

BUILDING SURVEYORS CONFERENCE 2022

SUSTAINABILITY IN BUILT ASSET AND COUNTRYSIDE CONSERVATION



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BUILDING
SURVEYORS
CONFERENCE
2022



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MESSAGE FROM THE GUEST OF HONOUR

Sr CHEUNG Hau-wai, SBS

Chairman,
Hong Kong Green Building Council



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On behalf of the Hong Kong Green Building Council, I am delighted to join you at the Building Surveyors Conference 2022 organised by the Hong Kong Institute of Surveyors - Building Surveying Division (HKIS-BSD). This occasion is another important milestone on your journey as a vital part of the building surveying community.

With the theme of "Sustainability in Built Asset and Countryside Conservation" this year, the Conference features the latest initiatives for green building and sustainable development, as well as the way to balance conservation and socio-economic development. It is an excellent platform for academia, industry experts and policy makers to come together to discuss the journey towards carbon neutrality, and to deliberate the strategies and challenges ahead.

Over the years, HKIS-BSD has played a crucial role in promoting the service and image of the building surveying profession. I offer my congratulations and gratitude to HKIS-BSD for their invaluable contributions in nurturing and supporting the building professionals in Hong Kong. I have no doubt that HKIS-BSD will continue to lead the future in shaping an effective and quality built environment in Hong Kong.

May I wish the Building Surveyors Conference 2022 a great success and a rewarding exchange by all participants.

Mr CHEUNG Hau-wai, SBS
Chairman
Hong Kong Green Building Council

MESSAGE FROM THE HKIS PRESIDENT

Sr CHIU Kam-kuen

President
The Hong Kong Institute of Surveyors



On behalf of the Hong Kong Institute of Surveyors (HKIS), I would like to extend my warmest welcome to all distinguished guests, speakers and participants at the Building Surveyors Conference 2022.

It is our privilege to have the government officials, academics and industry specialists joining us today to share their experiences and insights on the theme of "Sustainability in Built Asset and Countryside Conservation". We are very honoured to have Sr CHEUNG Hai-wai, SBS, the Chairman of the Hong Kong Green Building Council, for his support as our Guest of Honour.

This year, the HKIS takes "Northern Metropolis: A New Era of Hong Kong towards Sustainability, Resilience and Growth" as the development theme of the Institute. It is because public awareness and expectation of sustainability and the coexistence between new town development and conservation have rapidly increased in recent years. Given this, the six divisions of the HKIS have been working together with their surveying expertise to provide suggestions and guidelines to the Government, the industry and the public, aiming to create a desirable living environment.

As the "doctors of buildings", building surveyors are devoted to seeking innovative ideas and implementing the latest technologies and approaches to enhance the quality of new and existing buildings and maintain the diversity of natural and cultural assets.

We are honoured to gather these renowned speakers today to share their views and recommendations regarding countryside conservation, green building and sustainable development. I believe all of you will find the conference enlightening and inspiring.

Finally, I would like to take this opportunity to express my sincere gratitude to all of the participants, guests, speakers, moderators and sponsors for their generosity and participation. My special thanks also go to the organising committee, led by Sr KWOK Pak-wai, Jeffery for their splendid work in making this conference success.

I hope you all enjoy the conference today. Thank you.

MESSAGE FROM BUILDING SURVEYING DIVISION CHAIRMAN

Sr CHEUNG Man-to, Arthur

Chairman
Building Surveying Division
The Hong Kong Institute of Surveyors



On behalf of the Building Surveying Division (BSD), it is my great pleasure to welcome you to the Building Surveyors Conference 2022.

After two years of the pandemic, we are excited to meet our old and new friends face-to-face at this conference. Today, we are delighted to have our distinguished guests, speakers, friends, and fellows from inside and outside the Building Surveying field sharing the latest industry applications and exchanging their ideas with us in person.

