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Hainan, China

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ARCHITECT'S CORNER Dealing with Plagiarism in Architecture



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On the Cover: Living Room & The Bar at Capella Sanya in Lingshui County, Hainan, China. Photo: © Capella Sanya

Cover design by Fawzeeah Yamin

PUBLISHER

Steven Ooi (steven.ooi@tradelinkmedia.com.sg)

ASSOCIATE PUBLISHER

Eric Ooi (eric.ooi@tradelinkmedia.com.sg)

EDITOR

Amita Natverlal (seab@tradelinkmedia.com.sg)

MARKETING MANAGER

Felix Ooi (felix.ooi@tradelinkmedia.com.sg)

HEAD OF GRAPHIC DEPT/ADVERTISEMENT CO-ORDINATOR

Fawzeeah Yamin (fawzeeah@tradelinkmedia.com.sg)

GRAPHIC DESIGNER

Siti Nur Aishah (siti@tradelinkmedia.com.sg)

CIRCULATION

Yvonne Ooi (yvonne.ooi@tradelinkmedia.com.sg)

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Trade Link Media Pte Ltd, 101 Lorong 23, Geylang,

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Tel: +65 6842-2580 Fax: +65 6842 2581

Editorial e-mail: seab@tradelinkmedia.com.sg

Website: www.tradelinkmedia.com.sg

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Hello again readers! Hope 2020 is going good for you so far. At SEAB, we found out that construction activities are still high in many parts of Asia. The opening of many new hotels late last year and early 2020 is one such example. In this issue, we bring you some of the new projects in the hospitality sector. Every hotel is uniquely designed with the comfort of the guests in mind.

Plagiarism is a problem for many professionals including architects and interior designers. In the Architect's Corner, we spoke to a few architects to find out how to achieve a balance between inspiration and originality when designing a building.

Keep reading SEAB for the latest news on architecture.

Amita Natverlal

NEXT ISSUE THEMES

- Projects – Theme Parks
- Trends – Playground Equipment
- M.E.P. Systems (refer to media kit)
- Advertorial – Drones



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Jaeger Kahlen Partner wins joint first prize at the international competition for Bao'An Bay Industrial Investment Tower

Shenzhen, China – Jaeger Kahlen Partner is one of the joint winners at the international competition for Bao'An Bay Industrial Investment Tower in Shenzhen, China. The office building is a set of shifting volumes that break the tower into a series of terraced stacked urban blocks. The design offers a distinctive landmark office experience in Shenzhen that provides state-of-the-art work environments and enhances the surrounding urban fabric with pedestrian green spaces and a new bus terminal.

The tower is located in a quickly developing neighbourhood that boasts quick access to Shenzhen Bao'An International Airport and the cities along the Pearl River Delta. Because of its convenient location, there was ample demand for new office space but an airport-imposed height restriction of 150 metres. Responding to this unique constraint, the design breaks the monolithic building mass into a series of several smaller volumes that shift in and out to integrate better the tower into the scale of the site surroundings. These shifting volumes lend the tower a visual lightness – the building unfolds in a cascade of terraces and cantilevers that create a rich dialogue with the neighbouring buildings.

Each of these smaller urban blocks becomes its own self-contained urban neighbourhood. The floors of each building volume are connected by spiral staircases, forming vertically cohesive work environments that foster collaboration and enhance productivity. The staircases are set in soaring atria carved out from the floorplates. The full-height atria visually interconnect each floor of the urban village and overlook landscaped terraces, offering signature gathering places that dissolve the distinction between interior and exterior.

These atria form the social heart of the villages. Acting as urban living rooms, they boost morale and productivity by breaking down what would be large and impersonal office building into smaller, cohesive communities where collaboration and creative thought flourish. Flooded by natural light from the terraces and framing unique vantages of the surrounding city and landscape, the atria are social hubs where all tenants can come to relax, talk with one another, or collaborate informally. They open directly onto the terraces, where sky gardens invite employees to stroll and take a break from the stress of work.

By lifting the ground lobby of the office building to the second floor and recessing the ground floor podium deep into the site, the design creates a large open public plaza on the south side



that is being shaded by the cantilever mass above. It connects with the adjacent public spaces and parks along Haixiu Road and becomes part of a continuous greenway that leads to the Bao'An Bay coastline. At the north side of the ground floor, a 3,000-square-metre bus terminal is incorporated into the podium. The bus terminal is poised to become an important transit node along Yu'An 1st Road, a major transit corridor in Bao'An district.

On this project, Jaeger Kahlen Partner worked in closed collaboration with Transsolar KlimaEngineering to develop and incorporate several practical and efficient sustainability techniques into the design which consider the working comfort of its users first.

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Atkins-designed 461m Landmark 81 named one of the World's Top 10 Skyscrapers

Singapore – The Landmark 81 building in Ho Chi Minh City, Vietnam – designed by Atkins, a member of the SNC-Lavalin – has been named as one of the world's Top 10 skyscrapers at the annual Emporis Skyscraper Awards.

The 461.2 metres, 81-storey building – which is the tallest in Vietnam – was selected by an international jury of experts from almost 500 skyscrapers around the world that have a minimum height of 100 metres and were completed in the previous calendar year. The international awards, which were first launched in 2000 by global real estate research company Emporis, recognise excellence in aesthetic and function.

Bertil de Kleynen, Atkins' Regional Director for architecture, landscape, planning and interiors in Asia, said: "It's a great honour to receive another international recognition for the iconic project. The impact of Landmark 81 goes beyond its iconic form; it creates a destination and puts the vibrant Ho Chi Minh City on the world stage and further drives Vietnam's prosperity."

Atkins' scope included architecture and landscape design. The 81-storey development – which opened to the public in April 2019 – is located in Vinhomes Central Park – one of the most prime locations in Ho Chi Minh City, Vietnam. Its frontage faces the beautiful Saigon River, and is conveniently connected via major road and water transportation. Featuring a modern and unusual architecture design that symbolises the diversity and fast-emergence of Ho Chi Minh City, this mixed-use development involves space for hotel, serviced residential apartment and retail. At the base of this skyscraper is a sumptuous shopping centre featuring the finest retailers under one roof for a top-class shopping experience. The 241,000 square metres development features contemporary landscape design that merges natural beauty into this building.



Photo: © Atkins

Crystal Lagoons partners with NexPlan to develop 30 Public Access Lagoons in Korea

Seoul, South Korea – When we think of Korea, we immediately relate it to crowded metropolises. Crystal Lagoons has recently signed one of the firm's most important contracts in the country, that entails 30 Public Access Lagoons (PAL), created and patented by the multinational innovation company.

The annual sales for the projects are estimated to be over US\$ 1.000 million and, once operational, projections indicate that these PALs alone will receive more than 30 million people on a yearly basis. The projects will be developed in several cities across the country as result of a partnership between Crystal Lagoons and NexPlan.

"PALs transform any location into the most entertaining spot in the city, and add significant value to urban environments, creating beach life on people's doorstep," explained Cristián Lehuédé, Executive Director at Crystal Lagoons.

Attractive amenities surround these monumental crystalline bodies of water, which can be accessed via ticketed entry, such as restaurants, beach clubs, retail stores, amphitheatres as well as entertainment and cultural activities, for hosting concerts, shows and film screenings, converting PALs into the meeting spot of the 21st century.

The first project in Korea will be located in Songdo

International City, on public land granted under concession. It will include a 6.8-acre crystalline lagoon and will be surrounded by restaurants, retail stores, and an amphitheater for shows, etc.

"One of the main forms of entertainment for Koreans are shopping malls. PALs will offer locals a new experience, allowing them to change their lifestyle. This is part of a growing, worldwide trend in which malls are being reconverted into open spaces and the need to offer new functional alternatives and experiences, such as these lagoons," added Lehuédé.



Render of a Crystal Lagoons PAL project. The first development in South Korea will be located in Incheon and will have a crystalline lagoon of 2.75 hectares surrounded by restaurants and commerce, among others. Photo: © Crystal Lagoons

Settle into the newly reimagined Wanderlust in Little India



Wanderlust, by 8M Collective.

Singapore – The newly reimagined Wanderlust, the latest flexible living concept from 8M Collective, is now open for bookings. Moving away from the rigid protocols and antiquated services at conventional hotels, Wanderlust is a conscientiously designed space for a new generation, welcoming all jaunts and journeys.

Retaining only the name of the original property, the new Wanderlust has undergone a complete transformation, merging old-world charm with essential modern-day comforts. Step through the adorned façade of original Peranakan tiles and feel instantly at home, entering the naturally peaceful and inviting lobby, a wonderful dichotomy to the vibrancy of the neighbourhood. Relax on the open-air terrace overlooking charming Dickson Road, taking in the bustling streets of Little India from a private oasis with a dipping pool, the perfect escape on a hot Singapore afternoon.

Just a few convenient steps from the Downtown MRT Line, Wanderlust offers the balance of being just minutes from the bustling city centre yet immersed in the historic urban montage of Little India. With a range of different room categories from spacious Lofts to comfortably appointed Studios, Wanderlust invites guests to take a break from the hectic pace of daily life and embrace the mindset of slow travel, making the lively neighbourhood a home away from home while soaking in the culture, colours and character of the multifaceted cityscape.

Changsha Hua Centre Phase II wins CTBUH Award of Excellence

Hong Kong – Aedas-designed Changsha Hua Center Phase II Project, Changsha, PRC won an Award of Excellence under the Best Tall Buildings, 100–199 Meters category at CTBUH 2020 Annual Awards. It will compete to become the overall Category Winner and Best Tall Building Worldwide at the CTBUH 2020 Tall + Urban Innovation Conference in April 2020.

Designed by Global Design Principal Dr Andy Wen, Changsha Hua Center Phase II Project is located at the intersection of Taiping Street and Pozijie Street, a most trendy destination of Changsha. Inspired by local cultural and geographical features, the iconic building form is associated with the unique landscape of Zhangjiajie, a UNESCO World Heritage site in Hunan province. The two towers are staggered and twisted to maximize natural ventilation, sunlight intake and views on each sides to the surrounding mountains, Xiang River, Orange Islet and the cityscape of Changsha.

The design also highlights public spaces at multiple levels, stylish retail and residential elements, diversified vertical transportation, office sky lobby and innovative co-working spaces. Accommodating arts and exhibitions in its culture-oriented shopping centre, the project is positioned as a pioneering cultural innovation hub and aimed to be the most cutting-edge lifestyle centre in town.



Changsha Hua Centre Phase II. Photo: © Aedas

Danfoss and NTU collaborate to lead the next-generation grid technologies in Southeast Asia

Singapore – Danfoss and Nanyang Technological University, Singapore (NTU Singapore) have joined forces to explore innovative power conversion solutions that enable next-generation energy grid technologies which leverage renewable energy sources.

For example, one project will investigate ways to seamlessly integrate power conversion technologies with existing energy storage systems (i.e. batteries), which will help analyse and optimise energy grid support functions under different scenarios.

The collaboration will also develop learning approaches for new energy-related products, and customised business models to help companies transition into using modern energy grid systems.

The various research projects will be test-bedded at NTU's Renewable Energy Integration Demonstrator Singapore (REIDS) – the university's offshore hybrid microgrid located at Semakau Landfill. Some innovations will also be trialled at the NTU Smart Campus, which is already home to various cutting-edge innovations ranging from electric and autonomous vehicles to sustainable solutions for the built environment.

The collaboration will also leverage Danfoss' strength and position in the microgrid market which revolves around alternating current drive active front-end (AFE) technology and NTU's Low Voltage Microgrid Cluster (LVMGC), which is a large-scale multi-microgrid testbed that integrates and demonstrates multiple renewable energy sources. Danfoss will also study and develop novel power conversion topologies and control systems dedicated to grid-scale 'Distributed Energy Resources' integration.

The research collaboration agreement was penned by NTU Professor Subodh Mhaisalkar, Executive Director of NTU's Energy Research Institute (ERI@N), and Mr. Soren Kvorning, Regional President of Danfoss Asia Pacific, on 10 December 2019 at NTU.

"Strategically placed power



The research collaboration agreement was penned by NTU Professor Subodh Mhaisalkar, Executive Director of NTU's Energy Research Institute (ERI@N), and Mr. Soren Kvorning, Regional President of Danfoss Asia Pacific, on 10 December 2019 at NTU. Photo: © Danfoss

conversion systems dedicated to grid-scale energy storage systems can increase operational performance and grid reliability. Interoperability gains new dimensions diversifying asset ownership. Danfoss intent to demonstrate industry-leading power conversion systems for ESS applications, explore new system approaches with existing product mix: drives and power conversion products and applications, accelerate learnings for new business models towards modern grid transitions, system integration and performance testing of power converter topologies for AC Grids, DC Grids, EV Fast Charging," explained Nazeer Syed – Strategic Business Development Manager, India and Southeast Asia, Danfoss Drives.

Professor Subodh Mhaisalkar, Executive Director of ERI@N, said, "Urban grids and microgrids will rely on grid-integrated energy storage solutions to enable high penetration of renewables without compromising

power quality and resiliency, and additionally offer ancillary services ranging from energy trading to voltage and frequency regulation thus extending the functionalities of future grid systems. NTU's partnership with Danfoss addresses this vision by exploring new system approaches to integrating power conversion technologies which are essential in smart grids that empower diverse distributed energy resources. This is an important cornerstone in modern power systems as they continue to become increasingly decentralised, integrating multiple renewable energy sources for a cleaner and greener future. This echoes NTU's drive in translational research excellence in sustainability, which aims to develop innovative and practical solutions that not only helps industries adopt and transition into novel energy grid technologies but also enable solutions to the challenges of energy affordability and energy security."

Surbana Jurong becomes first company in Singapore to attain new international building standard

Singapore – Surbana Jurong, one of the largest infrastructure and urban design consultancies based in Asia, has become the first company in Singapore to be awarded the new ISO 19650 accreditation for the digitisation of design and engineering data for buildings and civil engineering works, including building information modelling (BIM). Surbana Jurong is also the first consultancy in Asia to attain the new certification.

The accreditation, approved by the International Standards Organisation (ISO), demonstrates the group's compliance with the highest BIM modelling standards in projects. Building authorities around the world, including Singapore's Building and Construction Authority (BCA), have identified BIM as a key technology for improving productivity and integration across disciplines in the built environment value chain.

Surbana Jurong Group Chief Executive Officer Wong Heang Fine said: "Greater adoption of BIM will rapidly transform the built environment industry in the coming years. BIM creates value from the combined efforts of people, process and



Surbana Jurong Group Chief Executive Officer, Wong Heang Fine (right) with Lloyd's Register VP of Technology & Innovation Digital Business, Ravi Jeeva Rathinam. Photo: © Surbana Jurong

technology. For Surbana Jurong, BIM has become a way of working. It enables our teams to make informed decisions at every stage of a project and work collaboratively and seamlessly to drive the best outcomes for our clients."

ISO 19650 accreditation provides an assurance to clients that Surbana Jurong is able to provide effective and compliant BIM services of the highest standards to clients in every part of the world. Lloyd's Register, an ISO accrediting body, is supporting a number of government bodies, architecture firms and other building consultants in Asia in their efforts to attain the certification.

Mr Fotis Kampouris, Business Director, Lloyd's Register said: "Surbana Jurong is one of the world's leading urban design consultancies and has always been ahead

of the curve in its use of technology, so it comes as no surprise that it is the first organisation in Singapore to be awarded ISO 19650 certification. The accreditation, supported by the group's strong talent policies and risk management practices, should give its clients the greatest confidence in its building quality and standards."

Keppel ranked among Forbes' Best Regarded Companies and World's Best Employers

Singapore – Keppel has been recognised in the Forbes' Global 2000 rankings as one of the World's Best Regarded Companies 2019 and World's Best Employers 2019. Mr Loh Chin Hua, CEO of Keppel Corporation, said: "Being recognised by Forbes as one of the world's best regarded companies and employers reflects the trust we have built up with stakeholders, whether through upholding high standards of corporate governance and business ethics, or investing in our people and creating conducive work environments where employees can fulfil their aspirations and potential."

Forbes' Global 2000 comprises the world's largest public companies based on a composite score from equally weighted measures of revenue, profits, assets and market value. To create the list of top 250 World's Best Regarded Companies,



Photo: © Keppel Corporation

Forbes partnered with Statista to cull Forbes' annual list of the world's 2,000 largest public companies down to 250, ranked based on trustworthiness, social conduct, the strength of their products and services and how they fare as employers. To gather data, Statista surveyed 15,000 respondents from more than 50 countries.

As for the list of top 500 World's Best Employers, Forbes partnered with

Statista to cull Forbes' annual list of the world's 2,000 largest public companies based on 1.4 million employment recommendations sourced from a global poll and regional surveys. Respondents around the world were asked to rate their own employer and the likelihood that they would recommend this employer to a friend or family member. They also rated other employers they admired.

Hyatt Regency Hengqin opens in greater bay area of southern China

Hengqin, Zhuhai, China – Hyatt Hotels Corporation recently announced the opening of Hyatt Regency Hengqin in Zhuhai, Guangdong Province, China. With 493 rooms, six dining outlets, and 40,440 square feet (3,757 square metres) of event space, the hotel is designed for business and leisure guests alike seeking a seamless, intuitive experience in the city.

Situated in the heart of the dynamic and fast-growing Greater Bay Area of southern China, Hyatt Regency Hengqin is part of the vibrant Novotown complex, which features an impressive array of attractions including Lionsgate Entertainment World, National Geographic Explorer and more. The hotel is also within easy reach of the Hong Kong – Zhuhai – Macau Bridge, offering convenient access for guests traveling throughout the region.

"We are thrilled to announce the opening of Hyatt Regency Hengqin," said William Yuen, general manager of Hyatt Regency Hengqin. "As a new, international branded hotel in Hengqin, Zhuhai, we are excited to offer superior comfort and excellent service at a convenient location."



Photo: © Hyatt Regency Hengqin

CDL only company in Southeast Asia and Hong Kong recognised in 2019 CDP A List for corporate climate action

Singapore – For its robust and multipronged climate strategy and efforts, City Developments Limited (CDL) is the only company in Southeast Asia and Hong Kong to be recognised on the 2019 CDP A List for corporate climate action. Announced today, this is the second consecutive year CDL receives this accolade.

