SBSE Retreat 2016: Update

Mark your calendars for July 18–21, 2016 in San Francisco, California! Our annual curriculum development retreat: Design for Zero Energy, Water, and Waste <http://sbse.org/retreat2016/Retreat2016Home.htm> will address questions such as: How are we addressing these issues in design education? What can we do to assert a great environmental priority for water and energy use in buildings in our own regions? Learn about best practices and new research from invited practitioners and policy makers in California. Our schedule <http://sbse.org/retreat2016/schedule%202016.htm> will also provide a rich program of activities presented by SBSEers that will include information on the latest design tools, innovative exercises, interdisciplinary perspectives for studios and seminars, and lots of time to network with each other and explore nearby buildings and galleries. An all-day, optional post-retreat architecture tour will be posted soon. We’ll visit notable exemplars of green architecture (via public transportation). Registration will open soon!


The retreat will be held at the Pacific Energy Center, 851 Howard Street.

Find your accommodations early—it’s high season for conventions! A limited number of reservations can be made now with at the Mosser Hotel <http://sbse.org/retreat2016/getting_there.htm>. Remember to stay for the post-retreat tour day if you are so inclined.

Questions? Please contact the program team or me, <akwok@uoregon.edu>.

—Alison Kwok

SBSE Election Results

We’re pleased to announce that Ulrike Passe has been unanimously elected SBSE President-Elect and Alex Rempel has been unanimously re-elected Secretary/Treasurer. Congratulations to Ulrike and Alex!

With the election results in, Alfredo Fernández-González is now SBSE president, while Pablo LaRoche becomes past-president. 

Many thanks to Ihab Elzeyadi for his six years of service in the SBSE presidential track!
LETTERS TO THE EDITOR

Once again, very nice work on the SBSE News. How many years now have you provided this service??

—John Reynolds, Oregon

[Archived issues on our web site go back to 1995, but I think I’ve been doing the News since 1992, inspired by Fuller Moore’s editorship of the DNNA newsletter. Hey, I can do that! Who’s next?—ed.] 🌿

THE BEEnow LINE

HOW CAN YOU FIGHT CLIMATE CHANGE?

With the best of intentions architects have designed buildings that use far too much energy in large part due to their professional training and education. While architecture schools are gradually getting better at creating architects with the motivation, skills, and knowledge to design low-energy, low-carbon buildings, in many schools the change is neither great enough nor fast enough to meet the challenge at hand.

Join and endorse the BEEnow Certification Program for architecture schools to accelerate their critical transition so they can all produce graduates who can design buildings that dramatically reduce the factors contributing to climate change. To learn more about BEEnow, see <http://www.beenow.org>. If you choose to endorse BEEnow, fill out the Endorsement Form or contact us. If you are thinking of joining or just supporting BEEnow, contact Norbert Lechner at <info@beenow.org> for more information.

—Norbert Lechner

TEACH THE TEACHERS

As part of our effort to minimize the severity of climate change, BEEnow (Built Environment Education now) will support the creation of continuing education courses aimed at studio faculty. The goal of these continuing education courses is to help the studio faculty in teaching the design of low-energy buildings. BEEnow is looking for an architecture school(s) that would be interested in giving such online courses. These courses could carry AIA or GBCI continuing education credits, and in the future they would be part of the BEEnow certification program.

If you would like to be involved in creating these courses and/or think that your school would be interested in hosting them, contact Drake Wauters <drake@wauters.com>, chair of BEEnow.

—Norbert Lechner

URBAN SERVICES AND THE CONNECTED CITY

SBSEer Nelson Brito and his team won the “Urban Services and the Connected City” category of the 2020 Global Climate Challenge, an international universities competition organized by VINCI, a large player in the Public Private Partnerships in Europe.

