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http://www.sbse.org/retreat2016/RETREAT2016HOME.HTM
LETTERS TO THE EDITOR

I was in Seattle yesterday (March 19) for the ACSA 104 Conference and ran into fellow SBSEer Rob Peña, director of UW’s Center for Integrated Design, who acted as a tour guide for the Bullitt Center’s zero-net office building.

—Hofu Wu, Cal Poly Pomona

As a long-time reader of your newsletter and recently a more active SBSEer I just wanted to shout out to you how much I enjoy the newsletter each time. It’s just the right amount of information, interesting tidbits, and presented in a “newspaper” format. I get many more online newsletters—some weekly, some monthly—but yours is the one I read each time. Thanks for keeping us informed, entertained, while putting everything in such a nice format!

P.S.: Btw, will you make it to the Retreat, um Symposium? All wrong, I arrived at World Congress! 🗓️

—Georg Reichard, Virginia Tech

Thanks! And yes, I’ll see you at the Retreat!—ed.

TEACH THE STUDENTS

ANNOUNCING THE 2030 Curriculum Project

How we design buildings and cities today will determine whether the effects of climate change will be manageable or catastrophic. To best prepare future architects and urban planners, sustainability must immediately become an essential issue of all design activity, evaluation, and dialogue at professional architecture and planning schools. In recent years, the most dramatic improvements in sustainable design education have been a result of the creative and resourceful efforts of both individual faculty and/or department leadership. Yet significant gaps still remain, especially between schools and across topic areas.

A Call for Teaching Proposals in the 2016–17 Academic Year

Architecture 2030 is calling on educators to submit innovative teaching proposals that expand and fully integrate lessons in energy use, emissions, and resiliency into the widest possible range of projects and topic areas across all year levels—particularly in early design studios, history courses, and areas where this material is not adequately or traditionally addressed.

Teaching proposals selected for the 2030 Curriculum Project will serve as instructional models that can be shared and implemented widely. Participating educators will have the opportunity to transform the culture of sustainable design education not only within their own schools, but in architecture and planning programs nationwide.

Architecture 2030 will support selected teaching and curricular proposals with:

• Expert review and feedback
• Access to the latest design and analysis software and tutorials
• Connections to local and regional expert practitioners
• Continued development of sustainable design resources like the 2030 Palette.

Successful learning concepts and outcomes will be promoted and widely shared through:

• Partner media and organizations
• Peer-reviewed journals and/or academic conferences
• A database to share course resources and outcomes with other faculty and programs
• Opportunities to publish new content to the 2030 Palette.

The 2016–17 academic year will be the pilot phase of the 2030 Curriculum Project. All faculty and program administrators at all U.S. architecture and planning schools are encouraged to submit course and/or curricular proposals. The deadline for submittals is August 1, 2016.


The 2030 Curriculum Project is made possible through the generous support of the Allen H. and Selma W. Berkman Charitable Trust. 🇺🇸

—Architecture2030

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I'm confused, at which castle will PLEA-goers party?

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**TEACH THE TEACHERS**

[Norbert Lechner wondered if the BEEnow Modules Project described below was a possible fit for Architecture 2030’s Curriculum Project. Ed Mazria advised, “Sounds like module development might be a good fit. If a faculty member or school wants to participate in the 2030 project, they should get in touch with Anthony Guida, the project organizer at Architecture 2030 <guida@architecture2030.org>.”—ed.]

**The Modules Project:** the BEEnow-Sponsored Online Continuing Education Modules for Architectural Studio Faculty

**Introduction:** To minimize the severity of climate change, architects must have the motivation, knowledge, and skills required to design buildings that use far less energy than the norm. To meet this challenge architecture schools must prepare graduates who are able and willing to design very low-energy buildings. The studio experience—the core of architectural education—plays a critical role in nurturing the skills graduates need to meet these challenges.

Teaching studio is intensive and challenging due in part to the extremely wide range of knowledge and skills required. To help studio faculty in teaching and promoting low-energy designs by their students, BEEnow will sponsor online modules that will aid studio faculty in attaining the goal of teaching low-energy building design. As an incentive, these online modules will provide studio faculty with AIA continuing education credits. If a school applies for BEEnow certification, BEEnow credits can be earned when studio faculty have taken the modules. The modules could also be used by architecture students. The BEEnow modules will form a series that is to be taken in sequence.

