

Draft Programme EEHB2020 Conference

Wednesday, May 4th 2022 Benediktbeuern Monastery

8:30 **Registration & Welcome Coffee**

9:30 **Welcome Speech** (Allianzsaal, Livestream at the Barocksaal)

Pater Lothar Bily, Monastery Benediktbeuern

Alexander Bonde, General Secretary of the German Federal Environmental Foundation
(Deutsche Bundesstiftung Umwelt DBU)

Norbert Göttler, Bezirk OBB

Moderation: **Gunnar Grün**, Deputy Director Fraunhofer IBP

10:30 **Keynotes** (Allianzsaal, Livestream at the Barocksaal)

Andrew Potts, Coordinator, Climate Heritage Network Secretariat

“The Role of the Historic Built Environment in Transformative Climate Action: Placing Energy Efficient Historic Buildings in the Climate Policy Context”

Christian Hanus, University for Continuing Education Krems

“Life cycle-based economic, ecological and energetic balancing of historic buildings under the influence of climate change”

Franziska Haas, President ICOMOS ISCES, EURAC Research

“Energy Efficiency and Heritage Protection, setting the scene in the context of current challenges and opportunities”

Moderation: **Gunnar Grün**, Deputy Director Fraunhofer IBP

12:00 **Lunch** (Klosterbräustüberl)

13:30 **Afternoon Sessions** (Session 4 - Session 5)

Session 4 From 3D to Simulation (Allianzsaal)

13:40 Fusion of laser scanning and photogrammetry data for efficient energy simulation,
Dubois; Vanhellemont; Desarnaud; de Bouw

14:00 An integrated approach for energy retrofit of built heritage through Building Information Modelling (BIM),
Thravalou; Alexandrou; Artopoulos

14:20 Hygrothermal building simulation from a 3D point cloud - the Edo-Wiemken-Monument in Jever,
Feldmann; Bichlmair; Kilian

14:40 Practical applications of urban climate simulations on the district and building level,
Winkler; Stedler

Session 5 Climate Action and Legislation (Barocksaal)

- 13:40 Does age matter? Energy use and energy performance in the Swedish residential building stock,
Donarelli; Broström
- 14:00 The Carbon Value of UKs Historic Housing Stock,
Ritson
- 14:20 Consultancy for energy renovation of historic buildings in the Alpine regions,
Haas; Exner; Haat
- 14:40 A sustainable balance? Legal aspect of energy efficiency and cultural values,
Geijer

15:15 **Coffee Break** (Allianzsaal and Barocksaal)

15:30 **Afternoon Sessions** (Session 6 - Session 7)

Session 6 From 3D to Simulation (Allianzsaal)

- 15:45 Link Historic Buildings to Cloud with Internet of Things and Digital Twins,
Zhongjun Ni; Yu Liu; Magnus Karlsson; Shaofang Gong
- 16:05 Studying the thermal behaviour of traditional flat roofs in the Mediterranean using remote and in situ sensing technologies - an innovative approach,
Cassar; Azzopardi; Galdies
- 16:25 Hygrothermal and Energy Building Simulation of the Alte Schöfflerei at Benediktbeuern,
Winkler; Kohnert; Kilian
- 16:45 Future energy performance and overheating risks in retrofitted historic buildings,
Hao; Herrera-Avellanosa; Troi

Session 7 Climate Action and Legislation; Policies and Decision Making (Barocksaal)

- 15:45 Action within the Flemish Climate Fund to reduce CO2 emission of protected buildings in Flanders,
Vernimme; de Bouw; Dubois, Vanhellemont
- 16:05 Retrofit plan for energy performance improvement of masonry historic buildings. On campus: cultural heritage building cases,
Hyun Mi Cho; Hyeonseong Yuk; Beom Yeol Yun; Sungwoong Yang; Jihee Nam; Sumin Kim
- 16:25 Low carbon heritage: residents' views from Cumbria and the English Lake District World Heritage Site,
Wise; Moncaster; Jones; Dewberry
- 16:45 Using Life Cycle Assessment to calculate carbon savings from the retention and retrofit of historic buildings,
Cox; Duffy; Nerguti