CDP is an international non-profit that drives companies and governments to reduce their greenhouse gas (GHG) emissions, safeguard water resources and protect forests, and is widely recognised as the gold standard of corporate environmental transparency. A detailed and independent methodology is used by CDP to assess these companies, allocating a score of A to D – based on the comprehensiveness of disclosure, awareness and management of environmental risks and demonstration of best practices associated with environmental

leadership, such as setting ambitious and meaningful targets. While more than 8,400 companies disclosed environmental data through CDP in 2019 for independent assessment against its scoring methodology, only a small number of high-performing companies made it into the 2019 A List.

Mr Sherman Kwek, CDL Group Chief Executive Officer, said, "Soaring record temperatures and high-impact weather continue to plague our living environment, as can be seen by the ongoing devastating Australian bushfires. In the advent of a new decade, there is a greater need for businesses to actively reduce their carbon footprint and accelerate climate action. As a significant contributor to carbon emissions, the building sector must play a bigger role in driving emissions reduction. From integrating sustainability into our business two decades ago, CDL has continued to

push the envelope with green building innovation and climate-focused strategies. We are honoured to be recognised for the second consecutive year on the CDP A List and will continue to steer affirmative action to support the global agenda towards a low-carbon economy."

With buildings contributing nearly 40 percent of energy-related carbon emissions, the built industry has huge potential for global carbon reduction.¹ CDL's 'A' score accentuates the company's comprehensive understanding of its climate-related risks and opportunities, its proactive efforts to mitigate climate change, and its adoption of sustainability best practices and strategies to reduce GHG emissions.

¹ Energy Efficiency: Buildings, International Energy Agency, January 2020.

Let imagination take flight for the redevelopment of Paya Lebar Air Base

Singapore – Members of the public will get a chance to re-imagine the future of Paya Lebar Air Base and the surrounding industrial estates as part of the "Runway for Your Imagination" ideas competition. Organised by the Urban Redevelopment Authority (URA), in partnership with the Singapore Institute of Architects (SIA) and the Singapore Institute of Planners (SIP), the competition encourages members of the public to share their ideas on how the area can be transformed into a highly liveable and sustainable new town that builds on its unique aviation heritage.

"The future relocation of the Paya Lebar Air Base presents an exciting canvas of possibilities for us to create an attractive and sustainable township with inclusive public spaces in Singapore. Through the ideas competition, we hope that members of the public can let their imagination take flight and join us in painting a new vision for this future space – one that is filled with boundless opportunities," said Mr Lim Eng Hwee, Chief Executive Officer of URA.

In the 1950s, Singapore's second international airport was built on the site, given its proximity to the town centre. Operating between 1955 and 1981, the former Paya Lebar Airport bore witness to supersonic Concorde flights that flew between London and Singapore in the late 1970s. Many former

airport buildings remain today, standing proof of Singapore's past aviation heritage. After the airport moved to Changi, the site was converted to the Paya Lebar Air Base.

In future, the Paya Lebar Air Base will also relocate. After the relocation, there is scope to comprehensively redevelop the 800 hectares site and its surrounding industrial estates into a highly liveable and sustainable new town with amenities for future residents, as well as a major employment node in the area.

Interested participants can submit proposals for one of three topics in the competition. For the first topic "Concept Master Plan", participants are to develop overarching ideas and concepts to illustrate the vision of how the air base and the surrounding industrial areas can be redeveloped into a distinctive, highly liveable and sustainable community in the 2030s and beyond. In the second topic "Transforming the Runway", organisers are looking for concepts that transform the runway into a multi-functional community space for people of all ages and abilities. The third topic "Rejuvenating Paya Lebar Airport" requires participants to design a unique precinct with ideas to re-purpose the former airport buildings, including the terminal, control tower and hangers, for

new uses and activities to give them a new lease of life.

"The 'Runway for Your Imagination' ideas competition is the start of an exciting journey for our local fraternity to partake in the reimagining of a major asset of our city – one rich in heritage, filled with immense transformative potential, and endless possibilities. It is SIA's pleasure to partner URA and SIP in this grand endeavour to share stories, dreams, and hopes through the design of future of Singapore for Singaporeans in both physical and psychological forms," said Mr Seah Chee Huang, President of SIA.

Mr Wilfred Loo, President of SIP added, "We look forward to receiving fresh ideas for Paya Lebar Air Base which will elevate to new heights our ways of living, working, recreating and connecting. We hope participants will explore soaring possibilities which will inspire, build and nurture vibrant and resilient communities for future generations in Singapore and the world."

Members of the public can take part in either the 'Open' or the 'Tertiary' category, with attractive cash prizes to be won for winning entries. Interested parties can find out more and sign up for the competition at <https://go.gov.sg/runwayforyourimagination>. The closing date for submissions is 27 March 2020.



Artist impression of the future Runway Boulevard. Photo: © Urban Redevelopment Authority

TIANFU ONE Exhibition Gallery by LWK + PARTNERS integrates urban life and natural greenery

Chengdu, China – LWK + PARTNERS has designed TIANFU ONE Exhibition Gallery as an observation deck culminating at the end of Chengdu's main artery, integrating urban life and natural greenery. Connection with the city starts all the way from the urban green corridor to its rooftop observation deck that looks upon the city and park.

The project design is guided by a discreet respect for the local landscape, producing a circulation plan that is aligned with the city's axis, landmarks and vegetation pattern. Such a treatment by LWK + PARTNERS not only promotes the project's function as a public facility, but transformed a tricky height difference of the site into an architectural feature.

As hilly terrain is uncommon in Chengdu, LWK + PARTNERS took effort to highlight and make the most of the slope by having the building double as an elevated viewpoint. Connection with the city starts all the way from the urban green corridor to its rooftop observation deck that looks upon the city and park.

A glazed exhibition hall reveals beneath the deck, forming the crux of the project that is penetrated by natural light and elevated by hefty pillars to command a flexible hollow space underneath. This creates a rich spatial experience for visitors and strengthens the connection with the rest of the city through opening up a common surface at grade, facilitating interaction and interrelationship between people, architecture, the environment and the city.

The project appears to glide over a body of water overlooking the city and the wetland park, adding a futuristic touch to



Photo: © LWK + PARTNERS

the local environment. It invites a host of visual perspectives featuring diverse backdrops for the iconic V-shaped architecture. At a distance, visitors from the city would see it as a tip of the park while those from the park will see it as an outcrop from the hillside.

After retiring from its initial function as a sales gallery, the project will serve as an exhibition gallery for urban planning, offering indoor recreational-educational space among verdant greenery for the public.

Keppel Bay Tower to become Singapore's first commercial development to be fully powered by renewable energy

Singapore – From 1 January 2020, Keppel Bay Tower will be the first commercial development in Singapore to utilise renewable energy to power all its operations, including the offices of tenants in the building. Keppel Bay Tower is a Green Mark Platinum building certified by the Building and Construction Authority of Singapore (BCA).

Keppel Land, the owner and operator of Keppel Bay Tower, will be installing an assembly of PV panels spanning about 400 square metres on the roof of the 18-storey Keppel Bay Tower, as well as its six-storey podium block.

In addition, Keppel Land, through its electricity retailer, Keppel Electric, will be purchasing Renewable Energy Certificates (RECs), which are generated from photovoltaic (PV) panels installed in Keppel Offshore & Marine's yards in Singapore.

When completed in 1Q 2020, Keppel Bay Tower's PV system is expected to generate an energy yield of about 100,000 kilowatt hour (kWh) per annum. Keppel's latest initiative to install PV panels at Keppel Bay Tower reduces the building's reliance on grid power. Together with the purchase of RECs, these initiatives will result in a reduction

of over 2,400 tonnes of carbon emissions per annum – an amount which would otherwise require about 12,000 trees to absorb over about 50 years.

Mr Tan Swee Yiow, CEO of Keppel Land, said: "Keppel is committed to sustainability, both as a provider of solutions for sustainable urbanisation and as a responsible corporate citizen. We will continue to take proactive steps to enhance the environmental performance of our developments to build a more sustainable future for all our stakeholders."

These initiatives are part of Keppel's continued efforts to transform Keppel

Bay Tower into Singapore's first Super Low-Energy High-Rise Existing Commercial Building.

In 2018, Keppel Land was awarded a grant of about \$1.28 million by BCA to testbed new and emerging technologies which would reduce the building's energy consumption significantly and improve its energy efficiency by 20 percent compared to other Green Mark Platinum buildings by June 2020.

Keppel is currently on track to meet its goal of reducing the annual energy consumption of Keppel Bay Tower to 115 kWh/m² per annum from its initial consumption of about 145 kWh/m² per annum by June 2020. Keppel Bay Tower is also working with tenants to adopt green leases and install energy-efficient LED lamps in their offices at no additional capital investments to the tenants, as well as helping them attain Green Mark certification. Moving ahead, Keppel Land is also actively seeking new solutions to further reduce the building's energy consumption to below 100 kWh/m² per annum, which would result in Keppel Bay Tower being 50 percent more energy efficient compared to typical office buildings in Singapore.



From 1 January 2020, Keppel Bay Tower will be Singapore's first commercial development to be fully powered by renewable energy, as part of Keppel's continued efforts to transform the building into Singapore's first Super Low-Energy High-Rise Existing Commercial Building. Photo: © Keppel

New Museum for Western Australia designed by Hassell + OMA reaches building completion milestone

Perth, Australia – Construction of the New Museum for Western Australia, Perth, designed in joint venture by international design practices Hassell + OMA is complete. Exhibitions are now being installed to ensure the Museum is ready for opening in November 2020.

Located in the heart of Perth's cultural precinct, the Hassell + OMA design was conceived as a 'collection of stories', offering a multidimensional framework to engage with Western Australia. A holistic building, comprised of heritage and new structures, the New Museum for Western Australia will be a place where the local community and global visitors gather, to share their understanding of the past, thoughts of the moment, and ambitions for the future.



Photo: © Peter Bennetts, courtesy of Hassell + OMA

"Our vision for the design was to create a space that promotes engagement and collaboration, responding to the needs of the Museum and the community," said Hassell Principal Mark Loughnan. "We wanted it to be a civic place for everyone; an interesting mix of heritage and contemporary architecture, that contributes to the revitalisation of Perth's cultural precinct whilst celebrating the culture of Western Australia on the world stage," he said.

OMA Managing Partner – Architect David Gianotten said: "The New Museum is a place to welcome everyone to explore the natural and social heritage of Western Australia. More importantly, it has been deliberately designed as a place for conversations, to inspire new ideas and knowledge of global relevance. It is a museum that both showcases and stimulates discoveries."

Refurbished heritage buildings and newly built volumes house the Museum exhibitions, event spaces, and public areas. Two intersecting circulation loops – one vertical and one horizontal – connect and organise in multiple ways the Museum's content, which includes a world-renowned meteorite collection and iconic blue whale skeleton.

A core element of the design is the 'City Room' – a sheltered outdoor public space at the centre of the Museum, framed by the refurbished heritage buildings and a large cantilevered volume. The 'City Room' is an open space for everyone to stimulate their imagination and creativity, and participate with a variety of activities, from large scale community events to smaller gatherings.

HDHP appoints Pritzker Prize-winning architect Ryue Nishizawa for anticipated follow-up to Shishi-Iwa House

Karuizawa, Japan – HDHP, a social enterprise sponsored by HDH Capital Management, is pleased to announce the appointment of Pritzker Prize-winning architect Ryue Nishizawa for its second Shishi-Iwa House project, set to open in 2021. Similar to the first retreat designed by fellow master architect Shigeru Ban, the project aims to provide guests a sanctuary to reconnect with families and friends and to inspire intellectual creativity. Shishi-Iwa House by Ryue Nishizawa will be a seminal architectural masterpiece, paying homage to traditional Japanese residential architecture based on the shaku-kan grid system, hinoki cypress wood and garden courtyards. Nishizawa will be responsible for both architecture and interiors, allowing a coherent and integrated approach to the design.

With a focus on sustainability and human scale, the retreat is designed as a cluster of 10 interconnected pavilions using locally-sourced hinoki cypress as the main building material. Hinoki cypress is considered a "sacred" wood in Japan as it has been used for centuries to build shrines, temples and palaces given its durability and the aromatic scents. The traditional shaku-kan grid system employs an efficient and environmentally friendly construction methodology, yielding minimal waste and mostly pre-fabricate offsite before installing onsite. Together, they will ensure that the project will minimise carbon footprint at the start.

The retreat will be exclusive with only 8 guest rooms in various sizes to accommodate both single travelers and families. Common facilities will include a reception and library area, shared living rooms and kitchenettes, a tea house, a bath house and a catering kitchen. The unusual building architecture creates different levels of privacies to promote communal sharing of spaces among guests. Hidden alleys and courtyards also prompt new discoveries and reconnection with oneself and with nature. Gardens will be planted with



Photo: © Ryue Nishizawa

hundreds of trees, notably Japanese maples and cherry trees, allowing guests to experience the beautiful changing colors of Karuizawa seasons while at the same time serves to meet our commitment to develop only carbon-neutral project. Lastly, a curated collection of screen paintings and silk scrolls from the 17th century by Japanese masters will be selected to complement the traditional architecture.

Shishi-Iwa House is nestled in the woodlands of Karuizawa, a mountain resort destination in Nagano Prefecture, Japan, easily accessed by train about an hour from Tokyo. The area – a popular vacation destination for Japan's affluent communities – is famed for its idyllic settings, where luscious mountains, rivers and wildlife converge upon small picturesque villages.

JKP completes Huitong Hybrid Tower in Shenzhen

Shenzhen, China – Huitong Hybrid Tower is a novel idea in skyscraper design – it is part world-class office space and part high-tech car park. By efficiently and seamlessly integrating parking spaces into the design, JKP increased buildable area under zoning regulations and maximized the value of the project to both the users and the city.

Situated near the waterfront in

Nanshan's Coastal City – and surrounded by bustling commercial, entertainment, and residential neighbourhoods – the project engages its context to take advantage of the unique site conditions and enrich the surrounding urban fabric.

The tower sits at the bottom of a valley and is the only tall building in the area. Its height of 80 metres responds to this

condition, following the visual trajectory created by the increasingly tall towers that rise up the valley to contribute to a unified skyline.

The east facade overlooks Shenzhen Bay and faces a bustling urban street. This facade is curved, maximising views out over the bay and creating an inviting presence on the street. A landscaped entrance plaza further integrates the

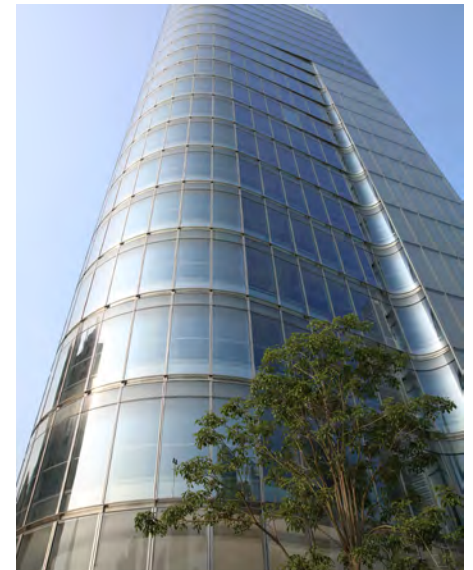
building into the city, creating a new social space for pedestrians. The entrance lobby includes lighting displays and graphics that evoke traditional Chinese painting, creating dynamic visual effects visible from the street.

14 storeys of parking are discreetly integrated into the less public western facade. A metal perforated panel system conceals the parking from view while lending the building its distinctive interplay of solid and transparent volumes.

The design takes a technologically innovative approach, seamlessly integrating high-density parking with contemporary office environments. The parking system optimises for both spatial efficiency and car-loading times, maximising the amount of useable

office space while still providing a quick and reliable parking service. The sophisticated design of the parking features six turbo lifts that allow cars to be loaded or retrieved in under 90 seconds. This – combined with a spatially efficient approach to storing cars – allows a total capacity of 500 vehicles while leaving the most possible floor area for offices.

To create contemporary offices that foster employee wellbeing, the design discreetly tucks parking into the back of the building and mitigates noise with innovative acoustic strategies. Set on a curved transparent facade, the offices enjoy panoramic views of Shenzhen Bay. A glare-reducing ipachrome frit print on the facade creates comfortable and naturally lit workspaces.



Exterior of Huitong Hybrid Tower. Photographer: Wenrui Ye

Keppel Land and Rustomjee Group to co-develop an integrated township in Mumbai

Singapore – Keppel Land Limited (Keppel Land), through its wholly-owned subsidiary, has entered into a joint venture with leading Indian developer, Rustomjee Group, to jointly develop the 51.4-hectare Urbania integrated township located in Thane, a mature and well-connected district within the Mumbai Metropolitan Region, India.

This is the first such collaboration between a Singaporean developer and an Indian developer for a township in the Mumbai Metropolitan Region, which is among India's fastest-growing regions. Since its launch in 2006, the Urbania township has housed 2,700 residential units amid comprehensive amenities.

Keppel Land will be acquiring a 49 percent stake in the joint venture company, Kapstone Constructions Private Limited, at a consideration of about INR 4,091 million (approximately S\$78.2 million¹).

Upon completion of the acquisition, Keppel Land and Rustomjee Group will jointly develop an addition of about 7,400 homes and retail units with a total gross floor area of approximately five million square feet. The development cost for the first phase under the joint venture, which will comprise approximately 460 residential units, is expected to be approximately INR 4,016 million (approximately S\$76.8 million¹). Completion of the acquisition is subject to the satisfaction of certain conditions precedent and is expected to take place around the first quarter of 2020. The abovementioned transaction is not expected to have any material impact on the earnings per share and net tangible assets per share of Keppel Corporation Limited for the current financial year.

¹ Based on an exchange rate of SGD 1: INR 52.3.



