

Activities with iiSBE participation during 2017

A GABC workshop and Energy Transition Dialogue in Berlin, March 20-24

The first event was a 1 1/2 day workshop for the *Global Alliance for Building and Construction* (GABC), a global organization that iiSBE belongs to. The purpose of the workshop was to move forward on organizational issues and formulate an action plan for the next six months. The second was a major meeting of energy experts and companies, organized by DENA, the *Deutsche Energie-Agentur*. Dena is Germany's centre of expertise for energy efficiency, renewable energy sources and intelligent energy systems and the main event attracted over 3,000 delegates over three days.

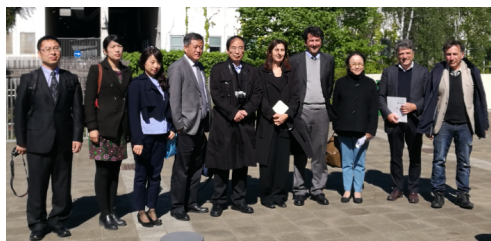


Moving towards a CO₂ Budget

Three of our academic members, Ronald Rovers, Thomas Lützkendorf and Guillaume Habert, have produced a report that addresses the question of what the implications are for the built environment to keep climate warming well below 2 degrees. The report is the beginning of a project that will collect explorations in CO₂ emissions from iiSBE members. It is not about politics, or economics, but just an exploration of the remaining the CO₂ budget (which is now below 800 Gt CO₂-e) that remains to keep us below the critical threshold of 2°C, and what can be done to prepare the built environment for a very low on-going CO₂ operational mode. For more information, contact Ronald Rovers and <r.rovers@sustainablebuilding.inf>.

MOHURD in Torino

On April 20 iiSBE Italia hosted in Torino a visit by a delegation from MOHURD (the *China Ministry of Housing and Urban Rural Development*). Andrea Moro, iiSBE's regional director for Europe and head of iiSBE Italia, introduced iiSBE and the work they are doing on the development of a generic assessment framework at urban scale.



Andrea also illustrated the software implementation of the assessment tools that iiSBE Italia carried out in the FASUDIR and NewTrend EU projects. The ministry showed interest to join iiSBE and the work group to possibly develop a Chinese urban scale assessment tool.

SBE Partners met in Paris to select a proposal for WSBE2020

The Sustainable Built Environment (SBE) series of conferences is operated by the SBE Partnership, a consortium of CIB, iiSBE, UNEP-SBCI, FIDIC and the Global Alliance for Buildings and Construction (Global ABC). At a meeting in Paris on 24 April four proposals were evaluated and one for Gothenburg, Sweden, was selected. iiSBE leads the organizational work for the series on behalf of the five partners.

The Asia Carbon Footprint Network seminar

KEITI, the *Korea Environmental Industry and Technology Institute* hosted this event with UNESCAP in Seoul on May 25th, and was organized by Mikyung Lee, an iiSBE member. The Seminar focused on the application of information on environmental performance, and how to use EPDs in building assessment schemes. One session was *EU Single Market for Green Products* initiative and the outcome of the PEF

(Product environmental footprint) and OEF (Organization environmental footprint) pilot projects from 2014 to 2017. The event also introduced the approaches taken in Asian countries such Republic of Korea, Japan and China for Low-Carbon initiatives.

About 200 people participated in the seminar including executives and staff members of the companies that have acquired certifications for carbon footprints, EPD and Green Building in Korea, as well as other interested parties and students. One of the keynote speakers was Nigel Howard, a long-time iiSBE member and EPD specialist.

The URBENERE project

iiSBE members Professors Cristina Engel de Alvarez and Luis Bragança are leading a Latin-American network on Energy Efficient Urban Communities (the acronym of the project is URBENERE) and they hosted a project meeting in Campana, Argentina, during the last week of March. One of the planned outcomes of URBENERE is the development of a method for the sustainability assessment of Energy Efficient Urban Communities.

Cristina and Luis proposed to the other members of the network that URBENERE should be developed according to the principles of SBTool. For further information about URBENERE visit <http://civil.uminho.pt/urbanere/>. Contact Cristina Engel at <engelalvarez@hotmail.com> and Luis Bragança at <braganca@civil.uminho.pt> for more information.

A small international conference in Brussels

Our member in Brussels, Bogdan Witkowski, organized a small conference called *Brussels, Sustainable City? Urban Life Under Climate Change*. The event featured several keynote speakers known to iiSBE members, including Kazuo Iwamura, Nils Larsson and Ronald Rovers, as well as several other speakers of interest, including Carlo Ratti (MIT) and Ahmed Khan (Belgium).

