20/20


Solar 20/20 is a global solar event at the right place and at the right time. Washington, D.C. is the seat of our national government; the center of national media; home of influential international institutions such as The World Bank Group, InterAmerican Development Bank, and the World Health Organization (WHO); and home to a few thousand nonprofits that affect policy in global security, energy, environment, housing, and financing. The George Washington University, five blocks from The White House, is at the epicenter of this activity with an aggressive and engaged faculty, administration, and student body, surrounded by a host of nearby universities who are similarly engaged in these areas.

The events of the moment — international pronouncements by international bodies of scientists on climate change; amazing technology and market advances by innovators and financiers; and a push by everyone across the political spectrum for more control of our energy choices to reduce costs, increase reliability and resiliency, reduce regulated greenhouse gas emissions of our air and water, and reinvigorate local economies with jobs and employment opportunities—all converge at this pivotal time and place to spark the next wave of ingenuity, partnership, and action.

—Scott Sklar

COMPETITIONS

EXTREME DESERT TENT

International Student Design Competition for architecture and engineering students.

- Do you like architecture, engineering or science?
- Would you like to play at the edges of knowledge?
- Do you like to tinker?
- Do you like to understand how things work?
- Would you like to experiment with materials?
- Want to do meaningful work and push boundaries?

Submission deadline: 15 Jun 2020

Cost of entry: FREE

Prizes: £1000, £750, £500

The winning tent will be built and tested in the Dubai desert!

Visit our web site <https://www.extremeloedge.org/home/competition/> for details and inspiration!

Architectures at Zero 2020

The design challenge is to create a zero-net energy library for the San Benito County Free Library in Hollister, CA.

This competition, sponsored by Pacific Gas and Electric Company, serves to inform the public of the need for more energy-efficient buildings and the value of design excellence in resolving the challenge.

Up to $25,000 in total prize money will be awarded to students and professionals.

Architects, designers, urban planners, landscape architects, engineers and interns and students of these disciplines are eligible.


BOOK STORIES (CONT.)

NET ZERO ENERGY BUILDING: PREDICTED AND UNINTENDED CONSEQUENCES

This book by Ming Hu presents a comprehensive overview of variations in net zero building practices. Drawing on examples from countries such as China, Germany, Hong Kong, Japan, the United Kingdom, and the United States, Ming Hu examines diverse approaches to net zero and reveals their intended and unintended consequences.

Existing approaches often focus on operating energy—how to make buildings more efficient by reducing the energy consumed by climate control, lighting, and appliances. Hu goes beyond mere operational energy use by analyzing overall energy consumption and environmental impact across the entire life cycle of a building, ranging from the manufacture of building materials to transportation, renovation, and demolition. Is net zero building still achievable once we look at these factors?

With clear implications for future practice, this tome is key reading for professionals in building design, architecture, and construction, as well as students on sustainable and green architecture courses. It’s available directly from Routledge <https://www.routledge.com/Net-Zero-Energy-Building-Predicted-and-Unintended-Consequences/Hu/p/book/9780815367802>.

—Routledge

Book Stories

Net Zero Energy Building: Predicted and Unintended Consequences

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—Routledge
DEKAY IN GREECE

It’s not exactly SBSE themed, although there was a lot of experiencing sun, wind, and light, but here’s something I have been doing lately with Susanne and our friend Pygmalion Karatzas, an architectural photographer and Fulbright artist who visited UT.


SBSE CALENDAR

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>Apr 6–9</td>
<td>NIBS Bldg Innovation 2020/Arlington, VA, USA</td>
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<tr>
<td>Apr 16–19</td>
<td>Windsor Conf on Thermal Comfort/Windsor, UK</td>
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<tr>
<td>May 14–16</td>
<td>AIA/ACSA Symposium/Los Angeles, CA, USA</td>
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<td>Jun 10–13</td>
<td>EAAE–ARCC Intl Conf/Bari, ITALY</td>
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<td>Jun 23–26</td>
<td>ASES Solar 20/20/Washington, DC, USA</td>
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<td>Aug 3–6</td>
<td>SBSE Retreat/Bloomfield Hills, MI, USA</td>
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<td>Aug 12–14</td>
<td>BPAC &amp; SimBuild/Chicago, IL, USA</td>
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<td>Sep 1–3</td>
<td>PLEA2020/A Coruña, SPAIN</td>
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<td>Sep 25–26</td>
<td>Reynolds Symp 2020/Portland, OR, USA</td>
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<td>Oct 1–3</td>
<td>AIA/ACSA Intersections Conf/Philadelphia, PA, USA</td>
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<td>Oct 8–10</td>
<td>PLDC2020/New York, NY, USA</td>
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TAD 4:2 MATTER: CALL FOR PAPERS

The Editorial Board of Technology | Architecture + Design (TAD) has issued a Call for Papers on the theme of Matter. TAD <https://tadjournal.org/> is a peer-reviewed international journal of the Association of Collegiate Schools of Architecture (ACSA) published by Taylor & Francis. TAD is a growing platform for disseminating research contributions, and it invites original research for peer-review from educators, practitioners, researchers, scholars, architects, engineers, and scientists whose work engages the fields of technology, architecture, and/or design.

TAD 4:2: Matter seeks to attract and curate a combined body of knowledge for use in our continually-evolving material world. Manuscripts featuring empirical, theoretical, and practice-based research using an array of methodologies are welcome. Manuscripts for double-blind peer-review are due 15 Jan 2020. Standards for peer-review manuscripts can be found in the TAD Journal Author Guide.

—Chad Kraus

SBSE NEWS

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TO: SBSE MEMBERS & FRIENDS
PLANET-WIDE

OUR
NINA
MAIL

* Keynote speaker at the 2019 Reynolds Symposium. See p. 2.