“Common Efficacy” [Nelson presented his proposal for this work at the 2013 SBSE Retreat.—ed.] identifies ancient buildings’ inherent characteristics and the natural urban stakeholders—local communities, policy actors, universities, and energy service companies—a set of “win-win” opportunities to boost the energy efficiency objectives and to achieve city center rehabilitation. By providing collective responses towards energy efficiency operating and maintenance costs are reduced, efficiency are optimized, and inclusive neighborhoods and better quality of life are promoted. This community level enrolment also overcomes the fact that only informed, technically able and financially capable inhabitants, a very small number, can act consciously towards carbon emissions reduction, and that from those only a few can access the available funding.

The “Common Efficacy” video produced by VINCI, and other information, is available in the SBSE member ResearchGate <http://www.dx.doi.org/10.13140/RG.2.1.1422.4086>. In the page, press download to view the 4min, 75Mb film.

—Nelson Brito

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; Department of Architecture; University of Idaho; Moscow, ID 83844–2451; tel 208.885.6781; fax 208.885.9428; e-mail <bhaglund@uidaho.edu>. Direct membership and mailing list inquiries to Alexandra Rempel, Secretary–Treasurer; School of Architecture, Rensselaer Polytechnic Institute, 110 8th ST, Troy, NY 12180; e-mail <rempea@rpi.edu>. To join our list server or to manage your account go to <http://www.lists.uidaho.edu/mailman/listinfo/sbsc>. For full membership info and more, visit our home page <http://www.sbsc.org>.
The Low Carbon Building (LCB) Group of the Oxford Institute for Sustainable Development, Oxford Brookes University, hosted a successful conference on Building Performance Evaluation: understanding the Performance Gap, attended by nearly 90 delegates. This national conference, which was held under Oxford Brookes’ Building Better Buildings theme, was organised by Rajat Gupta in collaboration with the national Zero Carbon Hub and supported by Innovate UK, Government’s innovation agency.

A wide range of academics, practitioners, housing providers, local authorities, and industry partners attended the event, which included presentations from researchers, architects, housing providers, and end users involved in Innovate UK’s £8m national research programme on Building Performance Evaluation. Researchers shared insights from the Low Carbon Building group’s portfolio of research on building performance evaluation of domestic and non-domestic buildings, so as to highlight the latest learnings to de-mystify the performance gap between design intent and actual outcomes. Their next generation of BPE projects and initiatives were also introduced.

The conference also saw the launch of the Low Carbon Building Group’s Building Performance Evaluation research booklet, which is now available at <http://architecture.brookes.ac.uk/research/resources/lcbg-bpe-booklet-2015.pdf>.


—Rajat Gupta

UPCOMING: BUILDING INNOVATION 2016

We’re less than a month away from the one event that gathers all of the building industry players to collaborate on important industry-wide solutions. Building Innovation 2016: The National Institute of Building Sciences (NIBS) Fourth Annual Conference & Expo, January 11–15, 2016, at the Renaissance Arlington Capital View Hotel in Metro Washington, D.C., is set to coordinate the efforts of all disciplines toward achieving a resilient future. The International Association of Plumbing and Mechanical Officials (IAPMO) is the Conference’s Technical Programs Sponsor.

High-performance and resilient communities and buildings are on the horizon, but coordination and collaboration across all disciplines is required to accomplish this vision. The National Institute of Building Sciences serves as the convener of the U.S. building industry. Consistent with its Congressional establishment and its role as an authoritative source of innovative solutions for the built environment, the Institute brings together the thought leaders, the implementers, and the influencers within the industry’s vast network of voices.

—NIBS

SOCIETY NEWS

COOK SCHOLARSHIPS

SBSE has just wrapped up the third year of its administration of a grant from the Cook Trust that was used to provide scholarships to the SBSE Retreat and the annual PLEA Conference. We believe that this was a very successful program that enabled the participation in international events for a number of students and faculty who might not otherwise have been able to experience these educational opportunities.

