Built Environment Professionals Towards the Bio Based Design Implementation Process

The real projects will depict, how globally architects and engineers can integrate carbon neutrality into the built environment design process. It will encompass the climate-friendly resilient design and the construction process with Bamboo, its lifecycle analysis, standards & the engineered bamboo structure.

Joint Collaboration
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Introduction:
The UIA is the only international organization for the architects of the world for the last 73 years. It unites more than 100 countries with the strength of diversity & partnership from the five (5) regions, Asia & Oceania, Americas, Africa, Europe I, Europe II of the world. Since COP21, the UIA made calls to action to halt climate change. The calls acknowledge that the built environment is part of the problem and besides the environmental conservation, responsible stewardship and equitable development, we agreed to achieve “carbon neutrality” through climate friendly design in our communities, buildings and urban landscape.

Established in 1997, the International Bamboo and Rattan Organisation (INBAR) is an intergovernmental development organisation that promotes sustainable and environmental friendly development using bamboo and rattan. It is currently made up of 48 Member States. In addition to its Secretariat Headquarters in China, INBAR has five Regional Offices in Cameroon, Ecuador, Ethiopia, Ghana and India.

The concept note:
According to the Global carbon project, in the coming years the output from fossil fuel will grow by 2.7%. Simultaneously, we have to reduce green house gas 45% and reach net ZERO by 2050. The Inter Governmental panel on climate change (IPCC) indicates that, to mitigate the challenge, 100 billion USD per year needs to be mobilized in climate finance. Thus, it leads towards the ‘Time for action’ in COP 26.

The global construction sector emits almost a third of global greenhouse gas emissions and uses up to 40% of the planet’s total resources. Bamboo can contribute to climate change mitigation in two pathways: first through its forests, which act as carbon sinks. With over 35 million hectares and by its fast growing nature it can sequester and store large amounts of ecosystem carbon. Secondly, it can be converted into durable products that can lock carbon and it can be a suitable replacement for a number of emission-intensive materials such as aluminum, concrete, plastic, pvc, steel as well as unsustainable harvested timber.

UIA and INBAR join the action in partnership and proposed an Urban Day at COP26 -‘Built Environment Professionals Towards the Bio Based Design Implementation Process’. The built environment professionals from a diverse region spectrum of the world will discuss what are the means to achieve the emissions reduction milestone of 2030 and 2050, through introducing climate sensitive design solutions which could include the insertion of Bamboo into the Built-Environment. We acknowledge that designing a built environment with bio-friendly materials in the construction processes will contribute to protect our ecosystems. Likewise, it will tackle environmental pollution and boost investments in sustainable infrastructures. These are actions that would ensure an inclusive, resilient and NET ZERO urban life for the benefit of all, while conserving ecosystems, protecting biodiversity and assisting in the efforts to mitigate and adapt to climate change.

Q & A Round:
Natalie Mossin (UIA)

Conclusions and Summary
Moderator:
Ishiaque Zahir Titas (UIA)
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