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May / June 2023

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THE SUSTAINABILITY ISSUE
Biophilic Design

ON THE COVER: MeyerHouse / Singapore



ISSN 2345-7066



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On the Cover: MeyerHouse by WOHA in Singapore. Photo credit: Darren Soh

Cover design by Fawzeeah Yamin

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Southeast Asia Building is available free-of-charge to applicants in the building industry who meet the publication's terms of control. For applicants who do not qualify for free subscription, copies will be made available, subject to acceptance by the publisher, for a subscription fee, which varies according to the country of residence in the following manner:

Annual Subscription

Airmail: America/Europe – S\$185, Japan, Australia, New Zealand – S\$185, Middle East – \$185, Asia – S\$155, Malaysia / Brunei – S\$105

Surface mail: Singapore – S\$60
(Incl 7% GST Reg No: M2-0108708-2)

Printed in Singapore by Fuisland Offset Printing (S) Pte Ltd
MCI (P) 041/08/2022 KDN No: 1560 (1270) – (6)
ISSN 2345-7066 (Print) and ISSN 2345-7074 (E-periodical)

Trade Link Media Pte Ltd also publishes:

- Bathroom + Kitchen Today
- Lighting Today
- Security Solutions Today
- Southeast Asia Construction

SOUTHEAST ASIA BUILDING is published bi-monthly by:

Trade Link Media Pte Ltd, 1 Paya Lebar Link, #04-01,
Paya Lebar Quarter 1 (PLQ 1), Singapore 408533
Tel: +65 6842 2580

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Website: www.tradelinkmedia.com.sg

Co. Reg. no: 199204277K

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Welcome to May/June issue!

We often aspire to be close to nature when we are working in the office or even staying at home, and biophilic design aims to do exactly that. Biophilic design is a concept that aims to connect building occupants more closely to nature through the use of natural lighting and ventilation, green walls, water features, and natural landscapes.

More and more architects are now incorporating biophilic design in their projects because of their known benefits. Building occupants tend to be more productive, healthy and happy when they are close to natural environment. We bring you some projects which have been built using biophilic design principles.

Also in this issue are some playgrounds and landscaping related articles and projects. Situated in the unique location on Rama IV Road near Bangkok's major park, Benjakitti Park, The PARQ is a new mixed-use project that aims to promote work-life balance for future lifestyle through innovative and sustainable designs aspiration to become the 'Forest District'.

In interior design, we showcase the Finesse Shoe Store in Collingwood, Melbourne, Australia. It had won the Retail Design Award and received a High Commendation for Sustainability at the 2022 Australian Interior Design Awards.

In March 2023, we exhibited at Geo Connect Asia 2023 show at Marina Bay Sands in Singapore. We met many exhibitors who shared with us their products, solutions and technologies. You can read all about the exhibition in the show review that we have prepared in the PDF copy of the magazine.

Happy reading and take care!

Amita Natverlal

July / August 2023 Issue

FEATURES:

- Waterfront Developments
- Institutional Interior Design
- Playgrounds & Landscaping



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Nine HBA designers elevated to partnership in 2023

Singapore – A global leader in hospitality design, Hirsch Bedner Associates (HBA) has elected nine (9) new Partners in 2023, bringing the total number of HBA Partners to 25 world-wide. Their appointment recognises their exemplary contribution to the business of design and their leadership across the Group.

Collectively, the nine Partners have been the recipients of multiple prestigious design awards, including wins at the SBID International Design Awards, AHEAD Awards, Gold Key Awards and Asia Property Awards.

Their design expertise spans sectors, disciplines and global markets. Each new Partner has been instrumental in leading the design of high-profile projects and expanding the firm's reach into new markets, strengthening the HBA brand position globally, as well as empowering and mentoring the next generation of design talent, while driving continuous innovation in design.

"I am delighted to welcome our new Partners. Their appointment signals the strength and breadth of our leadership team, our robust succession planning and our ability to promote from within," commented Chris Godfrey, co-CEO of HBA.

The HBA Partners take the lead on delivering holistic design solutions, meeting the broad project needs of clients, from architecture, interior design to branding and product design, to lighting and landscaping.

Ian Carr co-CEO of HBA said "Each of our new Partners have shown dedication to HBA's culture of creativity and quality, as well as providing impeccable design expertise and service to our clients."



Photo credit: HBA

Bona Singapore becomes Official Technical Partner with Basketball Association Singapore (BAS)

Singapore – Bona has signed a partnership with the Basketball Association Singapore (BAS) becoming an Official Technical Partner of BAS.

Thanks to this partnership, Bona has established itself as a key partner of the BAS and has confirmed its ambition in the sports floor renovation and maintenance market in Singapore with the endorsement of BAS as their Official Technical Partner.

Pontus Forssell, Vice President and Director of Bona in Asia Pacific said: "Bona has been an Official Technical Partner for FIBA in Europe in Europe for more than 15 years and has also been working with the NBA in North America for many years. In Asia, Bona has been supplying coatings and maintenance products for sport floors for over 20 years. Our partnership provides proper coating, painting, tinting and floor care procedure to provide a best in class surface for professional athletes. Bona products are used on Olympics, professional, university and other sports floors around the globe. With this success and our reputation we wanted to combine our brand and our values with the development of basketball in Singapore together with the BAS organisation."



President of BAS, Dr. Koh Koon Teck (left) and Vice President and Director of Bona Far East & Pacific Pte. Ltd, Mr. Pontus Forssell posing with the signed agreement. Photo credit: Bona



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Grundfos Commercial Building Services relocates its global headquarters to Singapore

Singapore – Grundfos, a leading manufacturer of advanced pump solutions and water technologies in the world, held the inauguration of its global headquarters of its Commercial Building Services (CBS) division in Singapore on 19 April 2023.

The aim of the relocation is to meet the heightened demand for resource-efficient solutions to foster a sustainable built environment in Singapore and the region, where almost 56 percent of ASEAN's population will be urban by 2030 according to the ASEAN Secretariat 2022.

Grundfos' CBS division delivers its water pump systems to commercial buildings such as hotels, hospitals, office towers, airports, and data centres to support various applications such as air-conditioning, cooling, heating, fire protection, to wastewater and water disinfection in these buildings.

A critical component of Grundfos' relocation strategy will be the set up of the Singapore Innovation Hub within the global headquarters, which aims to leverage local knowledge to pioneer future solutions for energy-efficient commercial buildings. The facility will look to bring Grundfos' R&D capabilities closer to customers and the market, as well as provide a platform for collaboration with industry partners, customers, and researchers to co-develop energy and water efficient smart solutions.

As part of developing the Singapore Innovation Hub, Grundfos has engaged in various feedback, steering and risk management efforts since March, following which the company will embark on identifying and developing key innovation initiatives, establish governance structure, and discuss areas of collaboration with potential partners. All this will contribute towards a comprehensive working plan for the new Singapore Innovation Hub by the third quarter of 2023.

According to Grundfos, Singapore was selected for the relocation based on its strengths in innovation and



From left to right: Bent Jensen, Group Executive Vice President & CEO Commercial Building Services, Grundfos; Soh Wai Wah, Principal & CEO, Singapore Polytechnic; Poul Due Jensen, Group President & CEO, Grundfos; Birgit Dohmann Chang, Chargé d'affaires, Royal Danish Embassy Singapore; Eric Lai, Regional Managing Director, Industry – APAC & Country Director for Singapore, Grundfos, at the official ribbon cutting ceremony. Photo credit: Grundfos

talent, and its nation-wide commitment to sustainability through its Singapore Green Plan 2030. Singapore's strategic location as the gateway to other ASEAN countries will allow Grundfos to work more closely with customers in these markets and support their sustainable urbanisation needs.

Poul Due Jensen, Group President & CEO, Grundfos, said, "Locating our CBS headquarters in the heart of Asia is part of our wider business strategy of operating as a truly global company. We also recognise Singapore's strong potential in becoming a hub for green innovation, which aligns with our business focus of driving global sustainability. At Grundfos, we are committed to delivering on our net-zero targets validated by the Science Based Targets initiative (SBTi) to ensure our growth is sustainable. This includes designing our products and solutions to help our customers reduce their energy consumption, conserve resources, and minimise their environmental impact, and ultimately advance the global green transition."

Bent Jensen, Group Executive Vice President & CEO Commercial Building Services, Grundfos said, "Cities are here to stay, and the future of humanity is undoubtedly urban. With that in mind, there is great urgency in driving a sustainable built environment globally that conserves energy and water use. This is especially important for ASEAN as this region's urbanisation is unprecedented. Today's milestone demonstrates our commitment to introducing cleaner, more energy efficient technologies that can help existing and future buildings reduce their energy consumption and overall carbon footprint. We look forward to advancing a sustainable built environment both regionally and globally with Singapore at the heart of our innovation and operations."

Under the new CBS headquarters, Grundfos will also be strengthening its talent pipeline to over 200 employees, by bringing in global expertise and the hiring of local talents. The company will also continue its efforts in collaborating with public and private players locally.

Dusit Hotels and Resorts makes its grand debut in Europe, opens Dusit Suites Athens in Greece's beautiful capital

Bangkok, Thailand – Dusit Hotels and Resorts, under Dusit International, one of Thailand's leading hotel and property development companies, has continued its global expansion with the opening of Dusit Suites Athens – the first Dusit-branded property in Europe – in Greece's stunning capital.

Bringing Dusit's unique brand of Thai-inspired gracious hospitality to one of Europe's most popular tourist destinations, Dusit Suites Athens puts guests in the heart of Glyfada, a picturesque suburb in the Athens Riviera renowned for its beautiful sandy shores, vibrant shopping and dining scene, trendy bars and cafes, and great location just 30 minutes by car from the city centre and only 20 minutes from Athens International Airport.

Set over four floors and offering stunning views of the sea and distant mountains, the luxury low-rise property is designed to meet the needs of business and leisure travellers seeking a highly comfortable base for short or extended stays.

"We are delighted to bring Dusit Hotels and Resorts' Thai-inspired, gracious hospitality to Athens, Greece, and officially make our debut in Europe," said Mr Gilles Cretallaz, Chief Operating Officer, Dusit International. "With its gorgeous rooms, atmospheric restaurants, bespoke wellness offerings, excellent location, and exceptional service, we are confident that Dusit Suites Athens will leave guests with lasting memories and a deep appreciation for the community we serve."



Dusit Suites Athens in Greece – Exterior.
Photo credit: Dusit International

This is another significant milestone in our journey for global expansion, and we look forward to making this beautiful property a resounding success as we continue to open doors to new destinations in the months ahead."



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Unique agreement helps architects register and study between the UK, Australia and New Zealand

Sydney, Australia — A new mutual recognition agreement (MRA) has been signed between the Architects Accreditation Council of Australia (AACA), the UK's Architects Registration Board (ARB), and the New Zealand Registered Architects Board (NZRAB).

The agreement means that from 25 May, eligible architects can benefit from a streamlined registration process that will reduce costs and examinations, making it easier for them to register to work in each country.

The agreement will open up the architects' profession whilst upholding and maintaining the high standards and safety that help to protect the public. This is because of the alignment between the rigorous competencies required to register in each country, reinforced by the three regulators' quality assurance processes.

To help improve access to the profession, this unique agreement will also recognise an individual's relevant qualifications along the path to becoming an architect. This means someone who has been educated up to and including Master's level can complete their training in another

partner country and benefit from the agreement.

Kathlyn Loseby, CEO of the Architects Accreditation Council of Australia, said: "Architects are among the most highly qualified professionals alongside the legal and medical fraternities. Architecture is also one of the professions that benefit most from collaboration, and this agreement enhances the ability of both registered architects and graduates with accredited qualifications to move between the UK and Australia / New Zealand.

Our three nations have an obvious affinity based on shared language and cultural similarities and the new professional recognition process is straightforward and simple. AACA thanks both the ARB and NZRAB for the six years of collaboration culminating in this agreement."

Hugh Simpson, Chief Executive and Registrar, United Kingdom Architects Registration Board, said: "The agreement builds on the close links between our three countries and has been made possible because of the constructive engagement between regulatory bodies and the confidence we have in the

integrity of regulation and assurance of standards across Australia and New Zealand.

We're delighted that as well as helping eligible architects to register, saving them time and money, the new and more proportionate process will also create opportunities for tomorrow's architects to study internationally across the three countries."

Gina Jones, Chair of the New Zealand Registered Architects Board, said: "This agreement will facilitate the mobility of architects registered in the United Kingdom and New Zealand and between our countries.

We want our registration processes to be as straightforward as possible, while still ensuring new registrants have what is necessary for safe and effective practice. Mutual recognition agreements such as this benefit qualifying architects with a simpler pathway to registration between the United Kingdom and New Zealand.

We are delighted to have developed and signed this trilateral agreement and thank the ARB and the AACA for all the work that has gone into making it possible."

Meinhardt Group becomes first engineering firm in Singapore to achieve ISO 19650 certification

Singapore — Singapore-headquartered global design, engineering, project and construction management firm, Meinhardt Group, has become the first engineering company in Singapore to achieve full ISO 19650 compliance at the group-wide level encompassing its Singapore and overseas offices.

"We are proud to be the first engineering company with its global headquarters in Singapore to achieve the ISO 19650 certification at the Group-wide level. It is a clear affirmation of our relentless push for digital transformation and commitment to adhere to the best practices in our industry. Our certification underscores our digital push regarding operating systems and workflow processes pertaining to the digitisation of information related to buildings and infrastructure works," said Mr Omar Shahzad, Group CEO, Meinhardt Group.

In the photo (from left to right), Mr Behzad Meskini, Director of Group Digital Delivery; Mr Omar Shahzad, Group CEO, Meinhardt Group; Mr Foo Soo Guan, Senior Vice President, Business Assurance Division, ASEAN, TÜV SÜD PSB. Photo credit: Meinhardt Group



HOK's Hong Kong office relocates to accommodate growth and reinforce commitment to Asia

Hong Kong – HOK is pleased to announce that, as of April 3, 2023, HOK's Hong Kong office will move to a new location at 1208 Landmark South, 39 Yip Kan Street, Hong Kong.

As the company approaches its 40th year in China, this relocation to prime office space accommodates its growing team while reinforcing its long-term commitment to the China and Asia markets.