We thus seek new support from the Cook Trust for an additional 3-year cycle of Retreat and PLEA travel scholarships. We hope that the Cook Trust will see the value in continuing its support for these scholarships and recognize SBSE’s stewardship of the scholarship programs.

In addition, we are requesting supplemental support to allow an expansion of faculty support for participation in the 2016 PLEA conference in Los Angeles.

We thank the Cook Trust for its consideration of the attached request—and for its previous support of this beneficial endeavor.

—Walter Grondzik

I just wanted to let you know that the trustees have approved SBSE’s proposal for funding for the next three years, including the one time disbursement for PLEA2016.

—Steve Chandler

2016 ANNUAL MEETING

The SBSE Board of Directors has decided that the 2016 SBSE Annual Meeting will be held at PLEA 2016 in Los Angeles July 11–13. We anticipate a large turnout of SBSEers and potential SBSEers. SBSE board members have been active in organizing and vetting submissions for the conference. Sadly, ASES has most likely decided to hold Solar 2016 (no official announcement at press time) in conjunction with Intersol, which occurs in San Francisco simultaneously with PLEA in Los Angeles.

RETREAT SUPPORT

AIA has signed on to a MOU with us to (partially) support the retreat for the next 2 years!
Larry Degelman has been named the 2015–16 Haecker Award winner. The award recognizes an individual who has made outstanding contributions to the growth of the research culture of architecture and related fields, including urban and regional planning, landscape architecture, and interior design. Read all about it at <http://www.arcc-arch.org/2015-2016-haecker-award/>.

Traci Rose Rider was selected as a 2015–16 ARCC New Researcher Award winner. The award acknowledges innovation, dedication, and leadership in architectural and environmental design research. It is offered to member institutions of ARCC to acknowledge and reward emerging figures in architectural and environmental design research who demonstrate innovation in thinking, dedication in scholarship, contribution to the academy, and leadership within architectural and environmental design research.

USC will co-host the Passive and Low Energy Architecture conference in Los Angeles from July 11–13. Marc Schiler is the Scientific (Review) Committee Chair. PLEA2015 was held in Bologna, Italy, with representation from 42 countries. This will be the first time that PLEA has been held in the USA, since its founding in 1981. [PLEA’s, not the USA’s!–ed.] It has been hosted in 30 cities across the globe. The conference will deal with Regenerative Environments at the scale of Cities, Buildings, People. See <http://PLEA2016.org>.

Daylighting scheme at the Scottish National Portrait Gallery in Edinburgh.

**Reviews**

**The Rebound Effect in Home Heating**


This is a useful, interesting, short, but complex book. It could be read by anyone interested in exploring the impact of policy on building space conditioning energy use. While the examples are largely European and heating focused, their applicability is global.

The book starts with definitions of the “rebound” and “prebound” effects; moves on to methods for estimating the rebound effect in domestic buildings; discusses the rebound effect in passive and low energy dwellings; examines the relevance to fuel poverty; looks at non-residential buildings (by far the weakest chapter), and finishes with a conclusion.

What is the “rebound effect” (also called “take back” or “claw back”)? In brief, it is when expected energy savings are not achieved following efficiency actions. To be more precise—it is when the imperfect world of people meets the perfect world of the policy-analyst, economist, or modeler.

Six reasons are discussed for the rebound effect:

- comfort-taking: e.g. instead of achieving the same temperature, the same (or even more) energy is used to achieve a higher temperature
- unplanned lifestyle changes: e.g. as more of the house is comfortable, the more of it is used
- failures at the human-technology interface: e.g. the user cannot deal with the complexity (or even labels) of the new technology
- technology miscalculations: e.g. a heat pump is used above its design load resulting in poor efficiency
- technology failures: e.g. poor insulation installation leads to greater than expected heat loss
- miscalculations in efficiency modelling: e.g. the thermal performance of the building envelope is incorrectly calculated leading to a poor savings estimate.

