



## **Past – Present – Future: Green Roof Techniques in Changing Times**

**Roland Appl,**

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**(Germany)**

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### **Short description of the speaker**

Roland Appl has been working as a green roof engineer for more than 20 years. He has been involved in several technical innovations (e.g. thermally insulating green roofs, green roofs and photovoltaics). He is designing green roof systems dedicated to all kind of possible applications.

### **Biographical details or background information**

The lecture begins at around the start of the 20th century when some vanguard architects, Le Corbusier in particular, discovered the advantages of (iron-)reinforced concrete enabling them to build flat roofs that could be used and landscaped. Several roof gardens from this era will be presented, some of them are still functional today and can be visited. Then a leap will be made from the green roof pioneer Friedensreich Hundertwasser to the landscaping techniques that have been developed since the beginning of the 1980s and which – though further developed and improved – basically represent the technical standard still used today. Reference will be made to a few important publications and events and the subjects occupying today's green roof industry will also be presented. Finally, examples of a whole range of forward-looking buildings that have been built over the past ten years will round off the talk.