HOK's new collaborative workspace will enhance its ability to deliver interdisciplinary design excellence, cutting-edge innovation and support our clients' success.



Project name: Tamar Government Complex | Location: Hong Kong | Credit: HOK

Pullman debuts in Singapore

Singapore – Pullman Hotels & Resorts, a world-leading premium brand from Accor, has announced the opening of Pullman Singapore Orchard, marking the brand's debut in one of the world's most iconic gateway cities. Located on Orchard Road, the famous retail district, this modern and stylish hotel will allow guests to balance business and leisure in this vibrant destination. As the ultimate playground for today's new entrepreneurs, Pullman Singapore Orchard marries progressive, vibrant design with intuitive and seamless hospitality to inspire minds and energize bodies.

Surrounded by major retail malls, leading fashion labels and global brands, Pullman Singapore Orchard will put guests in the city's commercial heart. Orchard and Somerset MRT stations are only moments away, and Changi International Airport can be conveniently reached in just 20 minutes.

"Singapore is a trendsetting city that has evolved from an Asian economic hub into a vibrant global tourism destination. This makes it the perfect setting for our Pullman brand, which has a history that dates back more than 150 years and now attracts a new generation of digital nomads, millennial globetrotters, and business professionals. Pullman Singapore Orchard will deliver bold and creative stays, surrounded by world-class dining and shopping venues," said Garth Simmons, Chief Executive Officer of Accor, Southeast Asia, Japan & South Korea.

Taking its cue from its metropolitan location, Pullman Singapore Orchard's signature spaces are designed to celebrate the fashion powerhouses that surround it. On arrival, guests can enjoy a fully contactless check-in via the



Photo: © Andy Wong

hotel's mobile app and digital room keys. The 326 innovative, fashion-inspired rooms and suites come in nine configurations, ranging from the Classic Rooms to the Presidential Suite, and are fully automated so guests can customize every part of the ambiance, including the lighting and temperature. Smart TVs with screen casting provide endless entertainment options and guests can access all the hotel's services via a dedicated app. In addition, a selection of Club Residence Rooms will offer access to the hotel's Archive Club, a multi-purpose Executive Lounge with pockets for work, relaxation and social interaction. Families are welcomed with guaranteed inter-connecting rooms.

Inaugural launch event of Design League Cup brings Singapore's design community together

Singapore – On 15 April 2023, the Design League Cup (DLC) officially launched its first-ever cycling event at Changi Beach Park, with MOS Ms. Low Yen Ling as the Guest of Honour to flag off the participants alongside the DLC committee.



The event, organised by Admira and with joint collaboration by Society of Interior Designers, Singapore (SIDS), Singapore Institute of Architects (SIA), Singapore Furniture Industries Council (SFIC), Singapore Fashion Council (SFC), Singapore Institute of Landscape Architects (SILA), Design Business Chamber Singapore (DBCS), Singapore Institute of Planners (SIP), Association of Advertising & Marketing Singapore (AAMS) aimed to bring together Singapore's design community through participation in a unifying sport.

The DLC's mission is to establish a strong relationship among design bodies across different disciplines through sports participation. The event is also a great opportunity for design professionals to network and build camaraderie amongst the Singapore design community. With a strong community of passionate designers, it can potentially lead to more collaborations and thus more innovations, making the design scene in Singapore flourish. This event also raised funds for the Thye Hua Kwan Moral Charities (THKMC).

With the success of its inaugural event, the DLC looks forward to organising more activities that will promote collaboration and unity within the design industry.



MOS Ms. Low Yen Ling. Photo credit: Design League Cup

MOS Ms. Low Yen Ling engaged in conversations with the participating teams and graciously posed for group photographs with them. The distinguished guests then proceeded to the stage, where the event formally began with Prof. Keat Ong's introductory statement.

"We are thrilled with the success of our first Design League Cup Cycling Event," said Prof. Keat Ong, Co-chairman, Design League Cup Organising Committee.



Prof. Keat Ong. Photo credit: Design League Cup



Mr. Jake Tan. Photo credit: Design League Cup

Mr. Jake Tan, Director of Admira, welcomed everyone to the inaugural DLC event in his speech, praising its success and high participation rate.

The race was flagged off at 9:30am by MOS Ms. Low Yen Ling and the welcome party, who encouraged everyone to enjoy themselves and the thrilling competition.

The day's activities concluded with the organisers awarding trophies and medals to the winners of the different categories – Division A, Fastest Team, Fastest Male and Female – for completing the race with outstanding timings and tenacity.



Mr. Jake Tan, Director of Admira, then proudly presented THKMC with a generous cheque for SGD\$10,000. Photo credit: Design League Cup

The most prestigious interior design award in the Asia Pacific region launched in Manila

Manila, Philippines – The Asia-Pacific Space Designers Association (APSDA) launched the most prestigious interior design award in the Asia Pacific region – the APSDA Awards 2023 – in Manila City in the Philippines.

Introduced in 2021, the APSDA Awards is an interior design award that seeks to recognise the best and brightest designers in the industry, for their outstanding projects and professionalism as well as their contribution to furthering the field of interior design.

Highlight during the physical launch:

- New category was announced: Student Project of the Year
- Project Theme / Concept: Better Tomorrow
- Submission Requirements:
 - Entrants must be currently enrolled in interior design, architectural and/or other relevant courses at an educational institution upon the time of submission.
 - Only one entry is allowed per student.
 - The Judges' decisions are final.
 - Winners will be notified to attend a ceremony. Winning entries may be featured in marketing and promotional materials as deemed appropriate by the organizer and sponsor.
 - Winners will bear all the expenses for travel costs and other incidentals relating to their appearance at the award ceremony.
 - All participating students need to have a valid passport at the time of application.





A big thanks to Philippines Institute of Interior Designers (PIID) for their kind invitation for APSDA to be part of the inaugural Manila Interior Design Summit!

Submission Date: 17 February 2023 – 10 July 2023 (Early Bird ends at 30th April 2023)

Submit Entries Here: <https://www.judgify.me/APSDA-Award-2023>

For more information, visit the website: <https://apsda.org/competition/apsda-awards-2023/>

For more enquiries, e-mail: secretariat@apsda.org

Green Building Award 2023 is calling for nominations

Hong Kong – The Green Building Award (GBA), co-organised by the Hong Kong Green Building Council (HKGBC) and the Professional Green Building Council (PGBC), in its ninth edition this year, is calling for nominations. Themed "Embracing Wellbeing – Excellence in Sustainable Built Environment", the Green Building Award 2023 (GBA 2023) welcomes nominations that could stretch the boundaries of sustainability, and accelerate Hong Kong's development into a city that provides wellbeing for all.

Covering five categories, including New Buildings, Existing Buildings, Research & Planning, Building Products & Technologies and Green Building Leadership, the biennial Award is one of the highest accolades in the industry. A Special Citation will be accredited to projects that are deemed to have achieved the United Nations Sustainable Development Goals and positively contribute to the development of a sustainable built environment.

Online submissions will start from 17 April until 15 June 2023 at 6:00pm (Hong Kong Time). The Organisers welcome all eligible projects or organisations to participate in the GBA 2023 and join hands to embrace wellbeing and create a quality and sustainable built environment. As in previous editions, GBA 2023 will invite a broad base of renowned industry experts and academia from local and overseas as Jury Panel, with Ms Bernadette LINN, JP, Secretary for Development, the Government of the HKSAR as Honorary Advisor and the Guest of Honour of the Award Presentation Ceremony.



For nomination details, please refer to the GBA 2023 Nomination Kit: www.gba.org.hk/nomination-kit.

Singapore Green Building Council announces new president and board to advance sustainability in the built environment

Singapore – Mr. Lee Ang Seng, Managing Director of Beca Carter Hollings & Ferner (S.E. Asia) Pte Ltd, has been elected as the new and eighth president of the Singapore Green Building Council (SGBC). Mr Lee will lead the SGBC Board for the 2023–2025 term to ramp up the built environment decarbonisation efforts in support of Singapore's green building

and climate mitigation aspirations.

Taking over the reins from Ar. Tang Kok Thye, the seventh President of SGBC, Mr. Lee Ang Seng is a veteran Green Mark Accredited Professional (GMAP) with an impressive repertoire of iconic Singapore green building projects delivered with Beca under his belt, such as the Republic Polytechnic campus,

PARKROYAL COLLECTION @ Pickering, Changi Airport Terminal 4, Universal Studios Singapore and Marina One.

Mr. Lee provides leadership and strategic directions for the Beca business in Singapore and the emerging market in Southeast Asia as a member of the Beca Group Executive Leadership Team and the business executive team for

the ASEAN region. Through his passion and leadership in developing people, he has led Beca Singapore to be the only private sector winner of the People Excellence Award in 2018, the highest Business Excellence accolade awarded to organisations who have demonstrated highest standard of people management and development practices.

Ar. Tang Kok Thye (representing ADDP Architects LLP) will assume the role of Immediate Past President for the new term, having served as SGBC President from 2021–2023. Under his leadership, SGBC managed to navigate the challenging waters of an industry emerging from the worst of the global pandemic and successfully restarted many of its signature in-person events in 2022, such as two editions of the SGBC Leadership Conversations thought leadership forum, the SGBC Gala Dinner 2022 and SGBC Pavilion @ BEX Asia 2022.

Elected by SGBC Members, the new SGBC Board reflects the diverse nature of the Council and is representative of the built environment value chain. The Board comprises senior leaders from Singapore's leading property developers, professional building consulting firms, contractors, institutional bodies, the academia and government agencies.

The SGBC Board Members and Office Bearers of the 2023–2025 term are listed as follows:

President: Mr. Lee Ang Seng (Beca Carter Hollings & Ferner (S.E.Asia) Pte Ltd)

Immediate Past President: Mr. Tang Kok Thye (ADDP Architects LLP)

1st Vice President: Allen Ang (City Developments Limited)

2nd Vice President: Aaron Foong (Surbana Jurong Consultants Pte Ltd)

Honorary Treasurer: Calvin Chung (JTC Corporation)



SGBC 8th President Mr. Lee Ang Seng.
Photo credit: SGBC

Assistant Honorary Treasurer: Sonny Chionh (Singapore Institute of Architects)

Honorary Secretary: Georgina Phua (Singapore Polytechnic)

Assistant Honorary Secretary: Samuel Ng (Keppel Land Limited)

Board Technical Lead: Tan Yoong Heng (Arup Singapore Pte Ltd)

Board Member: Ang Kian Seng (Building and Construction Authority)

Board Member: Tan Sze Tiong (Housing & Development Board)

Board Member: Suresh K. (National Environment Agency)

Board Member: Dr. Stephen Tay (National University of Singapore)

Board Member: Joe Fu (ONG&ONG Pte Ltd)

Board Member: Roy Khoo (Singapore Contractors Association Limited)

Board Member: Estella Kueh (Urban Redevelopment Authority)

On his new role, Mr. Lee said, "I am deeply honoured to take on the role as President of the Singapore Green Building Council and build on the good work of the past

seven Presidents who have led the Council to its present success. With the slew of national sustainability efforts announced over the past couple of years, there is now unprecedented attention and scrutiny on sustainability efforts. SGBC is poised to thoroughly support our Members and built environment organisations at every stage of their decarbonisation voyages."

Complementing its robust suite of established programmes and initiatives to advance built environment sustainability, SGBC is organising the return of the International Green Building Conference (IGBC) on 26–27 June 2023 at the Raffles City Convention Centre. The IGBC event platform holds immense significance as it was first launched in 2009 along with the founding of SGBC as an organisation built on public-private partnership to advance the green building agenda in Singapore. Since then, IGBC has served not only as an important platform to rally the local built environment industry on sustainability concerns, but has also showcased Singapore's efforts and green building achievements to the global industry.

SGBC has also launched the Green Mark Associate foundation-level accreditation for new industry entrants and/or non-technical built environment related professionals seeking to pursue a career in the greening of the built environment or demonstrate competency in the fundamentals of Singapore green building. The accreditation demonstrates a working knowledge of green building fundamentals, key regulations as well as trends and developments, which can help open doors to a growing pool of job opportunities available in built environment sustainability.

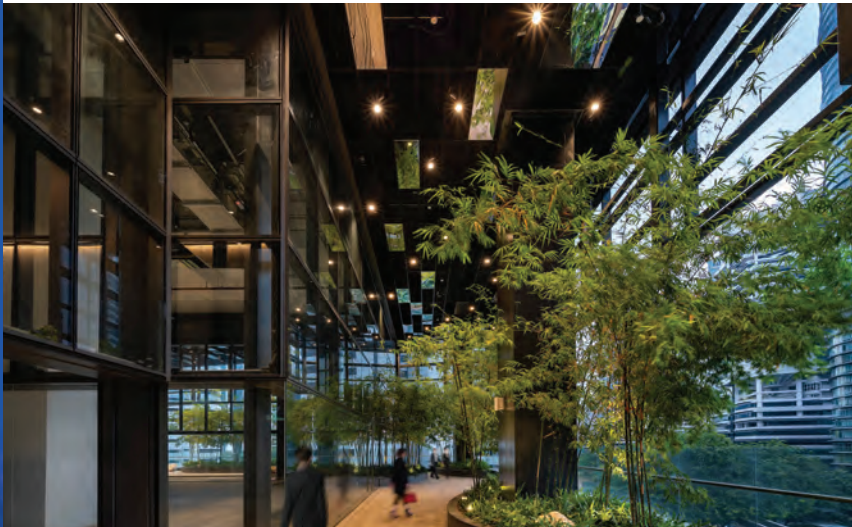


SGBC Board 2023.
Photo credit: SGBC

Menara Hap Seng 3







Featuring Malaysia's first and tallest green wall, Menara Hap Seng 3 is a mixed-use office and retail development that prioritises tenant wellness and comfort from the ground up.

A benchmark for office design in Malaysia, Menara Hap Seng 3 features world-class amenities and retail, Malaysia's first-ever vertical green wall, and connections to mixed-mode public transportation options.

The 26-storey, Class A office development provides 20 floors of office space, a Mercedes-Benz showroom and car delivery bay, five levels of retail, and rooftop dining. The building is part of the larger Menara Hap Seng development located at Plaza Hap Seng, which includes two adjacent pre-existing sister towers. Plaza Hap Seng is known as a business incubator and hospitality district, close to many tourist destinations in central Kuala Lumpur.

