



TIMBR | TIMBER INTEGRATIVE MEANS + BIOPHILIC RESILIENCE

Students: Marcus Puste, Farah Ossaimee, & Dolin Diaz

Faculty: Kristin Nelson & James Leach

University of Detroit Mercy

WATERSHED

Students: Eric Luth & Andrew Baltimore

Faculty: Gundula Proksch & Christopher Meek

University of Washington



graphics: AIA COTE Top Ten for Students

2023 AIA COTE Top Ten for Students competition winners mentored by SBSEers. See all the winners at <<https://www.acsa-arch.org/competitions/2023-cote-competition/winners/>>.

SBSE 2023 ELECTION

There is still time to nominate yourself or a trusted colleague for positions of SBSE leadership.

Throw your/her/his hat in for President–Elect, Treasurer, or Secretary! Nominations are **due by the close of the SBSE Annual Meeting in October.**

The elections will be held during October, and new board members’ terms will begin on 1 Nov 2023.

So far the nominations are: President–Elect, Omar Al-Hassawi; Treasurer, James Leach and David Fannon, and Secretary, Clarke Snell (the incumbent). Candidates’ statements will be posted on the SBSE web site and distributed with the ballots after the upcoming Annual Meeting. 🗳

—Bruce Haglund

SBSE RETREAT 2023 POSTPONED

Was it climate change (all those consecutive 110+ °F days in Arizona this summer) or the Lorch Effect (travel with discretion) that dissuaded a quorum of SBSEers from registering for the retreat? Whatever the cause, the retreat has been cancelled.

So it’s back to the drawing board where we’ll redesign timing and theme. Jonathan Bean is investigating a mid-June timeframe (hot, but not deadly, per our pleasant experience at the 2014 retreat). 🗳

—Jonathan Bean, David Fannon, and Alex Rempel

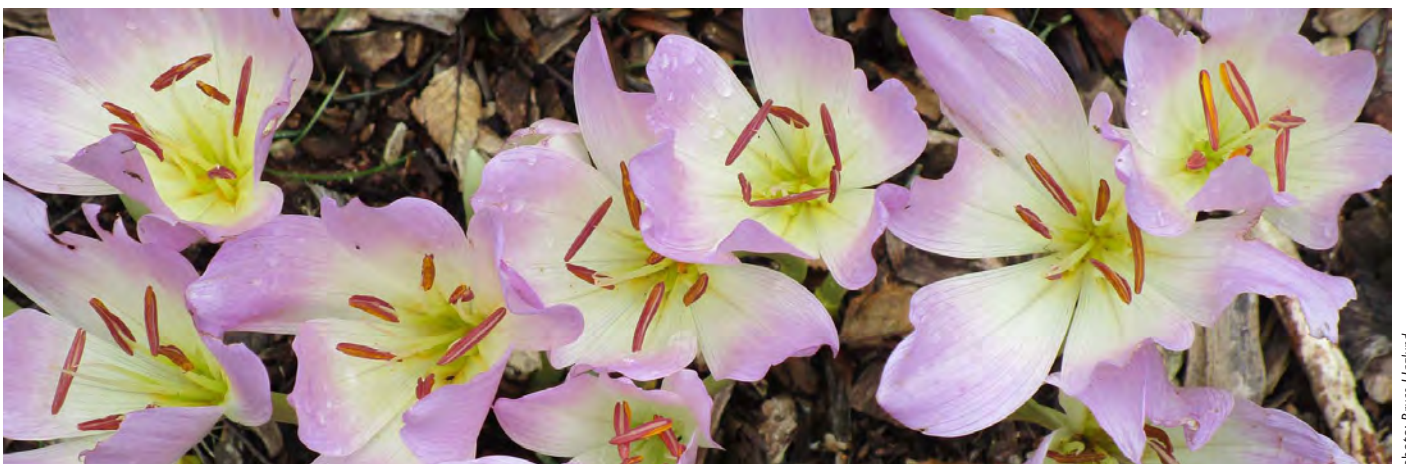


photo: Bruce Haglund

LETTERS TO THE EDITOR

Cocauthor Mark DeKay and I are excited for the publication of our book, *Experiential Design Schemas*, [reviewed on p. 6] produced through a 7-year collaboration launched during a casual conversation at the SBSE meeting in Edinburgh during PLEA 2017. The SBSE network rocks!!