Surveyors always need to keep pace with time and adopt new technologies and innovative approaches to respond to the voices of society and expectations in an ever-changing built environment. Over the years, BSD has organised various activities such as conferences and visits and issued many publications to enhance our capability and surveying practices. On the other hand, the service and image of our building surveying profession can be further promoted to the public. Building Surveyors Conference is one of the signature annual events that we, as building surveyors, should not miss.

The public concern about sustainability has been increasing in recent years. Meanwhile, the HKSAR government is also determined to promote ecological conservation and green development. The expansion of the Environmental Bureau to the Environment and Ecology Bureau is an example.

With the theme of "Sustainability in Built Asset and Countryside Conservation", the conference today will explore the latest initiatives for sustainable development and how we can leverage our expertise to strike the right balance between conservation and socio-economic development.

We are very honoured to have Sr CHEUNG Hau-wai, SBS, the Chairman of the Hong Kong Green Building Council, to be our Guest of Honour to deliver the keynote speech on green building development that undoubtedly would give us new insights.

I would also like to express my gratitude to all prominent speakers devoting their valuable time to share their knowledge and experiences with us, and all the moderators and sponsors for their unfailing support of this event. Also, I would like to extend my heartfelt thanks to the Organising Committee and the Chairman of the Organising Committee, Sr KWOK Pak-wai, Jeffery, for their dedication to making this conference a great success.

Last but not least, I would like to thank you for your participation and hope you all find this conference fruitful and have shed some enlightenments for you to take back to your work. I also look forward to seeing you on other events organised by the Building Surveying Division to achieve our common goal of making a better liveable environment for our society.

MESSAGE FROM THE ORGANISING COMMITTEE CHAIRMAN

Sr KWOK Pak-wai, Jeffrey

Organising Committee Chairman
The HKIS - Building Surveyors Conference 2022



As the Chairman of the Organising Committee, I take great pleasure and honour in welcoming you all to the Building Surveyors Conference 2022 - "Sustainability in Built Asset and Countryside Conservation".

With the fast-paced development of the northern metropolis and new towns, along with the public aspiration for conservation, we always need to keep pace with the latest enhancements and strategies in 3 Main Sessions on Countryside Conservation; Green Building; Sustainable Development that would contribute to meeting the public demand.

We are privileged to have Sr CHEUNG Hau-wai, SBS, the Chairman of the Hong Kong Green Building Council, to be our Guest of Honour. Keynote speakers from government department, university and institute are invited to share their insights and case studies on countryside conservation. We are also honoured to invite the director of government departments and institute to share their strategies and policies towards sustaining a green society.

Last but not least, we have professionals from advocacy institutes and private sector to provide recommendations on various policy issues to develop a realistic and workable path on Sustainable Development. We hope to deliver all-around skills and knowledge to enlighten our participants into achieving our common goal.

Furthermore, I would like to express my sincere gratitude towards our sponsors for their tremendous support. I would also like to take this opportunity to thank all the fellow Organising Committee members for their dedication to making this event successful.

I wish you all a fruitful and rewarding experience at this Conference. Thank you.

CONFERENCE PROGRAM

Time	Programme	Speaker
0830 - 0900	Registration	
0900 - 0910	Opening Remarks	Sr CHEUNG Man-to, Arthur Chairman, Building Surveying Division, The Hong Kong Institute of Surveyors
0910 - 0925	Keynote Speech by Guest of Honour	Sr CHEUNG Hau-wai, SBS Chairman, Hong Kong Green Building Council
0925 - 0930	Group Photos	

Session 1: Countryside Conservation

0930 - 0955	Countryside Conservation & Urban-Rural Symbiosis	Prof TANG Man-bun, Stephen, BBS Head of Countryside Conservation Office, Environmental Protection Department, HKSAR
0955 - 1020	Conservation and Restoration of Natural and Cultural Assets in Hong Kong	Prof LAM Chiu-ying, SBS Chairman, The Hong Kong Countryside Foundation
1020 - 1045	Environmental Impact Assessment of Countryside Development	Prof LAM Kin-che, SBS, JP Adjunct Professor of Department of Geography and Resource Management, The Chinese University of Hong Kong
1045 - 1110	Panel Discussion	Sr LEE Hoi-tat, Nathan (Moderator) Vice-Chairman, Building Surveying Division, The Hong Kong Institute of Surveyors
1110 - 1115	Souvenir Presentation to Speakers	
1115 - 1125	Break	