Keppel Land is partnering the Rustomjee Group to develop homes and retail units in the Urbania integrated township, located within the Mumbai Metropolitan Region in India. Photo: © Keppel Corporation

Barangaroo South named Australia's first carbon neutral precinct

Singapore – Barangaroo South has claimed the title of Australia's first carbon neutral precinct. Lendlease, in partnership with the NSW Government, received the certification awarded by the Commonwealth Government.

From the outset, Lendlease was committed to achieve the highest sustainability credentials at the precinct. The buildings and infrastructure were all designed and delivered to contribute to and meet climate positive targets and carbon neutrality.

The basement, for example, services the entire precinct and is as large as one of the 42-storey office towers that sits above it. It includes a district cooling plant that saves approximately 40 Olympic-sized swimming pools of water every year, and a waste management system that's allowed us to divert over 5,400 tonnes of waste from landfill in the past three years – the equivalent of 1,200 elephants.

To reduce carbon at Barangaroo South, Lendlease focused on three strategies:

- **Avoid** – through better building design, efficient infrastructure,



and education and behavioural initiatives.

- **Reduce** – implement on and off-site low carbon and renewable energy sources.
- **Mitigate** – purchasing or providing conditions for carbon offsets to cover emissions.

The tenants at Barangaroo South and the investor community have supported Lendlease to achieve carbon neutrality at the precinct. Commercial tenants are increasingly using highly connected and sustainable workplace destinations as a way to attract and retain the best talent.

There are currently over 20,000 workers at Barangaroo South and many have embraced sustainability initiatives including reducing single use plastics and products from food offerings in the precinct, reducing disposable coffee cups and using compostable food packaging for takeaway.

There is also high demand for the precinct's end of trip facilities, which are one of Sydney's largest, and support active transport including cycling.

"We've been creating carbon neutral buildings and places long before it became industry practice. Our approach to sustainability is a key differentiator for us and has helped us secure our pipeline projects around the world which is now approaching \$100 billion," said Lendlease Group CEO and Managing Director, Steve McCann.

Hassell among founding members of Architects Declare in Singapore

Singapore – On 10 January 2020, Hassell was one of the founding members of Architects Declare in Singapore, the first country in Asia to launch the petition. Although somewhat protected by its equatorial location and its "City in a Garden" policies, Singapore has also been experiencing the twin crises of climate breakdown and loss of biodiversity with increasing periods of drought and higher temperatures.

The climate emergency is the most serious issue of our time, and the construction industry plays a major part – accounting for nearly 40 percent of energy-related carbon dioxide (CO2) emissions while also having a significant impact on our natural habitats.

Architects Declare is a global petition sitting under the umbrella Construction Declares, uniting all strands of the construction and built environment industry. It is both a

public declaration of our planet's environmental crises and a commitment to take positive action in response to climate breakdown and biodiversity collapse.

Singapore is the first Asian country to join Architects Declare with both architects and structural engineers as founding signatories.

The founding members are:

Architects: CSYA, DP Architects, Forum Architects, Guz Architects, Hassell, SCDA and WOHA.

Structural engineers: Arup, DP Engineers, RSP, Web Structures and WSP.

"The Declaration provides another impetus for critical conversation on how we can mitigate climate impacts through

better and more sustainable design practices," said Hassell Managing Director, Steve Coster.

This Climate Declaration is a call to action for everyone working in construction and the built environment to meet the needs of our societies without breaching the earth's ecological boundaries. This will demand a paradigm shift in our behaviour. If we are to reduce and eventually reverse the environmental damage we are causing, we will need to re-imagine our buildings, cities and infrastructures as indivisible components of a larger, constantly regenerating and self-

sustaining system.

"It's our responsibility to design today for the needs and threats facing the next generations. Resilience should be a core preoccupation of our profession, and come up in any conversation we have about good design," said Singapore-based Hassell Head of Design, Fiona Nixon.

Hassell signed the petition in the UK in May 2019 and in Australia in July 2019. Australia was the third country in the world to launch Architects Declare and the first to include reference to Indigenous peoples.

Nex Tower wins 2019 MIPIM Asia Award

Hong Kong – Nex Tower has been selected as a Best Green Development award winner in the 2019 MIPIM Asia Awards. The Best Green Development award honours projects that achieve high levels of sustainability.

Nex Tower is a 27-storey office building located in Manila's resurgent business district of Makati. Designed with health, wellness, and connectivity top of mind, the tower sets a new precedent for responsible and sustainable development in the Philippines. Facing Ayala Avenue, a main commercial thoroughfare, the complex features a striking crystalline geometry that establishes a distinctive presence in a row of premier office buildings.

The design of Nex Tower integrates nature and efficiency into a simple, iconic form. The building is boldly sliced at the northeast corner to articulate views past the adjacent tower, down Ayala Avenue, and toward Ayala Triangle Gardens. The massing is also sliced at the western edge at street level to create a dramatic lobby cutting through the entire site and to connect the front pedestrian entrance to the rear drop-off. This quasi-public space serves as a catalyst for future development, and provides a benchmark for the future of design in the area.

By establishing a grand mid-block connection at the ground floor, from Ayala Avenue to De La Rosa Road, the building's design contributes significantly to the public realm. The soaring lobby creates a sanctuary away from the busy streets of Makati. Visitors and tenants enter from either side of the building through a skylit atrium with tapered white marble surfaces. An 11-metre living wall recalls the Philippines' lush scenery and evokes a sense of serenity within the bustling city. Sustainability served as a key consideration in the design of Nex Tower, which has achieved LEED Platinum certification. The hydroponic wall, one of the largest of its kind in the Philippines, provides tenants and visitors with fresh air and access to greenery at a grand scale while paying homage to the country's natural landscapes.

Additionally, indirect natural daylight in the building lobby reduces the need for artificial lighting. High performance glazing, optimized HVAC strategies, and daylight-responsive lighting controls create a healthy and user-focused interior



Nex Tower features a simple crystalline geometry. Photo: © Studio Periphery

environment. The tower also features rainwater collecting tanks, as well three other landscaped outdoor spaces where building tenants can commune with nature, including the top floor roof garden.

Work has a new design: mobile and integrative

Already today, we expect a modern workplace to be more than just a room with a desk, a chair and WiFi. And, with an eye to tomorrow, it is clear that we must take the individuality of people and the independence of companies into account architecturally. What will count in the future: an atmosphere in which any movement is possible. The property surpasses itself, overcoming its own immobility – for people who think freely and move freely. Forwards.

Singapore – Whoever is building the buildings and office worlds of tomorrow must consistently combine customer requirements with product characteristics. This is the crucial formula that forms the future out of the present.

The offices of today are developing in four trends. The first development is: Openness as a success model. Thanks to digitally controllable access systems and flexible room partitioning, freedom and security no longer have to be a trade-off. With the right technology, the model of office sharing is becoming increasingly attractive.

The second trend is the move towards flexible use of the space. Anyone who doesn't need to spend all their time in the office creates free capacities that can be marketed. The intelligent system that can be used for this builds on a convertible interior architecture and smart access solutions.

The third development: Companies are growing faster than

before – either that or they drop out of the market unexpectedly. With a modular office concept, capacities can be managed without friction losses. Colleagues therefore perceive changes positively.

The fourth trend: Aesthetics itself is a lucrative asset. All companies, small and large alike, want to represent something. More than ever, it is worth investing in the quality of architecture and the design concept.

It begins in the foyer: The security barrier provides security without being restrictive. So, technology moves people. For employees, an interlock is more than just a way to access their place of work, it opens to anyone who makes a contribution to the company objective. You don't enter a room, but create perspectives.

A safety barrier doesn't only close a room off, it is in itself a fixed perspective. A welcome in a clear design language.



**One way, one objective, one form:
Argus from dormakaba**

The new Argus sensor barriers from dormakaba integrate form and function. Thus, two slim with straight lines and geometric corner radii form a single unit with glass doors that appear weightless – and with seamlessly integrated technology. The XEA design language, typical of dormakaba, combines basic shapes, colours, surfaces and operating elements in a uniform look, which can be adapted to any architecture with many variations.

With Argus, security simultaneously exudes transparent openness. The illumination appears friendly, and the sensor control works immediately. A movement in appreciable solidity: a pleasant welcome. The design remains subtle, despite maximum stability. The holistic external design is proof of the internal values: the sensors and mechanical systems provide a real service, continuously. A polite design.



One room for many start-ups. Contemporary security requires flexibility.



A large reception area with security: Sensor barriers broaden horizons.

Changi Airport begins Terminal 2 expansion works to increase capacity and enhance passenger experience

Singapore – Changi Airport Group (CAG) announced on 16 January 2020 that expansion and renovation works at Terminal 2 (T2) will commence after the Chinese New Year holidays, beginning with check-in rows 9 to 12 in the Departure Hall. This marks the beginning of a multi-year expansion project which will increase T2's handling capacity, as well as to replace facilities and amenities which are nearing the end of their shelf lives.

The expansion project will add 15,500 square metres to the terminal building and increase Changi Airport's capacity by five million passengers per annum (mppa). This brings Changi's total capacity to 90 mppa when the works are completed around 2024.

Last refurbished in 2006, the refreshed T2 will sport even more greenery and natural elements at every turn, in keeping with Changi's signature garden theme in its terminals. There will also be space added in the Departure and Arrival Halls, giving more room to airport operations such as check-in and immigration clearance. Additional retail and F&B outlets will be introduced in both the public and transit areas, providing passengers and visitors with wider and refreshed options. At the same time, passenger touchpoints will be enhanced for a smoother and more seamless experience.

Transformed check-in layout in Departure Hall

The refurbished T2 Departure Hall will feature a spacious

common-use central Fast And Seamless Travel (FAST) zone, with more automated check-in kiosks and bag drop machines. With this, more passengers will be able to use these self-service options to check-in early. Concurrently, the existing rows of check-in counters in the Departure Hall will be transformed to better serve passengers. All in all, the passenger handling capacity in the hall will be increased by as much as 20 percent.

To facilitate the expansion works, some airlines operating in T2 will be shifted to alternative check-in rows within the terminal during the course of works. The two flight information display flip boards will be retired, with the one between Check-in Rows 9 and 10 to be decommissioned next month.

A duplex F&B concept will be introduced at the north end of T2's landside leading to Jewel Changi Airport, to provide visitors with a fresh dining experience, while transforming this gateway to Jewel.

Refreshed offerings in Departure Transit Hall

In the Departure Transit Hall, the Orchid Garden, which has provided calm reprieve to many passengers with its elegant orchids since 1997, will be closed to make way for a new garden. This new garden will showcase a revolutionary landscape design, incorporating a plethora of new plant species for the enjoyment of passengers when it re-opens.

To cater for more retail and F&B offerings for passengers,



Rendering: © Changi Airport Group



Rendering: © Changi Airport Group

the commercial spaces within the Departure Transit Hall will be increased. In particular, the food street areas along the length of the Departure Transit Hall and overlooking the tarmac will undergo refurbishment. Designed to provide passengers with a garden dining experience, this area will incorporate dramatic green walls, hanging plants and soft lighting. More F&B kiosks options will be brought in, along with additional seating and a newly curated tenant mix for an enhanced dining experience.

In addition, all passengers, whether transferring, transiting or departing, can also look forward to refreshed waiting areas with more comfortable seating, relaxation zones and a new play area for children. New experiential zones will be introduced at various locations within the Departure Transit Hall to keep passengers entertained during their time at Changi.

Expanded Immigration Halls and more belts for baggage claim

To cater to higher passenger traffic passing through T2, the Departure and Arrival Immigration Halls will be expanded. Specifically, the Immigration Halls will be reconfigured to support additional automated immigration lanes. The Immigration Halls will similarly incorporate lush greenery, extending a warm welcome to our passengers.

To handle a higher volume of bags at T2, two existing baggage belts will be lengthened and another two new belts will be added, bringing the total number of baggage belts to 10. The Early Baggage Storage system will also be upgraded from semi-automated to fully-automated, allowing some 2,300 bags to be stored at any time.

Enhanced experience at Arrival Hall

In the Arrival Hall, a garden-like lounge will be created, where meeters and greeters can wait comfortably for their friends and families to arrive. For the dining outlets in the public area of the airport, McDonald's in the Arrival Hall will close on 31 January 2020, while Starbucks in the Departure Hall will cease operations in April 2020.

The remaining F&B outlets in T2's public areas will remain open for passengers and visitors until the later phases of the expansion works. With the refurbishment, a new cluster of F&B kiosks will offer additional quick bites options at the south end of the Arrival Hall.

Continuing operations amidst expansion works

Mr Tan Lye Teck, CAG's Executive Vice President of Airport Management said, "The expansion and renovation works will rejuvenate T2, while the upgrades in the key operating infrastructure such as the baggage handling systems will enhance the terminal's capacity and efficiency, allowing us to serve more airlines and passengers when the works are completed. T2 will continue to operate and welcome passengers, even as we work to minimise disruption to operations and inconvenience to passengers and visitors."

The main contractor appointed for the T2 expansion works is Takenaka Corporation. The project is designed by JH Boiffils and a panel of multidisciplinary consultants comprising RSP Architects Planners & Engineers (Pte) Ltd as the lead architect, with J Roger Preston (S) Pte Ltd, Rider Levett Bucknall LLP, Infoline Technologies Pte Ltd and Ignesis Consultants Pte Ltd.

Opening of Sky Green in Taichung, Taiwan

Taichung, Taiwan – WOHA has announced the completion of their first project in Taichung, Taiwan. In 2012, WOHA was invited by the Taichung City Government and Feng Chia University to bring its exhibition "Breathing Architecture" to Taichung. This exhibition was part of a programme initiated by the city government's Gateway Project Masterplan which focused on the design principles of sustainability, low carbon emissions and smart cities. The government was in the process of drafting new regulations to make Taichung a greener, more liveable city in its next phase of development.

The developer Golden Jade, with Feng Chia University as an advisor, commissioned WOHA to design a green and sustainable mixed-use development in the heart of the city, the first of its kind in Taichung. Sky Green comprises residential apartments and retail shops, as well as generous recreational facilities in two towers.

"We are very happy to have been a part of this collaboration between policy makers, academia and the private sector to design the future of sustainable housing in Taichung," said Mun Summ Wong, Founding Director of WOHA. "One building can't change a city but we hope that Sky Green is the first of many more," added Mun Summ Wong.

Green landscaping is a key material palette in creating building envelope for the rising residential towers as well as bringing nature into high-rise living. Tower A apartments have extended balconies with trees and Tower B apartments have a soft, green creeper mesh screen on their facade. Sky gardens at every five floors within the block dissolve boundaries between interior and exterior as the residents enjoy nature and fresh air in a high-rise environment.



Sky Green, Taichung, Taiwan. Photographer: Kuomin Lee

The design of Sky Green has been adapted to suit the local culture and subtropical climate, as well as to ensure safety during earthquakes and typhoons. As the first high-density development in Taichung that also provides high amenity with its generous recreation facilities and ample integrated green spaces. Sky Green will be influential in defining the new benchmark of sustainability and skysrise greenery for the city's future developments.

HOK Appoints J Lee Rofkind as New Hospitality Design Leader in Asia Pacific

Hong Kong – On 17 January 2020, HOK's Asia Pacific practice announced leadership changes to its Hong Kong-based Hospitality group. J Lee Rofkind, AIA, LEED AP, has joined as the new regional leader of Hospitality. She succeeds Julia Monk, FAIA, FIIDA, who retired at the end of 2019.

Rofkind brings 30 years of experience to HOK, with a global portfolio that includes work with leading hospitality brands including Shangri-La, Mandarin Oriental, St. Regis, Ritz-Carlton and Grand Hyatt. She comes to HOK from BUZ Design Consultants Ltd. in Hong Kong, where she was founder and principal. Rofkind also previously served as design director of Hyatt International Asia Pacific. She was a founding member and past president of the Hong Kong Chapter of the American Institute of Architects.

"HOK has long been a leader in the design of resorts, urban hotels and other hospitality projects across the region," said Paul Collins, RIBA, HKIA, Managing Director of HOK's Asia Pacific practice. "We are thrilled to welcome J Lee to HOK. She will be an exceptional partner for our team and hospitality clients across the region."



J Lee Rofkind

Grundfos inaugurates new digital lab to boost adoption of intelligent water solutions

Singapore – On 21st January 2020, Grundfos, a global leader in advanced pump solutions, launched a new digital lab at its regional headquarters at 25 Jalan Tukang in Singapore. The lab, the first of its kind by Grundfos in Asia Pacific, is a strategic initiative to drive greater adoption of intelligent water solutions in the region.

The lab showcases Grundfos' range of iSOLUTIONS products, which leverage intelligent technology to deliver optimal performance, greater energy efficiency and reliability. These products are used for a wide range of applications across sectors – from water distribution and wastewater treatment by water utilities, pressure boosting and heating, ventilation and air-conditioning in commercial buildings, to industrial applications such as washing, cleaning and industrial cooling.

Key solutions on showcase in the lab include the Grundfos SMART Digital XL DDA and DDE dosing pumps, which enable accurate chemical dosage across numerous production processes including drinking water, wastewater treatment and industrial processing, reducing chemical consumption by 5 to



Kim Jensen, Group Senior VP & Regional Managing Director, Grundfos Asia Pacific Region, and Chee Meng Tan, Regional Product Portfolio Director and Regional Business Director, Water Utility, Asia Pacific, Grundfos inaugurating the new digital lab.

19 percent. The lab also demonstrates the Grundfos Remote Management – a secure, internet-based system, which intelligently monitors and manages water flows in pump installations through the interconnectivity of pumps, sensors and meters.

Kim Jensen, Regional Managing Director of Grundfos Asia Pacific region, said that establishing a dedicated lab in the region is a demonstration of the company's confidence in Asia Pacific's digitalisation potential, as well as recognition of Singapore as the hub for this digital transformation, thanks to its Smart Nation ambitions.

Through the lab, Grundfos seeks to demonstrate the value of intelligent pump solutions, with the aim of driving greater uptake among its wide customer base, which range from utilities and government agencies to property owners and major industries.