The prebound effect is when the building was actually using less energy than is assumed—as a result the savings may even be negative! Rebound and prebound effects at their simplest can be traced to the use of standardised before and/or after space heating energy use estimates being used to represent non-standardised reality. While inaccuracy can be reduced by using good quality data, this improvement only better quantifies the gap between the expected and actual energy use. This gap is becoming increasingly important as Governments work to reduce their national GHG emissions through energy efficiency policies, but seemingly fail to achieve their expectations. This gap can be explained, and the policies better designed, using the analyses discussed in this book.

One convention used in the book that differed from my experience was use of $\eta$ (eta) for “elasticity” and $\varepsilon$ (epsilon) for “energy efficiency.” I found the writing style less than easy to follow, but a careful reading was repaid by very useful insights.

The 144-page (including index) illustrated book is a comprehensive introduction to this effect. The appendices provide clear explanations of its underlying mathematical foundations.

—Nigel Isaacs, School of Architecture, Victoria University of Wellington, New Zealand
THE FACADE TECTONICS INSTITUTE

Facade Tectonics started as a series of invited roundtable discussions at the University of Southern California School of Architecture in 2007; a strategic response to the escalating importance and complexity of building façade technology. The roundtables grew into a series of conference events that drew hundreds of participants with a broad range of interests in the building skin. The accelerating change of façade technology and the growing awareness of the façade as not only integral to, but the very fulcrum of holistic building design, has propelled Facade Tectonics to the forefront of the emerging dialogue of building skin. The façade system uniquely combines considerations of performance and appearance; it is, quite simply, the most interesting and vital aspect of architecture and urban habitat today.

The current milestone in the evolution of Façade Tectonics is the formation of the Façade Tectonics Institute, with the mission of carrying out progressive and broad-based research in building façade technology. The intent is to catalyze and foster a deep dialogue of collaborative research activity that bridges the fragmented market segments of the building industry, pairing industry, government, academia, the profession, and ownership. Integral to this mission is the dissemination of historical, theoretical and practical information derived from this research to the building marketplace, thereby acting as a conduit for both learning and further collaborative research pursuits.

The Institute is an international member organization based at the University of Southern California School of Architecture. In addition to its research activities, the Institute conducts an annual conference, a series of half-day Forums, and similar events at venues local and regional. It publishes the Façade Tectonics Journal and produces various publications ranging from conference proceedings to technical guides, research reports, and books addressing diverse areas of building façade technology. The Institute also makes available to the public ever deepening technical resources online at <http://FacadeTectonics.org>, and the retrofit database <http://FacadeRetrofit.org>.

Visit <http://FacadeTectonics.org> to learn more about the Institute, to better understand its mission and activities, and to learn how you and your organization can participate in this dynamic enterprise.

The 2016 Façade Tectonics conference is expected to attract a global speaker group. The conference has outgrown the facilities available on campus, and the 2016 conference will be held off-site in downtown Los Angeles. The call for papers is forthcoming (blind, peer-reviewed) and we hope for a good mix of academics and practitioners. Save-the-date for October 10–11 in Los Angeles. 🌌

—Karen Kensek and Douglas Noble

OPPORTUNITY

UMASS-AMHERST

I have two graduate research assistantships to offer to students who would like to work at the nexus of building energy and water use, transportation systems, and urban planning. The research involves developing an integrated framework for analyzing urban metabolism. Students with a background in urban planning, architectural science, civil engineering, or computer science are encouraged to contact me directly. Knowledge of statistical analysis and coding is a plus. The project will be funded for five years, which is the average length for completing a Ph.D. degree (in my research group at UMass-Amherst). E-mail: <simih@eco.umass.edu>.

—Simi Hoque

WOODBURY UNIVERSITY

The School of Architecture invites applications for a one-year visiting faculty position commencing August 2016. The Visiting Faculty Position has been established to promote promising ideas and research in the fields of architecture and urbanism. Candidates are expected to use this one-year position to advance their academic and teaching interests. Visiting Faculty teach three courses per academic year: two design studios and a seminar. In addition to teaching, visiting faculty are expected to contribute to the intellectual life of the school and engage in research or creative work. This work is presented in the form of a public lecture, and an exhibition or (web or print) publication. Preference will be given to applications received by January 04, 2016.

