



İzmir, 27.04.2019

## About us

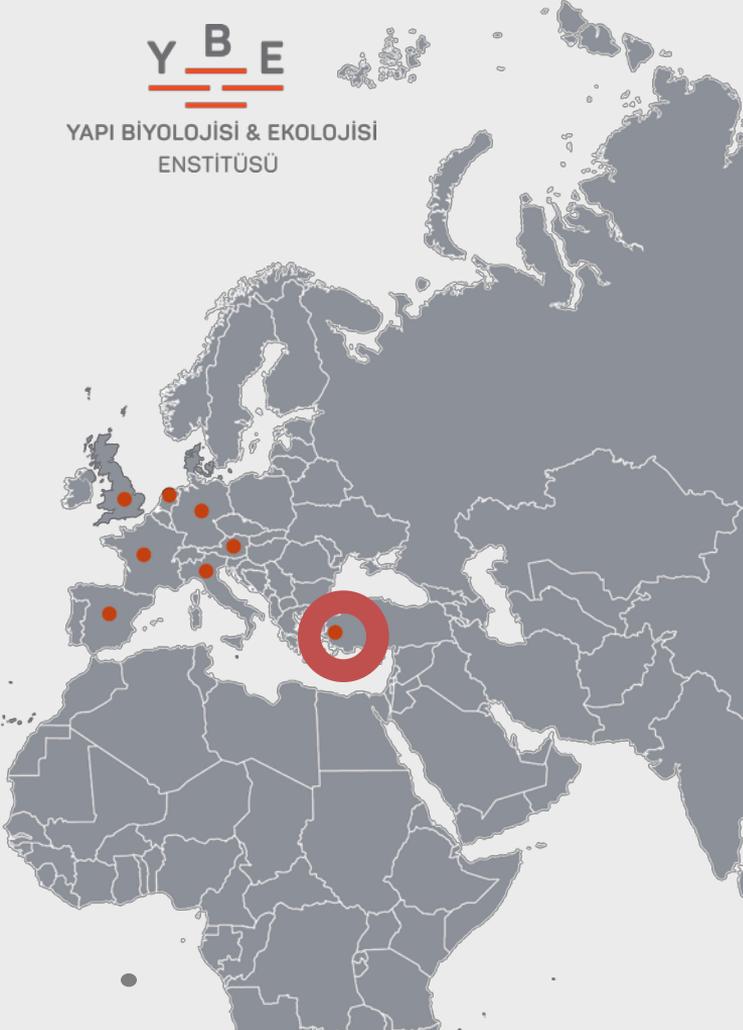
### BUILDING BIOLOGY INSTITUTES NETWORK

It is an international organization today with 8 partnering institutes located in different countries. This network is developed with the leadership of Building Biology and Sustainability Institute-IBN in Germany. IBN was founded in 1983 by Prof. Dr. Anton Schneider and built up a scientific knowledge on building biology with the contributions of several researchers and scientists and developed the building biology diploma program which has been taken by more than 7000 people over the years. IBN, with its independent approach, its publications, activities, exemplary projects, became the catalyzer for this knowhow to spread around the world.





YAPI BİYOLOJİSİ & EKOLOJİSİ  
ENSTİTÜSÜ



## BUILDING BIOLOGY & ECOLOGY INSTITUTE TURKEY- YBE

YBE was founded as a partner of IBN and German Adobe Association in 2015. YBE co-founder And Akman has a long standing work on building biology; he is one of the early adopters of the know-how, he has several analysis and experiences as building biologist, at the same time has the first doctoral thesis on the issue. Experienced team of YBE on the field of sustainability brought depth and efficiency to the work of YBE.

Until now, 1000 people from different disciplines (architects, engineers, journalists health professionals, etc.) have participated to the trainings, seminars, presentations, technical trips organized by YBE.

Applied architectural workshops designed and realized every year, had 80 participants until now.

Natural Building Material Group initiated by YBE in 2018, meets up every months and deepen its common knowledge, the group acquired 160 members in one year period.

from the events...



# building biology & ecology approach

ecological balance

human health

socio-economic  
sustainability

well being

# International Building Biology Forum

IBN holds the International Building Biology Congress every few year, the latest one was in 2018 with the participation of 300 professionals and experts.

**International Building Biology Forum is a follow-up event organized with the partnership of YBE and IBN in İzmir-Turkey.**



forum

main themes

Health effects of  
built environments

Social and ecological  
sustainability of built  
environments

Dissemination of  
healthy building  
approach

forum

main speakers

Winfried Schneider

director

Building Biology &  
Sustainability Institute  
Germany- IBN

Dr. And Akman

Co-founder – director  
Building Biology & Ecology  
Institute Turkey- YBE

Dr. Siegfried Camana

Co-founder- Honorary  
president

National Biological  
Architecture Association-  
ANAB Italy

# program content

## 1. session

### Building impacts on human health

Health effects and problematic cases originated from electrical wiring and wave lengths. Health effects of toxic gases originating from building materials. Allergens caused by building conditions. Indoor air climate (radiation, heat, humidity etc.) impact on health

### World-wild experiences

Building materials' impact on indoor air climate. Definition of building rehabilitation. It's applications and presentations on exemplary healthy buildings.