Our publisher ORO says that in spite of our love for brick and mortar bookstores, Amazon pre-orders are far and away the best way to promote the book's rankings and visibility to others (shipment at the end of September). So if you were considering buying it, sooner rather than later would be doing us a big favor. Thank you!

—Gail Brager, UC Berkeley

I, too, love and prefer the bricks and mortar stores. Buying on-line from Powell Books is preferable to Amazon, but not as delightful as visiting their "City of Books" in Portland, OR!—ed.



Sorry, all, but I just haven't had time to finish my next installment this time. I'll save it for spring, as it's about reflected light, and will start working on another one (for winter), perhaps on the subject of the skeptic eye. 🖐

—Fred Tefter, Oregon

Sorry to hear that, Fred. Our eager but understanding Fred Freaks will have to wait for winter with bated breath.—ed.

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WHAT ON EARTH IS BOB KOESTER READING?

CO-GENESIS: THE RNA MIND, PERCEPTION AND CONSCIOUSNESS

Randy Croxton, FAIA, an architect from outside the scientific disciplines, once again demonstrates his unique capacity for conceptually integrative and systematically innovative thought. In his latest book, *Co-GENESIS: The RNA Mind, Perception and Consciousness*, Randy expands on the remarkable insights of his previous work, *A Convergence of Two Minds: Origins of Self-Awareness and Identity*.

With highly accessible writing and beautiful graphics he illustrates his newest reconceptualization: the primacy of RNA over DNA in the evolutionary transfer of the Code of Life.

Building on the duality of biological gender and neurological gender, this work more clearly accounts for the rise of deliberative consciousness, the hereditary product of free-floating RNA operating as the 'orchestrator' of information 'stored' in the double helix of DNA.

Randy illustrates the physical mechanisms and generational integrations that occur during the first 3 to 6 days following fertilization and implantation in the womb, followed by an additional descent that occurs at the four-month mark of development.

In fact, the time-dependent genetic mixing of ancestral minds and parental adaptations that occurs in sexual reproduction is the result of the dual-spindle origination of male and female legacies which enables—from genomic imprinting, to zygote, to first cell division—a unary lineage of bodily evolution and a binary lineage of mind creation; so readily demonstrated in the birth of physically identical twins with wholly differentiated, unique minds.

This body/mind duality in evolutionary development is essential to the speed and complexity of evolutionary adaptation needed in every person as each generation joins with the rest of humanity to face an indeterminate future—which can unfold in differing scales of space and time—as either catastrophe or opportunity.

As with his previous work, this thoroughly referenced book is contemporaneous in factual citation and eye-opening in its ability to show the connections of the day-to-day observable world. A must read for scientists and non-scientists alike; in short, a must read for everyone. 🖐

—Bob Koester

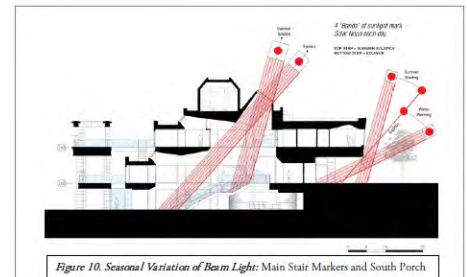
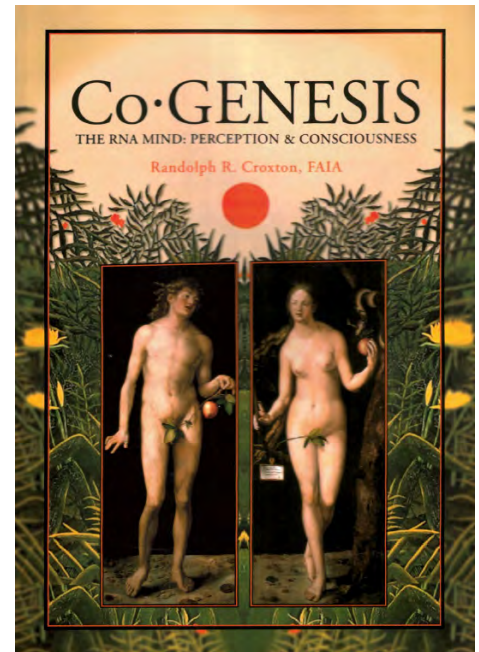


Figure 10. Seasonal Variation of Beam Light: Main Stair Markers and South Porch



Figure 11. Main Stair at Summer Solstice: 8 Destinations Visible @ Entry to Hall

Cover and illustrations from *Co-Genesis*.