The design is inspired by principles of biophilia – the innate human tendency to seek connections with nature. The building envelope and vertical atrium are integrated with light, air, water, and vegetation to enhance the passive performance of the space and provide abundant natural light, illuminating the office floors above.

The 90-metre-high vertical green wall within the atrium

– which comprises more than 27,000 individual pots and 10 different plant species – acts as a natural air filter and offers a visible connection to nature throughout the building. An additional walkable planted terrace on the fifth level provides a shared amenity space for tenants and, by pulling greenery to the facade, visually integrates the building with the tree-lined streetscape. The building has achieved LEED Gold BD+C certification.

PROJECT DETAILS

PROJECT NAME: Menara Hap Seng 3

PROJECT LOCATION: Kuala Lumpur, Malaysia

CLIENT: Hap Seng

ARCHITECT: Skidmore, Owings & Merrill (SOM)

PROJECT SIZE:

STOREYS: 24 floors

GROSS FLOOR AREA: 29,900 square metres

BUILDING HEIGHT: 131 metres

SUSTAINABILITY: LEED Gold BD+C

COMPLETION: 2020

PHOTO CREDIT: © H Lin Ho, Courtesy of Hap Seng



SDE1 and 3 at NUS







February 2023 marked the launch of NUS Cities, a global collaborative platform focused on urban sustainability to drive education, research, and advisory services in Asia primarily as well as the opening of SDE1 and 3, an inventive educational architecture developed by the College of Design and Engineering at the National University of Singapore (NUS) with an in-house core team of seasoned practitioners drawn from the Department of Architecture in collaboration with industry firms. Sited in SDE1 and 3, NUS Cities shall serve as a corporate leadership hub for learning and knowledge sharing across research and educational institutions in Singapore as well as internationally.

The opening of SDE1 and 3 as a super-low carbon and net-zero energy adaptive-reuse demonstrates an effective strategy for urban sustainability by optimising the operational performance of built assets, showing a strong integration of design excellence and sustainability leadership. The building offered a unique opportunity to becoming a case study for redevelopment of existing infrastructure and will significantly influence technological experimentation and architectural thinking in Singapore and the tropical region.

Located along Clementi Road near the southern coastline of Singapore, SDE1 and 3 is a new addition to the College of Design and Engineering precinct and it is part of a larger campus redevelopment for 2030 net-zero carbon target. The climate-responsive building includes more than 23,000 square metres of design studio space, workshops and research centres, a 1000-square-metre open loggia, exhibition galleries, shared and faculty offices and a wide variety of public and social spaces.





Combined with Singapore's first new build net-zero energy building SDE4, the new SDE1 and 3 development serves as a living lab to integrate NUS's research to drive translational solutions, repurposing the University to be a resilient campus.

Aaron Thean, Dean of the College of Design and Engineering, explained: "Sustainability will be an enabler of the solution. We strongly believe that the aspirations of the project can inspire, increase awareness of technology, design quality, and sustainability in our graduates. SDE 1 and 3 represents the next benchmark for renovation and sustainable development for the built environment in the future."

Designed by the College of Design and Engineering with CPG Consultants through an academia-industry collaboration launched in 2015, the building was envisioned as a pedagogical tool for design education of architects and future practitioners. Erik L'Heureux, Associate Professor and Design Lead, described that "the SDE1 and 3 development rethinks the value of adaptive re-use projects by investing in the agency of architecture to create beautiful and highly performative buildings. Everything is visible, it's open, it's accessible for students and faculty to learn from and to teach from. The transformation of SDE 1 and 3 offers an encapsulation of the future of architectural education in Singapore; an ethos of subtracting rather than adding, conserving rather than demolishing, of relying on natural ventilation rather than air conditioning, and creating design quality rather than prioritizing on real estate quantity."

The building integrates principles of vernacular tropical

architecture in Southeast Asia, leading design innovation in an era of rapid advancement in architecture, sustainability, and building technology. The extended west façade is designed as an equatorial envelope that engages with the tropical climate. It screens the building from heat gain by creating a deep veil, an aesthetic expression combining formal design and performance capabilities while establishing a visual resonance with neighbor buildings. Its structure integrates light shelves to drive daylight into the studio spaces through clerestory windows positioned along an inner window wall.

The design utilises its existing carbon form from the original 1976 structural frame to position its own architecture as an opportunity for design experimentation oriented towards crafting sustainable architecture calibrated to the equatorial climate and the urban and natural systems that it is situated within. Giovanni Cossu, Associate Director of Sustainability Services at the National University of Singapore, explained: "This project has given us an opportunity to develop design prototypes in a tropical climate to achieve cost efficiency, high environmental and sustainability performance coupled

with design quality. It strongly builds on the concept of decarbonization, carbon longevity and durability to remain functional as it transitions from old to new over time, expanding on the university's Environmental, Social, and Governance (ESG) agenda."

Air-conditioning is used only when needed while the building's total energy consumption is projected to be one-third of pre-renovation levels. More than 65 percent of the total area is hybrid cooled with tempered air or naturally ventilated, while most of the rooms can be opened to prevailing breezes. With a low embodied carbon footprint, estimated to be lower than a third of a similar new construction, and predicted net positive energy performance, SDE 1 is on track to be net-zero carbon over its lifecycle¹.

The architecture is pedagogically founded on the importance of a public forum for exhibition and architectural debate with blurred boundaries between places to study, work and socialize. Erik L'Heureux, Associate Professor and Design Lead, highlighted that "three floor plates of design studios are linked by a large staircase that serves as a social center,





encouraging interpersonal dialogue. The staircase's proximity to review spaces and an exhibition gallery publicises student drawings and models to the community of the architecture program around the unique learning experiences of public reviews." Each studio space is tied to a conjoined maker's and exhibition space so that display, debate, reviews, design, and fabrication could occur in public view across the length of the building.

There is deliberate integration between built and natural environment with gradients of indoor, the semi-outdoor, and the outdoor spaces. The landscape design emulates the diverse functionality of local habitats and ecosystems with selection of native species as part of research programs conducted by faculty of landscape architecture. The central courtyard, previously concealed by built structures, is redesigned to encapsulate the tropical climate of Singapore with verdant landscape and jungle-like qualities. Departmental and faculty offices are distributed around this tropical patio, bringing the surrounding landscape into close proximity with interior spaces therefore enhancing its biophilic experience. SDE1 and 3 is likely to be one of the earliest developments in Singapore to achieve WELL certification for adaptive reuse, demonstrating that the quality of healthy building design can also be achieved in renovation projects.

Supporting a country environmental effort with Singapore's Green Plan 2030, the university embraced larger national ambitions and adopted net-zero energy as an essential goal for its campus. SDE1 and 3 is designed to be climate responsive with low carbon and net-zero energy consumption featuring a range of innovative technologies and more than

2,000 solar photovoltaic panels on its rooftop. Air quality is improved by digital controls as well as deploying a hybrid cooling system, a transformation of the approach deployed at the net-zero-energy SDE 4 building, designed by Transsolar KlimaEngineering and IEN Consultants that supplies rooms with 100 percent fresh pre-cooled air, albeit at higher temperatures and humidity levels, and augmented with an elevated air speed by ceiling fans. In doing so, the design leverages the performative need for air volume for comfort while simultaneously expanding the experience of the building section.

¹ 40 years

PROJECT DETAILS

PROJECT NAME: SDE1 and 3

PROJECT LOCATION: National University of Singapore (NUS), Singapore

CLIENT: National University of Singapore (NUS)

DESIGNER & ARCHITECT: College of Design and Engineering and CPG Consultants

TOTAL AREA: 23,000 square metres of design studio space, workshops and research centres, a 1000-square-metre open loggia, exhibition galleries, shared and faculty offices and a wide variety of public and social spaces.

COMPLETION: February 2023

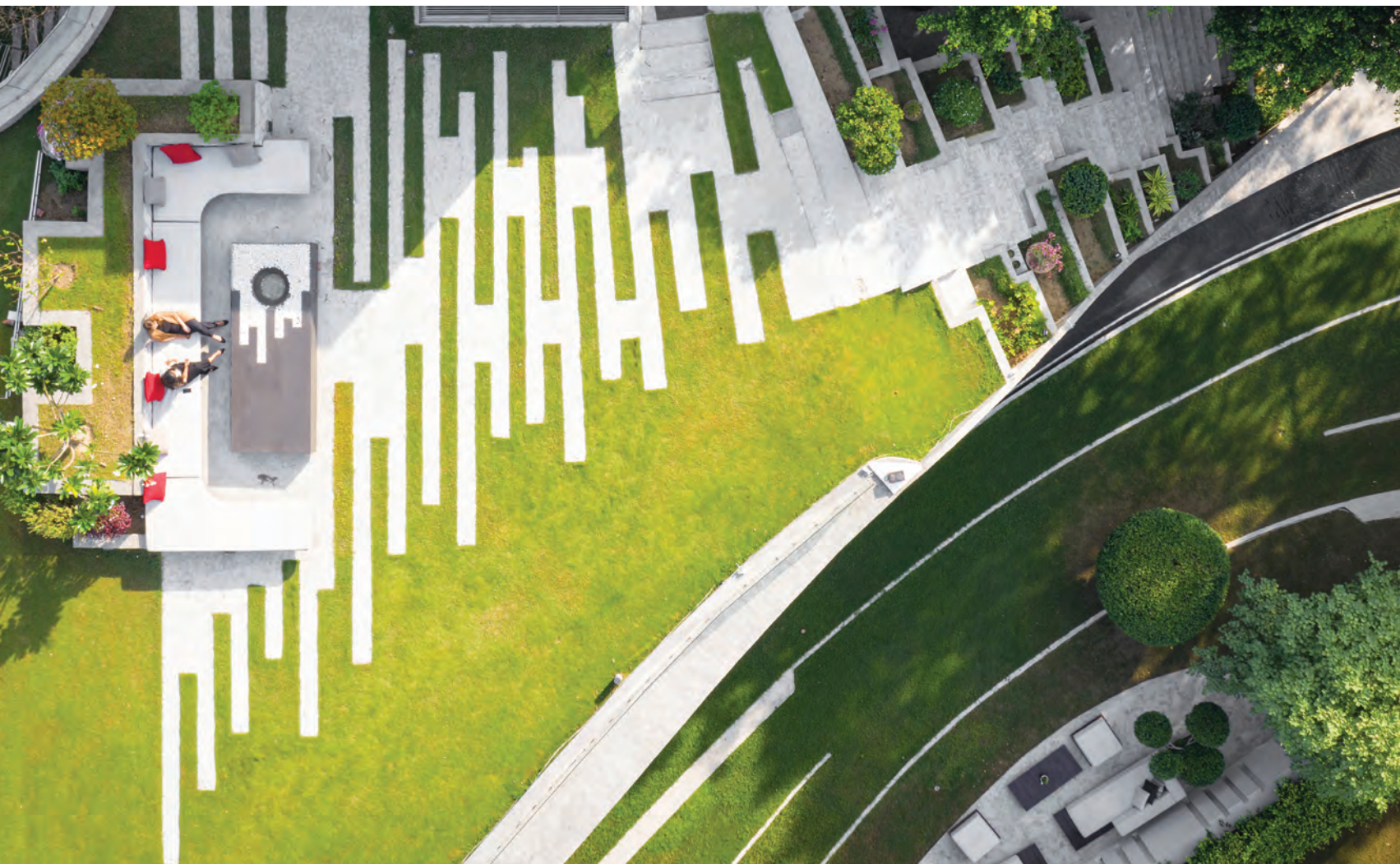
PHOTOS: Courtesy of NUS College of Design and Engineering. Photography by Finbarr Fallon

Villa KD45 – Residence





Overview of Villa KD45.



Rooftop garden

The client's design brief was to create a villa with maximum green space and views to the park. The space requirement is to create a villa for one joint family – the client's brother with his wife and grandparents on the ground floor and he, his wife and son on the first floor. Home theatre, bar and gym in the basement connected with a nice outdoor staircase and a patio to bring in light.

The site is surrounded with villas on three sides, offering views of the neighbourhood park on the shortest fourth side. Alongside there are three prominent trees on the site, one at the entrance, and two flanking the rear side of the plot. The design brief from the client was to try and retain these trees as much as possible.

Being a joint family the client wanted dual interaction in the house. Firstly, zones of privacy were required for his parents, his brother's family and his family and secondly few spaces where all members living in the house can be together.

Design Solution – Urban living in lap of nature

In urban setting, there is a growing disconnect between the user and nature. With this project, the architecture firm Studio Symbiosis, looked at creating green urban living, to rekindle the relationship of the residents with nature in their immediate surroundings. This villa emerges from the landscape, with the central theme of creating maximum green cover on site and utilise the views of the park facing the site.

The odd shape of the plot along with the views to the neighbourhood park was used as design drivers. Thematically the design looks at flowing the green of the neighbourhood park in the site, with streamlines emerging from the park facing



Sustainable design strategy

southern side and opening up towards the northern edge of the site. This base grid has been used to define the built-form and landscape zones such as water bodies, hardscape and softscape.

The built form is strategically placed on one edge of the site, resulting in a generous landscaped garden on west side of the plot which opens up to the double height family living & dining, thereby extending as an outdoor living room. The built form emerges from the landscape and blends the ground floor to the roof of the building, creating an outdoor connective spine for the villa. This meandering stepped walkway has an outdoor space on the first floor with outdoor shaded seating and connects further to the terrace. This outdoor terrace space created on the first floor acts as a balcony and at the same time as direct entrance to the first floor apartment. Landscape garden on the terrace enjoys the views of the neighbourhood park with a feeling of being nested with nature. These three outdoor spaces have different usability based on time of day and season of the year.

Existing trees on site have been retained in the design and the shading from these trees have been used to create ambient outdoor spaces, which could be used in the extreme climatic conditions of Delhi NCR.

Design intent was to creating a dichotomy in façade with lower façade being light in nature and a heavy volume floating on top of it. Ground floor has glass façade to connect with outdoor green spaces, and first floor has punched windows carved out of concrete to minimize heat gain as this façade is directly exposed to sun.