Questions regarding the program or additional information regarding the positions should be directed to: Dr. Marc J Neveu, Chair, Los Angeles <marc.neveu@woodbury.edu>.

You might be interested in the Community Energy Study for Boston <http://web.mit.edu/sustainabledesignlab/projects/BostonEnergyModel/index.htm> created by Carlos Cerezo, Tarek Rakha and Christoph Reinhart. The Study describes the development of a Urban Building Energy Model (UBEM) that consists of 92,000 buildings and is based on the city’s official GIS data set. The vision for this work was to produce a long term policy support tool that the city can regularly update going forward, and that provides actionable information for local communities to evaluate energy related decisions. It’s all explained in a 7-minute video on the web site.

Project partners were the Boston Redevelopment Authority and MIT Lincoln Laboratory. Funding was provided by the Massachusetts Clean Energy Center.

—Carlos Cerezo, Jamie Bemis, Tarek Rakha, Christoph Reinhart

COMMUNITY ENERGY STUDY

Simulated hourly energy use in a 200x200 m grid for Boston at 5pm.

Application Requirements:
- Cover Letter
- Project Proposal (one page)
- Curriculum vitae
- 3-5 references
- Portfolio of professional and student work

A link to digital applications may be sent to: <HR@woodbury.edu>. Please do not send digital applications as an attached file.

—Simi Hoque
PLEA 2017: THE CLIMATE ENLIGHTENMENT

Please put PLEA 2017 in beautiful Edinburgh, 11—13 September 2017, into your diaries now. We can assure you it will be a wonderful “Gathering of the PLEA Clans.” Hosted on day one in the 1789 Assembly Rooms, the opening afternoon will bring you stunning presentations from around the world on what can be achieved with “joined-up thinking,” followed by a glittering reception and exhibition of the work of contemporary Scottish Architects employing the “best of the old and the best of the new.” Refurbishment will be a strong theme and the two following days will be held in the newly re-furbished Robert designed Adam College of Physicians. Landscape will figure largely, including fora ranging from place making to design for heat island mitigation. Adaptation to climate change is also a key theme and you will be able to explore many different community and regional responses in various climates. At PLEA’s heart will be fora on low carbon, resilient, and solar buildings as well as simulation and education. The conference dinner will be in the newly re-furbished Robert designed Adam College of Physicians. Landscapes will figure largely, including fora ranging from place making to design for heat island mitigation. Adaptation to climate change is also a key theme and you will be able to explore many different community and regional responses in various climates. At PLEA’s heart will be fora on low carbon, resilient, and solar buildings as well as simulation and education. The conference dinner will be in the newly re-furbished Robert designed Adam College of Physicians. Landscapes will figure largely, including fora ranging from place making to design for heat island mitigation. Adaptation to climate change is also a key theme and you will be able to explore many different community and regional responses in various climates. At PLEA’s heart will be fora on low carbon, resilient, and solar buildings as well as simulation and education. The conference dinner will be in the newly re-furbished Robert designed Adam College of Physicians.

Continuing to build on the momentum from two previous competitions, the 2016 DOE Race to Zero Student Design Competition will be held April 16–17, 2016, at the National Renewable Energy Laboratory in Golden, Colorado. The Race to Zero is a part of DOE’s Building America and Zero Energy Ready Home programs. A list of the 2015 winners is available.

This competition will help to provide the next generation of architects, engineers, construction managers, and entrepreneurs with skills and experience to start careers in clean energy and generate creative solutions to real-world problems.


THE 2016 DOE RACE TO ZERO!