ASES SOLAR 2023 REVIEW

TRANSFORMING THE ENERGY LANDSCAPE FOR ALL

This year ASES hosted its 52nd National Solar Conference in Boulder, CO. SOLAR 2023 had a total of 30 sessions focused on finding ways that the future of renewable energy can become just and equitable—a concern I often hear when visiting developing countries.

Since I had not attended an ASES conference since 2017, I was not sure what to expect. Many of us experienced the ASES struggle to organize strong conferences in the 2010s, thus I didn't have high expectations for SOLAR 2023. Fortunately, I am delighted to report that SOLAR 2023 brought back the spirit of the ASES conferences from the early 2000s!

While the conference continues to put a strong emphasis on the implementation of renewable energy and workforce development, there were two sessions squarely focused on buildings and two sessions that were extremely relevant for buildings and education (one of my favorite sessions dealt with LCA!).

The quality of the presentations in the “Buildings Track” was definitely above average, with some outstanding presentations from Victor Olgyay (RMI), Chenshun Chen and Neda Ghaeili (Ph.D. students at Penn State), Omar Al-Hassawi (WSU), Rich Stromberg (Equitable Solar Solutions/Alaska Center for Energy and Power), and Hope Wikoff and Samantha Reese (NREL).

To that end, I publicly commend Julian Wang, the chair of the Solar Buildings Division, for organizing these sessions and bringing his doctoral students from Penn State to present their research. The Penn State Architecture Program was well represented at the conference!

The 53rd National Solar Conference will be in Washington, DC, May 20–23. Keep an eye out on <https://ases.org/conference/> for the SOLAR 2024 call for participation in the next few weeks.

Finally, I'll share details of a great conversation I had with Victor Olgyay. In a break between sessions, Victor and I agreed that SOLAR 2023 had a solid program and was hosted in a beautiful venue, but unfortunately the number of attendees was not commensurate with the quality and organizational effort of the event. Then we brainstormed about ways to bring back the Passive Solar Conference. He had a brilliant idea of inviting sister organizations (such as USGBC, NBI, and, of course, SBSE!) to offer perspectives on the way forward for the building sector.

To that end, I want to gauge SBSE's interest in becoming involved with ASES to revive the Passive Solar Conference. Together we can produce a strong technical committee to blind review papers and to offer sessions that would be meaningful and informative. Perhaps those of you involved in the 2024 Solar Decathlon Design Challenge could showcase your work after at the ASES Conference? Anyway, please contact me or share your thoughts using the SBSE Listserv. 🙌

—Alfredo Fernández-González



The atrium of the University of Colorado Boulder Memorial Center, the venue for SOLAR 2023.

POSTDOC OP

2023 POSTDOC VIDEO CHALLENGE



graphic: Buildings & Cities

Calling all postdocs! You are invited to participate in the 2023 Video Challenge by creating a 2-minute video that tells the world about the significance of your research.

Organized by *Buildings & Cities* journal and ARL, this video challenge celebrates a diversity of built environment research from postdocs in many countries and representing built environment disciplines. The theme of this video challenge is “Grand Challenges”—the difficult, but key, problems that societies face. Collectively, these videos, aimed at the general public, will illustrate the importance of emerging built environment research to civil society and/or industry.

Here is your opportunity to improve your communication skills and enhance the visibility of your work.

Videos will be showcased to the public, and thus will increase public awareness and appreciation of your contribution to built environment research.

It's free. There is no fee to enter, and there are cash prizes, recognition, and kudos.

The deadline for video submission is **17 Oct 2023 at noon (GMT / UTC)**. It takes some time to prepare and make a video—start now to be sure you have enough time.

Full details at <https://www.buildingsandcities.org/video-challenge/2023.html>. 🙌

—Richard Lorch



photo: Bruce Haglund

SBSE PEOPLE

photo: Alfredo Fernández-González



✧ **Alfredo Fernández-González** has been named a Fellow of the American Solar Energy Society (ASES). This recognition, which follows his Leadership in Architecture and Solar Design Award received in 2021, acknowledges Alfredo’s contributions to passive solar heating and cooling research and his commitment through teaching and service to advancing ASES’s vision towards “a world equitably and sustainably transformed to 100% renewable energy.”

photo: Lisa Heschong



✧ **Lisa Heschong** has earned the Illuminating Engineering Society’s 2023 IES Medal Award. “Lisa has conspicuously advanced the science and application of daylight in buildings through her varied roles as architect, author, educator, entrepreneur, and researcher. Her research on daylighting in schools elevated the importance of how daylight affects schoolchildren. This seminal research has inspired how important daylight and views are in school design and has definitely influenced architectural practices around the world.”