A double height living, dining and open kitchen space combines the two family floors into one zone of family living and thereby strengthening the family connectivity.

Sustainable design strategies have been inculcated in the design, to create ambient indoor and outdoor spaces. Ground floor has a deep cantilever on south-west and east facing façade on ground floor to cut the harsh summer sun. Water

bodies are provided on ground floor and terrace to promote evaporative cooling. The roof of the building is a landscaped terrace with earth and grass, this helps further to cut down the direct heat gain of the villa.

Sustainability

Given the hot climatic conditions of Delhi-NCR this project has been designed for human comfort both indoors and outdoors. Shallow water body on the ground floor has been placed in the path of the wind direction, helping in evaporative cooling. The main south-west facing facade on the ground is recessed to block the direct sunlight during the day, yet maintaining a seamless visual connection to the outside. In the early evening some rays of sunlight animate the interior. Upper floor of the building is made of concrete with windows recessed back to cut the south sun.

The three existing trees on site have been retained, creating zones of shadow in the landscape and also help in reducing the sun exposure of the villa. The green cover on the terrace as well as the meandering steps, ensure a reduction of direct heat gain. Wind direction was taken into account for cross ventilation in the house.

PROJECT DETAILS

PROJECT NAME: Villa KD45

PROJECT LOCATION: Delhi-NCR, Ghaziabad, India

CLIENT: Confidential

ARCHITECT: Studio Symbiosis

SITE AREA: 1081 square metres

BUILT UP AREA: 1100 square metres

PROGRAM: Residence

COMPLETION: 2022

PHOTOS: Niveditaa Gupta (Photographer)



Master bedroom on first floor.



A double height living, dining and open kitchen space.

Factory in the Forest







Factory in the Forest is an architectural competition winning entry for an electronics manufacturing plant. This site is conceived as a forest that penetrates, surrounds & steps over the building creating maximum contact with nature – green, breeze, scent, sound, touch.

A canopy supported by a 'forest' of columns creates unity to office & courtyard while giving protection from the tropical sun. Office levels give access to roof gardens and staff are encouraged out for breaks, meetings or just contemplation.

A green courtyard separates the office & factory with views and access from both. A bridge over the courtyard links the office & production & this circulation route becomes a space for meetings, breaks & lectures.

The factory has views to landscape & the sky condition through full height & clerestory glazing with glazing protected from the sun by free-standing off-form concrete fins and roof louvers. Rainwater cascades from roof spouts – heightening awareness to tropical storms, to storage tanks for landscape irrigation.

The plant receives natural diffused light across the entire factory floor reducing dependency on artificial lighting that, combined with chilled water floor slab cooling & cutting-edge air-conditioning technology reduces energy consumption to half that of a conventional plant of similar size.

Structure & materials are expressed; off-form reinforced concrete and steel structure, glazing and landscape. With this small palette of materials, the building explains to us what it is, what it is made of & how it is put together.

The approach was to create a stimulating & meaningful working environment for all employees – the forest to be the face of the building & company. Forests, critical for both macro & microclimates are also vital for our psychological well-being.

Sustainability

From project onset, the client wanted an energy efficient and climatically responsive building. The cardinal sustainable design principles were energy efficiency, water efficiency, daylighting and biophilia – the fundamental human need for connection to Nature.

The building is designed to shield against the hot & glaring tropical sun, while allowing diffused natural daylight to filter into the building. The office & courtyard are shaded by a louver canopy designed to provide effective solar protection during the hottest part of the day.

The factory skylight design was optimised to achieve an evenly day-lit work environment. The simulations and daylight measurements in operation show that the factory



floor achieves an evenly day-lit work environment without glare throughout the year. Dimmable daylight responsive LED lighting and individual task lighting ensures that the required light levels are always obtained.

An innovative radiant floor cooling system works with embedded PEX pipes in the concrete slabs throughout the factory & office. By cooling down the slabs to about 21°C, this structural element of the building doubles up as part of the cooling system. The higher chilled water temperature and the water-borne cooling transport makes the radiant floor slab cooling twice as energy efficient as conventional air-conditioning.



PROJECT DETAILS

PROJECT NAME: Factory in the Forest

PROJECT LOCATION: Penang Science Park, Bukit Minyak, Malaysia

CLIENT / OWNER: Paramit Malaysia Sdn Bhd. A Tecan Group Company.

ARCHITECT: Design Unit Architects Sdn Bhd

ENVIRONMENTAL ENGINEER: IEN Consultants Sdn Bhd

CIVIL & STRUCTURAL ENGINEER: Web Structures

SITE AREA: 218,500 square feet

GROSS FLOOR AREA: 162,000 square feet

COMPLETION DATE: January 2017

PHOTOGRAPHY: Lin Ho Photography

MeyerHouse



MeyerHouse adjacent to low rise landed housing and forested park.
Photo credit: Darren Soh



Axial view of MeyerHouse to forested park. Photo credit: Patrick Bingham-Hall

Along Meyer Road, a prestigious address along the eastern residential enclaves, sits a condominium development housing 56 luxury dwelling units adjacent to a one-hectare forested park. The five-storey with attic development is arrayed in a contiguous 'C' configuration with residences looking out onto a 50 metres by 75 metres internal forested garden that spills out onto the adjacent park.

Living spaces extend onto large outdoor rooms nestled amongst tall forest trees set amidst a formal English garden. Terracing gardens and water bodies cascade down onto a lower ground arrival level, opening up the subterranean arrival lobbies and facilities to natural daylight, ventilation and greenery.

From street level, the building is scaled to the proportions of a traditional French Chateau with a stately facade of customised GFRC louvers and panelling that envelops the entire form. The louvered facade is inclined to secure privacy for units from street level. The facade finishes extend contiguously onto the roof, creating an envelope that is sculptural and abstract.

Internally, the forested garden is cocooned by timber blinds that screen the residences imbuing the tranquil garden spaces with warmth and character. Within the garden, a long pool set centrally along the main axial views of the forested park reflect the tall trees and warm facades of the development. The pool is overlooked by guest and entertainment facilities that house a generous 20-seater dining room, a cosy lounge and outdoor activity decks.



Residences rise above park land. Photo credit: Darren Soh



Roof terrace with lush landscape foreground. Photo credit: Darren Soh



Balcony overlook adjacent forested park. Photo credit: Patrick Bingham-Hall

The main drop-off is located within the lower ground water courtyards. The arrival lobby opens out onto terracing gardens, pools and a colonnaded walkway leading to the private residential lobbies and a modern gym with views out to a sculptural water court. Garden staircases set within terracing landscaping lead up to the upper gardens from the lower courtyards.

All residences are individually accessed via a private driveway, carpark and lobby on the lower ground. Each of these residences have direct 'personal' lift access to their upper-level units that extend the impression of exclusivity for owners where their home arrival experience begins the minute they park their vehicles on private strata lots on the lower ground. The driveways are naturally lit and open out to the water courtyards.

Typical residences feature a 12 metres long living area with full height large panel glazing that open out to the forested internal garden. Automated venetian blinds allow owners full control over privacy and daylighting, ensuring the long views out onto the gardens are protected.

PROJECT DETAILS

PROJECT NAME: MeyerHouse

PROJECT LOCATION: 128 Meyer Road, Singapore

CLIENT: UOL Group Limited & Kheng Leong Co

ARCHITECT: WOHA Architects Pte Ltd

PLOT AREA: 10,184.90 square metres

GROSS FLOOR AREA: 15,684.74 square metres

LB (LOWER GROUND): 1 floor

L1-L5A: Residential

BUILDING HEIGHT: AMSL 29.15 metres

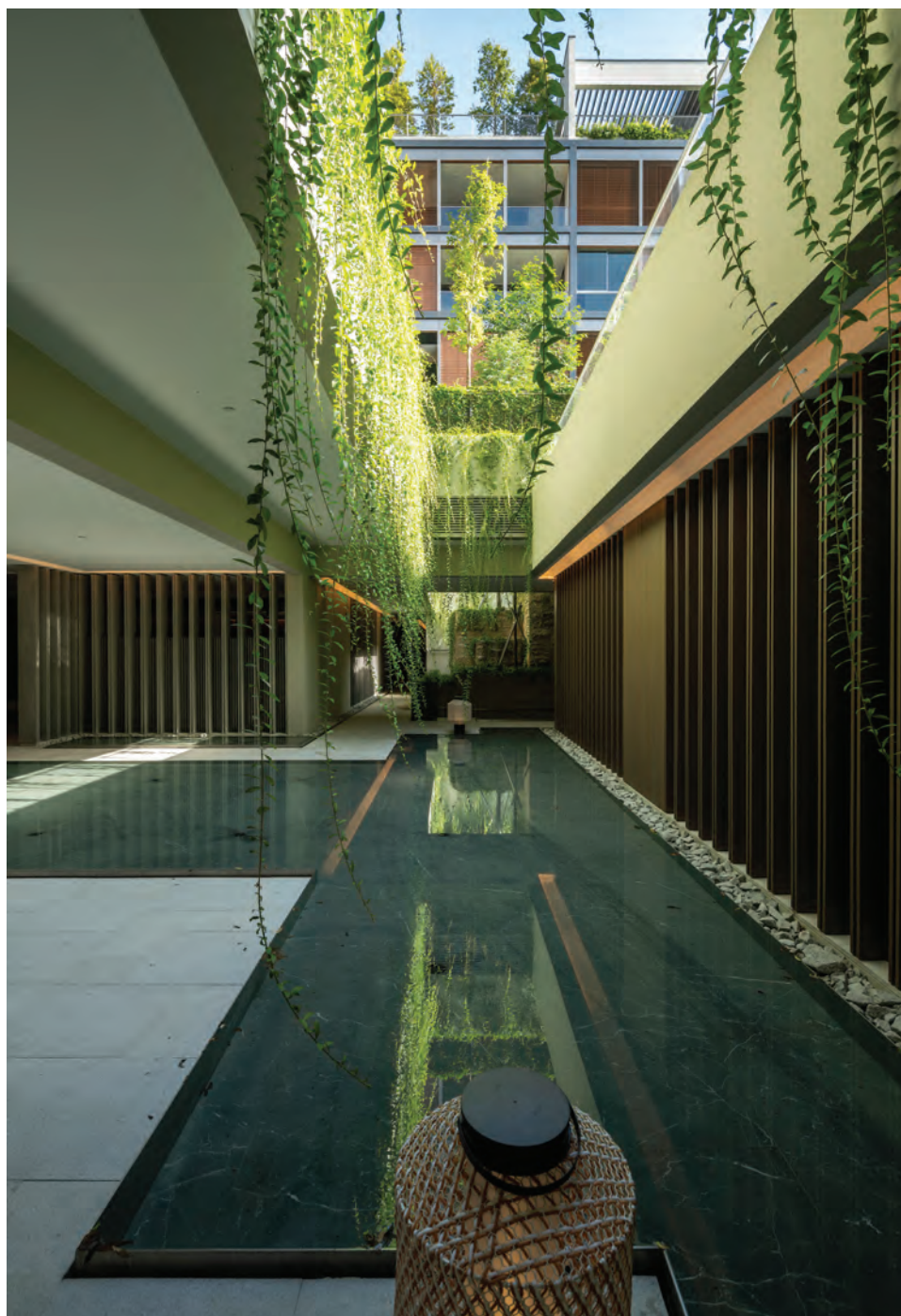
BUILDING HEIGHT LAST OCCUPIED FLOOR L5A: 23.75 metres

NUMBER OF LIFTS: 56 (residential), 8 (common)

TOTAL RESIDENTIAL UNITS: 56 units

PARKING SPACES: 66 (strata lots), 16 (common lots), 3 (EV lots)

COMPLETION: 31 March 2022



Sunlit lower-ground water courts. Photo credit: Darren Soh

One Pearl Bank





Perched atop the verdant Pearl's Hill, the One Pearl Bank development comprises two gently curving 39-storey towers linked at the roof by dramatic sky bridges. The slender, curved facades create a light and airy effect, providing ample space for residents and onlookers to look out and through the towers to admire the stunning views atop the hill. Towering at 178 metres, One Pearl Bank will be the tallest residential development in the Outram-Chinatown district in Central Singapore, offering panoramic views that extend from the Central Business District to Sentosa.

Designed by multi award-winning Serie+Multiply, a joint venture between London-based Serie Architects and Singapore-based Multiply Architects, the new scheme elevates the concept of high-rise living with a total of 774 apartments. It will support more urbanites in leading their dream city lifestyles at this prime location, in line with the Urban Redevelopment Authority's vision to develop more homes in Singapore's Central Area. The development boasts a wide selection of unit types from studio apartments to penthouses, ranging in size from approximately 430 to 2,800 square feet.

Adding to its allure, One Pearl Bank will feature a world-first – a series of sky allotment gardens arrayed vertically at one edge of each tower. With each tower featuring an allotment garden every four storeys and each garden housing 11 plots, One Pearl Bank will have a total of 18 sky allotment gardens with close to 200 plots where residents can grow their own herbs, fruits and vegetables. The beautifully-



appointed allotment gardens not only support urban farming, they offer spaces to promote community bonding. Visible from the city centre, they make a powerful visual statement on One Pearl Bank's biophilic design that integrates nature to enrich residents' quality of life. These allotment gardens are further complemented by two sky terraces and two roof gardens across the two towers and a sunken planter in every balcony to maximise the greenery on the development's facade.

As the only development atop Pearl's Hill, One Pearl Bank offers residents an exclusive opportunity for city living amidst a lush garden setting. Given its unparalleled location, its design scheme contributes meaningfully to Singapore's cityscape and enhances its surroundings. These include



incorporating abundant greenery at different elevations and adding a landscaped path linking One Pearl Bank to the adjacent Pearl's Hill City Park – a beautiful but hitherto largely underutilised public park. Residents can look forward to the rejuvenation of the City Park, which will be transformed into a playground and social space for the community and linked to Fort Canning Park through the scenic Singapore River, as part of the Urban Redevelopment Authority's Master Plan 2019.

Designed to take full advantage of Pearl's Hill's sloped topography, the two towers are lifted 21 metres from the ground to allow a visual continuity flowing from the greenery of Pearl's Hill City Park to the upcoming green connector to Fort Canning Park. Over 500 trees across 35 species and more than 135,000 shrubs, plants and flowers will be planted throughout One Pearl Bank, occupying over 60,000 square feet of space – equivalent to 75 percent of the total site area.

