

— 2024

# CPD Program

Expand your knowledge with our engaging CPD presentations on greening the urban environment



# Integrating Green Infrastructure to create Long-lasting Environmental Assets



Design, Construction and Technology. Sustainable Architecture.

Duration - 1 hour

This is our main living wall presentation which aims to provide a complete overview on the environmental benefits of installing green infrastructure. Design and installation of a living wall system. This presentation will provide information on:

## The environmental gains:

- Biodiversity,
- Air Pollution,
- Thermal properties,
- Acoustic properties,
- Biophilia.

## Environmental regulations :

- Biodiversity Net Gain, how planting affects biodiverse units delivered per ha.
- Urban Greening Factor

## Living wall construction details

### Irrigation systems

### Fire regulations

- How the Living Wall system was tested
- Breaking down what the systems rating means
- Which buildings a living wall can be applied
- What amendments can be made to the installation process.

# Biophilia, evidence-based design and integrating nature for longevity



Design, Construction and Technology.

Duration - 50 minutes

During this talk we look at the principles of biophilia and how biophilic design can affect human emotions, response to the urban environment, our attraction to certain environments and how this would affect a return on investment.

During this presentation we would discuss

The 3 pillars of biophilic design,

- Natural Analogues
- Nature of the space
- Nature in the space

How biophilic design affects our nervous system and therefore, an emotional response

Social and economic returns,

Florence Nightingale influence on architecture,

Living wall construction,

Irrigation system,

Horticultural grow lights

Fire regulations

- How the Living Wall system was tested
- Breaking down what the systems rating means
- Which buildings a living wall can be applied
- What amendments can be made to the installation process.

# Testimonials

*Having already delved into the realm of biophilic design during my Environmental & Sustainable Design course this past spring, I was interested in the opportunity to deepen my understanding of its real-world applications from seasoned professionals in the field. Attending the event exceeded my expectations, providing me with content that I found both enriching and inspiring.*

*Looking forward to gaining valuable insights at any future events.*

*Michelle Fortner*

*Miami International University of Art & Design (The Art Institutes), Miami, FL, USA*

*Thank you very much for the cpd today. I was a pleasure to meet you in person. The general feedback I have from the office was very positive and very inspiring. It would be very interesting to have more information about your other cpd's so we can plan ahead for next year. Once again thank you very much for taking the time to come to the office and for a very informative and complete cpd.*

*Maria Navarro*

*BB UK Studio*

*"ANS Global provided a very comprehensive and insightful learning session for 27 members of staff at our council, which not only covered what council's need to consider for Biodiversity Net Gain rules, but also in-depth expertise on how to best deliver a range of green infrastructure from green roofs, living walls and SuDS. This was valuable insight for how to consider both best practice within planning proposals and to within the context of delivering schemes of this nature ourselves across our estate."*

*Tom Welsh,*

*Brent Council*

# The Role of Plants in the Built Environment

Duration - 50 minutes

This presentation does not focus on one green infrastructure system. This presentation looks at the environmental benefits which planting can bring to the urban environment.

Using this information, we can then apply it to any method of urban greening, ie a living wall, a green roof or planting at street level. Within this presentation I will cover :

## **Air Quality :**

- The importance of woody species and how they sequester gases from the atmosphere.
- Knowing particulate matter and how to attenuate using selective plant species.
- Selecting the correct tree form for street planting
- The deposition and dispersion methods for attenuating particulate matter

## **Biodiversity :**

- The importance of soil
- Creating a biodiverse landscape
- Connectivity of green infrastructure

## **Thermal properties :**

- Urban Heat Island Effect
- Evapotranspiration and shading from trees at street level.
- Living wall thermal studies with Sheffield University and Plymouth University

## **Acoustic properties :**

- Information from Greenwich University in relation to a study on our living wall system

## **Biophilia :**

- The three Pillars of Biophilic design
- Social and economic return on investment
- How biophilic design affects our nervous system and therefore, an emotional response

# Incorporating Green Infrastructure to achieve BNG & UGF targets

Duration - 45 minutes

This presentation will cover how green infrastructure can be included within the built environment to host the suitable plant species to achieve the targets as set out by the Urban Greening Factor and Biodiversity Net Gain. During this presentation we will cover:

A site assessment to calculate sites baseline figures and future biodiverse units.

## **Green roof**

- Various types of green roofs,
- The installation process,
- Fire regulations,
- How plant species affects biodiversity units delivered per ha,

## **A modular Living wall system & Green wall of climbing plants and a wire trellis**

- Importance of soil
- Construction details
- Irrigation details
- How plant species affects biodiversity units delivered per ha,
- Importance of maintenance
- Fire regulations

## **Bioswales, Raingardens, & A wet grassland**

- The importance of SuDS
- How plant species affects biodiversity units delivered per ha

## **The Urban Greening Factor**

- What is the UGF?
- The points for each GI installation
- How it is calculated
- Tips when submitting to councils

# Testimonials

*Thank you, everyone really enjoyed the CPD and I got very positive feedback for organising it! I will be in touch for the other CPDs you offer, there are 1-2 more that we would be keen to have!*

*Christina Lipcheva  
Seven Architecture*

*Niall, I wanted to say a big thank you for holding your great and informative In-House CPD for at Hunters Offices today. I have had great feedback from our Professionals who attended, and they really enjoyed your CPD and your passion given to your CPD you held for us.*

*Clair Pond  
Hunters' Architects*

*Thanks for presenting a very interesting and entertaining CPD, lots to think about and agree that living walls will play a big role in the future. We just need to persuade some clients that they can get in ahead of the curve now! Hopefully we will find a suitable project soon.  
Regards*

*Chris Beveridge  
Fouin + Bell Architects*

*I've been running our CPD programme for the past six years and that was definitely one of the best we've had.*

*Thomas Forster  
Aspire defence*

*Thanks for today we all really enjoyed the CPD, and it was one the best presentations we've had.*

*Paul  
DMWR Architects*

# How and Where to Design a Living Wall to Meet Fire Regulations



Design, Construction and Technology. Sustainable Architecture.

Duration - 20mins

This is a mini presentation which we only discuss the fire regulations in relation to a modular living wall system.

**How the Living Wall system was tested**

**Breaking down what the systems rating means**

**Which buildings a living wall can be applied, & which are prohibited**

**What amendments can be made to the installation process?**

- Installation build-up
- Plant selection
- Irrigation system
- Maintenance

# Gallery