See <<https://www.linkedin.com/feed/update/activity:7093244205984088064/?>>

RESEARCH NEWS

UNIVERSITY OF CALIFORNIA

Significant energy savings in a retrofitted Zero Energy Building using fans in a hot and humid climate

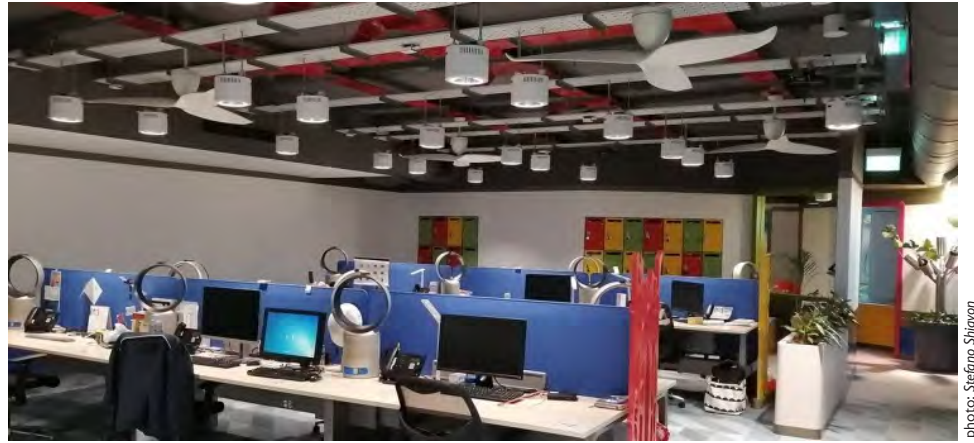


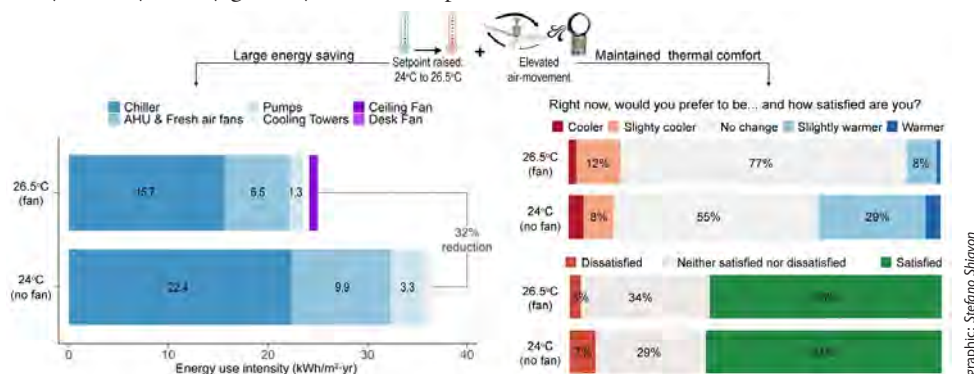
photo: Stefano Sironon

Using air-conditioning systems to cool buildings in hot and humid climates like Singapore requires huge amounts of energy, ranging between one-quarter to half of the total electrical energy produced. Finding solutions that can significantly reduce building cooling energy while enhancing indoor thermal comfort is paramount for shaping a sustainable future. Fans are a viable and affordable solution that works well with air-conditioners. Fans move indoor air instead of cooling it—a process requiring unequivocally less energy to achieve. However, little evidence shows how retrofitting fans within actual air-conditioned spaces affects energy consumption and thermal comfort.

We installed desk and ceiling fans in the Zero Energy Building at the Building and Construction Authority [See <<https://www.hpbmagazine.org/content/uploads/2020/04/15S-Zero-Energy-Building-BCA-Academy-Singapore.pdf>>] to bridge this knowledge gap. Thirty-five building occupants took part in our study and provided online survey evaluations twice each day across eleven weeks. Occupants provided evaluations of thermal preference and satisfaction, perceived air quality (staleness), and self-reported productivity. Evaluations were provided to two unique conditions, alternating between different indoor setpoint temperatures and fan settings:

1. No fan: 24°C (75°F) setpoint temperature with fans turned off.
2. Fan: 26.5°C (80°F) setpoint temperature with fans turned on.

