

# GREEN ROOF NEWS



International Green Roof Association  
Global Networking for Green Roofs

Main Theme:  
5<sup>th</sup> International Green  
Roof Congress 2018

Issue 1 | 2018

## Main Theme: 5<sup>th</sup> International Green Roof Congress 2018: The Urban Oasis Experience



Dear Reader,

the special challenge of building durable Green Roofs in arid climates is to find the perfect performance of connecting the availability and scarcity of water with the limited types of plants which are able to tolerate this harsh weather conditions. Whereas Green Roofs have a long tradition in Europe, North America and Asia, the application of this important environmental technology in hot and dry climates is still in its beginning stages. There is a great need for information about the performance and benefits of Green Roofs in these extreme environmental conditions.

The 5<sup>th</sup> International Green Roof Congress from 17–18 February 2018 was the first IGRA event in the Persian Gulf region and provided a perfect platform for the launch of a successful Green Roof campaign in this geographical area. Certified Green Roof experts, designers, plant experts as well as architects, installers, landscape architects, planners, representatives of local municipal authorities and environmental agencies, investors and manufacturers shared their knowledge and answered questions in panel discussions. The congress has been a great opportunity to network with international leaders in the field of Green Roofs.

Al Shaheed Park, the congress venue in Kuwait City, consists of 310,000 m<sup>2</sup> of greenery, featuring a modern conference center, beautiful botanical gardens, museums, a miniature of old Kuwait, walkways, jogging tracks, lakes, river landscapes and an amazing musical fountain – a jewel among international urban parks. With almost 80,000 m<sup>2</sup> of Green Roofs, the Al Shaheed Park represents at the same time a prime example of how to successfully apply Green Roof technology in hot and dry climates.

Worth mentioning in any case is that Kuwait provided its international visitors an impressive weather spectacle with the first rain after months without rainfall, followed by a sandstorm.

It is my great pleasure to thank everyone who has contributed to this congress – the organizers, the speakers, the partners, sponsors and exhibitors and the entire team. And of course special thanks to the Al Diwan Al Amiri which kindly supported the 5<sup>th</sup> International Green Roof Congress in Kuwait City.



You can find more information about the Congress venue, the lectures and awarded projects on the following pages, as well as a free download link for IGRA's new publication "Green Roof Policies – Manual for Decision Makers and Green Roof Supporters", upcoming events and literature tips.

Have fun reading!

Roland Appl  
President International Green Roof Association

Title image: Al Shaheed Park Phase 2, Kuwait City  
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The International Green Roof Association is a global network for the promotion and dissemination of Green Roof topics and Green Roof technology.

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## MAIN THEME 5<sup>th</sup> International Green Roof Congress 2018 Kuwait: The Urban Oasis Experience



The 5<sup>th</sup> edition of IGRA’s prestigious congress series was held for the first time in the Persian Gulf region. On 17–18 February this event focused the challenges and benefits of Green Roofs in dry climates.

More than one-third of the world population already lives in dry climates, without considering the global metropolitan areas, which often are grappling with the same problems and referred to as “city deserts”. The performance of Green Roofs in these special environments is strongly connected to the availability and scarcity of water and the limited types of plants which are able to tolerate these harsh weather conditions – therefore the water and plantation issue became a common thread of the congress presentations and discussions.

The 5<sup>th</sup> International Green Roof Congress was held under the patronage of H. E. Sheikh Ali Jarrah Al Sabah – Minister of Al-Diwan Al-Amiri, Kuwait.

The congress venue Al Shaheed Park in Kuwait City consists of 310,000 m<sup>2</sup> of greenery. With almost 80,000 m<sup>2</sup> of Green Roofs, the largest urban park in Kuwait also represents an exemplary Green Roof project in a class of its own.

The first congress day started with guided excursions through Al Shaheed Park. The pre-congress excursions provided the delegates with a unique opportunity to experience the outstanding installations as well as allowing them to reap some insider knowledge from the developers and managers of the park.