Verdant landscaping can be found in the two mid-tower sky terraces and two roof gardens, which function as social spaces with plenty of amenities. These include a lounge, an indoor and outdoor gymnasium, walking track and an alfresco dining area on the roof gardens overlooking the city. On the sky terraces, residents can host parties at the open amphitheatre or relax at the outdoor lounge area. Yoga enthusiasts can enjoy a few moments of tranquility or simply unwind at the

meditation corner.

Expected to complete in 2023 / 2014, the development will enjoy excellent transport connectivity. One Pearl Bank is a three-minute walk via a sheltered linkway from Outram MRT Station, a triple-line interchange station serving the East-West Line, North-East Line and upcoming Thomson-East Coast Line. It is also linked to two highways, namely Central Expressway and Ayer Rajah Expressway. One Pearl Bank's completion will follow the opening of the Thomson-East Coast Line, making the commute between home and Shenton Way, Marina Bay and Orchard even more convenient for residents.

PROJECT DETAILS

PROJECT NAME: One Pearl Bank

PROJECT LOCATION: Singapore

CLIENT: CapitaLand Development (Singapore)

ARCHITECT: Serie+Multiply

TOTAL SITE AREA: 82,374 square feet

EXPECTED COMPLETION: 2023 / 2024

ARTIST'S IMPRESSIONS: CapitaLand Development (Singapore)

Naman Retreat Pure Spa



Overview of Naman
Retreat Pure Spa.



Tranquility oasis

The Pure Spa, designed by MIA Design Studio, is an oasis of tranquility and facilitates the five-star Naman Retreat, Danang. Fifteen stunning treatment rooms are endowed with lush open air gardens, deep soak bathtub and cushioned daybed built for two. Keep fit at the equally sleek health club with gym, meditation and yoga sessions held at the open lounge garden in the still cool mornings. The ground floor contains open spaces with relaxing platforms surrounded by serene lotus ponds and hanging gardens. A true space where all senses are touched and the mind comes to peace.

The architectural design company MIA Design Studio's ingenious use of natural ventilation keeps the building cool and gives the guest a refreshing experience. With use of local plants, each retreat becomes a healing environment where the guest can enjoy a luxurious wellness in privacy.

Different area's flow smoothly into each other and the beautiful landscape creates an amazing journey into a dream like experience. The facade is composed by lattice patterns alternated with vertical landscapes that filter the strong tropical sunlight into a pleasant play of light and shadow on the textured walls. Various plants are carefully allocated and become a part of the architectural screens.



Light and shadow wall.

PROJECT DETAILS

PROJECT NAME: Naman Retreat Pure Spa

PROJECT LOCATION: Hoa Hai Ward, Ngu Hanh Son District, Da Nang City, Vietnam

DEVELOPER: Thanh Do Investment and Construction Cooperation

ARCHITECT: MIA Design Studio

DEVELOPMENT LAND AREA: 1,600 square metres

NUMBER OF ROOMS: 15

LAUNCH DATE: March 2014

COMMISSION DATE: February 2015

COMPLETION: 2015

PHOTOGRAPH: Hiroyuki Oki



Treatment room



Local plants



Natural ventilation



Green texture wall





Project Name:
Finesse Shoe Store

Project Location:
**Collingwood,
Melbourne, Australia**

Interior Design:
Studio Edwards

Photographer: Peter Bennetts



Photographer: Peter Bennetts



Photographer: Peter Bennetts

Located within a corner brick terrace in central Collingwood the limited edition sneaker store is designed as both sustainable and agile by Studio Edwards.

Existing walls & ceiling are left intact with a series of steel vertical across props (scaffold) providing structural support for display, shelving & clothing rails. Acting as adjustable walls supported a series of display units. Each fabricated from a singular folded aluminium sheet & bolted in place.

The primary display wall is angled to respond to the street front window. Inviting passers by to stop and look – its angular form creating space for a changing room behind. Overhead a coloured linear light extends towards the entry door allowing for adjustment of the ambience to the space. Recycled plastic stormwater pipes are re-appropriated into sales desk and display plinths. Wrapped in seamless speckled vinyl so as to visually melt into the floor. A fully adjustable interior space. Walls are capable of being adjusted for events and product launches. Negating any fixings to the existing fabric and being easily removable at the end of the tenancy.

Studio Edwards' Finesse Shoe Store won the Retail Design Award and received a High Commendation for Sustainability at the 2022 Australian Interior Design Awards. It was a shortlist for the Interior Design category in the 2022 Sustainability Awards.



Photographer: Peter Bennetts



Photographer: Peter Bennetts

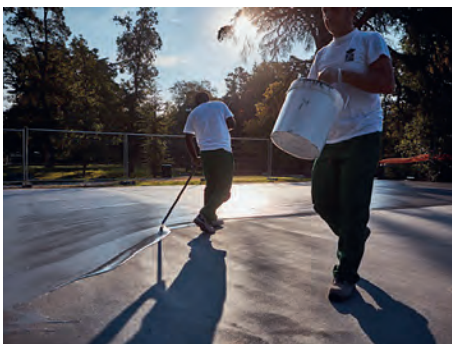
Mapei and Armani are backing Milan street-basket



Five street-basket courts refurbished: Bespoke designs created on the playing surfaces using Mapecoat TNS Extreme.

From the city centre to the outskirts, street-basket in Milan can now count on five completely refurbished courts. Thanks to an agreement between A|X Armani Exchange and Mapei, the playgrounds in Parco Sempione, the Moravia and Muccioli Gardens (south-west Milan), Via Pitteri (in the eastern area) and in the Barona district of the city have been completely refurbished. The initiative, promoted by A|X Armani Exchange in the role of main sponsor, is for the refurbishment and routine maintenance of the courts until the end of 2024. And so, aesthetics and creativity combine with technology to provide the city with new spaces to play

sports, develop and socialise. The surfaces, painted with geometric designs, are durable and provide excellent playing comfort thanks to MAPECOAT TNS EXTREME two-component, rapid-drying, epoxy-acrylic resin in water dispersion protecting the surfaces against the high level of footfall and bad weather, as well as to keep the courts in optimum condition over time. MAPECOAT TNS EXTREME may be applied as a coloured coating on surfaces that need to have high level of slip resistance, including areas open to vehicle traffic and even in wet conditions, and is suitable for refurbishment projects in urban spaces for both sports and other uses.



Photos above: Applying MAPECOAT TNS EXTREME epoxy-acrylic resin on the basketball courts in the suggestive setting of Parco Sempione in Milan.

Article and photos source: Realtà Mapei International no. 95/2022

Resin coatings for basketball courts: The search for beauty

By Marco Ormelli, Technical Director, Resin Floor Srl



Marco Ormelli

Resin Floor have been operating in the resin flooring sector for more than 50 years. What changes have you seen regarding the requirements of designers and clients over the years?

The approach to resin floorings has changed significantly over the years. In the past this type of flooring was considered to be a simple coloured coating, whereas today the requirements of designers and clients are far more specific and regard their type and technical characteristics to increasingly meet manufacturing needs and constraints, as well as to reduce downtimes to a minimum for sport facilities.

Traditionally, resin coatings has been used mainly in industrial environments, but now it is also being chosen for other types of setting. What are the advantages of using resin coatings for sporting purposes where performance properties also play a role?

In the multisport sector the aesthetic aspect of resin floors, with increasingly eye-catching patterns and colours, fosters social aggregation and helps bring children and youngsters closer to sport. In more professional sectors, thanks to the contribution of the Mapei Research & Development laboratories, important results have been achieved such as speed of application, better performance characteristics, playing comfort, resistance to wear and durability. Characteristics which, combined with the variety of patterns and colours available, play a fundamental role in meeting the constantly increasing demand for this type of flooring.

What challenges did you face when applying resin systems for the floors of the Armani basketball courts in Milan?

The main challenge was to deliver a "complete package", which included the application of both materials by Polyglass (Mapei Group) and materials from the MAPECOAT TNS line. As far as the application of the resin system is concerned, particular attention was required when creating particular patterns: one of a kind geometric figures in different colours and the first to be applied on basketball courts.

You often work with Mapei. What are the strong points of this collaboration?

Because it is also one of the leading companies in the resin flooring sector, Mapei is an extremely important partner for us. The strong points of this collaboration are, undoubtedly, technical expertise, the comprehensive range of materials on offer, the incredible availability of the various product managers we are constantly and constructively in contact with during the design phase, and when we carry out the actual work, even of the most complex nature.

■ The PARQ



Situated in the unique location on Rama IV Road near Bangkok's major park, Benjakitti Park, The PARQ is a new mixed-use project that aims to promote work-life balance for future lifestyle through innovative and sustainable designs aspiration to become the 'Forest District'. The landscape design concept is "The Continuity of Greenery", extending greenery from the nearby park onto the site. This allows for greenery to become a tool used to define different functions for employees and visitors, whilst also create a desirable microclimate and connect green corridors for the city on a larger scale.

The PARQ takes on the LEED Standard of Sustainability and Wellness living as the biggest challenge to the design. With sustainable energy resources embedded as chosen species of plants, construction materials that reduce reflection of heat,

designing around the flow of natural light and wind direction, water management, and the reduction of the concrete surface around the building have improved the wellness living of visitors with beautiful scenery, suitable programs, and spatial designs. Altogether, this site has successfully become an ideal Privately Owned Public Space, also known in short as POPS, where it is both beneficial to landowners and surrounding community lifting not only the wellness quality of customers and employees but also shares this wellness to the neighbourhood.

The forest starts with a mountainous space on the west ground area, forming series of landforms with a variety of dense plantations integrated with a rain garden where stormwater is retained and can be reused as a sustainable resource in the future. Here, visitors can sit and escape from the busy city of Bangkok for a while.





The narrative of the forest leads to the main atrium space with a dry creek being a multifunctional gathering space for various activities. As the creek continues toward the main drop-off on the east, space becomes more open like a meadow. It is surrounded by gradient landforms and transplanted existing trees in the middle. During festive times, this drop-off plaza can hold a large number of people and be used for open-air events. Along the edge of the site, feature walls curving in and out between dense tall trees are designed to create a visual impact on the main road and forest settings comply with wellness living.

Stepping to the third floor, the forest narrative is translated into a more humid and serene environment as a lagoon, a pleasant water feature surrounded by tropical and aquatic plants. The garden is aimed to be people's sanctuary, a hideaway space for daily relaxation away from stress. This area is an urban oasis, with a healthy environment from the sound of water, extreme green and shade, inspiration quotes on the floor, and outdoor air condition to accommodate the people's lifestyle, living, working, and other activities. During working hours, Employees can come out to take a rest, gather up, stroll around, or even hold some outdoor meetings. Moreover, there's also a small urban farm on the terrace, which uses sustainability to lift the urban lifestyle.

Overall, with The PARQ's lush living space, the landscape on the ground floor is designed to blend seamlessly with context, allowing pedestrian and bicycle traffic to flow into the site, while also conveniently connecting to the subway station. Regenerating the green environment into forests encourages people to use outdoor space for working, hanging out, and staying healthy. A new quality of urban life is happening at the PARQ.

PROJECT DETAILS

PROJECT NAME: The PARQ

PROJECT LOCATION: Rama IV Road, Bangkok, Thailand

DEVELOPER: TCC Assets (Thailand)

ARCHITECT: Palmer & Turner (Thailand)

LANDSCAPE ARCHITECT: Shma Company Limited

PHOTOGRAPH CREDIT: Panoramic Studio and Napon Jaturapuchapornpong

Doha Modern Playground by Shezad Dawood

The Doha Modern Playground is a site-responsive playground inspired by a group of four key modernist buildings in Doha, Qatar. The structures in the playground reference the Qatar National Theatre and Ministry of Information (Triad CICO, 1982), the Doha Sheraton (William Pereira, 1982), Qatar University (Kamal El Kafrawi, 1985) and Qatar Post Office (Twist + Whitley Architects and Comconsult, 1987).

Reimagined as a children's playground, these iconic but often overlooked buildings are transformed into a space of play and learning alongside some of

the most recent architectural landmarks in Doha, connecting visitors to a holistic understanding and celebration of the modern architectural history of Qatar.

Dawood's playground brings into relief important elements of Qatar's architectural and social histories, and, through a forthcoming publication, the project documents communities' impressions of their built environment and the personal stories connected with them.

As new architectural projects develop at speed in contemporary Qatar, Dawood's Doha Modern Playground at once articulates the need for the

archiving, preservation and protection of histories past, while celebrating the unique beauty of these six architectural structures by inviting children, park visitors and art enthusiasts to explore the shape of modernity through play.

About the artist

London-based artist Shezad Dawood (born 1974) works across the disciplines of film, performance, painting, neon, sculpture and virtual reality. His practice often involves collaboration and knowledge exchange, mapping across multiple audiences and communities to create richly layered artworks.



Photo credit: Sarjoun Faour, courtesy of Qatar Museums ©2022 / 2022



Photo credit: Sarjoun Faour, courtesy of Qatar Museums ©2022 / 2022



Photo credit: Sarjoun Faour, courtesy of Qatar Museums ©2022 / 2022



Photo credit: Sarjoun Faour, courtesy of Qatar Museums ©2022 / 2022

Daikin signs memorandum of understanding for decarbonisation collaboration with Greater Manchester, UK



Signing ceremony held on February 3 2023. Photo: ©2023 GMCA

Tokyo, Japan — Daikin Europe N.V., a subsidiary of Daikin Industries, Ltd., has recently joined forces and signed a memorandum of understanding (MOU) for a collaborative partnership with the Greater Manchester Combined Authority (GMCA), which consists of 10 wards and cities located in the northwest region of England. In signing the MOU, the two parties agreed to cooperate in the promotion of decarbonization, investment, and job creation.

The UK is a global leader in environmental policies aimed at achieving carbon neutrality, and the GMCA, one of the UK's largest metropolitan areas, is particularly attracting great attention for setting the challenging goal of achieving carbon neutrality by 2038, which significantly brings forward the national target year of 2050. To achieve the goals of the GMCA, the MOU calls for the cooperation and collaboration between the two parties over a five-year period until 2027 and aims for the large-scale introduction of heat pump heating along with education and skill development to train HVAC technicians.