Kim Jensen said: "Pumps do not exist in isolation. We believe that the key to maximum efficiency is optimising the entire pump system, and not only the pumps. The iSOLUTIONS range aims to optimise energy and water efficiency across the entire system by leveraging connectivity, intelligent monitoring and commissioning wizards. Through our iSOLUTIONS portfolio, we have successfully delivered significant energy savings for our customers, whilst at the same time driving significant cost savings with optimised performance."



Grundfos' new iSOLUTIONS lab is the first of its kind by the company in Asia Pacific.

2020 AIA Gold Medal awarded to Marlon Blackwell

Washington, D.C., USA – The Board of Directors and the Strategic Council of the American Institute of Architects (AIA) have honoured Marlon Blackwell, FAIA, with the 2020 Gold Medal. The Gold Medal honours an individual whose significant body of work has had a lasting influence on the theory and practice of architecture. Blackwell is being recognised for his important body of transcendent work in the hills of Northwest Arkansas.

Although he was born in Germany, Blackwell is a product of the American South. He received a Bachelor of Architecture from Auburn University and a Master of Architecture from Syracuse University. His firm, Marlon Blackwell Architects, is eager to tackle any project type that serves the common good, regardless of scale and budget, and has been widely recognised with more than 120 national and 14 international design awards.

In addition to his exemplary architecture, Blackwell's influence and achievements as a teacher parallel



Marlon Blackwell, FAIA. Photo: © Mark Jackson

the successes of his practice. Because of his outstanding leadership as a distinguished professor, the E. Fay Jones chair, and department head of the Fay Jones School of Architecture and Design at the University of Arkansas, Blackwell

was named one of DesignIntelligence magazine's "30 Most Admired Educators."

Blackwell will be honoured at the 2020 AIA Conference on Architecture, which will be held from 14–16 May 2020 in Los Angeles.

MVRDV's "Green Villa" is a corner residential building covered in plants

Rotterdam, The Netherlands – MVRDV has designed a small office and residential building on a corner lot next to the Dommel river in the Dutch village of Sint-Michielsgestel, using a gridded "rack" system to cover the building's entire exterior in a variety of plants. Located on the town's southern edge, the four-storey Green Villa adopts the urban form of the neighbouring buildings, while the plant covering helps it blend into the bucolic landscape of the nearby river, fields and trees. The façade of the Green Villa features a "rack" of concrete shelves of varying depths hosting an abundance of potted plants, bushes, and trees.

Containing a new office space for a real estate developer, Stein, on the

ground floor, five apartments on three floors above, and underground parking, the Green Villa develops one end of a surface car park on the southern edge of Sint-Michielsgestel. The project was initiated and is being developed by MVRDV's co-architect, Van Boven Architecten, who wanted to create a landmark project for the village while also being socially conscious and environmentally progressive. The Green Villa adopts the urban form of the neighbouring buildings, while the plant covering helps it blend into the bucolic landscape.

The design developed by MVRDV and co-architects Van Boven Architecten continues the formation of the street

frontage on Adrianusplein, adopting the mansard roof shape of the previously constructed buildings. Within this shape, however, the Green Villa diverges drastically from the other buildings on the street in its materiality; a "rack" of shelves, of varying depths, hosts an abundance of potted plants, bushes, and trees such as forsythias, jasmine, pine, and birch. This approach stems from MVRDV's belief that sustainability implies not only a technological challenge, but also a positive change in lifestyle, with urban areas considered as a part of the natural landscape.

"This design is a continuation of our research into 'facade-less' buildings and radical greening," explained Winy

Maas, Founding Partner of MVRDV. "The idea from the nineties of city parks as an oasis in the city is too limited. We need a radical 'green dip': as will be shown soon in a book by The Why Factory with the same title, we should also cover roofs

and high-rise facades with greenery. Plants and trees can help us to offset CO2 emissions, cool our cities, and promote biodiversity," added Winy.

The structure of the Green Villa is based on a square grid four bays

wide and three bays deep. MVRDV developed a catalogue of varying space modules, such as bedrooms and living spaces, to place within the grid. A similar catalogue is used to populate the façade, resulting in a three-dimensional arboretum, a plant and tree library, complete with nameplates and additional information.

The plant species are selected and placed with consideration to the façade orientation and the living functions behind, providing either privacy, shade, or views as required. A sensor-controlled irrigation system that uses stored rainwater has been incorporated into the planters, guaranteeing a year-round green facade.



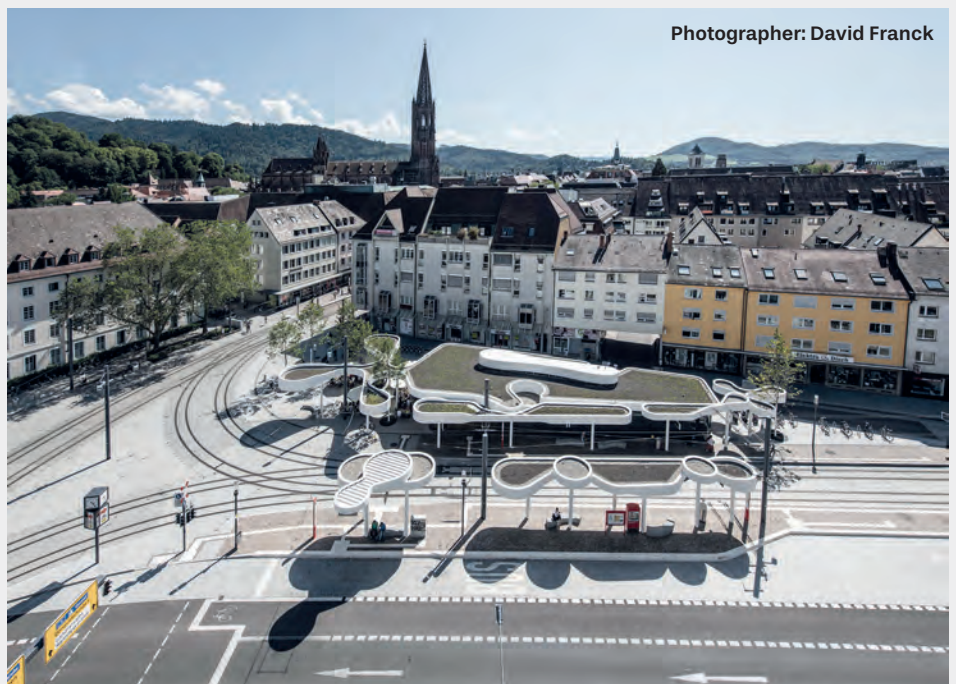
Image: © MVRDV

J. Mayer. H and Partner completes pavilion on Europaplatz in Freiburg

Berlin, Germany – In re-planning this former traffic hub from the 1970s as part of the general redevelopment of the ring around the old city, new potentials for streets, urban mobility, and public spaces emerged. The freestanding pavilion on Europaplatz marks the entrance to Freiburg's city centre.

Together with the Siegesdenkmal and the surrounding architecture, in particular Karlskaserne, this stop marks a new starting point for Freiburg's historical core. Here, the new tram and bus station including gastronomy and spaces for the VAG is combined in a joint building.

The expansive roofing with its curved form shapes the new appearance of the square. The pavilion becomes a communicative place and meeting point that combines the needs of public transportation and urban experience.



Photographer: David Franck

The Cultural Landscape Foundation announces Cornelia Hahn Oberlander is the namesake of the new international landscape architecture prize

New York, USA – The Cultural Landscape Foundation (TCLF), a non-profit, Washington, D.C.-based education and advocacy organisation, announced that the influential, widely respected, and award-winning Canadian landscape architect Cornelia Hahn Oberlander is the namesake of a recently established international landscape architecture prize. The Cornelia Hahn Oberlander International Landscape Architecture Prize ("Oberlander Prize"), which will be conferred biennially beginning in 2021, is the only international landscape architecture prize that includes a US\$100,000 award, along with two years of public engagement activities. The naming announcement was made at an event at the Consulate General of Canada in New York City on October 1, 2019.

Based in Vancouver, B.C., the 98-year-old Oberlander has been in practice for more than 70 years. Her notable projects include the New York Times building courtyard (with HMWhite), the Museum of Anthropology in Vancouver, the Canadian Chancery in Washington, D.C., the National Gallery of Canada in Ottawa, the Canadian Embassy in Berlin, and Robson Square and the Public Library, both in Vancouver, and many others. Oberlander has worked on public housing in the United States and Canada, pioneered playground design with the Children's Creative Center at Montreal's Expo '67 (and designed 70 other playgrounds), was an early champion of green roofs, and for decades has advocated for landscape architecture's leading role in addressing environmental, ecological, and social issues and the impact of climate change.

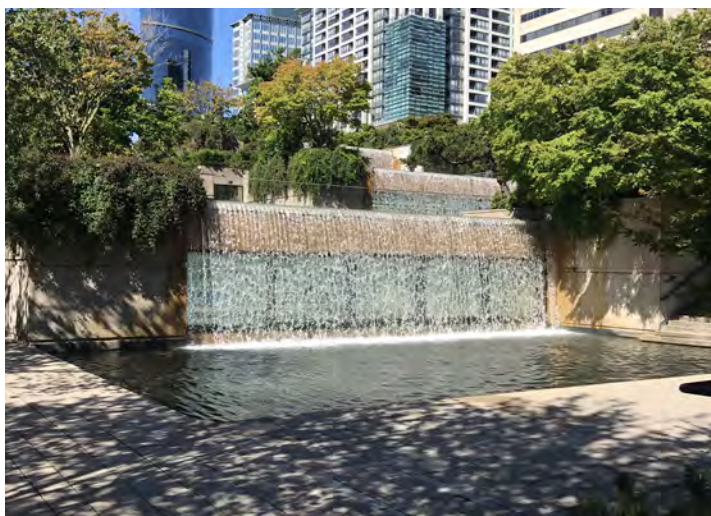
Oberlander is held in high regard both within and beyond her profession, as is reflected in the results to date of a campaign to raise \$1 million to help endow the Oberlander Prize, with commitments of \$10,000 each from and/or on behalf of 100



Cornelia Hahn Oberlander. Photo: by Susan Cohen, courtesy The Cultural Landscape Foundation

women, part of a broader campaign to raise \$4.5 million. The 100 Women Campaign launched in July 2019 and thus far more than \$900,000 has been raised. The 100 Women Campaign website includes information about each of the contributing women.

"It was the consensus of the Prize Advisory Committee, which helped shaped the Prize, and TCLF's Board of Directors that Cornelia Oberlander's inspiring and trailblazing career in the field of landscape architecture exemplifies the critical values and ideals of the Prize, and that she is someone who embodies the Prize criteria of creativity, courage, and vision," said Charles A. Birnbaum, TCLF's President & CEO.



Robson Square, Vancouver, BC, 2019. Photo: © Charles A. Birnbaum, courtesy The Cultural Landscape Foundation



Museum of Anthropology, Vancouver, BC, 2019. Photo: © Charles A. Birnbaum, courtesy The Cultural Landscape Foundation

goettsch partners celebrates groundbreaking for Union Station Tower

Chicago, Illinois, USA – Global architecture firm Goettsch Partners (GP) celebrated the groundbreaking on 20 December 2019 for Union Station Tower, also known as BMO Tower, a new 50-storey office building in Chicago. GP is serving as the architect for the project, developed by Riverside Investment & Development and Convexity Properties and anchored by Montreal-based BMO Financial Group. The tower and new public space are part of the larger redevelopment of Chicago Union Station, along with additional adjacent real estate owned by Amtrak.

Located directly south of the 1925 Union Station headhouse building, the 2.2-acre full-block site is positioned in a rapidly changing area of the West Loop, with close connections to transit and the major expressways. The program consists of 1.5 million square feet of Class A office space and associated amenities, including two levels of underground

parking. Most of the site – about 1.5 acres – is set aside as a public park, similar to GP's 150 North Riverside project, completed in 2017, with its ample public park and plaza on the river.

"This project will activate a prime site that has been largely underutilised next to Chicago's busiest commuter station," said James Goettsch, FAIA, Chairman and Co-CEO at GP, as well as the design leader for the project. "The office tower and park will bring vibrant, complementary additions to the city," added James.

Union Station Tower is designed as a stepped, three-tiered building approximately 700 feet tall. The building is oriented in the north-south direction along the east side of its site and features a subtly folded façade. The east face of the building aligns with the property line, reinforcing the urban street wall defined by the historic headhouse on the adjacent block. At street level, the



Union Station Tower overall looking northeast. Photo: © Goettsch Partners

new tower's primary façades express V-shaped structural transfers, which open up the ground floor. In this way, the park becomes an integral and welcoming part of the building and its entry sequence, and the building serves as an extension of the park.

Cristina Iglesias is awarded the 2020 Royal Academy Architecture Prize

London, UK – The Royal Academy of Arts recently announced that Cristina Iglesias has been awarded the 2020 Royal Academy Architecture Prize, honouring her inspiring contribution to the culture of architecture.

To mark the third year of the annual prize, which is supported by the Dorfman Foundation, the distinguished international jury have recognised the enduring and vital tradition of public art in enhancing the quality of open civic spaces. Iglesias's works, such as the Rivers and Public Spaces series (2006 – 2018), create a sense of public gathering, with their filling and emptying of water combining both spectacle and an antidote to the noise and pace of urban life surrounding it. Her collaborations



Cristina Iglesias. Photo by Jose Luis López de Zubiria.

both inspire and act as a reminder for architects on the crucial role of public space provision in our cities.

Chaired by the Royal Academician and

founder of Foster + Partners, Norman Foster, jury members include co-founder of Stanton Williams, Alan Stanton RA, artist duo Jane and Louise Wilson RA, Pondicherry and Berlin-based architect, Anupama Kundoo and Professor of Urban Studies at the London School of Economics, Ricky Burdett.

Cristina Iglesias said: "I am very happy to be the recipient of the recognition by the Jury and the Royal Academy of Arts, in particular because it values what I believe is the integral role of sculpture in the city, in the public space. I am interested in the crossings between the architecture and sculpture, creating spaces and moments for contemplation and reflection in the midst of contemporary urban life."

Mario Cucinella Architects and WASP start on site with TECLA a prototype 3D printed global habitat for sustainable living

Milan, Italy – MC A – Mario Cucinella Architects and WASP (Italy's pioneering specialists in 3D printing) have begun the construction of TECLA – a prototype for a 3D printed habitat, near Bologna, Italy. Borne from a vision to provide a home for everyone at a time of exponential population increase and an associated lack of affordable housing, TECLA is a new circular housing model, created using entirely reusable, recyclable materials taken from the local terrain. Built using Crane WASP – the latest innovation in on-site 3D construction, TECLA represents a step-change in the move towards eco-housing.

A United Nations report published in 2017 demonstrates that the current global population of 7.6 billion people is expected to reach 11.2 billion in 2100, and in 2030 nearly 5 billion people are expected to live in cities. Consequently, governments are faced with substantial challenges related to housing solutions. With more and more rural areas being incorporated into cities, it is the idea of city itself that must be challenged.

Since 2012, WASP (World's Advanced Saving Project) have been developing viable construction processes based on the principles of circular economy, that will create 3D printed houses in the shortest period of time, and in the most sustainable way possible. TECLA



Image Credit: TECLA 3D Printed Habitat, © Mario Cucinella Architects

will be the first habitat to be built using multiple collaborative 3D printers, offering a greater scope of scale than ever before. Used in the context of a wider masterplan, TECLA has the potential to become the basis for brand new autonomous eco-cities that are off the current grid.

Designed by MC A and engineered and built by WASP, TECLA will be the first house to be entirely 3D printed using locally sourced clay – a biodegradable and recyclable 'km 0 natural' material which will effectively make the building zero-waste. It will be built to adapt to

multiple environments, and it will be suitable for self-production through the use of WASP's innovative Maker Economy Starter Kit. This approach will limit industrial waste and offer a unique sustainable model that will boost the national and local economy, improving the wellbeing of communities. Furthermore, the scheme will significantly accelerate the construction process as the 3D printer will produce the entire structure at once.

TECLA was developed using in-depth research undertaken by the SOS – School of Sustainability – a professional school founded by Mario Cucinella that combines education, research and practice. The research, conducted with the support of MA students from the Sustainable Environmental Design programme at the Architectural Association School of Architecture in London, explored the cause and effects of homelessness. It interrogated the use of technological advances to enable a solution, based on case studies in locations with different climates. The result is a highly flexible envelope, designed to be resilient to any climate and energy-efficient in a way that traditional housing models are not.

The collaboration between MC A and WASP has been supported by Mapei, a worldwide producer of construction



Image Credit: TECLA by Mario Cucinella Architects and WASP, © Mario Cucinella Architects

materials, which has studied the clay materials and identified the key components within the raw earth mixture to create the final highly optimised printable product. Structural tests were carried out by Milan Ingegneria, a Milan-based engineering consultancy, which worked on the optimisation of the shape in order to create a self-supporting structure.

The frames, customised and highly-efficient, have been engineered and produced by Capoferri, a company specialised in architectural frames and always at the forefront of technological advances, while the landscaping

has been curated by Frassinago, a multidisciplinary company that includes a design studio that deals with landscape architecture, and a firm specialised in the gardening and outdoor sector. RiceHouse provided technical consultancy about bio-materials deriving from rice cultivation waste (rice husk and straw), which affected the thermal performance and living comfort of the building envelope. The lighting project, developed both internally and externally with the aim of achieving the maximum flexibility and sustainability of the intervention, has been developed by Lucifero's.

The model was named TECLA after an imaginary city described by Italo Calvino in *The Invisible Cities* as a 'continuous urban evolution'. It is representative of both companies' efforts to combine technological innovation with a respect for the environment, and an understanding of natural processes.

TECLA received planning approval in May 2019, commenced printing in September 2019, and is due to complete at the beginning of 2020. Starting with the first prototype at WASP headquarters in Massa Lombarda, the project's aim is to work towards communities of smart houses around the world.

The Looking Glass – UN Studio crafts form and function for fashion

Amsterdam, The Netherlands – UNStudio has completed the renovation of the facade of P.C. Hooftstraat 138 in Amsterdam. P.C. Hooftstraat is one of the most elegant shopping streets in Europe, home to only leading international and Dutch designers, flagship stores and boutiques.