Excursion Al Shaheed Park

During their official greetings Eng. Khaled Al Fouzan, from The Associated Engineering Partnership (TAEP), and Roland Appl, President of the International Green Roof Association (IGRA), pointed out the importance of Green Roofs and Green Buildings for sustainable and future oriented urban development. The lecture program was moderated by IGRA member Jamil Corbani, founder of the innovative company Green Studios with offices in Lebanon, Dubai, Egypt and USA.

The congress lectures provided an inspiring mixture of progressive thinkers, new technical developments, and innovative Green Roof applications in architecture, landscape architecture and climate protection. Practical Green Roof and Green Wall technology was presented, discussed and taught along with the latest achievements for Green Buildings, Green Infrastructure and municipal Green Roof strategies.



The Green Roofs of the congress center in Al Shaheed Park.  
© Joao Morgado

As a premiere, the congress showcased a pioneering compilation of Green Building initiatives in the Middle East. The unique composition by experts from the Middle East was accompanied by a selection of exceptional works from Europe and the United States.

Eng. Haifa Al Muhanna, Civil Engineer & Landscape Designer and Al Shaheed Park Supervisor (Al Diwan Al Amiri / Al Shaheed Park, Kuwait, [www.alshaheedpark.com](http://www.alshaheedpark.com)), opened the first round of lectures.



Eng. Haifa Al Muhanna, Al Diwan Al Amiri / Al Shaheed Park © KUNA

In her presentation **Al Shaheed Park – Reclaiming the Former Green Belt** she spoke about the history of the green belt and the meaning behind the name; the idea of rehabilitating the garden; the importance and benefits of applying roof gardens in hot and dry climate cities; the necessary steps for municipality approval; and how this achievement showed progress and great results in social & natural fields and in the evolution of wildlife.

Kai-Uwe Bergmann, Partner BIG (Bjarke Ingels Group, Denmark, USA, UK, [www.big.dk](http://www.big.dk)) showcased several case studies in harsh climate conditions in his lecture **Hot to Cold – The Possibilities of Adaptive Architecture** in order to examine where and how we live on our planet. One of the inspiring projects of his presentation was the new Google Campus at King's Cross in London.



Kai-Uwe Bergmann, Bjarke Ingels Group BIG

The Google Campus design takes advantage of the contextually defined building envelope while creating flowing cascading work environments that connect Googlers across multiple floors. By opening up the ground floor and activating the roofscape, the light and airy workspaces are sandwiched between the terraced gardens on the roof and market halls, auditoria and shops on the ground.



Google Campus © Hayes Davidson

Roland Appl, President of the International Green Roof Association ([www.igra-world.com](http://www.igra-world.com)), returned to stage to speak about **Green Roofs in Dry Climates – Taking up a Challenge**. The application of Green Roofs in dry climates is a challenging and important task for the Green Roof industry. The key to success is advanced planning across all disciplines, taking environmental conditions into consideration, and the selection of suitable and sustainable Green Roof systems. Project examples from all around the world were an impressive demonstration of how this challenge can be mastered.



Roland Appl, International Green Roof Association (IGRA)

Kyosuk Lee, responsible for Asian urban and landscape projects at MVRDV Netherlands, China ([www.mvrdv.com](http://www.mvrdv.com)), introduced **Seoullo 7017 – Plant Village on a Former Inner City Highway**. The pedestrianised viaduct next to Seoul's main station is the next step towards making the city, and especially the central station district, greener, friendlier and more attractive, whilst connecting all patches of green in the wider area.



Kyosuk Lee, MVRDV

50 families of plants including trees, shrubs and flowers are displayed in 645 tree pots and a total of approximately 228 species and sub-species have found their home in the park.



Seoullo 7017 © Ossip van Duivenbode

After a break Eng. Khaled Al Fouzan (TAEP, [www.taepku.com](http://www.taepku.com)) returned to stage with his lecture **Al Shaheed Park – The Urban Oasis Experience**. He outlined the construction phases of the Al Shaheed Park, the most significant Green Infrastructure project in Kuwait and, at the same time, one of the largest Green Roof projects in the world.