**Module Development:** To distribute this effort each module might be created by a different architecture school. The BEEnow Modules Committee invites interested faculty and their schools to form a consortium to determine what modules are necessary, the format of the modules, the content, and which school will develop which modules. To satisfy continuing education credits, the modules will require feedback mostly in the form of questions to ensure that learning has occurred.

The modules can be downloaded by faculty at their convenience. The modules would be prepared by faculty from a number of architecture schools and be like videos. There would be no teacher. The viewers would only receive credit by answering a sufficient number of questions correctly. If unable to answer enough questions correctly, viewers can re-take the module as many times as needed—all done automatically.

**Modules:** The proposed modules cover the following topics:

1. Introduction
2. Reducing Embodied Energy
3. Solar-Responsive Design
4. Active Solar Strategies
5. Passive Solar Space Heating
6. Shading
7. Daylighting
8. Passive Cooling

If you would like to join the organizing committee and/or if your school would like to work on a module, please contact Norbert Lechner <lechnmm@auburn.edu>.

The plan is that a consortium of schools works out the details with the help and advice from BEEnow. After the program is running, BEEnow would have no further involvement in course development. Our role would be to ascertain that faculty in a school applying for certification has passed the modules so that the school could receive credit.

—Norbert Lechner

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**OPPORTUNITIES**

**PLEA 2017**

**EDINBURGH**

**3RD - 5TH JULY**

[www.PLEA2017.net]

SBSEers, join us 2–5 July in Edinburgh for the 2017 PLEA Conference, “Design to Thrive—Foundations for the Future,” hosted by the Schools of Architecture and Architectural Engineering in Scotland with sponsorship from the Edinburgh City Council and the Scottish Government. We will start with a party in Edinburgh Castle hosted by Historic Environment Scotland. All the venues are from the “Enlightenment” period (late 18th century). Eight different fora aim for the type of “integration” of ideas that characterized the revolution in thinking in the city during that previous “Age of Enlightenment.” Mark the dates in your diaries. The web site goes live in early July in time for the PLEA 2016 in Los Angeles. I hope to see you there and here!

—Sue Roaf
SBSE PEOPLE

The AIA and the ACSA jointly named Doug Kelbaugh the 2016 winner of the AIA Topaz Medallion for Excellence in Architecture Education. “Kelbaugh is the quintessential teaching architect who has, over four decades, achieved estimable success in teaching, practice, and writing, which he has ably woven together to shape a generation’s thinking about the environmental aspects of architecture.” Full story at http://www.architectmagazine.com/awards/aia-honor-awards/douglas-s-kelbaugh-wins-2016-aia-topaz-medallion_o.

Deborah Oakley has co-authored (with Robert Heller) Salvadori’s Structure in Architecture, 4th ed. She was invited by Pearson Education to update it with contemporary examples, modified text, and an entirely new graphics package. Nearly 500 new 3-D color illustrations plus over 150 photos she curated (many her own) bring the work forward to today’s students. It’s available from Amazon.

RESEARCH REPORTS

CARE HOMES FIT FOR A WARMING CLIMATE

A recent research study funded by Joseph Rowntree Foundation in the UK, has found that summertime overheating in care facilities is both a current and future risk, yet there is little awareness or preparation to prevent these health risks posed to the UK’s aging population. The study led by Rajat Gupta, Director of the Low Carbon Building Group of the Oxford Institute for Sustainable Development at Oxford Brookes University, investigated heat as a significant health risk for the UK’s aging populations.

Researchers from Oxford Brookes University, University of Manchester, and Lancaster University reviewed existing evidence and investigated four care settings (two residential and two extra care) in England from January 2015 to April 2016. The prevalent perception throughout the care sector was that older people feel the cold, and while cold weather still poses a greater health risk, there was less recognition that summer heat also presents a significant risk. As a result, the design, commissioning, and management of care schemes have focused on providing warmth. Overheating is likely to be exacerbated over time due to a warming climate, yet there is little implementation of long-term strategies to allow care homes to adapt to the increasing heat.

The study also found that the lack of standardized overheating criteria across the built environment and health sectors is causing confusion. It is hindering the development of long-term strategies to combat heat-related illness and death in care homes. A number of design and management issues were found to be responsible for this, including confusion among care home staff about how to work heating and ventilation systems as well as confusion over whose responsibility it was to control the heating. Most important, design solutions that address overheating in care settings were not commonplace.

The report also found that there is no statutory maximum internal temperature for care schemes. The sector has guidance on outdoor threshold temperatures at which heat-related death may increase, but there is a lack of guidance for indoor temperatures at which overheating occurs and the levels of associated health risks. Although the building sector has several overheating measures, these focus on comfort rather than health risk.