WSBE17 Hong Kong conference, June 5-7

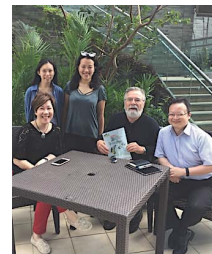
This conference was the latest global event in the SBE conference series. The series operates on a 3-year cycle and WSBE17 was preceded by 20 national events during 2016. About 1800 persons attended the conference itself, which was primarily sponsored by the HK Green Building Council. Many members or friends of iiSBE participated as speakers and/or delegates, including Thomas Lützkendorf, Joseph Li, Andrea Moro, Antonin Lupisek, Greg Foliente, Luis Bragança, Nils



Larsson, Jean Cinq-Mars, Bob Bach, Serge Salat, Mark Gorgolewski, Ray Cole and George Baird.

The conference was preceded by an iiSBE Board meeting on the 4th of June. iiSBE shared a double display booth with other SBE partners.

iiSBE organized the *Sustainable Building Challenge* at WSBE17, which is an event sponsored by iiSBE at these global events. One SBE Challenge session focused on urban area assessment and the other on building performance evaluation (BPE). The BPE work was organized by Gord Shymko and presented the results of BPE studies of 9 case study buildings that was carried out with 3 Canadian universities and was financed by a national research funding agency.



New book on sustainable urbanization by Serge Salat

Serge Salat, Loeiz Bourdic, Marco Kamiya, *Economic Foundations for Sustainable Urbanization: A Study on Three-Pronged Approach: Planned City Extensions, Legal Framework, and Municipal*

Finance, UN-Habitat and Urban Morphology and Complex Systems Institute, March 2017. The book shows the importance of obtaining parallel results in all the three prongs of urban planning, suggests a set of metrics and indicators and illustrates how these indicators affect urban productivity. This is an amended and expanded second edition.

<https://unhabitat.org/books/economic-foundations-for-sustainable-urbanization-a-study-on-three-pronged-approach-planned-city-extensions-legal-framework-and-municipal-finance/>

iiSBE's Plan B

iiSBE has released a position paper called *Plan B for rapid adaptation, GHG reduction and resilience for the built environment*, which outlines some of the major climate change issues that affect the built environment and what steps may be taken to address them. Sixteen iiSBE members and other expert colleagues contributed to the development of this paper, which was referred to as "excellent" by Christiana Figueres, former Executive Director of the UNFCCC. This paper will be continuously updated, and 3 major versions have been released so far. Three of the files are available on our website at www.iisbe.org. Please contact Nils Larsson at larsson@iisbe.org.

iiSBE XD takes part in meetings in Taiwan during early October

Nils Larsson represented iiSBE at meetings in Taipei and Kaohsiung during the week of 1-7 October. One meeting concerned a 2018 conference to be organized by the Taiwan Architecture Research Association with iiSBE as co-sponsor. iiSBE experts will also be invited to participate in pilot projects in Pingtung, the Kaohsiung region. The trip was organized by Paul Chou, iiSBE member and Associate Professor at SHU-TE University.



iiSBE Canada meeting, October 4th 2014

A team of a dozen iiSBE Canada met in Toronto to discuss progress made on several iiSBE projects in Canada and goals and other business issues and challenges. Several research projects are in various stages of completion, some facing funding issues due to lateness in disbursing grants by NSERC, a Canadian research funding government organisation. Teresa Coady gave an inspiring presentation on the trends and concerns of the building sector such as zero energy buildings, resilient cities. She emphasized the need for buildings architects to consider new information related to the comfort and health of building occupants such as the temperature of artificial light.

This issue was also addressed by an invited guest researcher who presented the importance of circadian rhythm in human beings; a timely topic as chronobiologists have just won a Nobel Prize. Jiri Skopek presented an innovative approach for evaluating risk affecting communities and cities, another timely topic in consideration of the seasonal and recurring weather related events affecting many cities around the world. The group also discussed issues and opportunities for the development of iiSBE Canada and its relationship to iiSBE international. The meeting was followed by the annual Toronto Sustainable Building Conference a well attended festival on sustainable building with a variety of interesting speakers.

SBE Partners meet in Paris to discuss SBE19 proposals and WSBE2020

The SBE partners and representatives of the WSBE17 Hong Kong and Gothenburg WSBE20 conferences, plus Ivan Cerda (Chile) and Thomas Lützkendorf (Germany) met in Paris during 11-12 October to review the 10 SBE19 proposals that have been received and also to discuss detailed plans for WSBE2020. One point of immediate interest is that the partners decided to extend the eligibility period for the conferences backward, to 1 September 2018. This was done in view of two applications for events in the Fall of 2018, and a decision that such a move would not create a problem for other events. Full meeting notes are available on request.

iiSBE was selected to lead the conference series planning and management for the 2018-20 cycle. The other participating organizations are CIB, FIDIC and UN Environment. The work will include liaison with the organizers of the Gothenburg WSBE20 event, and leading the selection of national or regional events for 2019. There will probably be 10 to 14 of these events selected.