Eng. Khaled Al Fouzan, The Associated Engineering Partnership (TAEP). © KUNA

The joint presentation by Deborah Nevins, President of Deborah Nevins & Associates ([www.dnalandscape.com](http://www.dnalandscape.com)), and Helli Pangalou, President of elandscape H. Pangalou and Associates ([www.elandscape.gr](http://www.elandscape.gr)), **SNFCC Stavros Niarchos Park – Metamorphoses of a Topos** was about the Stavros Niarchos Foundation Cultural Center (SNFCC) in Greece. The starting point for the SNFCC's landscape design was the architectural concept of creating a hill, which enhances a new relationship between the city and the sea. A Mediterranean peak unfolds on the Park hill surface, with its own distinct ecology and structure.



Deborah Nevins, Deborah Nevins & Associates



Helli Pangalou, elandscape-H.Pangalou and Associates

The **IGRA Green Roof Leadership Awards 2018** were also presented during the lectures on day one.

The Green Roof Leadership Award honors especially exemplary Green Roof projects and initiatives in three categories: Trendsetting Architecture Projects / Municipal Green Roof Strategies / Green Roof Pioneers.

The 2018 award recipients, however, combined these categories in a very unique way.



© Joao Morgado

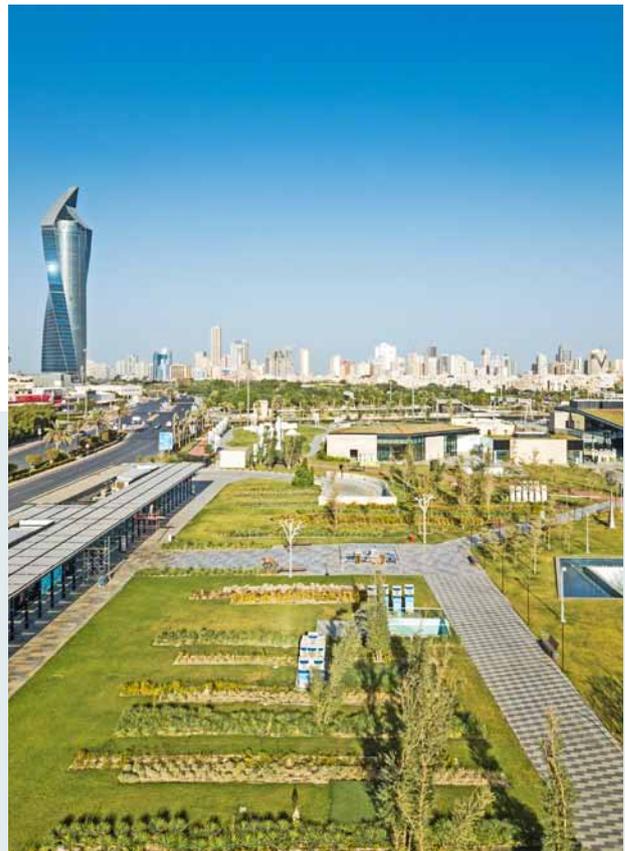
#### **Awarded project: The Al Shaheed Park in Kuwait**

The overall development of the park is taking place in four successive stages. The master plan combines cultural, social, and environmental aspects perfectly. During the first construction phase (2013–2015) almost all buildings, including the 17,000 m<sup>2</sup> ceiling of the underground car park, were fitted with roof greening. In total this is 35,000 m<sup>2</sup> of Green Roofs. In 2017 the second expansion “Phase II” was opened to the public, doubling the total Green Roof area of the park.

In total the congress venue Al Shaheed Park consists of 310,000 m<sup>2</sup> of greenery, featuring a modern conference center, beautiful botanical gardens, museums, a miniature of old Kuwait, walkways, jogging tracks, lakes, river landscapes and an amazing musical fountain. With almost 80,000 m<sup>2</sup> of Green Roofs the largest urban park in Kuwait represents a prime example of how to meet the challenges of hot and dry climates by using appropriate Green Roof systems.

And the project will continue. If the coming extensions also include Green Roofs, Al Shaheed Park could become the largest Green Roof campus in the world.

Al Shaheed Park in Kuwait is not only a new international landmark for Green Roofs, it is also a prime example for “Bringing Nature Back to Town” in an extreme environment.



© Joao Morgado

The IGRA Green Roof Leadership Awards were given to the developer and to the designer of this project.