Daikin is planning to propose various demonstration themes that utilize its unique environmental technologies. These themes include replacing existing gas boilers in approximately 1,000 homes with heat pump heating systems, introducing commercial heating and cooling systems that use the low-GWP refrigerant R32 to public buildings, connecting

those systems to sophisticated controllers and the cloud to provide optimal control for energy savings through remote monitoring. Additionally, Daikin, in cooperation with schools and re-employment centers in the GMCA, will provide training programs for developing HVAC technicians and establish an official qualification system with the aim of creating jobs and revitalizing the economy. The company is also considering the introduction of wearable devices for workers that utilize AI and will work to improve the efficiency of on-site operations and service quality.

From 2013 to 2017, the GMCA and Daikin collaborated on a project led by Japan's New Energy and Industrial Technology Development Organization (NEDO). The project demonstrated the effectiveness of both heat pump heating to save energy and aggregation systems to regulate electricity demand. The GMCA and Daikin worked together on Europe's largest heat pump heating project which included the installation of more than 500 heat pump systems in public housing.

In agreeing to this MOU, Daikin hopes to make a significant contribution to the decarbonization of the GMCA as the company aims to promote its environmental technologies such as heat pump heating through collaborative creation with the public and private sectors throughout the UK and Europe.

Beckett Corporation celebrates 75 years

Irving, Texas, USA – Beckett Corporation is pleased to announce and celebrate its 75th year in business. Founded in 1948, Beckett has become a recognised leader in designing innovative and reliable pumps and related products for a wide range of industries and market segments.

HVAC/R – Condensate pumps, submersible pumps, and related products

Water Gardening – Submersible pumps, filter systems, water treatments, and related accessories for ponds, fountains, and more

OEM – Pumps for ice machines, refrigeration, tile/masonry saws,

parts washers, oil skimmers, evaporative coolers, specialized A/C equipment, and more.

While designing and manufacturing pumps remain the core of our business, over the years, Beckett has transformed to reach a broader range of customers and applications based on years of proven experience and high-quality products.

"This year marks a historic milestone for all employees at Beckett," says Bill Arnold, President & CEO of Beckett Corporation. Bill also states, "Our success would not be possible without our amazing team of employees, distribution, retail, and OEM partners, and loyal customers. Across every industry we serve and backed by our decades of experience, we are optimistic about our business and its future."

Uponor launches new Xpress Trak™ residential radiant heating panels

Apple Valley, Minnesota, USA – Uponor is continuing to innovate in the residential radiant market with the launch of its newest radiant panel – Xpress Trak™. Designed for residential new construction and remodels, Xpress Trak is a single-panel system with lightweight XPS foam at its core and laminated aluminum around the entire surface to provide exceptional heat-transfer capability.

The XPS foam in Xpress Trak provides numerous benefits for both the installing contractor and the homeowner, including:

- Natural moisture resistance to eliminate caulking edges or panel grooves for increased installation efficiencies
- No insulation needed in joist space

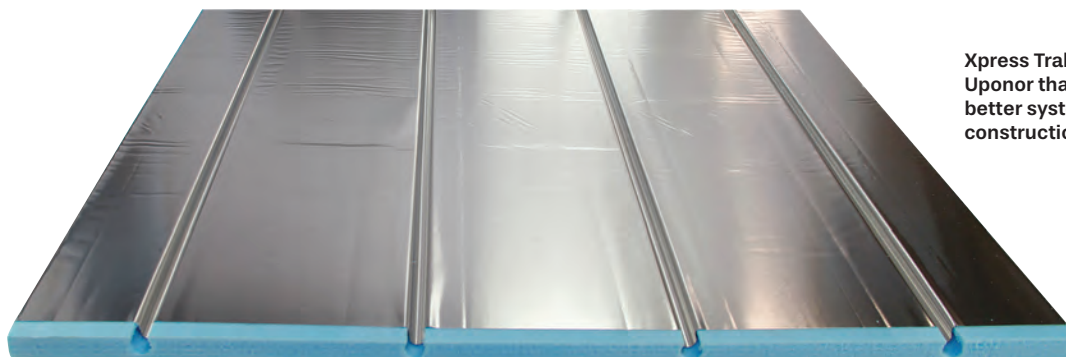
below the subfloor, saving labor time and materials costs

- Compressive strength of 49 psi (pounds per square inch) to eliminate floor deflection
- Lower mass for faster response times to improve system performance
- An R-value of 3.13 that allows energy use to heat the space rather than charging and storing energy into the panel

Xpress Trak is designed for use with 5/16" Wirsbo hePEX™ oxygen-barrier PEX-a pipe and includes a low, 5/8" profile to minimise construction in remodel projects, as well as 6" on-centre pipe spacing to accurately meet residential radiant application needs.

The panels work well under most floor coverings, including hardwood, carpet, tile, linoleum, and luxury vinyl tile or plank. Additionally, the product features straight runs and return bends integrated into one panel for faster, easier ordering and installation.

"With more than 40 years in the radiant market, we are passionate about innovations that advance the industry," says Aaron Stotko, director, Segment Marketing, at Uponor. "By launching Xpress Trak, which provides an ideal complement to our new Smatrix Pulse wireless radiant and air-side control system, installers will now have a comprehensive solution that can help increase efficiencies, productivity, and profitability in their residential projects."



Xpress Trak™ is the new radiant panel from Uponor that provides faster, easier installs and better system performance in residential new construction and remodels.

Geo Connect Asia & Drones Asia 2023 in Singapore conclude successfully



The third edition of Southeast Asia's flagship geospatial and location intelligence technology trade event, Geo Connect Asia (GCA) successfully concluded its two-day run on the 15th and 16th March 2023 at the Marina Bay Sands Expo & Convention Centre in Singapore. GCA 2023, co-located with the first edition Drones Asia and held in conjunction with Digital Construction Asia 2023, hosted in-person 2,494 visitors from 53 countries; 24.5 percent of the visitors attended from outside Singapore.

"We were delighted to welcome geospatial and location intelligence industry experts from the region and beyond, assisting in the creation of a regional community for the industry, with a Singapore base. Securing the continued support of our sponsors, partners and exhibitors is testament to the exciting event format we are developing; the addition of Drones Asia for the UAV industry has been very well received," said Rupert Owen, Co-founder of GCA and Drones Asia.

"Geo Connect Asia is the meeting point for the Asian region, offering the opportunity to collaborate and build partnerships across the fast-expanding geospatial industry. We look forward to supporting future events," said Nadine Alameh, Chief Executive Officer of Open Geospatial Consortium. Ms Alameh opened the conference, which comprised 81 prominent speakers, moderators and delegates from across the world.

Guest of Honour Dr Amy Khor, Senior Minister of State for the Ministry of Sustainability and the Environment and Ministry of Transport, graced the event and delivered the opening address at the opening ceremony.

SMS Khor, in her opening address, said, "Achieving sustainable development in an interconnected world requires

us to strike a balance between economic growth, social development, and environmental protection. Geospatial technology has proven to be a key enabler in supporting these sustainability goals, and Geo Connect Asia provides us with an excellent platform to explore ideas and solutions. I am heartened that such conversations and sharing will take place over the next two days amongst academics, researchers and professionals in various fields across engineering, artificial intelligence and governance."

At the opening ceremony, SMS Khor witnessed the signing of a Memorandum of Understanding (MoU) between the Singapore Land Authority (SLA) and the Container Depot and Logistics Association (Singapore) to use geospatial data to route heavy vehicles more efficiently and safely. An Intent of Collaboration was also signed between SLA and the General Authority for Survey and Geospatial Information of the Kingdom of Saudi Arabia for both countries to exchange knowledge and experiences regarding the use of geospatial technology. In addition, SLA announced a pilot project with SG Enable and Gardens by the Bay to map barrier-free routes for wheelchair users.



Guest-of-Honour Dr Amy Khor addressing the honour at the GCA 2023 opening ceremony. Photo credit: Montgomery Asia



Intent of Collaboration between the General Authority for Survey and Geospatial Information of the Kingdom of Saudi Arabia and SLA. Photo credit: Montgomery Asia



MOU-Signing Ceremony between CDAS and SLA at Geo Connect Asia 2023. Photo credit: Montgomery Asia

"Going forward, we will continue to experiment on using geospatial data sets in novel ways. We will deepen our own geospatial capabilities, broaden our partnerships, and continue to mainstream geospatial in businesses as well as in sustainable development," said Yeoh Oon Jin, Chairman, Singapore Land Authority.

Visitors also witnessed the official opening of the first Drones Asia, a dedicated drone-technology show jointly launched by Montgomery Asia, the Association of Aerospace Industries (Singapore) (AAIS), and Gold Sponsor Inmarsat. This highly anticipated event was devoted to the region's growing Unmanned Aerial Vehicle (UAV) ecosystem, capturing the commercial demand for airborne, unmanned, and ground-based solutions.



Open Geospatial Consortium CEO Dr Nadine Alameh & GCA Co-Founder Rupert Owen. Photo credit: Montgomery Asia



Winners of the ASEAN Geospatial Challenge 2023 - Ganesha Jogja, Bandung Institute of Technology Indonesia (Distinction Award). Photo credit: Montgomery Asia



Winners of the ASEAN Geospatial Challenge 2023 - JIO-Spatial Team, Singapore Management University. Photo credit: Montgomery Asia



This year's Digital Construction Asia 2023 was also an exciting platform for the introduction of cutting-edge solutions for the built environment – including AI, BIM, blockchain, IoT, and visualisation technologies.

GCA 2023 was well supported by nearly 60 trade organisations, associations and government agencies, including SLA; SGTech, the Infocomm Media Development Authority (IMDA); Singapore Exhibition and Convention Bureau (SECB); buildingSMART Singapore (bSS); and the Construction Industry Joint Committee (CIJC). With the Main Conference, Tech Talks, Expert Stage and UAV Innovation Theatre @ Drones



Asia, key industry professionals and players were provided with a platform to connect and hold pivotal discussions that progress the use of geospatial technology and intelligence to address sustainability limitations.

Geo Connect Asia with Digital Construction Asia and Drones Asia will return on 6th and 7th March 2024 at Marina Bay Sands Expo & Convention Centre in Singapore.

The combination of events is organised by Montgomery Asia.

For more information, visit www.GeoConnectAsia.com and <https://DronesAsia.com>.

Riegl Terrestrial Laser Scanners aim to exceed your expectations



Thomas Gaisecker from Riegl Austria (left) and KC Sam from GPS Lands Singapore (right) at their booth.

Riegl is a leading manufacturer of Terrestrial Laser Scanners in Austria. At Geo Connect Asia 2023, the company showcased the Riegl VZ®-600i – its latest generation of professional Terrestrial Laser Scanners. According to the company, the scanners stand for extreme versatility, high productivity, ultimate performance and additional mobility.

The scanners are lightweight (approximately 6 kg / 13 lbs) and can be used for various applications such as indoor and outdoor 3D mapping. It offers high productivity that is 60 scan positions per hour (with image acquisition); simultaneous scan and image data acquisition, real-time on-board automatic registration and other features.

"Riegl has various types of LiDAR (Light Detection and Ranging) sensors including terrestrial, airborne and mobile. VZ®-600i a faster speed and longer range for data acquisition launched it one month ago and now showcasing it at Geo Connect Asia," said KC Sam, Digital Twin Lead, GPS Lands.

Riegl has an Asia Pacific office in Hong Kong. In Singapore, the product is available through GPS Lands.

SBG Systems showcases innovative inertial sensors

At Geo Connect Asia 2023, SBG Systems showcased its range of innovative inertial sensors to visitors.

SBG Systems designs, manufactures, and support an extensive range of state-of-the-art inertial sensors such as Inertial Measurement Units (IMU), Attitude and Heading Reference Systems (AHRS), Inertial Navigation Systems with embedded GNSS (INS/GNSS).

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SBG Systems takes the most of the MEMS technology by combining strict sensor selection with advanced calibration techniques and embedded powerful algorithms to offer miniature and low-cost solutions while maintaining very-high performances at every level. From hydrography to mobile mapping and aerial cartography, SBG Systems offers a complete solution including the IMU, PPK software and services.

Quanta Plus – GNSS aided inertial navigation system

This is an optimised size for direct geoconferencing in the harshest GNSS environment. Quanta Plus combines a tactical MEMS IMU with a high performance GNSS receiver to get reliable position and attitude even in the harshest GNSS environments.

Its miniature OEM form factor, and stellar performances makes it the perfect tool for mapping applications where size and weight are a concern but also demand accurate and



Ryan Keenan, Business Developer – Geospatial Markets, SBG Systems, at his booth.

reliable measurement, such as UAV surveying near buildings, or backpack based mobile mapping.

"Geo Connect Asia is an important show for us in this region, with a stable attendance. The contacts are of high quality, allowing us to look forward to the future with confidence," said Florian Ollier, Head of Marketing & Communication, SBG Systems.

3Dflow specialises in computer vision and image processing



Andrea Masciulli at his booth.

3Dflow srl is a privately held consulting company and software house operating in Italy in the field of Computer Vision and Image Processing. It was established in 2011 as a spin-off of the University of Verona, and in 2012 it became a spin-off of the University of Udine.

3Dflow is a dynamic, innovative company committed to providing cutting-edge solutions and software components involving Photogrammetry, 3D modeling of reality, 3D processing and 3D visual effects. The company's customers range from small local industries to worldwide leading entertainment companies.

The company exhibited at Geo Connect Asia 2023 to showcase its range of solutions.

"Customers can drop their photos into our software to create 3D models, usable for many purposes, like surveying, digital twins, or even video games. It is very user-friendly," said Andrea Masciulli, Software Engineer, 3Dflow srl.

AECA Solutions offers geospatial intelligence technology

AECA Solutions Sdn Bhd is a geospatial intelligence technology company, featuring superior equipment and aerial solutions based in Selangor, Malaysia.

AECA Solutions is an authorised reseller for Quantum-Systems eVTOL survey-grade drone. It was the company's second time participation at Geo Connect Asia show and this year it exhibited as an official distributor for 3D Target Scanfly multiple-platform LiDAR scanner.