Situated in the heart of the Museum Quarter, between Museumplein and the Vondelpark, shops on the P.C. Hooftstraat are a display of Dutch design, creative heritage and elegance. Taking cues from nearby museums for framing Dutch art, UNStudio's design for The Looking Glass sets the stage for a unique and distinctive flagship store by reimagining the display of clothes.

The facade of P.C. Hooftstraat 138 is a celebration of textiles, both in form and function; three curved glass panels flow down from the upper floors in a design that mimics billowing transparent cloth. This play with glass creates opening spaces on a pedestrian eye-level that unveil the latest designs.

In a fluid gesture, fashion and architecture come together to represent and celebrate the craftsmanship and geometry of high-end, tailored clothing, creating harmony between aesthetics and function. All this, while keeping true to the original design of the

three-windowed vertical division of an Amsterdam town house, where on the upper floors above the retail section, a bespoke apartment design will carry high-end architecture through the entire building.

While UNStudio has designed the facade and the interior of the two storey apartment above the retail space, the tenant will be responsible for the interior fit out of the store.

Mastering crafts

Two main features connect the ground and the first floors: glass boxes surrounded by brickwork. The three structural glass 'box elements' are each assembled in the factory and mounted on site. Large laminated annealed low iron glass panels, both curved and straight, are bonded with structural silicone to the adjacent glass panels with stainless steel edge profiles in between, thus forming a glass box. Each glass box is then bonded to a hidden steel frame for protection and shipping purposes, before being installed as a single unit on site.

After installation, a rigid insulation layer is added on top of a GRC panel. Brick slips are then glued on to the insulation layer. Between the slips on the ground floor level, a metal strip is introduced to create slight differentiation from the



Photo: © Evabloem

rest of the brickwork and to meet urban requirements.

8mm wide silicon seams between the polished stainless steel edge profiles and the glass panels allow for any tolerances in the curved glass that might occur during the manufacturing process, while the steel profile protects the glass edges from damage and absorbs the transformation in geometries.

Inspirational Shanghai head appointed to Broadway Malyan Holdings Board

Birmingham, UK – The director who has spearheaded Broadway Malyan's exceptional growth in China over the past decade has been appointed to the practice's main Holdings Board.

Sean Li has built a team of more 50 since launching the Shanghai studio in 2007 and made the studio one of the practice's best performing in recent years by securing key commissions from a range of blue chip clients.

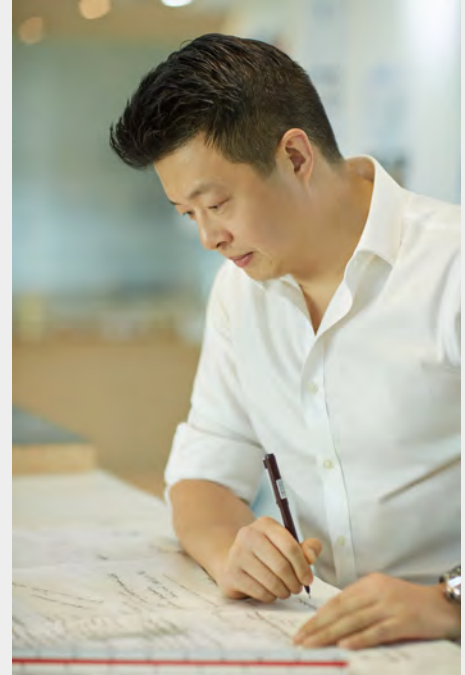
Sean has been a member of the APAC board since 2010 and Singapore-based Ian Simpson, who chairs the firm's APAC board, said Sean's background in design management and business development, as well as his crucial operational and design visioning input, would be vital to the practice's future success in the region.

Ian said: "Sean has been an exceptional colleague and an inspirational leader in China for more than a decade and has had a huge influence in supporting the fantastic growth we have seen in APAC in recent years. China is currently one of the world's strongest economic

regions but there have been many challenges since we first established a studio in Shanghai and Sean's leadership has been fundamental in skilfully navigating these while building strong partnerships colleagues throughout the APAC region."

Sean's appointment to the Holdings Board coincides with the opening in October 2019 of a new operation in Shenzhen, which Sean will also oversee, and he is confident that the timing is right to expand the practice's footprint in what is the world's second largest economy.

Sean said: "Broadway Malyan opened its first international studio more than 20 years ago and it has established itself as a successful global business by recognising and embracing local values and business cultures and this has been right at the heart of our successful growth over the last 12 years in Shanghai. I am delighted to be joining the practice's Holdings Board and I am looking forward to continuing to build our fantastic international team in China and taking the practice across



Sean Li. Photo: © Broadway Malyan

previously unexplored frontiers, both geographically and in terms of our sector expertise."

National Museum of Finland announces winner for their new extension

Helsinki, Finland – JKMM have won the "New National" two-stage anonymous design competition for the extension of the National Museum of Finland organised by The Finnish Heritage Agency, the National Museum of Finland and Senate Properties.

The Helsinki-based practice's proposal, called "Atlas", was selected for 1st place from a total of 185 entries which included large number of proposals from outside Finland.

The existing museum building is by the celebrated studio Herman Gesellius, Armas Lindgren, Eliel Saarinen and is a major landmark in Helsinki and one of Finland's finest examples of National Romantic architecture. The trio won the competition in 1902 and were a selected from a group of 15 entrants.

The 2019 competition brief focussed on offering: additional exhibition space; workshops; a new restaurant in the museum's underused enclosed garden; and improved access including an inviting new entrance for the Museum. It was also important that the new Museum extension will support a dynamic programme of events whilst working in tandem with the

existing building.

The distinctive round disc-shaped white 1,320 square metres concrete roof within the stone walled garden of the Museum is, in fact, so simple, geometric and even primeval in its form that it has an instantly universal appeal.

It was important to JKMM that the new addition to the Museum is independent of the original building and that it respects the historic garden designed by Lindgren. The freestanding sculptural quality of "Atlas" addresses these concerns by creating a pavilion-like structure in keeping with traditions of building types found in park-like settings.

Underneath the cantilevered 2,000 ton concrete roof, the new ground floor restaurant will face the sunniest aspect of the garden and can be used independently of the rest of the Museum, as suggested in the brief. Its walls are made of structural glass that curve around the extension creating a sense of a floating roof as well as introducing natural light to the floors below, where a generous protected stepped "public square" welcomes visitors and leads them to the new exhibition



Aerial view of ATLAS. Image: © JKMM Architects

galleries and other spaces. The abundance of light plays an important role in the design and highlights the materiality and three dimensional qualities of the architecture, both in keeping with those of the original museum building.

The white colour of "Atlas" is a nod to Alvar Aalto's Finlandia Hall just visible from the site. It is also a way to introduce light into the streetscape particularly amidst the darkness of Finnish winter. The new arched point of entry piercing the original museum's garden wall facing Mannerheimintie has been designed to attract visitors, yet it retains and plays on the mystery associated with what many describe as The National Museum's secret garden. Passers-by will see "Atlas" beckoning them behind the Museum's garden's stone wall giving it a subtle yet welcoming presence in the city.

In total, "Atlas" spans nearly 5,000 square metres which includes a 1,200 square metre exhibition space. The new exhibition galleries can also function as events spaces accommodating up to 1,200 visitors. The garden is 10,400 square metres and the existing museum together with its outbuildings 10,451 square metres. The new extension will amount to 4,975 square metres of gross area.

Vortex International opens new headquarters to significantly expand manufacturing capabilities and to facilitate collaboration, creativity and productivity

Montreal, Quebec, Canada – Vortex Aquatic Structures International, a manufacturer and world leader in water attractions, has relocated to larger offices in the same Montreal community of Pointe-Claire to expand its manufacturing capabilities.

With over 220,000 square feet of space, the new facility is three times larger than its prior location and can handle the growing global demand for the company's products while maintaining lead times and quality. Vortex is expanding its team to keep up with increasing demand.

The new facility includes an impressive design studio and product testing labs to support Vortex's innovative culture. Known for its creativity, innovation and pioneering products, Vortex will be able to design and produce bigger, more complex parts to meet demand for boundary-pushing solutions.

Office spaces have been designed to enable the company's collaborative work environment and to stimulate creativity. To accommodate employees and to promote work-life balance, an in-house fitness centre is part of the future plans.

With sustainability as one of its core values, the company substantially renovated and modernised the former Ford Motor Co. factory, upgrading all mechanical, electrical, ventilation and roofing systems with high energy efficiency systems.

The move comes as the company prepares to celebrate its 25th anniversary in 2020. Stephen Hamelin, president of Vortex International, launched the organisation in 1995. This

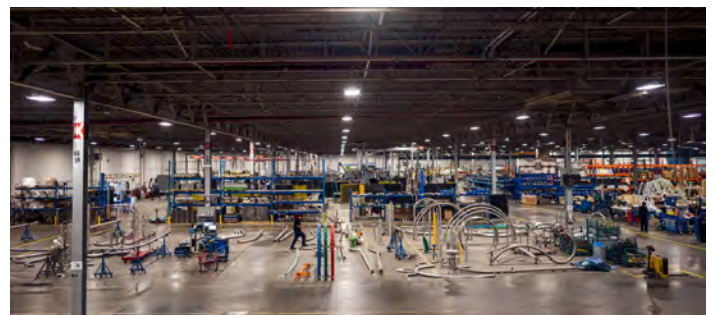


Photo: © Vortex International

is the fourth time that Vortex has moved to accommodate its growth.

"Our new facility will help us expand our capabilities in all facets of our business including manufacturing, R&D and sales. We are investing in new equipment, technology and our people to prepare the organisation for the next 25 years," said Hamelin. "This new location allows us to remain in Montreal, the city where we started and a place with an abundance of talented people in many disciplines. These talents have been one of the key contributors to our success over the years. We are also proud to have transformed a classic, 50-year-old industrial property into a modern state-of-the-art facility," added Hamelin.

56 Leonard, the critically acclaimed 60-storey tower, named top building of the decade

New York, USA – 56 Leonard, the critically acclaimed 60-storey tower, conceived by world-renowned Pritzker Prize-winning architects Herzog & de Meuron and Alexico Group, has been recognised for redefining the New York skyline. The iconic TriBeCa tower was named one of New York City's 10 most important buildings of the past decade by Curbed New York, a publication for American real estate and urban design.

This accolade further cements 56 Leonard as one of the most imaginative and architecturally significant global landmarks to grace the Manhattan skyline. The cascading 60 storey structure at the corner of Church and Leonard Street reveal breathtaking views of the cityscape, rivers, bridges and beyond.

In an unprecedented collaboration between artist and architect, this iconic tower is seamlessly integrated with a specially commissioned 40-ton, 48 foot-long, 19 foot-high stainless steel enigmatic balloon-like form sculpture that both prop-up the building and be squashed by it at its base, by internationally celebrated, Turner Prize-winning artist Anish Kapoor. This monumental mirror sculpture is Kapoor's first permanent public artwork in New York City.

56 Leonard, which recently served as the setting for Vogue magazine's January 2020 issue featuring Cardi B, offers one final penthouse for sale. At over 700 feet in the sky, Penthouse 57 – a 5,252-square-foot, 4-bedroom, 4.5-bathroom condominium with 1,763 square feet of outdoor living spaces spread across three terraces and balconies – is listed for \$24.5 million. Corcoran Sunshine Marketing Group is the exclusive marketing and sales agent for the building.



56 Leonard. Image credit: Alexander Severin

Snøhetta's design for 550 Madison Garden moves forward with official approval from NYC Planning Commission

New York City, New York, USA – Snøhetta's design for the public garden and revitalisation of The Olayan Group's 550 Madison received final and unanimous approval from the City Planning Commission on January 6th, 2020, following the approval from Manhattan Community Board 5 in December 2019.

The design re-envisioned the building's public space as a generously expanded, densely vegetated garden. As a vibrant sensory retreat, its transformation draws upon the architectural heritage, the activity of the neighbourhood, and the natural history of the region. As a

privately-owned public space (POPS) that invites people to slow down, linger, and connect to one another and their surroundings, 550 Madison's new garden embraces the powerful contemporary role POPS can play within the context of New York's ever-changing urban fabric.

"Privately-owned public spaces are a critical part of New York's public realm. Urban life thrives in and around spaces that allow us to connect with one another and to nature," said Michelle DeIk, Partner and Director of Landscape Architecture at Snøhetta. "Moreover, we need to make the most of the spaces we already have and recognize that they are part of a



550 Madison. Photo: © Snøhetta and MOARE

network that contribute to the livelihood of the city. We're thrilled to be a part of renewing the future of this historic site."

EmiratesGBC elects new management committee with Ali Al Jassim as Chairman of the Board



HE Ali Al Jassim, Chairman, Emirates Green Building Council. Photo: © Emirates Green Building Council



Farah Yassine, Vice Chair, Emirates Green Building Council. Photo: © Emirates Green Building Council



Afra Majid Alowais, Vice Chair, Emirates Green Building Council. Photo: © Emirates Green Building Council

Dubai, UAE – The Board of Directors of Emirates Green Building Council (EmiratesGBC), an independent forum aimed at conserving the environment by strengthening and promoting green building practices, elected its new management committee for 2020–21, with His Excellency Ali Al Jassim, CEO of Etihad Energy Services, as the new Chairman.

HE Ali Al Jassim succeeds Saeed Al Abbar, Managing Director at AESG, who served as EmiratesGBC Chair for the past six years. Saeed has played a significant role in the organisation and will continue to serve as an active Board member.

The new five-member management committee includes: Afra Al Owais and Farah Yassine (Vice Chairs), Habiba Al Marashi (Treasurer) and Huda Shaka (Secretary). Afra Al Owais, Chief Efficiency Officer at Sharjah Electricity & Water Authority, and Farah Yassine, Associate Consultant – Sustainable Resource Management at WSP, takes office from Khaled Bushnaq, CEO of Energy Management Services (EMS).

Huda Shaka, Associate Director of Arup, the multinational professional services firm, takes charge from Sarfraz Dairkee, General Manager of MAHY Khoory. Habiba Al Marashi, one of the founders of EmiratesGBC, retains her role as a Treasurer. Marashi, Bushnaq and Dairkee have all been associated with EmiratesGBC since its inception and

have played pivotal roles in increasing awareness about driving sustainable built environments. The new team will assume office on January 1, 2020.

A new board has also been constituted with a total membership of 35 comprising individuals and businesses. The 11 added board members, some re-elected, include: AESG Project Development Consultant, Buro Happold Consulting Engineering Ltd, Cundall Johnston & Partners LLP, Enova Facilities Management Services LLC, KEO International Consultant, Knauf LLC, Multiplex Middle East, Ramboll Middle East Limited – Dubai Branch, Saint-Gobain, Siemens and WSP. Recently, EmiratesGBC had appointed eight Emirati Board members to champion the UAE's vision for sustainable development.

Thanking the Board on the appointment, HE Ali Al Jassim said: "As the UAE takes a decisive step 'Toward the Next 50,' driving sustainable built environments will be of strategic importance in achieving our leadership's vision. Ensuring sustainable development is a national priority outlined in UAE Vision 2021 as well as the UAE Centennial 2071. For more than a decade, EmiratesGBC has accomplished outstanding achievements in strengthening awareness about sustainable built environments as well as in driving our nation towards our clean energy and net zero carbon commitments. The new board will continue to build

on the achievements, and thank and congratulate Saeed Al Abbar as well as the former board members for their excellent work."

Saeed Al Abbar said: "It has been a great honour to lead EmiratesGBC as its Chairman for the past six years. I am extremely proud of our collective achievements in pushing the boundaries of sustainability and positioning the UAE as a role model in developing sustainable built environments. Our team, supported by our members and partners in government and academia, have diligently focused on driving sustainability best practice across the building value chain and I thank all for their collective commitment to a better built environment in the UAE. I wish the new Board all success in further cementing UAE as a leader in achieving the highest levels of sustainable development."

The new board will work towards achieving EmiratesGBC's vision to establish the UAE as a global leader for sustainability in the built environment driven by its mission of being a catalyst for collaboration and a hub for excellence to promote sustainable built environments. With a total membership of over 170, EmiratesGBC rolls out a suite of activities such as networking events, technical workshops and trainings in order to push sustainability in the UAE and the wider Middle East.

Singapore Green Building Council moves into a new office with sustainable design concept

Singapore – On February 3 2020, the Singapore Green Building Council (SGBC) officially opened its new base of operations at the BCA Braddell Campus (formerly known as the BCA Academy), signalling the Council's leading role in the transformation of the Singapore building and construction industry.

SGBC began life in 2009 with only a handful of full-time Secretariat staff seconded from the Building and Construction Authority (BCA). As industry support for the organisation grew, the Secretariat expanded along with larger office premises correspondingly required for the Council to effectively discharge its duties. From a mandate to certify green building products during its inception to now covering the entire green building ecosystem including managing Singapore's pool of Green Mark Accredited Professionals and the co-assessment of Green Mark building projects, SGBC has come full circle a decade on.

"SGBC's role in the industry and built environment ecosystem has greatly expanded in the past 10 years, but



Reception area. Photo: © Singapore Green Building Council

we would never have come this far without the support of our Members, partners and the industry," said Dr. Ho Nyok Yong, President of SGBC. "The new SGBC Office is a testament to SGBC's collaborative nature, working with

like-minded organisations to create a healthy and sustainable space that showcases exemplary green building design. I hope that this new office will inspire the industry to create their own green and healthy places and spaces,"



Mr Hugh Lim, Chief Executive Officer of the Building and Construction Authority (left) and Dr. Ho Nyok Yong, President of SGBC, cut the ribbon to mark the official opening of SGBC's new office.



Main workspace area. Photo: © Singapore Green Building Council

added Dr. Ho.

Mr Hugh Lim, Chief Executive Officer of the Building and Construction Authority said, "Since the setup of SGBC in 2009, BCA has partnered SGBC on various policy initiatives to drive the green building movement and build green building capabilities in Singapore's Built Environment sector. Our firms have also contributed to the greening of buildings internationally. With growing infrastructure needs, the development of green buildings is a key strategy to mitigate climate change and has proven to offer positive Net Present Value when seen from the building lifecycle cost perspective. We look forward to greater partnership with SGBC in pushing the boundaries in our green building journey, as our vital contribution to mitigating climate change."