Ms. Níaz Khaja, assistant undersecretary for engineering affairs of the Al Diwan Al Amiri, honored the event by attending the congress and, on behalf of the Al Diwan Al Amiri, she was presented with the IGRA Green Roof Leadership Award 2018 for the developer of the Al Shaheed Park in Kuwait.

The Associated Engineering Partnership (TAEP), represented by Eng. Khaled Al Fouzan, was awarded for the design of the Park.



From left to right: Roland Appl (IGRA); Níaz Khaja (Al Diwan Al Amiri); Eng. Khaled Al Fouzan (TAEP); Wolfgang Ansel (IGRA).



© Yiorgis Yerolymbos / SNF

### Awarded project: The Stavros Niarchos Foundation Cultural Center SNFCC, Athens, Greece

The Stavros Niarchos Foundation Cultural Center, designed by the Renzo Piano Building Workshop, includes the National Library of Greece, the Greek National Opera, and the creation of the 210,000 m<sup>2</sup> Stavros Niarchos Park, located on the edge of Faleron Bay in Athens, Greece. The “metamorphoses of a topos” was designed by Deborah Nevins & Associates, in collaboration with the local landscape architects elandscape-H.Pangalou and Associates, with a sustainable approach, respecting the surrounding ecosystems and landscape dynamics. The SNFCC includes 25,568 m<sup>2</sup> Green Roofs of various types. The project was awarded Leadership in Energy and Environmental Design (LEED®) certification at the Platinum level, the first for a project of this scale and complexity in Europe.

The Stavros Niarchos Foundation Cultural Center demonstrates two main aspects of Green Roofs perfectly: The potential as useable outdoor space and the aesthetic appeal.

This is why IGRA honored this pioneering project for its landscape design and development of social aspects.



© Yiorgis Yerolymbos / SNF

Deborah Nevins & Associates and elandscape-H. Pangalou and Associates received the IGRA Green Roof Leadership Award for their outstanding landscape design.

Mr. Elpidoforos Pappas, Deputy Chief Operating Officer, received the award on behalf of the owner of the SNFCC.



From left to right: Roland Appl (IGRA); Deborah Nevins (Deborah Nevins & Associates); Elpidoforos Pappas (SNFCC); Helli Pangalou (elandscape-H.Pangalou and Associates); Wolfgang Ansel (IGRA).

The conference center roof terrace offered a wonderful location for **dinner in the evening** with a breathtaking view over the park and the illuminated skyline of Kuwait. The dinner was accompanied by local live music.



**The second congress day** delivered a comprehensive overview of Green Building strategies for the Persian Gulf region, innovative technical developments, and outstanding Green Roof and Green Wall projects in dry climates.

The lecture program started with Eng. Sulaiman Alrashed from Kuwait Municipality ([www.baladia.gov.kw](http://www.baladia.gov.kw)), who presented the **4th Kuwait Master Plan 2040 – Green Buildings in Smart Cities**.



Sulaiman Alrashed, Kuwait Municipality

The 4<sup>th</sup> Kuwait Master Plan (4KMP) basically works on having a primary role in delivering the Emir's vision and the five principles which were agreed upon that all the components of the 4KMP have to meet. These principles are stability (create resilient systems and structures for long-term economic, social and physical stability), leverage (multiply effects of capital expenditures as investments in the future), respect (create value for the people, heritage and natural environment of Kuwait), feasibility (build capacity for implementation of projects, programs and processes), and wellbeing (increase prosperity, health and happiness). Another element of the 4KMP are the principles of the Kuwait Zoning Code, that is that certain forms and elements belong to certain environments.

Fida Mohammed Alhammadi (Dubai Municipality, [www.dm.gov.ae](http://www.dm.gov.ae)) introduced **AlSa'fat – The New Green Building Rating System**, which has just been launched by the Dubai Municipality. The purpose of AlSa'fat is to improve the performance of buildings in Dubai by reducing the consumption of energy, water and materials; improving public health, safety and general welfare; and enhancing the planning, design, construction and operation of buildings to create an excellent city that provides the essence of success and comfort of living.