All the care managers who were interviewed as part of the study were aware of the Public Health England Heatwave Plan which offers guidance on how to prepare for and respond to a heat wave, however awareness among frontline staff was lower.

The study recommends that designers, development teams, and care home managers and staff all need to recognize that excessive heat as well as cold can be health risks. It also recommends enhanced regulations, standards, and guidance from key national health and care bodies as well as central government. The findings of the study have been used in the forthcoming National Climate Change Risk Assessment 2017. The full report can be found at https://www.jrf.org.uk/report/care-provision-fit-future-climate> and supplementary case study reports are available at <http://architecture.brookes.ac.uk/research/lowcarbonbuilding/>.

For further information, please contact Rajat Gupta, Oxford Brookes University, <rgupta@brookes.ac.uk>.

—Rajat Gupta
**GO VIRAL**

The Editorial Board announces the launch of *Technology | Architecture + Design (TAD)* and the Call for Papers for its inaugural issue—VIRAL. We believe this publication is of value to your students and colleagues as an excellent vehicle for disseminating their contributions and innovations. We ask that you share this invitation widely.

*Technology | Architecture + Design* is a peer-reviewed international journal dedicated to the advancement of scholarship in the field of building technology, with a particular focus on its translation, integration, and effect on architecture and design. *TAD* solicits, captures, and shares new knowledge in how we think, make, and use technology within the building arts. Published articles feature primary research in emerging materials, construction techniques, design integration, structures, building systems, energy, environmental design, information technology, digital fabrication, sustainability and resiliency, project delivery, the history and theory of technology, and building technology education. Aimed at researchers, educators, and practitioners, the journal advances and transforms the current discourse on building-based technologies with the goal of expanding, reimagining, and challenging its role for architecture and design.

We invite you to submit your research for consideration for the first volume of *TAD*. Paper submissions are due Sep 1, 2016. Download the Call for Papers at [http://tadjournal.org/documents/TAD_ViralCIP_final.pdf](http://tadjournal.org/documents/TAD_ViralCIP_final.pdf). Contact us with questions at editors@tadjournal.org and visit [http://www.TADjournal.org](http://www.TADjournal.org). If you would like to serve as a paper reviewer, please sign up on our database [http://tad-journal.org/ Volunteer.htm](http://tad-journal.org/ Volunteer.htm).

**ISSUE 1.0: VIRAL: Information Technology as Prophet, Panacea, or Pariah?**

According to Kevin Kelly, founding member of *Wired*, technology is ubiquitous, ever-present, and our destiny. Smart materials, performance sensors, crowd sourcing, cloud computing, robotics, and drones are but a few of the emerging technologies vastly transforming the way in which buildings are designed and experienced. Yet the role these technologies play in shaping architecture is rarely at the center of architectural thinking, criticism, or design. Most architects remain uninterested, incapable, or reluctant to address the proliferation of data-based, digitally-centered, and smart technologies that affect the allied fields of construction, engineering, material science, and product design. Most recently, architect Rem Koolhaas has suggested the possible presence of a nefarious relationship between architecture and electronic/smart technologies, stating, “There is a potentially sinister dimension to … being surrounded by a house full of sensors that can follow you on the moment of entry to the moment you set your bedroom temperature, to the moment you set your likely return to your house.” Is this seeming aversion to sensors and data points similar to that of nineteenth-century architects who failed to consider or acknowledge how the impact of emerging industrialized technologies of cast iron, glass, and steel were destined to redefine architecture? It was fifty years before architects would embrace the potential of ferrous metals and sheets of plate glass in service to design—only after historian Siegfried Giedion conceptualized their potential. At the end of the twentieth century, we remained incapable of recognizing the effect artificial environmental systems, such as air-conditioning, had on design.

VIRAL—the inaugural call for papers for *Technology | Architecture + Design*—is timely in asking whether architecture is once again on the threshold of significant changes in the material, technical, and procedural context of design. In the twenty-first century information technologies are transforming how buildings are designed, constructed, delivered, occupied, and assessed. Yet to what extent are architects, and those who educate them, actively involved in articulating a path for such technologies within their work—be it in their research, scholarship, or design? Alternatively to what extent are architectural educators cautious, resistant, or critical of this highly speculative engagement with barely recognizable or material forms of technology?