Psychological effects of built environment on human health, building design impacts on social sustainability, health literacy

### History and definition of building biology

About the building biology approach, 25 basic principles and how did works related to this field emerged from a grassroots movement. Long-term efforts and works of IBN and its recent activities. Missions and approach of YBE and its activities.

# program content

## 2. session

### Discussions on the moderation of experts

Issues, been treated shortly on the presentations, will be elaborated on the discussion groups. By means of expert moderation discussions will be participatory and interactive.

### Outputs of the discussions

On the last 1 hour of the second session, prior arguments and suggestions evaluated by the discussion groups will be presented by the representative moderators. These outputs will be recorded and later be compiled and edited so that they constitute the content of the first guidebook for a Healthy Building & Wellbeing.

# Forum-main targets

In the area of Building biology and ecology ;

- Increasing the know-how of the participants
- Obtaining enough information for a 'Healthy Building & Wellbeing' guidebook content from the output of the second session discussions
- Strengthening the interaction of the participants and stakeholders.

# participant profile

## **Building professionals**

Architects, building, environment, material, mechanical engineers, urban planners, real estate experts

## **Related public administrators and servants**

Municipality and ministry officials related to health, environment, urban development issues.

## **Health professionals**

Experts focused on public health, environmental pollution, holistic medicine, healthy lifestyles, biotechnologies.

## **Educators and researchers**

Researchers, academicians, vocational trainers on the fields related to building biology. Or any teacher interested with the field of study.

# forum outputs

The forum, having a participation of international scale and consisting mostly of professionals, experts, public officials and academicians, aims at:

The Forum is expected to become an outstanding event on ‘Sustainable Building Design and Healthy Living Spaces’ with its features as its holistic and participatory approach, scientific base, objectivity and neutrality.

The participation for 2019 event is planned to be 200 individual

The event program content will be disseminated digitally and with printed materials.

The speakers’ presentations and outputs of the second session will be compiled and edited as to constitute the content of the first periodical publication of YBE on ‘Built Environment and Wellbeing’. This digital publication will be shared with all the related stakeholders.

## healthy development stands on

Building Biology and Ecology which presents;

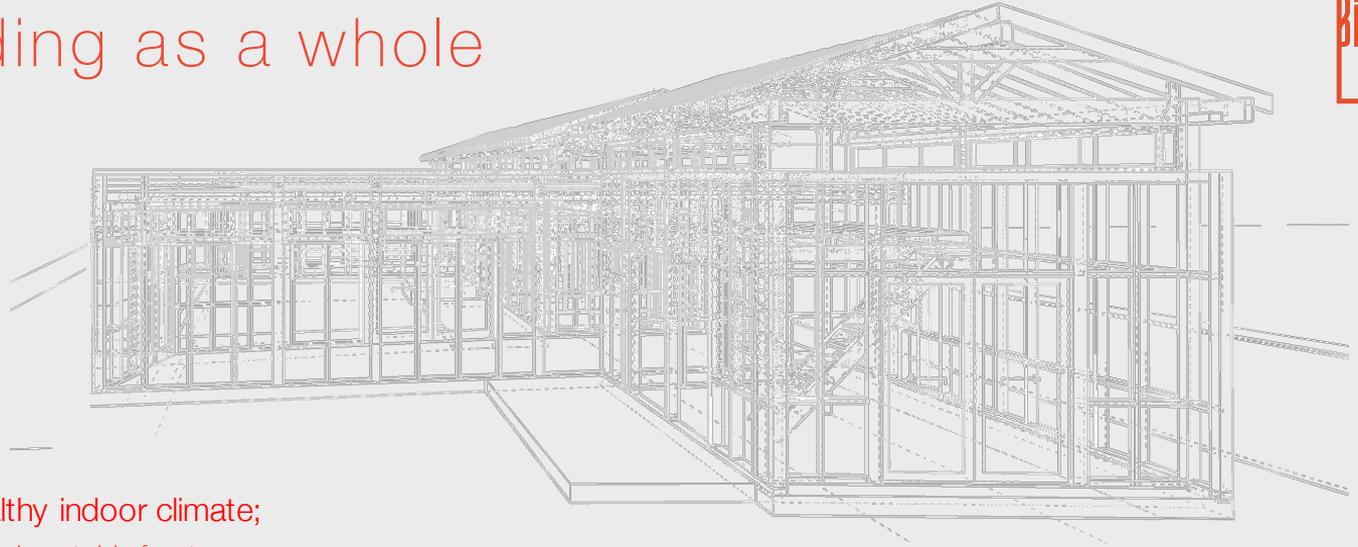
A holistic approach to building design and  
construction

A scientific, objective and interdisciplinary  
field of study

# what is building biology?

We define building biology as the study of the holistic interrelationships between humans and their living environment. It is a scientific field studying the impact of buildings and built environments on human health and environmental sustainability. Conceptually based on 25 principles, building biology in its application considers in general; sustainable building materials, acoustic insulation, human health oriented indoor climate, air quality, electric and electromagnetic fields, psychological compatibility, environmental health, energy efficiency, water cycles, geological suitability of the construction area.