Fida Mohammed Alhammadi, Dubai Municipality

Sheikh Soud Al Thani (Sustainability Manager, ASTAD, Qatar, [www.astad.qa](http://www.astad.qa)) presented **Doha 2032 – The Great Green Masterplan**. The concept of environmentally responsible landscape design was introduced to Qatar by quasi-private developers early in 2002. These notions espoused the use of national and regional native plant species for soft landscapes in Qatar. The Greater Doha Masterplan Framework 2032 proposes that Doha will have an extensive green belt with green linear corridors linking the heart of the city to the outskirts.



Sheikh Soud Al Thani, ASTAD

Rudi Scheuermann (Leader Global Building Envelope Design, ARUP, [www.arup.com](http://www.arup.com)) presented his recent research project **Cities Alive: Green Building Envelope Design**. The comprehensive research considers whether green building envelopes can have a special role to play in improving our cities for their inhabitants. Experts from eight Arup skill networks across the globe cross-examined these questions with a view to shaping better cities.



Rudi Scheuermann, ARUP

After the break Wolfgang Ansel (Director, IGRA, [www.igra-world.com](http://www.igra-world.com)) presented **Municipal Green Roof Strategies – An International Overview**. Green Roof Policies are one of the basic key factors for the successful development of a Green Roof market. Long-standing experiences and case studies from different countries and municipalities can be accessed in the IGRA network and are a resource of ideas that can be adapted and modified according to the needs of local Green Roof stakeholders. In order to facilitate the application of Green Roofs Policies, IGRA recently published the brochure "Green Roof Policies – Manual for Decision Makers and Green Roof Supporters" – see page 17.



Wolfgang Ansel, IGRA

The last lecture before lunch was held by Linda S. Velazquez (Founder, Greenroofs.com, [www.greenroofs.com](http://www.greenroofs.com)). Based on Greenroofs.com's yearly dynamic Top 10 List of Hot Trends in Greenroof & Greenwalls Design (since 2007), the **Top 10 Living Architecture Trends in Dry & Sub-Humid Regions** showcased the most important, newsworthy and exciting Green Roof and Green Wall projects in demanding climates. From beautiful vertical gardens in Chile, Bahrain and Kuwait to desert oases in Denver, Riyadh and Dubai, to combining living roofs and walls, energy and other green technologies, Linda Velazquez selected spectacular and eco-sensitive designs that are succeeding in harsh regions of the world.



Linda S. Velazquez, greenroofs.com

After lunch the lecture by Ralf Walker (Division Manager R & D, ZinCo GmbH, [www.zinco-greenroof.com](http://www.zinco-greenroof.com)): **Green Roofs 4.0 – Systems for Roof Utilisation for the Future** gave an overview of technical possibilities in the area of green roofing. The new Green Roof systems “Stormwater Management Roof”, “Urban Climate Roof”, “Irrigated Extensive Green Roof” and “Biodiversity Green Roof” have the potential to introduce sustainable structural changes in the area of green roofing.



Ralf Walker, Zinco GmbH

In his lecture **Green Roofs and Green Walls in Dry Climates – Practical Experiences**, Jamil Corbani (Green Studios, [www.greenstudios.net](http://www.greenstudios.net)) discussed the real challenges of implementing vertical and roof gardens in challenging climates with a focus on water consumption, keeping plant root temperature balanced to acceptable levels, and looking for best practices to transform gardens into smart responsive installation: the only way for roof gardens and green walls to populate our smart future cities.



Jamil Corbani, Green Studios

Razan Nejem (LEED® AP, USGBC® Kuwait Green Building Council, [www.kuwaitgbc.com](http://www.kuwaitgbc.com)) talked about **Green Roofs & Green Buildings**. The presentation touched on the integrative relationship between Green Roofs, Green Buildings and LEED®. She explained a set of requirements and benefits of Green Roofs, and the challenges in the Green Building market.



Razan Nejem, Kuwait Green Building Council

Patrick Blanc (PHD, Botanist, Vertical Garden Inventor, Researcher, Author, France, [www.verticalgardenpatrickblanc.com](http://www.verticalgardenpatrickblanc.com)) rounded up the lecture programme for the second congress day.