One change in management is that Dr. Wim Bakens of CIB will be more actively involved in the series management during this cycle, in anticipation of taking over the series management in 2020.

iiSBE holds a small workshop on urban assessment in Paris

During 12-13 October iiSBE held a small workshop on urban assessment was held at the UN Environment offices in Paris. A major focus of the informal event was a presentation of the SBETool urban assessment system based on the SBTool system that has been developed for the CESBA MED program.

Activities Planned for 2017-18

The CESBA MED Project

The *Common European Sustainable Built Environment Assessment* began as an informal association of individual research groups but has now become a registered non-profit pan-European group. The CESBA group has now launched a CESBA MED project, which includes a total of 12 partners from 7 European Mediterranean countries, including Italy, France, Spain, Malta, Greece, Croatia and Austria.

CESBA is developing an assessment system suitable for use in small urban areas.

The Generic Framework is being configured according to the general structure of SBTool, organized in a "Setting" file (that allows to select the active parameters, the weights and benchmarks) and in an "Evaluation" file where indicator values are normalized and aggregated. Nils Larsson has been contracted to produce the SBETool software.

The generic framework will be used to generate, through a contextualization process, local tools. The tools will be tested on 9 urban areas located in Torino, Udine, Barcelona, Marseille, Lyon, St Cugat, Greece (city tbd), Croatia (city tbd), Malta (city tbd).

The test will be carried out in cooperation with the urban planning offices of each city. This means that the assessment tool will be really adopted by the cities to improve their urban planning activities, in policies, regulations, etc. For more information, contact Andrea Moro at <andrea.moro@iisbeitalia.org>.

iiSBE Italia to hold workshop on urban assessment in Sant Cugat in November

Andrea Moro of iiSBE Italia will lead a two-day workshop on urban assessment in Sant Cugat, Spain, in mid-November, either just before or just after the CESBA meeting. All interested iiSBE members will be invited to attend. A major focus will be the SBETool work done by iiSBE under a EU H2020 program.

iiSBE's Plan B to develop regional versions

iiSBE has completed an updated version of its position paper called *Plan B for Rapid GHG reductions and urban resilience*. We are now launching regional versions of this paper. Please contact Nils Larsson at larsson@iisbe.org.

Upcoming activities by Portugal iiSBE

- Course on "BIM-Building Information Modeling", Bragança, Portugal, September 2017
- National Conference of iiSBE Portugal, "Urban Renovation and Sustainable Construction", Lisbon, Portugal, 16-17 November 2017

Current plan for SBE18-20 conferences.

The table below shows tentative plans for SBE 18-20 conferences.