The ‘No fan’ condition represented standard operating conditions for buildings in Singapore, while the ‘Fan’ condition raised the setpoint temperature by 2.5°C and ensured elevated air movement was provided each day inside the building. When the fans were enabled, occupants could manually adjust the ceiling fans online at their workstations. Desk fans could be operated via remote control. This allowed occupants to increase or decrease the air movement provided by the fans to their personal preferences. See <<https://sinberbest.berkeley.edu/sites/default/files/general/ashrae2020.pdf>>.



graphic: Stefano Sironon

Results of the energy savings (left) and thermal comfort (right)

• continued next page

RESEARCH NEWS [CONT. FROM P. 4]

Raising the setpoint to 26.5°C caused a significant energy reduction of 32% (or 12.47 kWh/m²·yr) without negatively affecting thermal satisfaction. Since thermal dissatisfaction was already low (7%) at the 24°C temperature setpoint, this likely prevented us from lowering dissatisfaction by using fans. However, we did notice a significant reduction in overcooling from 33% to 9%, observed from the reduced number of building occupants preferring either “Slightly warmer” or “Warmer” conditions at the lower setpoint temperature, indicating energy had been used to excessively cool people beyond their comfort limits, which was avoided by using fans to reduce reliance on air-conditioning.

We showed that fans can significantly reduce cooling energy consumption in buildings while maintaining high levels of thermal comfort. The advantages of retrofitting air-conditioned spaces with fans may be even higher in buildings that cannot achieve high performance levels. Therefore, the anticipated advantages of fans would likely be even greater than those found in our current study. Our research and many other fan studies are in a freely downloadable guidebook <<https://cbe-berkeley.gitbook.io/fans-guidebook/>>, the most comprehensive resource available for building designers, allowing various types of fans—ceiling- or wall-mounted, desk, or pedestal—to be seamlessly installed into buildings, generating substantial energy reductions, and enhancing indoor thermal comfort.

Full report at <<https://www.linkedin.com/pulse/significant-energy-savings-retrofitted-zero-building-fans-schiavon/>>.

—Stefano Schiavon

DREXEL UNIVERSITY

I won a three-year NSF award to study the relationship between urban greening efforts and gentrification. We will use Google Street View images to examine the progression of physical markers of sustainability against demographic and housing data over time. It will be the first quantitative study of green gentrification at the urban scale. I am collaborating with Hamil Pearsall, an urban geographer at Temple University. My PhD student, Maya Mueller, will be working on this project for her dissertation research.

See <https://www.nsf.gov/awardsearch/showAward?AWD_ID=2312047&HistoricalAwards>.

—Simi Hoque

NBBJ

Getting to Zero: Introducing ZeroGuide, NBBJ’s New Carbon Estimation Tool

To support our mission of reducing emissions in our work and by sharing resources with our industry, today we launch ZeroGuide. ZeroGuide is an open-access carbon estimation program available at no cost to our clients and fellow architecture, engineering and construction (AEC) professionals. See the full story at <<https://www.nbbj.com/news/getting-to-zero-introducing-zeroguide-nbbjs-new-carbon-estimation-tool>>.



It gives an overall visualization of how key decisions made at the early stages of design can affect a project’s total carbon use by providing real-time feedback. Through a series of prompts, users can estimate carbon emissions on all aspects of their projects. Using this knowledge to guide decisions, teams can test design options and gain a greater understanding of where a building performs well or could be refined to meet or exceed sustainability standards. Access ZeroGuide at <<https://zeroguide.nbbj.com/>>. 🖱️

—NBBJ

JOB OPS

UC BERKELEY

The Dept. of Architecture at UC Berkeley is searching for an Assistant Professor in the areas of structural design, building technology, and sustainability. **Application deadline is 25 Oct.** While the department is keen to have someone to teach the basic structures class, we are casting a wide net in terms of the candidate’s research interests and other classes they will teach. We are particularly interested in candidates with interests in environmental and social issues of concern such as minimizing waste and embodied or operational carbon emissions, optimizing material use, enhancing durability and adaptability, exploring new construction typologies, improving life cycle performance, and enriching the environmental quality and experience for inhabitants.

If you’re interested, or know someone who would be a good fit, please contact me at <gbrager@berkeley.edu>. Networking is key for successful recruitment!

For more details, please see the search advertisement at <<https://aprecruit.berkeley.edu/JPF04121>>. 🖱️

—Gail Brager



University of California Berkeley’s Hearst Mining Building by Julia Morgan.