Patrick Blanc

Patrick Blanc is known for spectacular living wall projects installed all over the world. In his presentation **Vertical Gardens in Desert Climate – Indoors and Outdoors** he put special emphasis on his projects in the Middle East, e.g. in Bahrain (Muharraq Green Gate), Dubai (Sofitel Palm Jumeirah and Robinsons), Riyadh (KAFD Conference Center) and Kuwait, such as the probably longest indoor vertical garden ever created: The 360 Mall.



360 Mall, © Patrick Blanc



360 Mall, © Patrick Blanc

Developed by the Tamdeen Group and designed by architects CallisonRTKL, the 360 Mall in Kuwait is a unique luxury retail and entertainment complex. In 2009 the first hydroponic Patrick Blanc Vertical Gardens were planted in the main Atrium and Solar Garden and included four freestanding double-sided vegetated walls. In 2015 the Food Lounge underwent an extension project and a major feature is the new garden-themed court with a 10-meter high waterfall as a focal point. Planted in 2017, lush vertical gardens were added, including a 29 m-long narrow suspended blade known as the "Fountain Hanging Crown". Patrick Blanc selected over 21,500 plants representing over 101 species from around the world.

Under the moderation of Eng. Khaled Al Fouzan the **final panel discussion** with Wolfgang Ansel, Sulaiman Alrashed, Rudi Scheuermann, Jamil Corbani and Patrick Blanc dealt with the topic **Making Green Roofs Happen in the Middle East – Barriers and Challenges**.

The first IGRA event in the Persian Gulf region was hailed as a very important platform to highlight Green Roof and Green Wall topics in this geographical area. Nevertheless, further steps are paramount and must be taken. Bringing Nature back to Town is, undeniably, more difficult in dry climates. But if municipalities, planners, scientists and industry work together the challenge can be met.

You can find more information about the speakers and the program, and see more pictures, in the Gallery on the Congress website [www.greenroofworld.com](http://www.greenroofworld.com) and on the [IGRA Facebook account!](#)

The team that organized the 5<sup>th</sup> International Green Roof Congress 2018:



Roland Appl (IGRA); Eng. Marwa Marzouk (TAEP); Claudia Scharr (IGRA); Eng. Mona Maher (TAEP)



From left to right: Eng. Khaled Al Fouzan, Wolfgang Ansel, Sulaiman Alrashed, Rudi Scheuermann, Jamil Corbani and Patrick Blanc

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15–16 May 2018:

## Grey To Green Conference, Toronto, Canada



### Green Infrastructure: Jobs, Health and Community Resilience

**Grey to Green** is taking place in downtown Toronto from May 15–16 and will highlight new policy, design practices, and innovative products in the green infrastructure sector. Across Ontario the sector employs more than 150,000 designers, manufacturers, conservation officers, engineers, contractors and maintenance professionals who work on urban forests, bioswales, green roofs and walls, wetlands and more. Don't miss Toronto's most engaging green infrastructure event of the year. Learn about various types of green infrastructures and their importance in our cities.

Green infrastructure has a tremendous range of benefits to offer our communities and yet it continues to be underrepresented, underfunded and underutilized by governments around North America.

The **Grey to Green Conference** features the latest research, industry developments, and end-users to share, learn and network. Attend concurrent sessions and networking events with industry leaders, attend training courses and workshops, and participate in tours across the GTA.

<https://greytogreenconference.org/>



24–25 May 2018:

## IGIC PORTO'18 – International Green Infrastructure Conference, Porto, Portugal



The **International Green Infrastructure Conference** is an interdisciplinary conference on sustainability and nature-based solutions for cities. The conference will bring together urban planners, landscape architects, geologists, agronomists and other professionals and policy makers from different nationalities to analyze and discuss Green Infrastructure, as well as the results and conclusions of relevant research and projects in the area.

The conference will take place at Almeida Garret public library, located in the beautiful gardens of Palácio de Cristal, in the city of Porto, Portugal.

<https://igicporto.webnode.pt/>



4–6 June 2018:  
**World Green Infrastructure Congress 2018, Bengaluru, India**



Three day World Green Infrastructure Congress 2018, where the brightest minds in Green Infrastructural Research and Application discuss the evolving trends and practices in Green Building Technologies, and Urban Planning. Participate and gain access to a line-up of leading expert panelists, speakers, trainings sessions, interactive workshops, strategic networking sessions and world-class excursions to some of the Bengaluru's best green projects.