Designed and renovated with an emphasis on sustainability and wellbeing, the SGBC Office is inspired by nature to create a park-like ambience and an open and collaborative base from which SGBC's programmes and initiatives will be driven. The SGBC Office exemplifies sustainable office interior design principles with an emphasis on health, wellbeing and productivity. The office was designed to provide a variety of space types for activity-based working, while fittings and furnishes were specially selected to ensure low emissions of volatile

organic compounds (VOCs). The office also maximises use of daylight through an effective shading strategy and usage of light shelves, reducing the need for artificial lighting. The office also addresses all seven features of a green and healthy workplace put forth by the World Green Building Council's Better Places for People project.

Accentuating the collaborative spirit of the Council, the new office was

made possible with the contributions of SGBC Member organisations who volunteered expertise or certified green building solutions. A design workshop was conducted by Nanyang Polytechnic's School of Design for SGBC Secretariat staff to provide feedback and preferences for their new workplace, and these concepts were implemented to varying degrees in the final design. The final design and project management was undertaken by SGBC Member CIAP Architects.

The move to the BCA Braddell Campus also highlights the intensifying of collaborative efforts with BCA. Since 2019, SGBC has taken over the administration of the nation's green building professionals and has also commenced the co-assessment of Green Mark projects with BCA, among other collaborations. With the SGBC Office sited within BCA's Braddell Campus, both organisations will be able to better tap on each other's strengths to collectively advance Singapore's green building ambitions.

Along with the official opening of its new premises, SGBC also hosted a mass prosperity toss (*lo-hei*) with more than 150 representatives from its Member organisations and partners to celebrate the Lunar New Year.



Discussion pod. Photo: © Singapore Green Building Council





The Star Event Centre

Mapei adhesives and grouts were used in the most luxurious hotel and casino in the capital of new South Wales, Australia.

The Star is a six-star, 60-level hotel and residential tower in Sydney. The competition winning design features a pair of gently adjusting tower-forms, slim at the base, that taper outwards at the top. This is an organic responsive architecture formed and shaped by the line of winter sun into public space and parks, curved to reduce wind effects and optimising amenity, access to harbour views and sunlight for the occupants.

The Star is Sydney's premium entertainment destination. The Star offers award-winning chefs and restaurants, luxury hotel accommodation and serviced apartments, a 13-room day spa, an international designer retail collection as well a world class casino and international nightclub Marquee. The 100 million US dollar Star Event Centre is a state-of-the-art multi-use venue and has hosted more than 400 events since opening in January 2013, and international talent such as Coldplay, Ricky Martin, Seal, Garbage, One Republic, Jessica Mauboy and



About 2,000 square metres of Cararra Marble and Nero Marquina marble slabs were installed on the floor in the interiors using KERAFLEX MAXI S1 adhesive.

Alicia Keys. The new 22 million US dollar "Grand Foyer" includes a 25-metres-long, 8K resolution crescent-shaped screen which showcases the works of Australian artists, university students, cinematographers and animators. Alongside the digital canvas, is the first sculptural water installation of its design in the Southern Hemisphere: the "Aquatique" artwork of falling water.

Waterproofing substrates and installing large-size ceramic tiles

A redevelopment project was carried out which also included a brand-new bar, luxury retailers and a world first permanent indoor light and interactive digital art foyer. The installation company Nash Group was commissioned to install 2,000 square metres of Cararra marble and Nero Marquina marble on the interior floors using KERAFLEX MAXI S1 high performance adhesive.

About 2,000 square metres of black granite and grey granite slabs were installed in the external roadway entrance and footpaths directly outside the hotel using KERAQUICK S1, a fast-setting adhesive manufactured and distributed on the Australian market by Mapei Australia, which was superseded on the international market by KERAQUICK S1 MAXI.

1000 x 3000 mm large porcelain tiles were installed in the restrooms and 1200 x 1200 mm panels in the water feature of the main foyer by using GRANIRAPID cementitious adhesive. All the tile and stone joints were grouted with ULTRACOLOR PLUS anti-efflorescence, quick-setting and drying mortar. Joints in the water feature were grouted with KERAPOXY epoxy grout. MAPESIL AC was used for sealing the expansion joints. Prior to the installation, all the wet substrates had been waterproofed using MAPELASTIC SMART high flexibility cementitious mortar.

Mapei Products

Waterproofing substrates: Mapelastic Smart

Bonding and grouting ceramic tiles and stone materials: Keraflex Maxi S1, Keraquick S1*, Granirapid, Ultracolor Plus, Kerapoxy, Mapesil AC

*This product is manufactured and distributed on the Australian market by Mapei Australia



Keraflex Maxi S1

Article source: *Realtà Mapei International* no. 77/2019.

For more information, email mapei@mapei.com.sg.

PROJECT DATA

Project Name: The Star Casino
Location: Sydney, Australia
Period of Construction: 2018-2019
Period of the Intervention: 2018-2019
Intervention by Mapei: Supplying products to waterproof substrates, installing ceramic tiles and marble slabs and grouting joints
Client: Star Entertainment Group
Design: FJMT
Main Contractor: Shape
Installation Company: The Nash Group
Mapei Coordinator: Joe Ceravolo, Mapei Australia
Photos: © Mapei

Capella Sanya

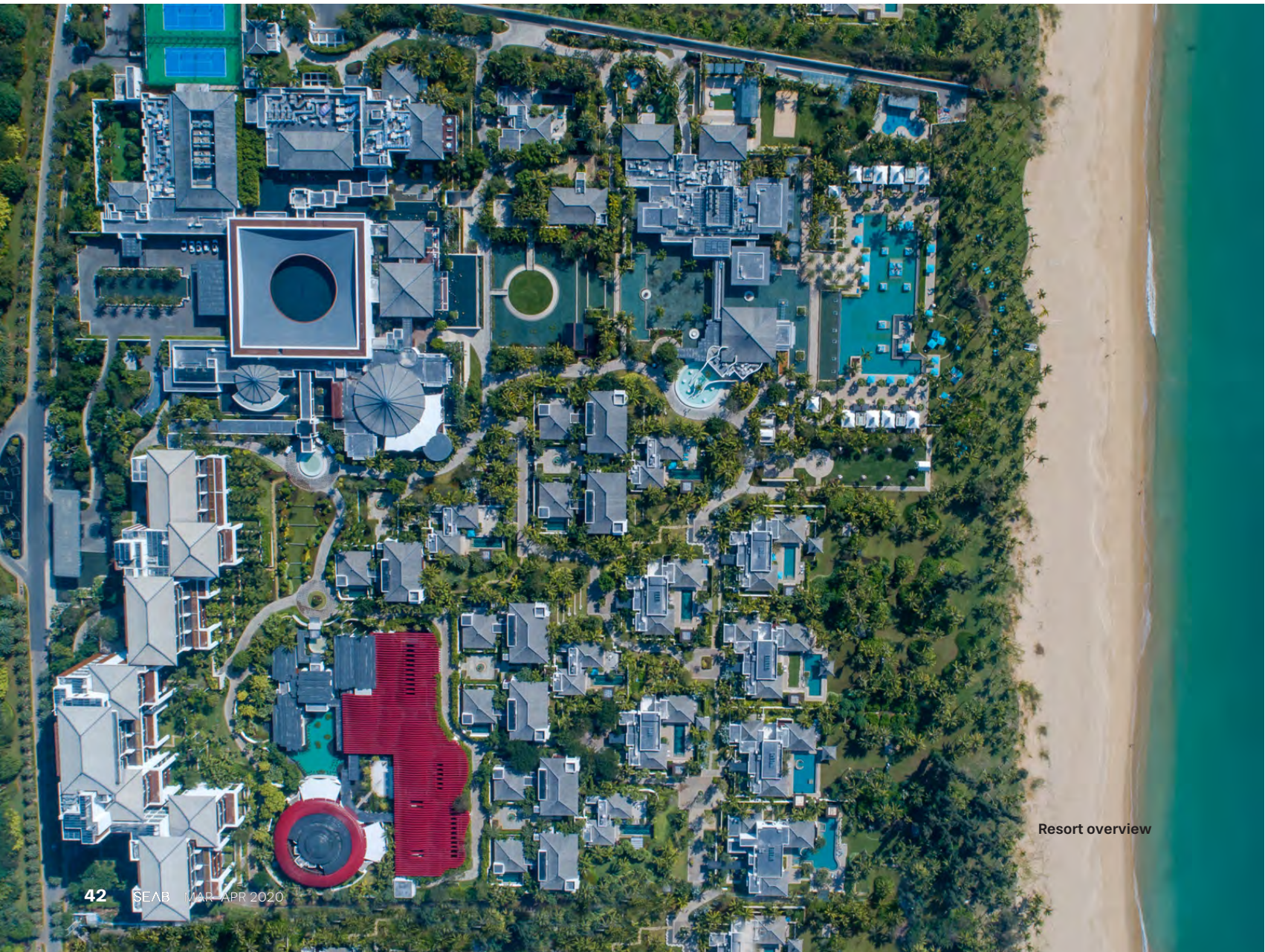
Designed by visionary architects Jean-Michel Gathy and Bill Bensley, Capella Sanya is a prestigious resort inspired by legendary Maritime Silk Road trade route.

In January 2019, Singapore's Capella Hotel Group and prominent Chinese developer China Gezhouba Group Real Estate celebrated the official grand opening of Capella Sanya on China's tropical island of Hainan.

The prestigious beachfront retreat promises to "set a new benchmark for China's luxury beach resorts" – and is inspired

by the fabled history of China's ancient Maritime Silk Road.

Designed as a collaborative art piece by two of the world's most celebrated, visionary hotel & resort architects, Jean-Michel Gathy and Bill Bensley, Capella Sanya is one of the Asian hospitality industry's most exciting new openings of the year.



Resort overview

With 190 exquisitely-designed rooms and villas amid lush gardens overlooking the South China Sea, the resort references the legendary trade route in its grand design and in every detail of its "extraordinary journey" – from décor, cuisine and even menu design to landscaping, recreational activities and spa pampering.

"The combined creative genius of Jean-Michel Gathy and Bill Bensley, Capella Sanya ensures guests a stunning backdrop against which to experience a wealth of meticulously crafted experiences on a themed journey across the New Silk Road," said General Manager Yngvar Stray.

The stunning 4,257 square metres *Dream Odyssey Pool* inspired by Chinese ancient culture that people believe the universe is round and earth is square, the world-renowned architect Jean-Michel Gathy had designed a work of art that refers to this old tale.

Hainan's most luxurious accommodation

Capella's renown for bespoke hospitality as one of the world's pre-eminent luxury brands is underlined by 190 of the island's most elegant and spacious rooms, suites and villas, which are the most generously proportioned on the island.

They range from 88 square metres ocean-front and garden rooms to grand ocean and garden suites and clusters of one-to-four bedroom pool villas measuring from 170-816 square metres, as well as a prestigious chairman's penthouse.

The 4-Bedroom Oceanfront Pool Villa is the largest residence of the resort. Complete with its own swimming pool, jacuzzi, outdoor bar, massage pavilion, sunken lawn, BBQ pavilion, garage, kitchen and staff accommodation, it is also an alternative venue for an intimate wedding or celebration.

All accommodation features premium wireless internet, 65-inch flat screen IPTV and spacious balconies, with luxurious amenities by Diptyque, and ultra-soft linen by Rivolta Carmignani.

Capella Culturist

A hallmark of the Capella brand is that each guest has a Capella Culturist assigned to take care of all their needs and personalize their stay, from



1-bedroom Grand Pool Villa bedroom



3-bedroom Ocean Front Villa living room

Dream Odyssey Pool





The Dempsey



Silk Road



Front desk

before they arrive, throughout their stay and sometimes beyond. They can also provide insider access to the rich culture and local experiences in Sanya.

Maritime Silk Road wining & dining

Cuisine, beverages and even menu design at the four distinctive restaurants, bars and lounges, pay homage to the rich cultures, flavours and spices along the fabled trade route. Gracious and refined signature Chinese fine dining restaurant *Lan Ting* is styled after a traditional Chinese tea house – complete with a classical red-tiled roof.

Living Room & The Bar continues the Maritime Silk Road journey in a club setting with snacks and cocktails inspired by spices, herbs, teas and ingredients along the voyages; and antique-style drinks menu designed as an ancient seafarer's spice-route map.

Chic tropical pool and beachfront restaurant The Dempsey likewise pays homage to the theme, with comfort food, spices, fruits and enticing cocktails.

Weddings & events

Capella Sanya is an ideal venue for prestigious weddings, banquets and events. The resort offers over 2,000 square metres of meeting and function facilities including a 646 square metres ballroom catering for up to 520 guests, and range of bespoke indoor and outdoor venues including a 255 square metres Romance Lawn on its own 'island' in a lake in the middle of the resort – a breathtaking backdrop for couples to become the focus of attention at dream weddings.



Romance Lawn

Health & Wellness in tune with the moon

Capella Sanya offers among the most extensive health and wellness facilities in China. AURIGA Wellness is a serene 4,020 square metres sanctuary for holistic pampering – a cocoon for guests to rest, rejuvenate and tap into celestial rhythms through a distinctive approach to wellness and beauty based on the cycles of the moon.

A destination in itself, the spa complex debuts Hainan's first authentic Moroccan bath – and also the region's first 'Snow Cabin' for an invigorating wintry experience amid Hainan's year-round tropical warmth. Healthy recreational facilities are complete with a state-of-the-art Athletic Centre with its own private 125 square metres heated lap pool, two flood-lit tennis courts and a full range of water sports.

PROJECT DATA

Project Name: Capella Sanya
Location: Lingshui County, Hainan, China
Owner: China Gezhouba Group Real Estate
Architect Firm: Denniston
Size: 13.8 hectares
Opening date: January 2019
Photos: © Capella Sanya



“The design of Capella Sanya reflects rich Chinese cultural elements combining them with the beauty of nature and luxurious architectural spaces. For example, in China flowing water symbolises success, so we have created a complete central water system, which starts at the lobby with a water fountain and flows down through the resort. Serene, reflective pools are layered throughout the resort and a distinguishing feature.”

– Jean-Michel Gathy, Founder & Principal Designer of Denniston



Exterior of the Muji Hotel Ginza.

Muji Hotel Ginza

Muji Hotel opened its first ever hotel in Japan on 4 April 2019. Called Muji Hotel Ginza, the interior design of the hotel uses a lot of natural materials to combine the old and the new.

Ryohin Keikaku Co., Ltd. and UDS Ltd. of Odakyu Group officially opened the hotel on 4 April 2019. Based on the concept "anti-gorgeous, anti-cheap", Muji Hotel offers great sleep at the right price, provides a space supporting both body and soul while away from home, and connects travelers to local communities.

Ginza will be the third location following Shenzhen and Beijing. Muji Hotel Ginza opened together with the global flagship store Muji Ginza. There is a reception and the restaurant "WA" on the sixth floor and a total of 79 guest rooms from 7th to 10th floor.

Muji Hotel Ginza, same as Muji Hotel Beijing which opened last year in Beijing China, is operated by UDS in planning, interior design and management under the supervision of Ryohin Keikaku in terms of total concept and interior design. The hotel seeks to present and express the Muji philosophy to the customers. It aims at becoming a base for customers to enjoy a deeper taste of Ginza, a place where the olden meets the modern, and to provide a comfortable environment as if the journey is an extension of the everyday life.



Entrance of the Muji Hotel Ginza.



There are a total of 79 guest rooms from 7th to 10th floor of Muji Hotel Ginza.



Restaurant "WA" on the sixth floor of Muji Hotel Ginza.

Interior decorations concentrate on natural materials such as wood, stone and soil. The common area applies materials that have the flavour of time, such as flagstone of tramway from 50 years ago and the waste materials from ships. Services such as Ginza tour conducted by the hotel staff or the rental service of running wear are also in preparation.

All the 79 rooms make elaborate efforts to support both body and soul while away from home. It wishes to create a sense of comfort as relaxing as home. The hotel selects mattress base on the research of sleep and posture, provide towels with a soft feeling of textile and arrange lighting devices which induce nature and high-quality sleep. There are nine types of elongate rooms facing the window, including rooms equipped with Tatami (Japanese straw floor covering), rooms equipped with bunk bed and rooms that can host three to four customers. Some of the items and devices used in the hotel rooms can also be purchased at Muji store from floor 1 to 6.

As a hotel that embodies the philosophy of Muji, UDS aimed that guests can feel the "pleasant life" by MUJI throughout their stays, and to create a hotel to smoothly merges with the local area and becomes more attractive over time.

PROJECT DATA

Project Name: Muji Hotel Ginza
Location: Tokyo, Japan
Hotel Managed By: UDS Ltd
Interior Design Firm: UDS Ltd
Total Floor Area: 3,510.39 square metres
Completion: 2019
Photos: © Nacasa & Partners



“Based on the concept “Anti-Gorgeous Anti-Cheap”, we aimed to create a space where guests can stay comfortably like an extension of your daily life even while traveling. As the floors were originally planned as office, the guest rooms were made making good use of the height of the floor and ensuring high ceilings. There are various types of beds such as bunk bed and Tatami. In some rooms, the doors to the bathroom are designed to be used as storage, and the bathrooms are placed in alternate positions in the left and right rooms. While making the most of the limited space, we have devised ways to make guests feel comfortable.

– Keiichi Ito, Main Designer, UDS Ltd



Exterior facade of
Kilmington Da An.

Kimpton Da An Hotel

Kimpton Da An Hotel, designed by Neri & Hu, opened in Taipei City in March 2019. This is the hotel's first appearance in Asia Pacific.

In March 2019, the Kimpton Da An Hotel, a boutique hotel brand of InterContinental Hotels Group®, celebrated its grand opening and marked its first appearance in Asia Pacific. With the unique location and sophisticated design, the hotel is poised as an urban sanctuary and offers heart-warming services.