BOOK NOOK FOLLOW-UP

ACCOUNTABILITY: WHY WE NEED TO COUNT SOCIAL AND ENVIRONMENTAL COST FOR A LIVABLE FUTURE

When I started pioneering, publicizing, and supporting straw bale construction in 1986 I didn't expect to see much progress. The popularity of *The Straw Bale House* (1994) was remarkable and gave me hope for adoption, as did the recognition of the beauty, performance, and engineering studies.



photo: David Bainbridge

David at his first straw bale workshop in 1989.

Now, here's a video on a lovely casita by Dylan Johnson and Yvon Chouinard in Ventura <<https://www.youtube.com/watch?v=IHx9nDOaXIQ>>. Dylan and Yvon's house joins Ken Haggard and Polly Cooper's stunning office and home in Santa Margarita (featured in *Passive Solar Architecture*), a synagogue in SLO, the botanic garden, wineries, and so many homes and buildings along the mid coast. Jon Hammond's straw bale police stations in the valley are also very impressive (as is his net-zero office).

Throughout my fifty-year career as an environmental scientist and designer I have always worked to make the future less dangerous and more sustainable. I have seen remarkable progress in some areas, but enormous challenges remain. I put all I have learned in my new book *Accountability: Why We Need to Count Social and Environmental Cost for a Livable Future* (June 2023). [See the Book Nook in the summer 2023 SBSE News.—ed.] It provides many more reasons for straw bale building! 🙌

—David A. Bainbridge

BOOK NOOK REVIEW

EXPERIENTIAL DESIGN SCHEMAS

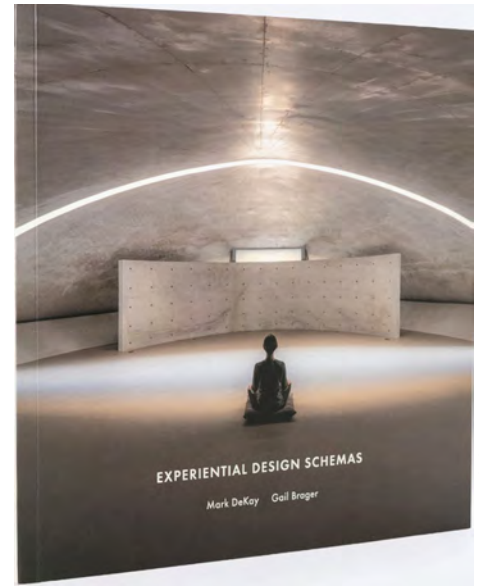
For those preparing syllabi, assembling lectures, and gathering evidence to build a sturdy case to students for the importance of climate responsive design and the promise of sensory rich architecture, our colleagues Mark DeKay and Gail Brager have produced a treasure in words, pictures, evidence, and design guidance for us and our students in their forthcoming book, *Experiential Design Schemas*. It is a thoughtfully narrated, beautifully illustrated, and thoroughly researched work that articulates a compelling argument for architecture that is rich in sensory delight, responsive to climate with its daily and seasonal rhythms, and informed by the preferences and sensibilities of the people they serve.

Beginning with a short preamble and a roadmap for navigating the catalogue of patterns that follow, Mark and Gail unpack the theoretical framework for their Experiential Design Schemas. These first three chapters—Beyond Comfort, Integral Experience, and Excited by Evidence—stand alone as coherent and comprehensive arguments for an approach to design that starts with sensory experience and aimed at human and planetary health. The voices of the two authors we know so well from their earlier works ring clear and are accompanied by fresh precedents and beautiful illustrations. Architects, educators, and our more advanced students will find a rich source of evidence and guidance in these chapters.