The Race to Zero Student Design Competition (Race to Zero) inspires collegiate students to become the next generation of building science professionals through a design challenge for zero energy ready homes.

Registration for the 2016 competition closed on November 12, 2015, and DOE is excited to announce that 34 teams from 27 collegiate institutions have been invited to compete. Eight institutions have more than one team registered. Congratulations to the following collegiate institutions!

- Appalachian State University
- Carnegie Mellon University
- Georgia Institute of Technology
- Humboldt State University
- Illinois Institute of Technology
- Illinois State University
- Lansing Community College
- Michigan State University
- Montana State University
- Pennsylvania College of Technology
- The Pennsylvania State University
- Philadelphia University
- Prairie View A&M University
- Roger Williams University
- Ryerson University
- University of Illinois at Urbana-Champaign
- University of Miami
- University of Missouri
- University of Nebraska-Lincoln
- University of North Texas
- University of Southern California
- The University of Tennessee, Knoxville
- University of Wisconsin-Madison
- University of Wisconsin-Milwaukee
- University of Wyoming
- Virginia Polytechnic Institute and State University
- Washington University in St. Louis.

The Low Carbon Building Group (LCB) of the School of Architecture and Oxford Institute for Sustainable Development has been successful in its partnership bid to secure a major research grant worth £1 million from the European Union’s Horizon 2020 programme. The project, entitled HERON (forward-looking socio-economic research on energy efficiency in EU countries), is a 26-month research study coordinated by the University of Athens. Rajat Gupta is the Principal Investigator from Oxford Brookes University.

A total of eight academic and research organisations make up the project consortium, seven from EU member states and one from EU candidate country—Belgium, Bulgaria, Estonia, Germany, Greece, Italy, Serbia, and the UK. The Low Carbon Building Group is leader of work package 2 on mapping and assessment of social, economic, cultural, institutional, and educational barriers to implementation of energy efficiency policies in the building and transport sectors of the eight HERON partner countries, and also contributing UK-specific evidence to all other work packages. See the project web site <http://heron-project.eu/>.

For further details on the project, contact Rajat Gupta <rgupta@brookes.ac.uk>.

—Sue Roaf

THE HERON PROJECT
**BOOKS FOR AND BY SBSEERS**

**ARCHITECTURE AND SYSTEMS ECOLoGY**

“Modern buildings are both wasteful machines that can be made more efficient and instruments of the massive, metropolitan system engendered by the power of high-quality fuels. A comprehensive method of environmental design must reconcile the techniques of efficient building design with the radical urban and economic reorganization that we face. Over the coming century, we will be challenged to return to the renewable resource base of the eighteenth-century city with the knowledge, technologies, and expectations of the twenty-first-century metropolis.”

Noted. I got my review copy just as I was creating a lecture on double-glazed walls. A&SE helped me fill in historical details with a discussion beginning with Corbu’s *mur neutralisant* to Occidental Chemical in Buffalo, to Foster’s Comerzbank in Frankfurt. Immediate gratification! Thanks Professor Braham.

**DESIGN WITH CLIMATE**


This updated edition (with the original cover art!) contains four new essays that provide unique insights on issues of climate design, showing how Olgyay’s concepts work in contemporary practice. Ken Yeang, John Reynolds, Victor W. Olgyay, and Donlyn Lyndon explore bioclimatic design, eco design, and rational regionalism, while paying homage to Olgyay’s impressive groundwork and contributions to the field of architecture.

**SUSTAINABLE BUILDING DESIGN**

A twenty-first century renaissance is emerging in architecture. After a century of building designs characterized by high energy demand, low quality lighting and poor thermal comfort, the fundamental questions must be asked again: is there a better path to designing the most energy efficient, comfortable, functional and beautiful buildings for a sustainable future? While seeking solutions for the future, are there lessons to be learned from the best buildings of the past?