The Scanfly LiDAR scanner from Italy is a lightweight and ultra-compact solutions for 3D LiDAR Mapping. It offers many advantages, for example, Scanfly can be easily installed on most of the UAS available on the market. Since Scanfly can be placed on a backpack, there are no limits to the environments to survey while wearing Scanfly. Also, Scanfly can be mounted on any vehicle: on motor, vehicles, on boats, on a quad.

"The system – LiDAR – can work in multiple platforms so it is a more economical and efficient solution for you compared to other surveying equipment," said Tengku Erina Tengku Nasrudin, Chief Executive Officer, AECA Solutions Sdn Bhd.

At the exhibition, AECA also showcased the German-engineered Trinity F90+ from Quantum-Systems. The Trinity F90+ is a mapping drone for professionals. It features an extended flight time of 90 minutes and easy to use mission planning software QBase 3D. The choice of integrated cameras is unrivaled, according to the company. It includes RGB, Oblique, Multispectral and even LiDAR – making it the right tool for every mapping application.

The company started its operations in 2016 and since then it has evolved to become a leading provider of geospatial intelligence technology around the region.



Tengku Erina Tengku Nasrudin at her booth.

Sparsh Aerobotics revolutionizes high-rise cleaning with drones



Shivam Mishra at his booth.

Sparsh Aerobotics is a brand of Sparsh Machinery and Equipment. Established in 2020, the brand launched the first specialized drone in the cleaning industry to solve the problem at high-rise structure and building cleaning.

According to Mr Shivam Mishra, Founder, Sparsh Aerobotics, the product is India's first fully automated UAV Solution for industrial safety and cleaning applications. He also added that drone is the first of its kind in Asia to revolutionize high-rise cleaning with drones.

"Our drones can provide solutions such as cleaning, inspection and painting for buildings that are up to 150 metres tall. Due to our capabilities, we believe we are the first in India and Asia too," said Mr Shivam Mishra.

The company offers different variety of drone solutions for all industrial applications with quick and effective standard methods. The solutions are faster and safer than traditional methods and provide more accurate results.

Besides drones, Sparsh Aerobotics offers land survey solutions; mine and volumetric solutions; and urban planning, 3D structure mapping, monitoring and drone survey.

The company is planning to set up an office in Singapore in April 2023.

Gexcel designs solutions to capture reality in 3D

Gexcel srl is an Italian company with an Asian office in Vietnam. Since 2007, the company has been developing and designing software and systems to make surveying, LiDAR data processing, monitoring and 3D control more competitive and effective. At the base, advanced technology, patented algorithms, and a vision of integration to make users able to connect different sensors and third-party software. The company provides sales, support, training and service directly or through its international network of resellers.

"Geo Connect Asia 2023 was amazing! It is the biggest geospatial event in Asia where we can meet people sharing mutual interests and share our innovative values for those who are looking for advanced solutions to solve their problems. We will definitely be back in 2024!", said said Anh-Tu Nguyen, Head of GEXCEL APAC.



Gexcel's booth at Geo Connect Asia 2023.

Mosaic offers highest resolution and most powerful 360° cameras in the world

Mosaic is a 360° camera hardware and services company based in Prague, Czech Republic. The company's range of products includes 3 mobile mapping cameras: the Mosaic 51, Mosaic X and Mosaic Viking.

Mosaic has been shipping cameras for over 3 years now to customers around the world.

The first device – the Mosaic 51 is a suitable device for quickly, easily collecting highly detailed street-view images at scale in any environment.

Following market trends, Mosaic brought to production the Mosaic X – the global shutter variant of its first model. This newer edition has been in production and shipping since last summer 2022.

At Geo Connect Asia 2023, the company showcased Mosaic X – a purposely-built, top-quality mapping camera, collecting data in such high resolution that allows users to generate accurate 3D reconstruction and colourising of point clouds.

"Currently, our cameras offer the highest resolution in the market. They are able to capture the smallest details very clearly. This eliminates the need for repeated site visits by surveyors



Anastasia, Social Media Manager, holding the Mosaic X mapping camera at her booth.

or inspectors. Our cameras are also very reliable in the field, ensuring that large-scale projects can be conducted over long periods of time in harsh conditions and always deliver," said Lynn Puzzo, Director of Sales & Marketing, Mosaic.

The Mosaic X camera (which was on hand at the expo) features include:

- A robust frame, built to handle the elements such as heat, cold, humidity, dust and rain
- Built-in GPU and CPU, eliminating the need for a workstation within the vehicle during capture
- 4x larger pixels (than the Mosaic 51) which capture more light in harsh light conditions and tunnels
- Global shutter sensors and best-in-class optics give geometrically perfect images for 3D reconstruction and colourising point clouds.

"The product is very robust. We have used it and tested it under different weather conditions such as the rain and hot temperature like 40 degrees Celsius," added Lynn.

The Mosaic X can be used for surveying and inspecting the streets and buildings. The data can be used to create 3D models and digital twins.

Due to its global shutter sensors, Mosaic X is ideal for photogrammetry and for pairing with LiDAR (i.e. colourising a point cloud). Additionally, the Mosaic X is fully integrated with RIEGL V-Line Scanners and is capable of integration with most industry-standard sensors such as GNSS, IMUs, wheel-encoders and the like for higher accuracy and more precision to fulfill users' requirements.

HarmonyAT provides BIM outsourcing services

Harmony Advanced Technologies (HarmonyAT) is a BIM/CAD service provider from Vietnam, offering offshore software development for design-and-build softwares and BIM Modeling services.

Its wide range of services include BIM & CAD tool customization; web BIM tool development; consulting and training; modeling services and BIM plugin for Autodesk, Tekla, and many other solutions.

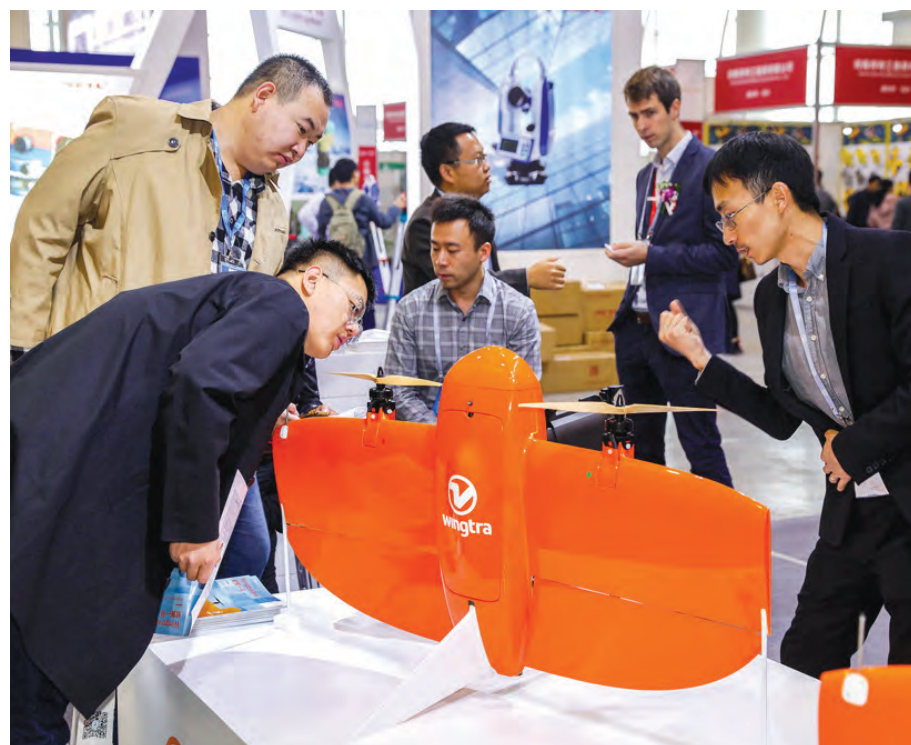
It exhibited together with xD Twin – digital twin for built environment.

"If you are looking for a digital twin expert, we are the partner you can trust. Founded in 2002, we have 21 years of experience in the AEC industry through a variety of projects. Our goal is to deliver quality solutions that exceed the expectations of our clients with expedited delivery time and optimal cost," said Tuong The Bien (Mike), Senior Technical Manager, HarmonyAT Co., Ltd.



Tuong The Bien (Mike) at his booth.

WingtraOne Gen II, the high-performance mapping drone



WingtraOne Gen II attracting interest at this year's Geo Connect Asia.
Photo credit: Wingtra

Originating from Switzerland, Wingtra AG offers a VTOL professional surveying drone that can map an area of up to 400 hectares in one flight at survey-grade accuracy.

WingtraOne is an easy-to-use mapping drone that delivers consistent, high-quality survey data faster and at a lower cost than other surveying tools.

The ground sampling distance (GSD) can go down to 0.7 cm/px and absolute horizontal accuracy down to 1 cm.

In addition, WingtraOne's simplified workflow and intelligent system allow surveyors with little or no drone flight experience to fly with confidence after minimal training. Wingtra drones are used by surveyors in a wide range of industries, including construction, mining, environmental monitoring, agriculture, urban planning, and land management.

The company is headquartered in Zurich with dedicated APAC personnel located in Malaysia, the Philippines Australia, and South Korea.

OKIN presents a new Seating Design line at interzum 2023

Electrically adjustable seating furniture that satisfies the highest visual requirements: DewertOkin GmbH presents its new Seating Design line at interzum. It combines comfort and fresh design into products to ensure an attractive home environment. The specialist for drive and system technology will also be presenting the OKIN Bed Mechanism, as a complete system for adjustable box spring and continental beds in Cologne from May 9-12. Powerful lifting columns and compact control units are also included in its trade fair exhibition for the office sector.

At interzum, OKIN is presenting the Design line: Metal-to-floor, Wood-to-floor, Lifter and Relax chairs (including the Relax 3031D chair). These are not only robust and durable, but also extremely smooth during operations. For these mechanisms, OKIN also provides the corresponding accessories, such as the head and lumbar supports.

The Relax functional mechanisms feature the high-quality workmanship, robustness and reliability that DewertOkin is known for. DewertOkin relies on innovative system-based solutions to offer a one-stop shopping experience with many advantages. Whether it is for comfort chairs for home use or sophisticated cinema seating – DewertOkin is your single source for drives, control units, operating elements and mechanisms.

Powerful bedding solutions

The OKIN Bed Mechanism (OBM) is the perfect complete system – including mechanism and drive set – for adjustable box spring beds and continental beds. Optimal compatibility between the mechanism and the drive system ensures outstanding performance and durability. It is so versatile that it will also be compatible with slatted bed frames and bed-base suspensions. There are many accessories available – including drives, plug-in power supplies, USB chargers, massage motors and LED light strips – which can be combined individually.



The 3031D Relax chair is part of the new Design line which combines comfort and aesthetics – ideal for modern living environments. Photo credit: DewertOkin GmbH



Versatile: As a complete system including the mechanism and drive set, the OKIN Bed Mechanism will also be applicable for slatted frame and slat base systems. Photo credit: DewertOkin GmbH



In conjunction with additional DS2 desk system components, the DD471.3 lifting columns enable you to construct an ergonomic working environment in your home and office. Photo credit: DewertOkin GmbH

In the high-end sector, the OKIMAT 4+2-EPS-RF-BT-Memory-Massage is a powerful double drive that significantly improves users' comfort. A total of four drives with memory and synchronize functionality can be controlled. Massage motors and other accessories can also be connected.

A healthy work environment – both at home and in the office

Working ergonomically at your desk is also a focus at interzum. From its portfolio of high-performance system components for the office sector, OKIN is presenting three-part DD471.3 lifting

columns as part of the DS2 desk system, used together with the versatile DB02 control unit which features optimised collision detection. The DH02.01 Touch handset can be integrated for operations. In the presented application, the frame components and table legs from the OKIN modular system continue to be used. The variable table frame has infinitely-variable adjustment for different table top widths.

Both at the component and system levels, its products meet all requirements of EN 527 and DIN FB 147; this makes them well suited for constructing certified table systems.

DECOCER rediscovers exquisite ceramic craftsmanship with a contemporary feel

On the occasion of the new season, Decocer, a company specialised in the manufacture of small-size ceramic pieces with high added value, presents new exclusive collections in the material and authentic ceramic language under the "Tile Life" campaign.

Decocer has designed for this new year a delicate collection of unique and designer pieces inspired by the elements of nature. Contemporary craftsmanship is the best way to describe the new luxury pieces created for its clients, architects and interior designers from all over the world.

Collections inspired by the intensity and strength of nature

"Tile Life" is the common theme of the new and exclusive ceramic designs that the Spanish company has prepared for the 2023 season and will be presented during the international show. As its name indicates, "Tile Life" brings together a variety and creative ideas that revolve around the intensity of life, the strength of nature and material expressiveness.

They are delicate, elegant, exclusive and timeless ceramic pieces that combine the essence and traditional values of traditional ceramics. Their proposals are full of intensity, colour, details, nuances, volumes, shine, textures, reliefs, graphics and unusual shapes.

Hexagonal pieces, trapezoids, volumes, three dimensions, reliefs...

Decocer takes a step forward by proposing a daring hexagonal piece that is presented in both flat and three-dimensional ceramics, making it possible to combine flat and reliefs surfaces to design murals full of movement. Evoque Rock is the best representation of the possibilities of the most special ceramics: vivid colours and three-dimensional volumes.

This unique piece is designed to give a sense of life to spaces and to generate infinite geometric games. It is a small size piece 14x16 cm, which allows all kinds of drawings on the walls and allows thousands of creative possibilities and personalization of spaces.

The Bouquet collection presents several brightly coloured pieces in 20x20 cm, size that represent floral and vegetable patterns as being a botanical garden of the last century, as well as proportionate geometries taken from nature. They are elements that make us travel to a renewed modernist style with a touch of high contemporaneity and elegance.

A ceramic piece in the shape of a seabird's feather

The Dreams series surprises us with its geometric shape, it is a piece that draws a feather. The collection is inspired by the exoticism of seabird feathers, also an element widely used in Art Deco. It is a very unusual size that is offered in 7.5x20 cm, and in a wide range of pastel colours.

Decocer also proposes a lengthened piece to make different geometric games for both floor and wall application, in 5x40



Photos credit: @Decocer

cm. It is a soft design that reproduces a concrete material in low relief and in matt finish. And as the other end of the spectrum, the Harlem collection of 5x25 cm rectangular pieces stands out for its intense glaze on its surface, which has an exceptional shine giving life and luminosity to the spaces.