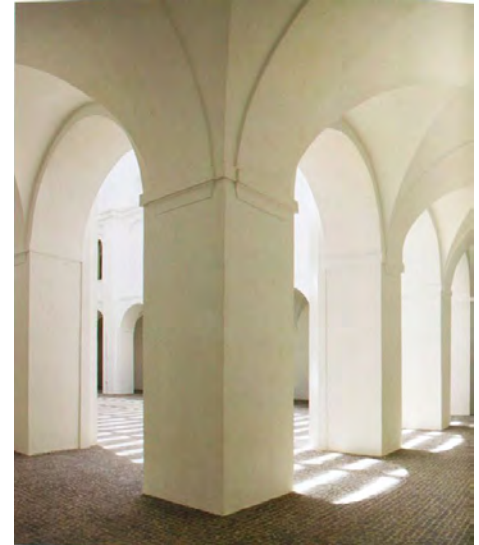
For the readers who jump straight into the Experiential Design Schemas in Chapter 4, they'll find a deep catalogue of design inspiration in the 45+ Schemas that are tightly interpreted with words, pictures, and evidence. Organized in a matrix that would make Charlie Brown proud, with six levels of scale + complexity—Materials, Elements, Systems, Rooms, Room Organization, Whole Buildings—and six distributions of condition—Contrast, Gradient, Rhythm, Sequence, Flux, and Narrative—each schema is presented in a four-page spread that is organized using words (title, caption, haiku, narrative), pictures (photographs, diagrams, icons), supporting evidence, and perhaps most important, design guidance.

In the forward, Joshua Aidlin says, "It reads as if a master chef has taken the recipe for a subtle dish and made its workings intelligible to a novice by categorizing the ingredients and cooking processes." Assembled with thoughtful care and clarity, as well as its logical ordering of ingredients for design that engages all the senses, this work delivers an abundance of fresh insight and inspiration. Mark and Gail have produced a beautiful book that will be a rich and valuable source of design guidance. 🙌

—Rob Peña



cover: ORO Editions



Contrast Schemas illustration.

photo: Experiential Design Schemas

LOOKING FORWARD TO 2024

2024 FORUM CALL FOR SPEAKERS IS NOW OPEN UNTIL 6 OCTOBER!

The Getting to Zero Forum aims to accelerate action to create an equitable clean energy future for the built environment. We hope you will join industry leaders to share your expertise at the 2024 Forum in Charlotte, North Carolina, 21–23 May. We are seeking speaker submissions for consideration in the following categories:

- Building-Grid Integration
- Codes and Policy
- Electrification
- Embodied Carbon
- Funding and Financing
- Tackling Existing Buildings
- Transforming the Market.

There are three session types available for the 2024 Forum, and presenters are able to choose the style most suited to their content. The session types are:

Panel Presentation: Panel presentations will be combined to create a full panel session. Panel sessions will include approximately three (3) individual panel presentations on a related theme to tackle challenges that will disrupt the status quo or offer breakthroughs in cost-effective, replicable solutions. Panels will be facilitated by a moderator identified by NBI and concluded with 10–15 minutes of Q&A.

Solutions Lab: Experimental learning environments on specialized topics. Built to explore issues in greater depth, these information-intensive sessions are aimed to provide tactical knowledge of how-to's and actionable steps. Attendees should leave with a list of tools, resources, and/or action plans in hand. For a solutions lab, you must have a full 90-minute session to propose.

Charrette: Facilitators will introduce the theme and set up problem statements for discussion. Grouped participants will be assigned one problem statement for discussion and interactive solution-finding. For a charrette session, you must have a full 90-minute session to propose.

Full information available at <<https://gettingtozeroforum.org/>>.

—Leada Fuller—Marashi

IBPC 2024

A great event will be happening in Toronto next summer. IBPC 2024 is the ninth official triennial conference of the International Association of Building Physics (IABP).

The IBPC conferences unite researchers, practitioners, educators, and students from the building science and building physics sectors worldwide. We meet to exchange new research and innovative technologies and to discuss current and future challenges and sustainable solutions within building physics, while we support innovative discoveries related to climate change challenges.

We hope to meet you in Toronto (Ontario, Canada) at IBPC 2024, hosted by the Toronto Metropolitan University, 25–27 Jul 2024. For details see <<https://www.ibpc2024.org/>>.

We would appreciate receiving your abstract (300 words max) by **15 Oct, 2023**, to make sure this conference becomes a great event. Join us if you can. 🖐️

—Umberto Berardi



JITH 2024



We are pleased to announce the 20th International Days on Thermal Science and Energy, JITH 2024, which will take place in Paris, 29–31 Oct 2024, at the National School of Architecture Paris-Val de Seine, ENSAPVS. The official languages of JITH 2024 are English and French. This event addresses four main topics, three of which are constant. Topic 4 is dedicated to the eco-design of building and city for climate resilience as a major domain of research and application in thermal and energy sciences.