<https://www.wgicbengaluru.com/>



18–21 July 2018:  
**IFLA World Congress Singapore 2018**



Returning to Singapore for the second time, the 55<sup>th</sup> IFLA World Congress 2018 will be the largest and most significant event for landscape professionals in the world. Supported by 5 regions – Americas, Europe, Africa, Middle East and Asia Pacific, it sets the stage at the “City in a Garden” for professionals, government bodies and academics to be part of the in-depth discourse on trends, challenges, and business opportunities on a global scale. IFLA World Congress 2018 is the key platform that champions landscape architecture as a major contributor to the development of attractive, liveable, equitable, and sustainable environments of the future through the themes of Biophilic City, Smart Nation, and Future Resilience.

The Congress promises an enriching experience that will feature the most inclusive exhibition showcase involving landscaping solutions, innovations, and products in the Asia Pacific region. Participants can look forward to connecting with a comprehensive community including government bodies, business leaders, industry representatives, academics, and thought-leaders on conversations that surround potential strategic innovations to adapt to the changing environment.

<http://www.ifla2018.com/>

12–15 September 2018:  
**GaLaBau2018, Nuremberg, Germany**



**GaLaBau 2018 – The Leading International Trade Fair for Urban Green and Open Spaces**

The leading trade fair for landscaping, maintenance and construction of urban and green spaces and sports grounds, golf courses and playgrounds opens its doors for the 23<sup>rd</sup> time from 12 to 15 September 2018. It is the only exhibition to offer the entire range of products from plants to machines in one place. More than 64,000 visitors and more than 1,300 exhibitors in 13 halls underscore GaLaBau’s high standing in the booming gardening and landscaping segment.

The trade visitors are companies from the horticulture, landscape gardening and open spaces construction sectors, landscape architects as well as planners from government, state and municipal authorities. GaLaBau features exciting presentation areas, special shows and lectures.

<https://www.galabau-messe.com/en>



24–28 September 2018:  
**CitiesAlive 2018, Brooklyn**



**Green Infrastructure, Designing the Future of Resiliency**

Returning to the East Coast, CitiesAlive® Annual Green Infrastructure Conference will take place in Brooklyn, New York September 24–28. This year’s conference will profile leading edge living architecture and green infrastructure technology and strategies suited to New York’s unique characteristics and challenges through a trade show, and a variety of tours, technical sessions, and workshops. This year’s theme is Green Infrastructure, Designing the Future of Resiliency.

CitiesAlive will celebrate the region featuring content specific to the East Coast and explore the science behind green infrastructure performance, technology, and design through the lens of the different climates and cities within the region.

We invite you to discover new products and services at the CitiesAlive trade show, tour some of New York’s best green infrastructure projects, and enhance your professional practice with continuing education and networking events.



1–5 October 2018:

## 54th ISOCARP CONGRESS 2018, Bodø, Norway



On this warming planet, with its population more than 50 % urban, we urgently need cooler cities and towns. And good urban planning can help deliver them. The aim of ISOCARP's 54th Annual Congress is no small feat: the Society is calling on the best and brightest of the planning profession to come to Bodø, Norway and tell us how to save civilisation. Nothing less.

We believe the future of civilisation now more than ever depends on the way we plan and manage our cities and towns. Their role in the evolving planetary climate drama is three-fold – cities and towns are the villains; the victims, and the potential saviours.

Villains – because urban areas are the principal consumers and polluters of the tiny habitable layer on our planet we call the “biosphere”. Victims – because more than half of humanity lives in urban areas, and almost all of them are exposed to some form of climate impact. Saviours – because the possible remedies and solutions can be applied efficiently, effectively and in time, only when populations are concentrated. So the root cause of, and the solution to, the global climate crisis are fundamentally urban.

There is no alternative. On a warming planet, cooler cities are the only option.