Decocer, at the service of manufacturers, large distributors, and professionals

Decocer is a ceramic tile company that starts from the tradition of hand-painted and decorated with several firings to become a modern industry with the same taste as usual. It is a company that has been able to combine the most authentic and traditional ceramics with the most on trend, advanced and contemporary proposals.

The ceramic tile company specialised in the design and development of unique, small-size pieces, customised to the project and the needs of architecture and interior design professionals, which makes it unique on an international level. It also offers a wide range of sizes and unique geometries and finishes.

Decocer is a strategic partner that designs collections tailored to the needs of prestigious manufacturers, distribution

chains in Spain and other international countries, architects and interior designers.

Trends and innovation laboratory

For the development of its exclusive ceramics, Decocer has a great laboratory for design trends and lifestyles, made up of design and architecture professionals, to propose the most contemporary solutions and creativity for its customers.

Decocer was founded in 1988 as a hand-decorated and hand-painted piece company, and today it has the best manufacturing technology, always remaining faithful to the essence of the ceramic product which designs and manufactures.

75 percent of its sales are made to foreign markets

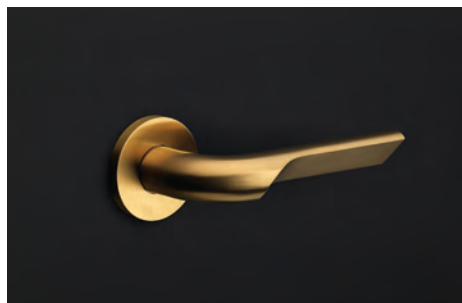
Decocer has an international presence in 20 countries around the world and around 75 percent of its sales are made to international markets. Its main markets are the USA, UK, Italy, Belgium, Canada, Australia, and Spain. Its goal is to continue growing in these markets by positioning itself as the most exclusive option for small-scale and high-end ceramic products.

Formani launches the RIVIO architectural hardware collection in collaboration with Gensler

Formani, a global luxury brand specialising in high-quality architectural hardware, launched its new RIVIO collection on 16 February 2023. The uniquely ergonomic collection was designed in collaboration with Gensler, the global architecture, design, and planning firm that served as product design consultant. This is the first collaboration between the two companies.

Transition was the watchword for Gensler when designing the RIVIO collection. Carved through the centre of its circular section and transitioning from slender to solid, the flowing cutaway of the RIVIO handle allows the thumb and fingers to engage in a singularly natural way, affording a better grip that helps make opening and closing easier. Ergonomic and elegant, it is offered in two variations, with either a curve or a 90-degree angle leading to the neck and rose.

"For us, Gensler has always been decisive in the world of architecture and design. We operate globally in the same countries, where they create



Formani Rivio GL 100 PVD satin gold.
Photo credit: Formani

beautiful projects and make the world more beautiful through the power of design – a mission we certainly agree with, so it is a huge honour to work with them," said Pim Aarts, Owner and Managing Director of Formani. "The design proves that even in the smallest details there can be a great impact."

"We're always striving to improve user experience with our designs, and this collection, with its unique ergonomics, is no exception," said Scott Star, Director of Product Development and Co-Global Practice Area Leader at Gensler. "Whether used in a hospitality



Formani Rivio GL 101 PVD satin black.
Photo credit: Formani

setting, residential environment, office, or retail space, the shapes are haptically engaging and make even the shortest of interactions easier and more enjoyable."

The two variants of the RIVIO handle – curved or 90-degree angle – are the cornerstones of the RIVIO hardware collection, which consists of door fittings, window fittings, furniture fittings, and other accessories. Crafted of stainless steel, all RIVIO products come in four finishes: satin stainless steel, PVD satin gold, PVD satin black, and bronze powder coat.



Sir David Alan Chipperfield,
photo courtesy of Tom Welsh.

Sir David Alan Chipperfield CH receives the 2023 Pritzker Architecture Prize

Civic architect, urban planner and activist, Sir David Alan Chipperfield CH has been selected as the 2023 Laureate of The Pritzker Architecture Prize, the award that is regarded internationally as architecture's highest honour.

Subtle yet powerful, subdued yet elegant, he is a prolific architect who is radical in his restraint, demonstrating his reverence for history and culture while honoring the preexisting built and natural environments, as he reimagines functionality and accessibility of new buildings, renovations and restorations through timeless modern design that confronts climate urgencies, transforms social relationships and reinvigorates cities.

"I am so overwhelmed to receive this extraordinary honour and to be

associated with the previous recipients who have all given so much inspiration to the profession," remarks Chipperfield. "I take this award as an encouragement to continue to direct my attention not only to the substance of architecture and its meaning but also to the contribution that we can make as architects to address the existential challenges of climate change and societal inequality. We know that, as architects, we can have a more prominent and engaged role in creating not only a more beautiful world but a fairer and more sustainable one too. We must rise to this challenge and help inspire the next generation to embrace this responsibility with vision and courage."

His built works, spanning over four decades, are expansive in typology and geography, including over one hundred

works ranging from civic, cultural and academic buildings to residences and urban masterplanning throughout Asia, Europe and North America.

The 2023 Jury Citation of the Laureate, states, in part, "This commitment to an architecture of understated but transformative civic presence and the definition – even through private commissions – of the public realm, is done always with austerity, avoiding unnecessary moves and steering clear of trends and fashions, all of which is a most relevant message to our contemporary society. Such a capacity to distill and perform meditated design operations is a dimension of sustainability that has not been obvious in recent years: sustainability as pertinence, not only eliminates the superfluous but is also the first step to creating structures able

to last, physically and culturally."

Chipperfield calculates the environmental and historical impacts of permanence, embracing the preexisting, designing and intervening in dialogue with time and place to adopt and refresh the architectural language of each locale. James-Simon-Galerie (Berlin, Germany, 2018) situated on a narrow island along the Kupfergraben canal and accessible by the Schlossbrücke bridge, serves as the gateway to Museum Island. Commanding, though discreet, colonnades with grand scale enclose a terrace, a wide expansive staircase and a manifold of open spaces allow abundant light into the large entryway of the building. The design enables generous views from within and beyond, even through to adjacent buildings and the surrounding urban landscape.

"He is assured without hubris, consistently avoiding trendiness to confront and sustain the connections between tradition and innovation, serving history and humanity," comments Tom Pritzker, Chairman of the Hyatt Foundation, which sponsors the award. "While his works are elegantly masterful, he measures the achievements of his designs by social and environmental welfare to enhance the quality of life for all of civilization."

In renovative works, his precision is imbued with historical acumen, informing his vision to invariably redeem original design and structure rather than supplant it wholly with modern architecture. The Laureate reflects, "As an architect, I'm in a way the guardian of meaning, memory, and heritage. Cities are historical records, and architecture after a certain moment is a historical record. Cities are dynamic, so they don't just sit there, they evolve. And in that evolution, we take buildings away and we replace them with others. We choose ourselves, and the concept of only protecting the best is not enough. It's also a matter of protecting character and qualities that reflect the richness of the evolution of a city."

The Neues Museum (Berlin, Germany, 2009), originally constructed in the mid-19th century and left devastated and inhabitable during World War II, demonstrates Chipperfield's discernment between preservation, reconstruction and addition. The novel



Above: Inagawa Cemetery Chapel and Visitor Center, photo courtesy of Keiko Sasaoka.



Above: Procuratie Vecchie, photo courtesy of Richard Davies.

Below: The Hepworth Wakefield, photo courtesy of Iwan Baan.



is in conversation with the old, as architecture of the past is brought to the foreground, yielding moments of modernity such as a striking new main stairwell flanked by walls revealing traces of original frescoes and repurposed materials, even those that were marred by wartime blemishes. Generous outdoor space makes it a connector for all, even for those who never enter the galleries.

Alejandro Aravena, Jury Chair and 2016 Pritzker Prize Laureate, elaborates, "In a world where many architects view a commission as an opportunity to add to their own portfolio, he responds to each project with specific tools that he has selected with preciseness and great care. Sometimes it requires a gesture that is strong and monumental, while other times, it requires him to almost disappear. But his buildings will always stand the test of time because the ultimate goal of his operation is to serve the greater good. The avoidance of what's fashionable has allowed him to remain permanent."

His restoration and reinvention of the Procuratie Vecchie (Venice, Italy, 2022), which dates back to the 16th century, redefined the civic ability of this building within the heart of the city to allow general access for the first time. He elevates partnership through his processes, upholding his belief that architecture and craft are intertwined. He called upon traditional craftsmen to revive original frescoes, terrazzo and pastellone flooring and plasterworks, uncovering layers of history, while incorporating local artisan and building techniques to produce modern correlative interventions such as a vertical circulation. The restored building now enables views from above and within, revealing rooftop terraces, exhibition and event spaces, an auditorium and an enfilade of arches that diverge into galleries.

Every work becomes a civic undertaking serving society, such as the America's Cup Building 'Veles e Vents' (Valencia, Spain, 2006), intended primarily as a temporary hospitality venue for offshore teams and sponsors. Exterior space exceeds interior and the cantilevered viewing decks are miradors, generous in size, some spanning 15 metres in width around the perimeter of each overlapping level. Chipperfield infuses a program for the public, through first-floor

retail spaces and an accessible deck that offers unrestricted views of the canal and city below. A ramp from this level creates a direct pathway to a park just north of the site. His restoration and addition of Morland Mixité Capitale (Paris, France, 2022) revitalizes the neighbourhood with affordable and luxury housing, retail and restaurant venues, a hotel and youth hostel, an installation space and an urban rooftop garden. By raising the new volumes on vaulted load-bearing arcades which continue along at the base of the original building, the architect creates a space to gather, inviting those to pass by or pass through the new visual and physical passageway to the Seine River from the Boulevard Morland.

Whether through public or private buildings, he bestows unto society the opportunity for coexistence and communion, protecting individuality while fostering a societal sense of belonging. The headquarters for Amorepacific (Seoul, Republic of Korea, 2017) harmonize the individual and the collective, the private and the public, work and respite. Vertical aluminum fins across the glass façade provide solar shading to aid thermal conditions and natural ventilation, and create a translucency, encouraging a rapport between the building's occupants, its neighbors and observers. Office space is equipoised by a public atrium, museum, library, auditorium and restaurants. A central courtyard allows views through to nearby buildings and hanging gardens further engage the community inside with the elements outside. At the Inagawa Cemetery Chapel and Visitor Center (Hyogo, Japan, 2017), situated in the Hokusetsu Mountains, the physical and spiritual coexist, with places of solitude and gathering, for peace and seeking. These interconnected expressions are mirrored in the earth-toned monolithic buildings, stairs and pathways residing amidst the sloped terrain, and the secluded non-denominational chapel and visitor center that are juxtaposed diagonal from one another.

"We do not see an instantly recognizable David Chipperfield building in different cities, but different David Chipperfield buildings designed specifically for each circumstance. Each asserts its presence even as his buildings create new connections



BBC Scotland Headquarters, photo courtesy of Ute Zscharnt for David Chipperfield Architects.

with the neighbourhood," continues the 2023 Citation. "His architectural language balances consistency with the fundamental design principles and flexibility towards the local cultures... The work of David Chipperfield unifies European classicism, the complex nature of Britain, and even the delicateness of Japan. It is the fruition of cultural diversity."

Significant works also include the River and Rowing Museum (Henley-on-Thames, United Kingdom, 1997), BBC Scotland headquarters (Glasgow, United Kingdom, 2007), Turner Contemporary (Margate, United Kingdom, 2011), Campus Saint Louis Art Museum (Missouri, United States of America, 2013), Campus Joachimstraße (Berlin, Germany, 2013), Museo Jumex (Mexico City, Mexico, 2013), One Pancras Square (London, United Kingdom, 2013), Royal Academy of Arts masterplan (London, United Kingdom, 2018), Hoxton Press (London, United Kingdom, 2018) and Kunsthaus Zürich (Zurich, Switzerland, 2020).

Chipperfield is the 52nd Laureate of the Pritzker Architecture Prize. He resides in London and leads additional offices in Berlin, Milan, Shanghai and Santiago de Compostela. The 2023 Pritzker Prize ceremony will be held in Athens, Greece this May.

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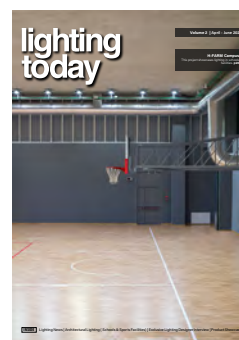
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W: https://manila.philconstructevents.com

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Shanghai, China

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E: rtasia@vnuexhibitions.com.vn

W: https://en.rtasia.net

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Saigon Exhibition and Convention Center,
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E: info@hawacorp.com.vn

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2023

6-8
Sept

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Sept

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Sept

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Nov

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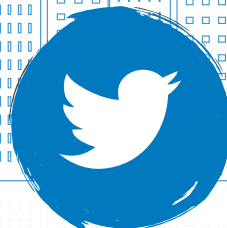
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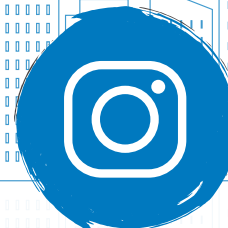
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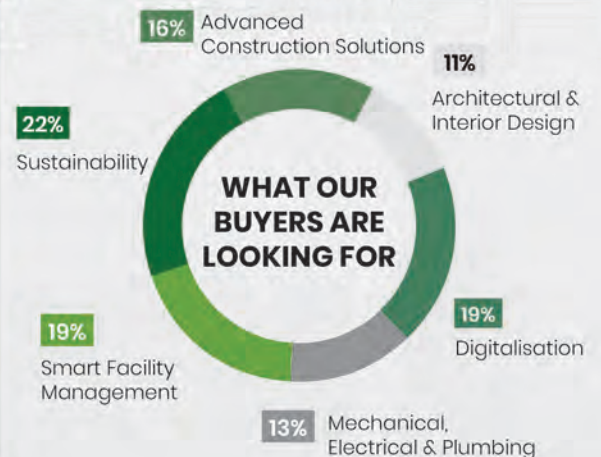


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