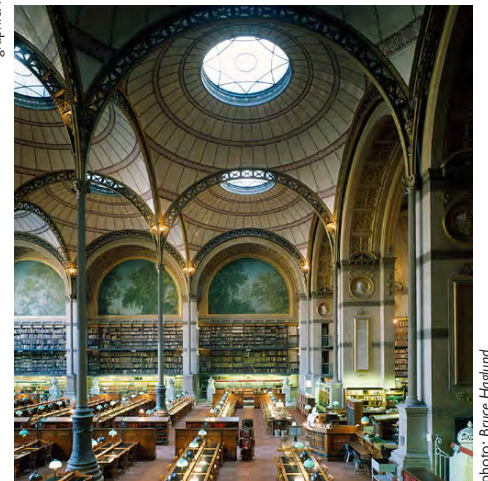
The JITH 2024 strives to foster international presence and multidisciplinary debates. Contributions are awaited from all disciplines including physics, mechanics, engineering (environmental, urban, building, materials, etc.), architecture, urbanism, geography, meteorology, climatology, and any concerned with thermal, energy, and more generally sustainability and ecology issues to meet the climate challenge.

The call for papers is launched—full papers (max. 6 pages) are due by 15 Jan 2024. All information is available online <<http://www.jith.eu/index.php/jith-2024>> or contact <jith2024@paris-valdeseine.archi.fr> or <jith2024@jith.eu>.

Like the JITH 2022, JITH 2024's best contributions will be published as a book edited by Springer. This publication is indexed Scopus, EI Compindex, INSPEC, SCImago, etc.

We're looking forward to welcoming you at ENSAPVS. 🖐️

—Fazia Ali Toudert



En Paris, Bibliothèque Nationale, La Brouste, 1865.

LOTS OF WEE WINDOWS!



photo: Bruce Haglund

MIT's Simmons Hall by Steven Holl provides each dorm room with at least 9 of these little windows. Each is an operable casement. Dorm rooms are on the elongated south and north façades. Is this scheme a big improvement over Munger Hell? 🖐

—Bruce Haglund

THE END OF 'DORMZILLA'?

The University of California, Santa Barbara is inviting applications for a major new student accommodation scheme. UCSB appears to be keeping students in the dark [*pun intended?—ed.*] over plans to house them in a largely windowless mega-dorm (pictured), dubbed "Dormzilla". Designs for Munger House, which were met with outrage when they were unveiled by Santa Monica-based VTBS Architects in 2021, featured a nine-story hyperdense student housing block with 94 per cent windowless rooms.

The future of the 4,535-bed scheme, funded by 99-year-old tycoon Charlie Munger (who describes the "convention of having real windows" as "stupid"), is uncertain, as UCSB is inviting applicants to draw up a new 3,500-bed scheme. A spokesperson told the *Architect's Journal* the university will "continue to work on the planning and consultation process for Munger Hall" while progressing the new scheme.

Could Munger's murky mansion have fallen foul of a 200-page report published last year, slamming its safety, stale air, and lack of natural light? 🖐

—Astragal

[Find out at <<https://www.architecturalsl.com/industry-and-business/news/article/33010529/ucsb-windowless-dorm-design-dies?—ed.>>—ed.]

Astragal: Is University of California quietly dropping its windowless student dorm plan?

24 AUGUST 2023 • BY ASTRAGAL



graphic: Architect's Journal

SBSE CALENDAR

2023

- Sep 25–26 ICARB 2023/Edinburgh, UK
- Oct 30–31 Advanced Building Skins/Bern, SWITZERLAND
- Dec 13–15 CATE 2023/Ahmedabad, INDIA

2024

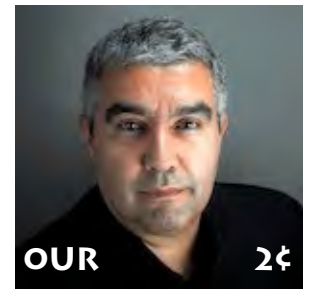
- May 20–23 ASES Solar 2024/Washington, DC, USA
- May 21–23 2024 Getting to Zero Forum/Charlotte, NC, USA
- Jun 25–28 PLEA 2024/Wroclaw, POLAND
- Jul 25–27 IBPC 2024/Toronto, CANADA
- Oct 29–31 JITH 2024/Paris, FRANCE 🖐

WINTER ISSUE SUBMITTAL DEADLINE—DECEMBER 1



SBSE News
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To: SBSE Members and Friends
 Planetwide



OUR **2¢**
 ALFREDO* MAIL

*Alfredo Fernández-González teaches at UNLV.