*TAD* seeks contributions from those who research, test, and create using these emerging technologies and who seek to articulate and theorize the effects which they will have on the built environment. The journal seeks articles that feature primary research in information technologies and their influence on materials, construction, structures, building systems, energy studies, environmental design, sustainability and resiliency, project delivery, and practice-based innovations. Papers should advance scholarship with a focus on the influence, translation, and integration of technology in architecture and design.

---Franca Trubiano

---Richard Lorch
Oxford Ecohouse: The 1990s Solar Dream

The Oxford Ecohouse was designed as a pioneering British ecohouse in north Oxford and is best known for having the first solar roof in Britain. Occupied from April 1995, it was built with an integrated roof including a 4kWp of BP Solar array of Saturn 585 photovoltaic panels, 5m² of AES Solar hot water panels, and 2 Velux roof lights integrated into the single south-facing roof. A full description of the house can be seen in Roaf, Fuentes, and Thomas, Ecohouse: A Design Guide, 4th edition, Earthscan, 2012.

The solar panels are all still generating electricity and hot water despite having had no maintenance over their lifetime save for one pump replacement for the hot water system. In 1995 the integrated solar roof cost around £28,000 including £18,000 for the at-cost PV panels, the cost of manufacturing the novel aluminum support system, and the bulk of the related systems in use. The PV system then had a 66-year payback. Today similar PV systems with feed-in tariff support on nearby homes have a payback of around 10 years. A one to one million solar roof party was held at the Oxford Ecohouse on 7 July 2015, to celebrate the fact that there are now over a million solar roofs in the UK, twenty years after this first one.

The 21st century solar dream must be to have homes that rely almost 100% on the energy they can harvest from their own sites. On the 23 May 2016, a Sunny Boy 3600/5000 Smart Energy system was installed in the Ecohouse, combining the PV inverter with battery storage. It fit easily into the existing electrical system. With an effective capacity of 2 kWh of battery storage it is now possible to use our own solar energy around the clock. The SMA wall-mountable PV inverter with its lithium-ion battery provides the means to live in an energy-independent house.

But it is not only the technology that matters. The integrated Webconnect function provides worldwide access to view daily consumption and yield data via Sunny Portal so I can persuade my lodger to charge his electric bicycle during the day—not at night, but I don’t think I can persuade him to forgo ironing his shirt before work! I was amazed that the 21-year-old PV array is still producing over 12 kWh a day in May! By tweaking our lifestyles in the house, we can truly become a near-zero-energy home. See for yourself in the figures below.

—Sue Roaf

RESEARCH CORNER

Umberto Berardi has published “A cross-country comparison of the building energy consumptions and their trends,” that is accessible at <https://www.researchgate.net/publication/299425661_A_cross-country_comparison_of_the_building_energy_consumptions_and_their_trends>.

The paper presents and discusses data taken from several studies about building energy consumption in the U.S., the EU, and BRIC (Brazil, Russia, India, and China) and provides an updated inventory of relevant figures. Comparisons among countries are used to show historical, actual, and future energy consumption trends.

The paper shows that total building energy consumption in BRIC has already surpassed that in developed countries, and the continuous increase in the building stock of BRIC creates an urgency for promoting building energy efficiency policies in these countries. At the same time, policies actually adopted in developed countries are insufficient to guarantee a significant reduction in their building energy consumption in the years to come. Given the current scenario, a doubling of global energy demand in buildings compared to today’s levels will occur by 2050. To avoid this forecast, cost-effective best practices and technologies as well as behavioral and lifestyle changes need to be promulgated and accepted globally.

—Umberto Berardi

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—Umberto Berardi
A FESTSCHRIFT FOR G. Z. “CHARLIE” BROWN

A “Festschrift” in honor of G. Z. “Charlie” Brown was celebrated at University of Oregon’s Lillis Hall on Saturday, May 14. The lecture hall is daylighted and naturally ventilated, thanks to design assistance from Charlie and his Energy Studies in Buildings Lab. A full day of presentations featured the works by a variety of his collaborators during his 40-year career in Eugene.

While the Festschrift honors one person, it is a compilation of the works of others. Charlie requested that talks be about his collaborators’ work, not about him. Well, how could we not talk about Charlie?

After opening remarks (including those by Charlie’s successor at ESBL, Kevin Van Den Wymelenberg), Ron Kellett (UBC) moderated an Educators’ Panel including UO faculty Virginia Cartwright, Alison Kwok, and Kevin Nute as well as UO alum Susan Ubbelohde (Cal Berkeley). Walter Grondzik (Ball State) then summarized as the Respondent.