17:30 **End**

19:00 **Dinner at the Klosterbräustüberl**

21:00 **Social Event EEHB2022 at Alte Schöfflerei**
Thursday, May 5th 2022 Benediktbeuern Monastery

9:00 **Morning Sessions** (Session 8 - Session 9)

Session 8 Building - Components and Construction (Allianzsaal)

9:20 Damage-free energetic window renovation in old and listed buildings,
Bichlmair; Krus, Stiegler; Milch

9:40 Energy retrofit of historic windows in South Tyrol: solutions and tools from the ERDF-project PlanFenster,
Exner; Zeitler; Troi

10:00 Traditional and innovative materials and solutions to improve the energy efficiency of historic windows: A literature review,
Mauri; Pracchi

Session 9 Policies and Decision Making; Standards, Laws and Labels (Barocksaal)

9:20 A way forward to balance building conservation with energy conservation in heritage designated building stocks in Sweden,
Eriksson

9:40 Investigating stakeholders' opinion on energy retrofit of historic buildings, grasping their needs and experiences. An overview on the use of Retrofit Guidelines and decisional tools,
Buda

10:00 Historic buildings and energy efficiency in New Zealand: a theoretical study of a holistic refurbishment of a 1930s heritage building windows,
Paschoalin

10:30 **Coffee Break** (Allianzsaal and Barocksaal)

11:00 **Morning Sessions** (Session 10 - Session 11)

Session 10 Building - Components and Construction (Allianzsaal)

11:00 Internal insulation – a decision tool based on probabilistic simulations,
de Place Hansen; Møller; Tijsskens

11:20 Comparative investigation of different interior insulation systems applied in the "Alte Schöfflerei" and their evaluation,
Krus; Bichlmair; Kilian

11:40 Transparent internal wall insulation - Design and evaluation,
Bichlmair; Krus; Kilian

12:00 Monitoring of moisture content in solid masonry walls, a comparison between direct sampling and the use of wooden proxies,
Panico; Herrera-Avellanosa; Troi

Session 11 Standards, Laws and Labels; 20th Century Challenges (Barocksaal)

- 11:00 Launching an experimental label on both energy retrofitting and heritage preservation: early lessons,
Heberle
- 11:20 Improving the (energy) performance of (heritage) buildings (EN 16883): sensing and acting within emerging contexts and technologies,
Brito
- 11:40 "Mechanization Takes Command". Indoor Environmental control in 20th-century Historic Buildings,
Bonora; Fabbri; Favaretto; Pretelli

12:30 **Lunch** (Klosterbräustüberl)

14:00 **Afternoon Sessions** (Session 12 - Session 13)

Session 12 Building - Components and Construction (Allianzsaal)

- 14:10 Seismic Upgrade as an Opportunity for Energy Retrofitting Historic Unreinforced Masonry Buildings in New Zealand,
Besen; Boarin
- 14:30 Building stock categorization for energy retrofit of historic buildings: A literature review,
Briz Bejerano

Session 13 20th Century Challenges (Barocksaal)

- 14:10 Energy efficiency intervention in brutalist buildings: new challenges in preservation of 20th century built heritage,
Uranga; Azcona; Etxepare; Lizundia; Sagarna
- 14:30 Balancing energy efficiency and conservation aspects of Terragni's casa del fascio in Como: thermal analysis, energy modelling and intervention proposals,
Mauri; Pracchi; Busnelli

15:00 **Coffee Break** (Allianzsaal)

15:30 **Wrap Up & Closing Ceremony;**
Announcement of the next EEHB 2024 (Allianzsaal), Ralf Kilian

16:30 **End of Conference**