Professor Dushko Bogunovich, Congress General Rapporteur 2018

<https://isocarp.org/2018congress/>

Now available: IGRA's New Guideline for Green Roofs

## Green Roof Policies – Manual for Decision Makers and Green Roof Supporters

Green Roofs have become a very important component of sustainable urban development within the last 30 years. Growing environmental awareness and the striking economical and ecological advantages are the driving forces for this great success. Against the background of global warming the demand for nature based solutions to climate change mitigation and adaption in urban areas has further increased.

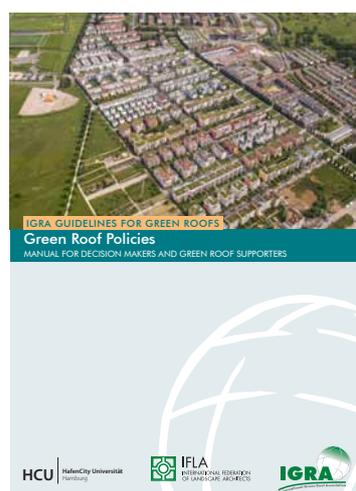
The publication "Green Roof Policies – Manual for Decision Makers and Green Roof Supporters" summarizes the content of the platform "International Green Roof City Network" and provides municipalities and all those who are interested in this topic with an international review of current practices and future trends in the field of Green Roof Policies.

The "Green Roof Policy Toolkit" gives a quick rundown on the various instruments that can be used to promote Green Roofs at the policy level. These include, for example, regulations, incentives and public relation activities. The use of the various instruments is very often assigned to different municipal departments and

should be coordinated. An important part of the brochure therefore deals with the step by step development of comprehensive municipal Green Roof strategy.

Free Download on

[http://www.igra-world.com/green\\_roof\\_literature/index.php](http://www.igra-world.com/green_roof_literature/index.php)



## ROOFTOPS – Islands in the Sky

### On top of the world: Reinventing the rooftop

As urban living intensifies in density and numbers, the city landscape expands both outwards and upwards. Architects and urban designers craft new and experimental structures while also investigating existing buildings for potential reinvention or expansion. In particular, the roof of a building, once a perfunctory structural element, is now a city space in and of itself, beloved for the capacity to eke out further room for living or to craft inspiring refuges away from the bustle of the metropolis.

This international selection of urban rooftops catalogs a new urban dimension. Through over 50 bars, restaurants, temporary art installations, and gardens, it testifies to the variety of intelligent and exuberant designs that grace city summits from Sydney to Hong Kong, Oslo to Chicago. Whether it's the panoramic views, the exposure to the elements, or a slight giddiness that comes with height, we see just how the roof has nurtured not only architectural invention but a whole new facet and thrill to city living.

Featured artists in this movement towards the skies include Pritzker Prize winners Norman Foster and Shigeru Ban, Jeffrey Inaba, Julien de Smedt (JDS), and landscape designers such as Ken Smith and Vladimir Djurovic.

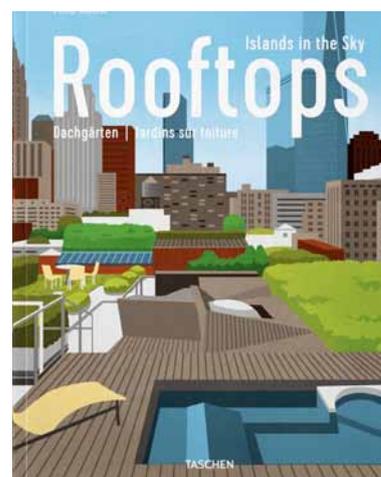
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# Global Networking for Green Roofs

## The International Green Roof Association IGRA

Green Roofs have become a very important component of sustainable urban development within the last 30 years. At present, Green Roofs can be found in nearly all big cities around the world, benefiting the urban environment and their inhabitants. In order to guarantee lasting function, Green Roofs are all based on the same principles: high quality materials, professional planning and installation, state-of-the-art technology and acknowledged guidelines.



### IGRA's targets are:

- Worldwide promotion of the ecological Green Roof idea
- International knowledge transfer in the field of Green Roofs
- Sensitisation of the population and political decision makers
- Stimulation of international standards for Green Roof technology and Green Roof policies

### IGRA's services include:

- Consultation
- Networking
- Newsletters
- Research Database
- Conferences
- Public relation material