[The educators’ panel was terrific with Ron Kellett moderating with clever transitional slides between presentations by Ginger, Susan, Alison, and Kevin. Walter masterfully connected the dots at the end and fielded audience comments.—Alison Kwok]

Next was an Architects’ Panel, moderated by UO alum Kent Duffy of SRG in Portland. Also presenting were UO alum Lisa Petterson (at SRG as well) and Mike Pyatok of Oakland. Respondent was John Rowell (UO alum and Principal at Rowell Brokaw Architects, Eugene).

The afternoon began with an Interdisciplinary Collaborators’ Panel, moderated by Mike Hatten, an exceptionally creative mechanical engineer in Eugene. He was joined by architect and UW retired professor Joel Loveland; Paul Schwer, M.E. of Portland; and Jessica Green of UO’s biology faculty. Nancy Cheng (UO) was Respondent.

Mid afternoon was the Students’ Panel, moderated by Ph.D. candidate Gwynne Mhuireach, and including UO alums Brook Muller (now interim Dean), Chris Chatto (now at ZGF Portland), and Jeff Kline (ESBL). Esther Hagenlocher (UO) was Respondent.

Closing remarks came from Chris Luebkeman of ARUP San Francisco (former UO faculty), and John Reynolds (UO emeritus).

Then a lineup of many of Charlie’s collaborators stretched across the front of the lecture hall [and virtually worldwide as Charlie is SBSE’s co-founder with Ed Arens!—ed.], and a rousing reception was enjoyed by all! 🎉

—John Reynolds

PUBLISHING OPS

ER&SS

The guest editors are delighted to announce a call for papers for a special issue of the Elsevier journal *Energy Research and Social Science* on storytelling and narratives in energy and climate change research <http://www.journals.elsevier.com/energy-research-and-social-science/call-for-papers/narratives-and-storytelling-in-energy-and-climate-change-research>.

With your contributions, we hope to cultivate a coherent structure for understanding, interpreting, and applying stories within energy and climate change research and policy by (1) presenting a breadth of analytical approaches to stories and storytelling, and (2) showcasing projects that feature stories or their performance in the energy and climate change fields.

Co-guest-editors Katy Janda, Mithra Moezzi and Sea Rotmann hope you will be inspired to contribute to this special issue. More information on the call and submissions is available at the link above. Abstracts are due 30 June 2016. Please circulate widely so that we can reach a broad range of interested parties.

—Katy Janda

P.S. If you’re wondering how “story-telling” fits into research on the built environment, one view on the topic is available in the 2015 *Building Research & Information* article “Telling Tales” co-written by Katy Janda and Marina Topouzi. Other views are welcome and encouraged!

JAE

Call for submissions: you are encouraged to submit to JAE 71:1 special issue, *Production*. Submissions are due August 1. <http://www.jaeonline.org/pages/production#/page1/> 🖥

—Ryan Smith

California Academy of Sciences preview for Retreat tour-goers: PV-shaded entry, Beneath one of the domes (hills), and view from the accessible roof to the DeYoung Museum.
MORE SF MOMA

Yikes! Now Botta’s formerly multi-story stairway stops at the second floor!

A LIVING LABORATORY FOR RESILIENT DESIGN

California Polytechnic State University in San Luis Obispo is one of the newest members of the National Resilience Initiative (NRI), a nationwide network of resilient design studios under the umbrella of the American Institute of Architects Foundation. Cal Poly faculty Margot MacDonald (architecture) and William Siemieda (city and regional planning) are leading the curriculum and resiliency initiatives that can be implemented to create an improved national approach to counterbalance the risks inherent to natural disasters.


---AIAArchitect

SBSE CALENDAR

2016

Jun 15-18 EAAE/ARCC 2016/Lisbon, Portugal
Jul 11-13 PLEA2016/Los Angeles, CA, USA
Jul 11 SBSE Annual Meeting at PLEA/Los Angeles, CA, USA
Jul 18-21 SBSE Retreat/San Francisco, CA, USA
Aug 30-Sep 2 Sustainable Futures Conf/Nairobi, Kenya
Sep 3-4 AEF Symposium/Johannesburg, South Africa
Sep 19-20 SBE16 Toronto/Toronto, Canada
Oct 10-11 Façade Tectonics Conf/Los Angeles, CA, USA
Oct 12-14 Getting to Zero National Forum/Denver, CO, USA

2017

Jul 3-5 PLEA2017/Edinburgh, Scotland, UK

FALL ISSUE SUBMITTAL DEADLINE—SEPTEMBER 1