Kimpton Da An Hotel is ideally located in the heart of Taipei City, allowing guest easy access to cafes, boutiques and galleries within few steps, while providing a welcoming environment decorated with local artisanal craft. The hotel is designed by Neri & Hu, the winner of M&O Asia in 2015, which is their first hotel design project in Taiwan.

Once entered, the lush greenery and sophisticated water feature, coupled with custom lighting strategically placed within the double height space, immediately transport guests to a world away.

Design concept

The concept for the hotel design was to create an interior sanctuary – an urban retreat that denies direct connection to outside offering respite from the bustling streets and alleys of Taipei.

The design inspiration came from Taipei's everyday from the rich alleyways, to the layers of architectural facades and screens to the leisurely attitude of its inhabitants. It was important for Neri &

Hu to bring the old Taipei and its vibrancy to the new and modern xingye.

According to Neri & Hu, the key element of the ground floor lobby design was to insert a carved mass letting natural light inside for a play with light and shadow. The sculpted high/low ceiling offers different spatial experiences – a cocooned space for the lounge area and the double height atrium at the arrival. Tiled walls with curated openings frame the garden outside are a nod to the ubiquitous tile work often found in the alleys of Taipei, providing a quiet backdrop. Intricate metal work housed around millworks is inspired from layers of craftsmanship found in window and facade details in the neighbourhood.



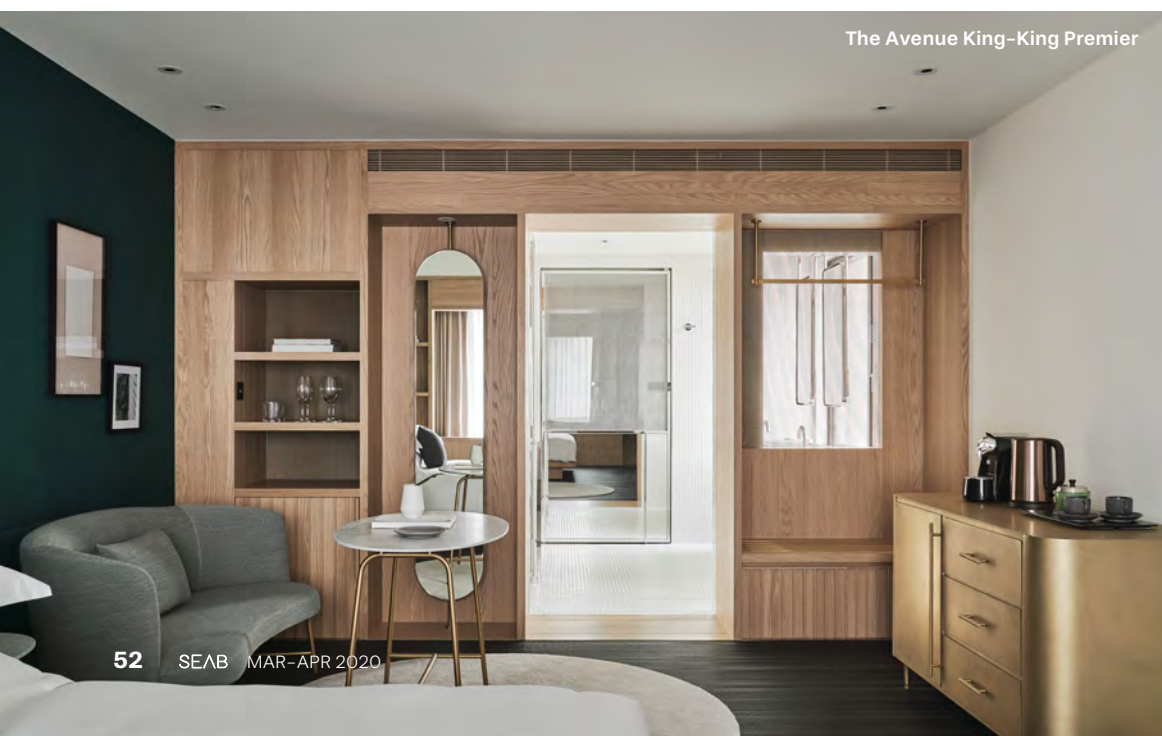
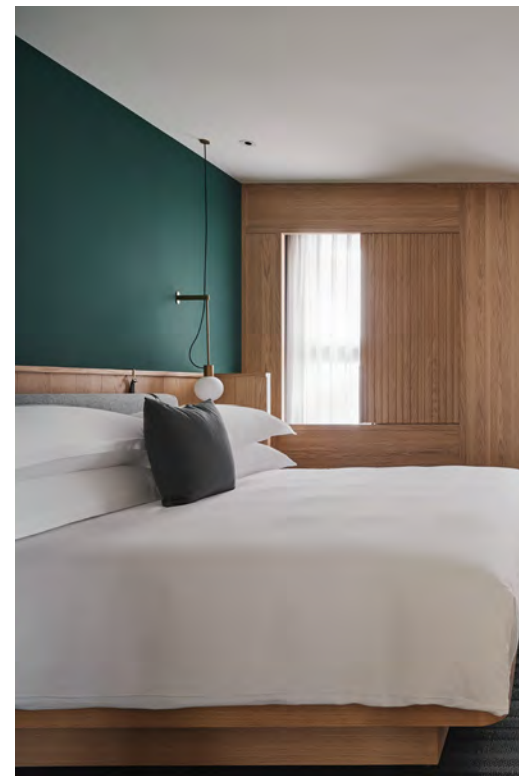
Exterior of Kimpton Da An.



Kimpton Da An living room



The Lane-Superior King



The Avenue King-King Premier





The Tavernist main dining room



The Alley-Deluxe King-Twin



The Da An Suite



Lyndon Neri (left) and Rossana Hu, Founders of Neri & Hu. Photo: © Andrew Rowat

“ The concept for the hotel design was to create an interior sanctuary – an urban retreat that denies direct connection to outside offering respite from the bustling streets and alleys of Taipei.

– Lyndon Neri and Rossana Hu, Founders of Neri & Hu

The guest room represents the most individual experience of the sanctuary concept. The wooden insertions expressed as thresholds sectionalizing the space creating the in-between spaces. Enclosed in between the thresholds, this in-between space offers a momentary retreat – an introverted space for contemplation. Punctured openings and windows in light colour wood on thresholds offer optional views internally and externally to the outside.

A specific message that Neri & Hu wanted to convey in the design was the idea of an interior sanctuary. A sense of calmness and respite to counter the busy street of Taipei without losing the rich essence of what makes it an interesting place.

Tavernist

The Tavernist restaurant is a celebration of the communal dining experience as an extension to the street life culture

of Taipei. Different communal areas are divided by continuous enfilade walls creating a series of interconnected spaces, a common arrangement and typology often found in Asia. Enfilade walls are lifted with wooded legs and detached from the existing building perimeter, giving it sense of ephemerality. Rich colours of fluted tiles and metal work pattern wallpapers on the enfilade walls are inspired from the street and alleys of Taipei.

PROJECT DATA

Project Name: Kimpton Da An Taipei
Location: Taipei City, Taiwan
Client: Cornerstone Partner Group
Architect Firm: Neri & Hu
Size: 14,964.17 square metres
Completion: 2019
Photos: © Kimpton Da An

Sheraton



Hotel entrance Sheraton Shenzhen Nanshan.

Sheraton Zhenzhen Nanshan

Through a detailed analysis of the surroundings, architecture, landscape and interiors, CCD/ Cheng Chung Design (HK) utilised a holistic approach to design Sheraton Zhenzhen Nanshan.

Since ancient times, preeminent talents have been inseparably related to the lands that nurtured them. Located in Xili, Nanshan District, University Town of Shenzhen not only provides a free academic, artistic and humanistic environment, but also attracts Sheraton to settle in, which is the first international hotel entering this area. With such a humanistic setting, the hotel offers a spiritual habitat for the metropolitans.

Through comprehensive analysis of the surroundings, architecture, landscape and interiors, CCD/Cheng Chung Design (HK) utilised a holistic approach to define the urban "bleisure" hotel. Design elements extracted from the architectural blocks are utilised to the spatial layout, so as to add a sense of



Reception hall



Atrium lobby bar

three-dimensional structure to the space. Moreover, lifestyle elements are also applied to the interior design, making the hotel more relevant to daily life.

Entrance and lobby: landscaped courtyard

CCD/Cheng Chung Design (HK) has imagined the design based on "mountain, water and cloud". The entrance yard is surrounded by bamboos, with the waterscape in the middle, which is as clear as a mirror. The art installation "Nebula" at the gate spreads out above the water, presenting a new look of Oriental yards. The reception area is as cozy as a living room. The casual furniture and specially shaped oversize sofas liberate the guests from the rigidly upright sitting posture and enable them to lean backwards for 30° in a relaxed manner. In this way, people's mind can also be revived. A large metal sculpture stands on the lobby floor like a gem, with its colorful mirror-like surfaces creating diversified reflections according to the varying environment. Beside it, the specular stainless steel frameworks and glass bricks inserted together form translucent partitions.

Atrium lobby bar: urban oasis

With an atrium and a water feature, the lobby bar is built into a poetic world awash with interactions among lights, shadows

and water. The ecological environment of Xili was introduced into the interior space. Verdant trees make pleasant shades, lights and shadows to interplay, and the figure of people occasionally appears from the randomly opened or closed windows on two sides. All the elaborately-designed vivid scenes provide the guests with a pleasing experience of being in an "urban oasis".

In the all-day-dining restaurant, tropical greenery, wood battens, shelves and display racks are arranged in a subtle and staggered way. Daylight flexibly moves around, casts floating brick shadows on architectural surfaces, and generates irregular and oblique tree shadows on walls, all of which inject a natural and playful ambience into the space.

Guest rooms: partitioned yet unenclosed layering

There are various types of guest rooms, which are designed based on the architectural form and closely connected and integrated with the surrounding environment. The open spatial layout makes people feel easeful and free. The walk-in closet and the toilet constitute a complete space, while the central island links all the functions, stylish yet flexible. The space features an elegant, serene and restrained tone, dotted with sapphire blue and light golden colour. Facing the middle of the large comfortable bed, an end table was placed. In the



Banquet hall



All-day dining restaurant



Suite

space filled with a southeast-Asia-style relaxing atmosphere, the guests can enjoy the view of distant hills when sitting beside windows.

Entering the suite is like starting a journey of exploration. The irregular plane leads the guests to discover surprises in every corner. The transparent acrylic adds fun to the space, and produces interesting visual effects. Near the window, the arc-shaped sofa, desk, chair, lamps and table soothe guests' mind in a poised manner. The spatial design is characterised by a sense of layering, with the living area, bedroom and washroom unfolding layer by layer. Translucent screens are used as partitions, which separate all the areas in an unenclosed way, hence ensuring an open and cozy interior atmosphere.

PROJECT DATA

Project Name: Sheraton Shenzhen Nanshan

Location: Shenzhen, China

Client: Sheraton Hotel

Interior Design: CCD/Cheng Chung Design (HK)

Size: 42,908 square metres

Opening Date: 27 April 2019

Photographer: Qiu Xin

Photo Copyright: CCD/Cheng Chung Design (HK)



“ Through comprehensive analysis of the surroundings, architecture, landscape and interiors, we utilised a holistic approach to define the urban “bleisure” hotel. For example, we designed the entrance and lobby based on “mountain, water and cloud”, and built the lobby bar into a poetic world awash with interactions among lights, shadows and water. All the elaborately-designed vivid scenes provide the guests with a pleasing experience of being in an “urban oasis”.

– Mr Joe Cheng, Founder of CCD/Cheng Chung Design (HK)



Facade of Mandarin Oriental Wangfujing.
Photo: © Mandarin Oriental Wangfujing, Beijing

Mandarin Oriental Wangfujing, Beijing

With a spectacular location in the heart of China's capital, Mandarin Oriental Wangfujing is the city's premier boutique hotel, designed to cater to the sophisticated needs of the contemporary traveller.

Mandarin Oriental Wangfujing, Beijing is located in the heart of historic Beijing, with spectacular roof-terrace views of the Forbidden City, and is the first Mandarin Oriental property in China's capital. It is the city's most luxurious boutique hotel and features the Group's core pillars of chic design and architecture, exceptional dining facilities and a Spa at Mandarin Oriental, offering the latest wellness and beauty facilities. Above all, guests are treated to the exceptional levels of legendary service for which Mandarin Oriental is renowned.

Hirsch Bedner Associates, one of the world's leading hospitality design firms, conceptualised the hotel as a modern-day courtyard mansion, Mandarin Oriental Hotel conveys and reinterprets the rich history of "Wang Fu", the aristocratic

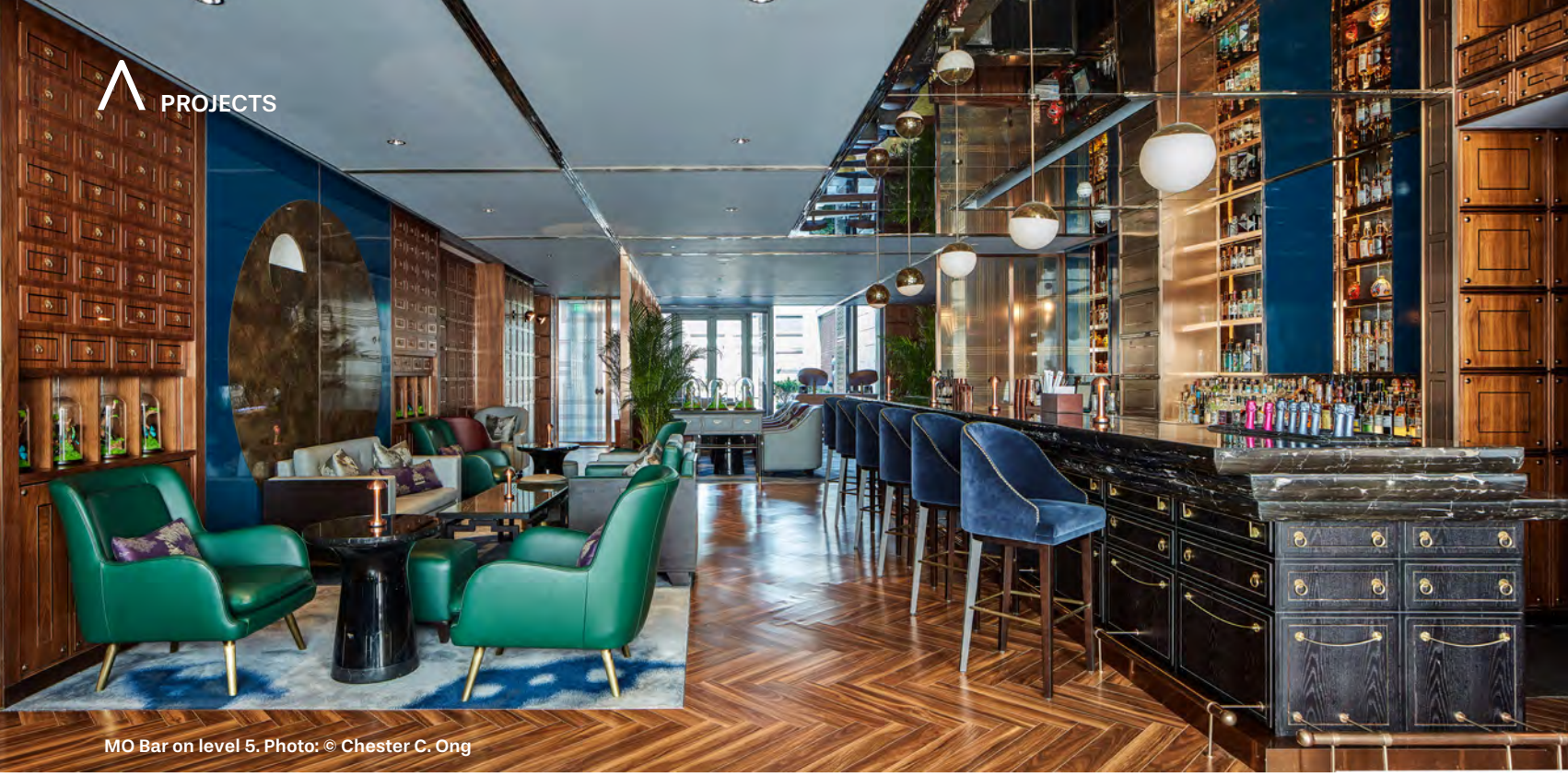
residences built in the Qing Dynasty, with its distinctively contemporary design.

The guests are brought into a skylight court when they enter the transit lobby from the street or the adjacent mall. Inside, a central water feature surrounded by dark stone facades and soft-lit lampshades pays homage to the historic well. Continuing into the entryway, guests will marvel at the embroidered cobalt and gold panels, accompanied by a welcoming fireplace, timber walls trimmed with dark lacquer shelves, and autumnal coloured area rugs. An energetic and richly hued three-fish objet d'art designed especially for the hotel by Frank Gehry hangs in the centre, creating a dynamic focal point.

The fifth floor is home for Café Zi, MO Bar, and The Library,

Outdoor MO Bar. Photo: © Mandarin Oriental Wangfujing, Beijing





MO Bar on level 5. Photo: © Chester C. Ong



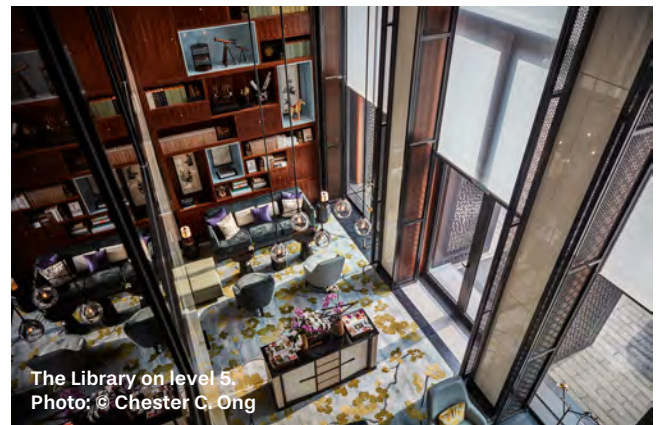
Café Zi on level 5. Photo: © Chester C. Ong



Lobby on level 1. Photo: © Chester C. Ong

all of which open onto an expansive rooftop garden terrace with spectacular views of the ancient imperial palace. Café Zi, the hotel's all-day dining restaurant, is envisioned as a Chinese garden blossoming in the morning sun. Laser-cut floral panels half-descended from the ceiling, and ceramic-tiled partitions framed in dark timber create pockets of semi-private dining areas. A decorative screen at one end of the café becomes a sliding door to MO Bar, a midnight garden where alchemists create signature drinks. The dark lacquered cabinets and leather paneled pull-out drawers remind the guests of the past Chinese apothecaries who mixed potions to produce efficacious remedies for ailing royalty and aristocrats.