# the building as a whole



**Main elements of a healthy indoor climate;**  
natural building materials, breathable fronts,  
appropriate heating systems, evenly organized and  
installed electrical wiring.

**Main elements of environmental sustainability;** right orientation  
of the building, appropriate solutions for different fronts and  
consequently to different walls of the building, preferring  
materials that are local and do not cause waste.

**Main elements of energy and resource use;** the minimum use  
of energy in construction, use and demolition phases of the  
building, decisions of the building materials according to the  
minimization of the amount, way of extraction, sustainability of  
the production process and locality.

# forum communication

Announcements on sectorial media: Magazines, printed and digital media on architecture, medicine, building and environmental engineering, sustainability...

Regular social media posts until and during the event day, so that the information reach all the related enterprises, NGO's and initiatives.

Easy access to the event information from social media and the website

An internation and national scale communication of the event

Regular posts of the event on the social pages of YBE which are followed by architects, health professionals and people interested to ecological architecture. YBE facebook page has 2000 organic follower, its instagram page has 1150 followers.

# forum space-location



## Yeşilova Mound Visitor Center

With its entrance hole, auditorium and additional meeting rooms offers a suitable basis for the Forum. The visitor center is especially valuable with its exhibition area and Neolithic village that is used for simulating and demonstrating the old structural solutions and way of living.

Yeşilova Mound is the first settlement area in İzmir region, dating back to 6500 BC. It is foreseen that the archeological excavations will change the course of history.

# forum space



# Yeşilova Mound visitor center



# forum approach

## human scale

- To draw the attention on sustainable rural development instead of urban development.
- A sustainable and human scale settlement should enable the natural ecosystem to flourish whilst the social fabric strengthen together with in situ architecture

## comprehensiveness

- While the speakers and content contributors are selected, local, national and international scales are taken into account.
- On the speaker or moderator selection, not only expertise but also social entrepreneurship is taken into account .

# forum approach

## objectivity

- To enable the evaluation of the approaches and technics of building design, used and developed from past to present, having sustainability focus.
- To enable the accessibility, sharing and transparency of information about sustainable and healthy building.

## holistic interdisciplinary

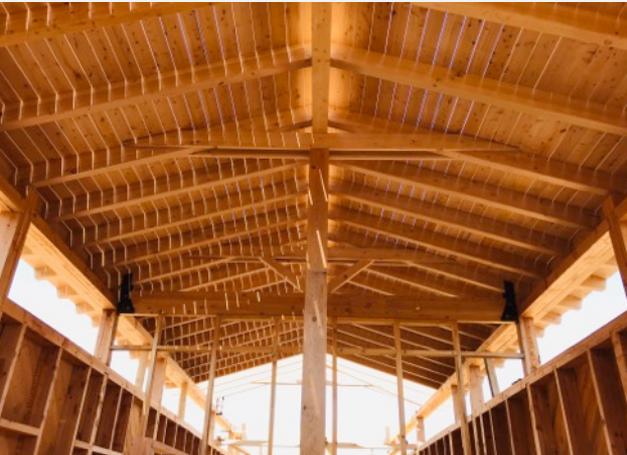
- To tackle different aspects of the working and study area
- To prepare suitable environment for integration, interactivity and cross correlated relations.
- To diversify sponsorships and bring forward those enterprises which have sustainability driven working culture, production or service line.
- To draw the attention on 're-use' throughout the event, not permitting the use of plastic cups, being careful in the amount of food served in the lunch time.

side event

technical trip

26 April 2019

A technical trip will be organized to Barbaros, Birgi and Kadırovacık villages in the district of Urla, where 5 buildings and constructions prioritizing human health and environmental sustainability will be investigated on site.



# possible stakeholders

## **MEDIA**

Related to buildings, architecture, engineering, health, design, real estate, material production, export etc.

## **PRIVATE SECTOR**

Active in production or service industry, consultancy, health management etc.

## **SCHOOLS:**

Private and state schools from kindergarden to high school level

## **LOCAL GOVERNMENTS**

Municipalities  
Governorates  
Development Agencies

## **PUBLIC SECTOR**

Health ministry  
Environmental ministry  
Energy and Education ministries

## **NGO'S & INITIATIVES**

Active in education, environment, health, building, and related fields.

## **UNIVERSITIES**

Architecture, engineering, health, biotechnologies, biochemicals and related departments.

## **ASSOCIATIONS & UNIONS**

Building, architecture, engineering, health, design, material development, export etc.

## **INTERNATIONAL ORGANIZATIONS**

UNDP, UNESCO, etc.

Thank you for your interest...



[www.yapibiyolojisi.org](http://www.yapibiyolojisi.org)

[www.baubiologie.de](http://www.baubiologie.de)