Sustainable Building Design explores outstanding buildings and building designs of the twenty-first century, with an emphasis on the artistry of masters of architecture who came before. By dissecting and analyzing great public buildings of the nineteenth and twenty-first centuries, materials, techniques, and methods are discovered. This book presents

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**STUFF**

I’ve recently come across a podcast dedicated to building science, done by the folks at Positive Energy in Austin: <http://www.positiveenergy.pro/building-science-podcast/>. Do give some of them a listen and comment! 🎧

—Dan Lu

**BOOKS [CONT]**

the reader with clues and suggestions that will reveal the secrets of these buildings and by doing so provides the reader with a thorough understanding of how these architectural masterpieces work.

Using photographs, drawings, sections, plans and diagrams which are painstakingly redrawn for consistency and clarity based on a wide range of documentation, Vidar Lerum compares works of architecture from the nineteenth and twenty-first centuries. The reader is presented with a careful analysis of each building, providing a compelling sourcebook of ideas for students and professional architects alike. 🎧

—Routledge

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AUTODESK AND BUILDING SCIENCE

I changed jobs within Autodesk late last year, and never sent a proper note to notify SBSE. My focus is no longer sustainable design and building performance analysis, it is company-wide learning strategy. I wanted to send this personal note to tell you what’s up.

The programs we built for building performance analysis education are still ongoing, and are being stewarded by Katy Evans <katy.evans@autodesk.com>. The Building Performance Analysis online courses are still live and relevant—and accessible via both the AU Workshop web site and the Sustainability Workshop.

Also, my colleague Stephanie Egger, who I think some of you met at the SBSE retreat last year, has also shifted roles. She’s now a product manager of our building performance analysis tools themselves, and is being a great asset to that team. You can reach her at <Stephanie.egger@autodesk.com>.

It’s been really rewarding for me to see new programs cropping up that leverage some of the work that Stephanie and I started… from a user translating our courses into Vietnamese, to Architecture 2030 using some content in their new set of online courses with AIA. (Check out AIA+2030 if you haven’t yet.)

As I wrote in the article I contributed to SBSE’s Fall 2013 newsletter, I’ve grown personally and professionally by being involved with this group. It has taught me the importance of Communities of Practice, which is a key theme of some of the work I’m doing now. If we’re successful with that work, I think we’ll be able to use Autodesk’s learning programs, communities, and software tools to have an even greater positive impact on the industries and customers we serve.

In making this career move, in some ways I’ve made the choice to jump from a Building Science community into learning and EdTech communities. I know some of you geek-out in that world, so feel free to look me up <adam.menter@autodesk.com> or <adam.menter@gmail.com>.

—Adam Menter

SBSE CALENDAR

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<td>2016</td>
<td>Mar 2–3</td>
<td>Residential Bldg Design and Construction Conf</td>
<td>State College, PA, United States</td>
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<td>Mar 22–24</td>
<td>Sustainable Energy and Environment Conf</td>
<td>Dubai, UAE</td>
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<td>Jun 16–19</td>
<td>EAAE/ARCC 2016/Lisbon, Portugal</td>
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<td>Jul 11–13</td>
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<td>SBSE Annual Meeting at PLEA/Los Angeles, CA, United States</td>
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<td>Jul 18–21</td>
<td>SBSE Retreat/San Francisco, CA, United States</td>
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<td>Aug 30–Sep 2</td>
<td>Sustainable Futures Conf/Nairobi, Kenya</td>
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<td>Sep 19–20</td>
<td>SBSE16 Toronto/Toronto, Canada</td>
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<td>Oct 10–11</td>
<td>Façade Tectonics Conf/Los Angeles, CA, United States</td>
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<td>2017</td>
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SPRING ISSUE SUBMITTAL DEADLINE—MARCH 1

TO: SBSE MEMBERS & FRIENDS

PLANET-WIDE

SBSE NEWS
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Roaf Mail

Our 2 Cents

The loo is for you Mr. Footballer! Only at the The Lighthouse Centre for Design and Architecture in Glasgow.