The Library, a two-story modern drawing room serving a range of palatable small bites, completes the epicurean journey. The theme of The Library draws inspiration from Australian Sir George Ernest Morrison, a government adviser known for his extraordinary adventures to China. A fresh palette and understated design create a contemplative place for browsing sought-after artworks and books, including a 60-volume *The Complete*



The Library on level 5. Photo: © Chester C. Ong



Premier room. Photo: © Chester C. Ong

Collection of Chinese Arts, covering the nation's art treasures over a period of 5,000 years.

Connecting to the sixth floor, the stairwell is designed to create warm glowing linear steps within an enclosed "lantern" gently leading guests up to their rooms, as well as the spa and wellness centre which features a 25-metre lap pool with sky roof. The four-individually themed spa suites, inspired by Chinese gardens, promise an exceptional relaxation. Wall coverings featuring sweeping Willows are framed in timber archways, conveying a subtle interpretation of garden pavilions.

The Mandarin Oriental Hotel, which houses 73 spacious rooms with a minimum of 55 square metres, are among the largest in Beijing. The rooms are designed with a contemporary and sophisticated residential style, blended with subtle traditional Chinese elements. The inspirations from the Imperial Era is represented by the four-poster beds, which refer to sleeping chambers of the princes that once lived in the mansions of Wangfujing. Other nods to traditional Chinese design include headboard panels with harmoniously aligned flora and fauna and a marble relief engraved with stylized clouds in the bathroom, resembling the Forbidden City's stone craved stairway. Based on the room type selected, the hotel guests can either enjoy the spectacular view of the Forbidden City or their own exclusive private garden terrace.



Pool area. Photo: © Chester C. Ong



The language we chose to use is decidedly modern, but underlined with a narrative of the Chinese tradition and craftsmanship.

– Federico Masin, Partner at HBA Hong Kong.

PROJECT DATA

Project Name: Mandarin Oriental Wangfujing
Location: Beijing, China
Owner/Developer: Hong Kong Land
Interior Design Firm: Hirsch Bedner Associates, Hong Kong Office
Size: 12,800 square metres including exterior area of MO Bar
Completion: 2019

Lelewatu Resort Sumba

Designed by renowned architect and interior designer, Popo and Melati Danes of Indonesia, Lelewatu Resort Sumba features traditional Sumbanese Architecture in luxurious style and comfort.



Aerial view of Lelewatu Resort Sumba.

In harmony with its magnificent cliff top setting, surrounding lush rainforests, private lagoon and breathtaking views over the Indian Ocean, Lelewatu Resort Sumba is rising above this alluring horizon with perfect poise.

Designed to capture and curate the essence of Sumba, the luxurious Lelewatu Resort is a serene sanctuary on the west of Sumba, an hour's flight east of Bali.

Conceptualised by successful Sumbanese businesswoman, Jenny Tan, the creation of Lelewatu Resort was designed to preserve the Sumbanese heritage and share it with the guests.

Designed by renowned architect and interior designer, Popo and Melati Danes of Indonesia, Lelewatu Resort Sumba is the incarnation of traditional Sumbanese Architecture in luxurious style and comfort. With an exquisite touch of handcrafted finishes exuding an exotic ambience, each villa reflects the

Sumbanese culture and tradition.

The architecture and interior is a translation of how the Sumba culture is modernised to become a modern and sophisticated hospitality culture. There are a total of five zones in Lelewatu Resort: the first zone is reception, where it is close to arrival area and the second zone is public space, where you can have some function and also some guest activities and the third zone is the zone of the villas and traditional villas. In the fourth zone, there are cliff hanger villas and in the fifth zone lies the zone of the main public facilities such as dining room, the bar and the main swimming pool.

The unique feature of this hotel is the entire setting because it is a very much reflection of Sumbanese Traditional Village. Most of the main materials of this resort are using local materials such as local plantation wood, bamboo and also the thatch roof



Bokosawu restaurant



Le Humba restaurant



Sumba House



1 bedroom ocean view royal honeymoon



1 bedroom ocean view pool villa



2 bedroom pool villa



2 bedroom ocean view cliff pool



1 bedroom ocean view cliff pool

Photos above: Villas at Lelewatu Resort Sumba.



Lagoon deck



Main pool



Cliff

Photos above: Public areas at Lelewatu Resort Sumba.

PROJECT DATA

Project Name: Lelewatu Sumba
Location: Sumba Island, Indonesia
Client: Lelewatu Resort Sumba (Owner: Jenny Tan)
Architect & Landscape Design Firms: Popo Danes Architect
Interior Design Firm: Melati Danes Space and Style
Site Area: 10 hectares
Floor Area: 4,529 square metres
Completion: 2020
Photos: © Lelewatu Resort Sumba



“ *The design concept is inspired by the dynamic topography of the island and also the dynamic culture of Sumba.* ”

– Popo Danes, Founder, Popo Danes Architect

which is all set according to the local way of making it in Sumba so most of this main structure was done by the local Sumbanese people. For the interior design, the architect also used all of the local materials such as local woods, and for the floor, they combined wood and local Indonesian marble. For the furniture and lamps, the architect put some touch of Sumbanese cultural accent and more importantly, they included the iconic Sumba Textile as the soft furnishing for the room which created a very strong identity for the interior.

Lelewatu Resort Sumba features 27 Sumbanese styled pool villas ranging in size from 130 square metres to 650 square metres spread over 10 hectares of unspoilt, beautiful landscape, Bokosawu and Le Humba gourmet restaurants, Maraga Spa, a gym, horse riding track, game room and elegant boutique. Celebrate your personal indulgences and romance with the resort's blend of unspoilt nature, gracious service and bespoke island life with a rare taste of paradise.



Shanghai JW Marriott Marquis Hotel

From the selection of quality materials to the detailed coordination of architectural systems, the hotel building is exquisitely crafted by Skidmore, Owings & Merrill LLP.

Located in the south of Pudong's Lujiazui, the five-star JW Marriott Marquis hotel and conference centre is the first of its kind in China. Designated as the JW Marriott brand flagship in East Asia, the building establishes a new landmark for the city of Shanghai. The design responds to the project's constraints and the owner's vision for a unique destination, leveraging its relationship to the Huangpu River to create an inspiring guest experience.

The 39-storey building also harmonises with the surrounding environment. The placement of the hotel tower accommodates the sunlight requirements of the adjacent residences to the northeast. The reception area and other public amenities surround a dramatic central atrium, which serves as the nexus of the guest experience, as well as the major organising element for the exterior surroundings. A triangular facade at the drop-off plaza links the atrium to the adjacent public park, which opens to the riverfront. This forms an uninterrupted connection between the entrance and the river, framing views of the lobby, the park, the river, and the Bund beyond.

The folded curtain wall profile creates a unique and novel exterior expression that lends the entire building a distinctive character. The podium, clad in brushed anodized aluminum panels that are subtly varied, uses a similar language of folded and tapered surfaces that gradually densify as they travel down to the ground, lending a human scale to the base of the building.

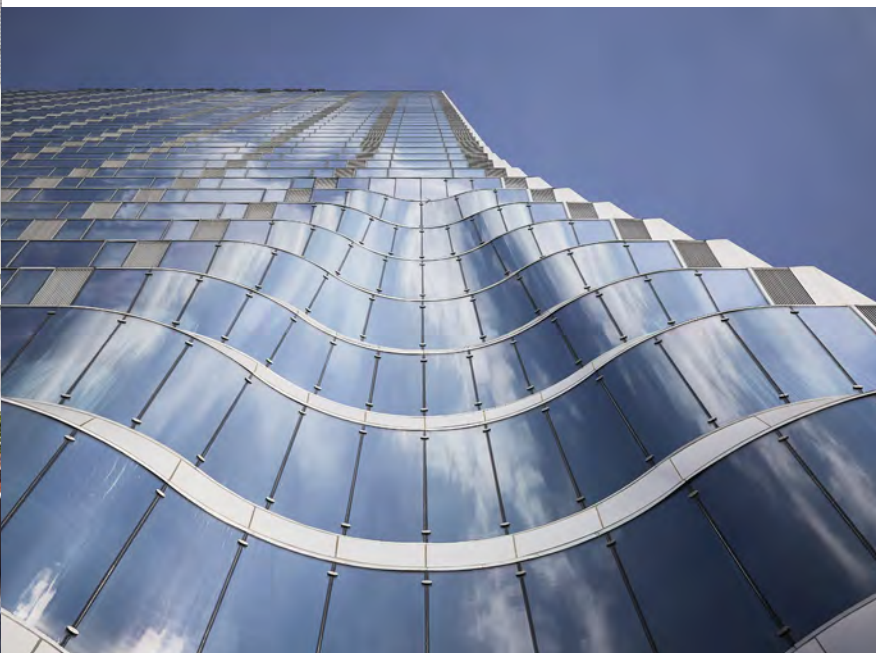
Within this context, the gently sloping sides of the atrium amplify the vocabulary of the exterior form at a grand scale. Responding to this soaring volume, the west facade pulls gently





inward, emphasising the significance of this space and creating a natural entry point that faces the park and the river beyond. In this way, the tower embraces its site and establishes a distinctive presence within the dense urban fabric of Shanghai.

The building is exquisitely crafted. From the selection of quality materials to the detailed coordination of architectural systems, the Shanghai JW Marriott hotel can be simply described as a stunning choreography of experiences.



Peter Lefkovits. Photo: © SOM | Lucas Blair Simpson

“The Shanghai JW Marriott Marquis Hotel establishes a new landmark for the city of Shanghai. SOM’s goal for the design was to create a singular architectural expression by harmonizing the hotel with the city’s natural and urban environment. Leveraging its proximity to a local public park and the Huangpu River, the building incorporates a variety of distinctive features, such as a multi-storey glass facade and dramatic central atrium, that reference the local landscape, while providing an uplifting guest experience.”

– SOM Director Peter Lefkovits, AIA

PROJECT DATA

Project Name: Shanghai JW Marriott Marquis Hotel
Location: Shanghai, China
Client: Luneng Group
Architecture Firm: Skidmore, Owings & Merrill
Size: 119,600 square metres
Completion: 2019
Photos: © SOM | Dave Burk

PLAGIARISM IN ARCHITECTURE

Designing a new building needs inspiration and architects often try to find it in music, nature, history, fashion, art and even existing structures around the world. But does copying a design and borrowing an idea necessarily mean plagiarism? How easy is it to be original? In this issue, architects share their thoughts on achieving a balance between inspiration and originality.

KLEVIS KOCO,
Principal in
Architecture,
Hassell, Shanghai



Klevis Koco. Photo credit: Isaac Lam, courtesy of Hassell.

**“Without inspiration,
there would not be art
or innovation.”**

SEAB: When does plagiarism arise in architecture?

KLEVIS: Like in many other industries, the idea of what constitutes plagiarism in architecture is blurred and difficult to define. It is not like we can draw a line and say – this it is where plagiarism starts. It is a moving target. In the absence of measurable, it is always going to remain a contested topic based on opinions.

When buildings are treated as objects rather than places for people, when they are seen as an aesthetic signature rather than responding to its context – that is when plagiarism is more likely to occur. One of the main challenges today is the ease and speed at which information becomes available and is shared via social media and the Internet. In some countries or regions, architects are pressured to deliver a design in extremely short timeframes, leading some architects to be inclined to browse rather than sketch. There is often a constant rush, a need to get it done and move on, which can compromise originality.

We are seeing more and more architecture that resembles a collage of features and sometimes even an entire building being replicated or cloned.

SEAB: How should architects strike a balance between inspiration and originality?

KLEVIS: Without inspiration, there would not be art or innovation. It is critical that inspiration is cultivated, but we should not stop at that. If there is a design process, every creation can be unique. There are many components and factors that when intertwined together with inspiration, create a unique outcome. At Hassell, we believe that great design is driven by meaningful ideas explored through research and testing, and achieved through open-minded collaboration.

It achieves outcomes that feel both unanticipated and yet obvious. We don't have a pre-set style or outcome. What we do have is a set of filters, which will always generate a unique outcome: Context – Function – Aspiration – Beauty.

SEAB: How effective are copyright laws in protecting an architect's drawings and design?

KLEVIS: It is easier to recognise copying or imitation in arts or the written form. It is more challenging and complex for visual arts. Even though there are some copyright laws, it is typically very difficult to determine claims of infringement. However, there are several regulations and measures that if implemented would help protect IP rights. These include confidentiality agreements signed by all involved parties and improved storage management of design drawings and models.

**RICHARD
HASSELL,**
Co-Founding
Director, WOHA



Richard Hassell. Photo: © Studio Periphery

"To us, design inspiration should also always involve some aspect of transformation."

SEAB: When does plagiarism arise in architecture?

RICHARD: There are definitely many examples of plagiarism in architecture – but isn't there the saying that copying someone is the highest form of flattery? We do have some examples where people try to duplicate our projects though and that is a problem – for instance there's a hotel in Manila that has elements of the PARKROYAL on Pickering and there is a hotel in China that looks very much like Alila Villas Uluwatu.

SEAB: How should architects strike a balance between inspiration and originality?

RICHARD: There is a blurry line between what is original and unique and what embeds the ongoing design language in culture. To us, design inspiration should also always involve some aspect of transformation. The original solution made sense for its time and location, the skill sets and technologies that were available, but to just take it and transplant it into a new context without careful consideration is often not a good solution. Outright copying someone else's work often times also just leaves you with something that is out of date because by the time the original is made public, it has probably been four years since the design inception, and by the time it has been copied and put on the market another few years may have passed.

SEAB: How effective are copyright laws in protecting an architect's drawings and design?

RICHARD: We feel like copyright laws don't really have much of an effect in design. There have been cases where we found out our furniture had been copied and used in projects that aren't ours, and we have not been able to do much about it except get in touch with the supplier who duplicated the pieces. Luckily in this case the supplier did take our designs out of their catalogue, but we can't really know if there aren't others out there who are using our design.

Social media has given rise to an interesting phenomenon though. Through social media, it is almost impossible to be unaware of copyright, and the copier is very likely to be called out and shamed by the public. It sort of brings the village back to the world. Architects are aware of what is being designed where and will let you know if you are being copied. Being called out on social media gives the copier a poor reputation as a designer because it shows a lack of originality and creativity, and in some cases it might even embarrass the client who may be unaware of the fact that their project is a copy of something that is already out there.

MEETA PATEL,
Co Founder &
Executive Director,
Lead8



Meeta Patel. Photo: © Lead8

SEAB: When does plagiarism arise in architecture?

MEETA: Many of us will remember the case of a high-profile architect's building being directly copied by a Chinese developer some years ago. That makes for an easily spotted case of plagiarism in architecture. Beyond that we get into the murky waters of borrowing versus plagiarism in design. Even Copyright Law can struggle to communicate the difference. It mostly comes down to the originator and alleged copier and how well they both can articulate the decisions behind their work.

SEAB: How should architects strike a balance between inspiration and originality?

MEETA: Someone once said the art of architecture lies in the balance between influence and originality. As designers, we know transplanting a design from one place into another, with no consideration of context, use or audience is not good design. When design and architecture are done successfully, the reality that they occupy their own unique space and have been designed to reflect this helps to create that originality.

SEAB: How effective are copyright laws in protecting an architect's drawings and design?

MEETA: There are two sides to copyright laws and protection within architecture and design. On the one hand, as professionals, we ensure we have the right contracts and legal guidance in place to protect our work as far as we can. On the other, if an infringement or plagiarism does occur, how the copyright laws are termed and worded means there is still a significant grey area in imagery and concepts – as well as a statute of limitations.

The industry has come some way. The USA only passed the Copyright Act for Architectural Works in 1990. In Singapore however, while there is a Copyright Act, it does not specifically include Architectural or Interior Designs, but protects against the expression of ideas, for example drawings, models of buildings and aggregate visual images.

"It mostly comes down to the originator and alleged copier and how well they both can articulate the decisions behind their work."

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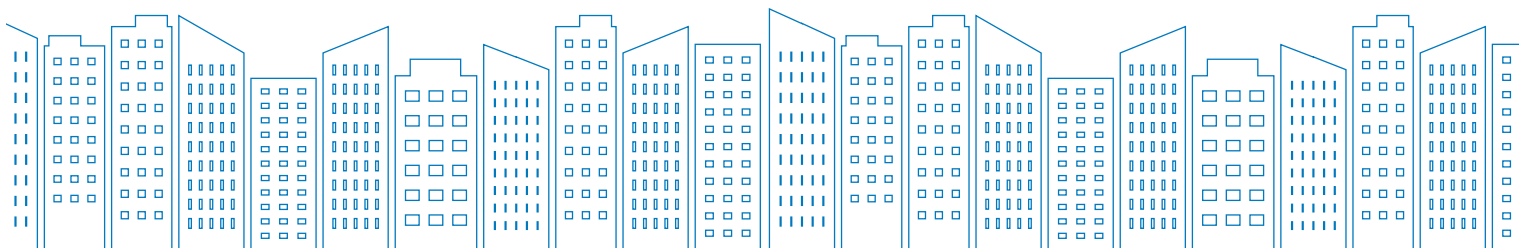
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Futurebuild Southeast Asia (SEA) Expo	23 - 25 Jun 2020	Kuala Lumpur	Malaysia	www.ecobuildsea.com	75
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