Status of SBE18-19 Conferences					22-Oct
City	Country	Month	Event name	Main sponsor	Contact
Taipei	Taiwan	14-17 Oct. 2018	Innovative Low Carbon and Green Buildings in Subtropical areas	AIT, TGBC, TISBE, WGBC National U. of Science & Technology	Cheng-Li Cheng
Eindhoven	Netherlands	November 2018	Retrofit Europe	EU H2020 MORE-Connect, Huygen Advisors, SBS Centre, Zuyd University, WEBO, BJW, Tallinn, Prague, Guimaraes universities	Ronald Rovers
Valetta	Malta	March-April 2019	Sustainable Construction & Resilience engineering in Euro Med region	University of Malta	Ruben Paul Borg
Weimar	Germany	26-29 March 2019	Next Generation Sustainable Construction : Ideas, Interests, Innovation	Bauhaus Uni, Karlsruhe IT, Federal Ministry of Environment, Federal Institute for Research on Building...	Thomas Luetzkendorf
Helsinki	Finland	May-June 2019	SBE19 Helsinki: ReCet	VTT, Aalto Uni, Tampere Uni, SITRA, Ministry of Env., GBC Finland	Teemu Vehmaskoski, Finnish Assoc. of Engineers
Prague	CZ	2-4 July 2019	Central Europe Towards Sustainable Building	iiSBE CZ, Ministry of Env., CZ GBC, EEB CZ, Centrum Passive House Centre	Petr Hajek
Milano	Italy	3-6 Sep. 2019	Resilient Built Environment for Sustainable Mediterranean Countries	PoliMi Milano, iiSBE Italia plus many orgs	Bruno Daniotti, PoliMi Milano
Graz	Austria	09-13 Sep. 2019	SBE19 Graz	ÖGNI, ÖGNB, BMVIT, klima aktiv, universities, WKO	Alexander Passer
Cardiff	UK	September 2019	Towards SBE: from Policy to Practice	Cynna Cymru, Cardiff Uni., Universities Energy Research Institute	Philip Jones
Temuco	Chile	16-18 Oct. 2019	SBE: urban planning, global problems, local policies	Uni Catolica de Temuco, Camara Chilena de la Construcción, Agencia...Cambio Climático, Ministerio de Medio Ambiente, Ministerio de Energía	Aliro Borquez Ramirez, Rector UC Temuco
Thessaloniki	Greece	23-25 Oct. 2019	SBE19 Thessaloniki	Aristotle University Technical Chamber of Greece	Katerina Tsikaloudaki, Dimitrios Bikas
Tokyo	Japan	14-15 Nov. 2019	SBE19 Tokyo: Sustainable actions for a Sustainable Future	Arch. Institute of Japan, Engineering Academy of Japan, Institute for Bldg. Env. & En. Conserv., Uni Tokyo, Waseda Uni.	Tomonari Yashiro
Sydney	Australia	28-30 Nov. 2019	To come	UNSW, Ministries	Lan Ding, Deo Prasad, Francesco Fiorito
Istanbul	Turkey	Possible		IMSAD, Universities	Aygen Erkal, IMSAD
Göteborg	Sweden	9-11 June 2020	WSBE2020	Chalmers University, RISE Research Institutes of Sweden	Holger Wallbaum, Kristina Mjörnell

Major Issues for iiSBE 2017-18

Decisions regarding Board and Executive

iiSBE has a relatively large Board (15) for such a small organization. The term for one Board member (Gord Shymko) ends this year. Our roster of Officers includes 6 people, but last Spring we added 2 Regional Director posts, Andrea Moro in Europe and Greg Foliente in Asia-Pacific. We also have Chapter heads, and it must be recognized that while some chapters are active (CZ, Italy, Malta, Portugal, Taiwan), others are not. The most active local group is in Canada, but it is not formally constituted as a Chapter. Finally, we have 6 Standing Committees, which, to my knowledge, have seldom or never met. A conclusion can be drawn that we are top-heavy.

Possible cooperation with IISD

The International Institute for Sustainable Development (IISD) is a Canadian NGO with international activities related to UNFCCC and other climate change organizations. Earlier this year, we established preliminary contact with Hank Venema, one of their senior staff, to discuss possible cooperation in areas related to the built environment. So far, nothing specific has emerged, but we will keep trying. One factor that may be relevant is that we have applied to IPCC to present our Plan B at their conference in Edmonton in March 2018. IPCC and IISD have worked together for many years, so a positive response from IPCC may help with our approach to IISD.

Participation in Global Alliance for Buildings and Construction (GABC)

We have played an active role in helping the GABC to become established and to grow, but participation is expensive due to the need for some international meetings. As part of the transition period, we need someone with appropriate credentials and interest to gradually take over Nils Larsson's role as iiSBE rep to this important international forum. Modest expense funds could be available.

Financial status

The state of iiSBE finances is, as usual, modestly positive. The attach summary of all accounts shows all the CAD, Euro and USD accounts. The two accounts for NL are used for transfers to NL based on expenses disbursed by him. The SBE conference Euro account is maintained by iiSBE on behalf of all

Account number	Account title	Current available
CAD (CANADIAN DOLLAR)		
<u>031-265138-150</u>	LARSSON NILS	2,513.31
<u>031-407021-080</u>	INTERNATIONAL INITIATIVE FOR	13,752.56
Subtotal		16,265.87
EUR (EURO)		
<u>031-265138-236</u>	LARSSON NILS	2,973.83
<u>031-407021-270</u>	INTERNATIONAL INITIATIVE FOR	2,894.17
<u>031-407021-271</u>	SBE Conferences	5,327.61
Subtotal		11,195.61
USD (US DOLLAR)		
<u>031-407021-070</u>	INTERNATIONAL INITIATIVE FOR	8,369.22
Subtotal		8,369.22

the SBE partners (CIB, iiSBE, FIDIC and UN Environment). It should be noted that no iiSBE member or staff is paid a salary, but are paid expenses.

We expect to be paid up to 15,000 Euro out of that account for the next 3-year cycle, and membership fees for 2017-18 will soon come in. The USD account was set up to handle a contract for UNEP, but that work is now over so the funds belong to iiSBE.

Memberships to iiSBE are due on 31 October: see www.iisbe.org !