Session 2: Green Building

1125 - 1150	Setting Building Standards for a Sustainable Built Environment	Ms YU Po-mei, Clarice, JP Director of Buildings, Buildings Department, HKSAR
1150 - 1215	Sustainable and Liveable City: Our Way Out	Mr TSE Cheong-wo, Edward, JP Director of Architectural Services, Architectural Services Department, HKSAR
1215 - 1240	A Down-To-Earth Project to Decarbonise Schools in Hong Kong	Ir LEUNG Chi-fung Director – Operations, Business Environment Council Limited
1240 - 1305	Panel Discussion	Sr HO Kui-yip, Vincent, MH, JP (Moderator) Past President, The Hong Kong Institute of Surveyors
1305 - 1310	Souvenir Presentation to Speakers	
1310 - 1430	Lunch Break	

Session 3: Sustainable Development

1430 - 1445	Souvenir Presentation to Sponsors	
1445 - 1510	Integrating The Green with The Gray: The Inner Deep Bay Wetland Landscape as A Nature-Based Solution for A Livable, Climate-Resilient Northern Metropolis	Dr Eric WIKRAMANAYAKE Director of Wildlife and Wetlands WWF - Hong Kong
1510 - 1535	Advancing to Net-Zero Built Asset – Swire Properties' Strategy and Vision	Mr HO Ho-yin, Patrick Deputy Head of Sustainable Development, Swire Properties Limited
1535 - 1600	The Building Sector's Journey towards Carbon Neutrality – Readiness and Strategies	Ir Dr CHAN Wing-hong, Cary, JP Executive Director, Hong Kong Green Building Council
1600 - 1625	Panel Discussion	Sr YUN Ying-kit, Kenneth (Moderator) Past Chairman, Building Surveying Division, The Hong Kong Institute of Surveyors
1625 - 1630	Souvenir Presentation to Speakers	
1630 - 1635	Closing Remarks	Sr KWOK Pak-wai, Jeffrey Organising Committee Chairman Building Surveyors Conference 2022, The Hong Kong Institute of Surveyors
1635	End of Conference	

LIST OF SPEAKERS & TOPICS

in order of presentation delivery

Prof TANG Man-bun, Stephen, BBS

Head of Countryside Conservation Office, Environmental Protection Department, HKSAR

Topic: Countryside Conservation & Urban-Rural Symbiosis

Prof LAM Chiu-ying, SBS

Chairman, The Hong Kong Countryside Foundation

Topic: Conservation and Restoration of Natural and Cultural Assets in Hong Kong

Prof LAM Kin-che, SBS, JP

Adjunct Professor of Department of Geography and Resource Management, CUHK

Topic: Environmental Impact Assessment of Countryside Development

Ms YU Po-mei, Clarice, JP

Director of Buildings, Buildings Department, HKSAR

Topic: Setting Building Standards for a Sustainable Built Environment

Mr TSE Cheong-wo, Edward, JP

Director of Architectural Services, Architectural Services Department, HKSAR

Topic: Sustainable and Liveable City: Our Way Out

Ir LEUNG Chi-fung

Director – Operations, Business Environment Council Limited

Topic: A Down-To-Earth Project to Decarbonise Schools in Hong Kong

Dr Eric WIKRAMANAYAKE

Director of Wildlife and Wetlands, WWF - Hong Kong

Topic: Integrating The Green with The Gray: The Inner Deep Bay Wetland Landscape as
A Nature-Based Solution for A Livable, Climate-Resilient Northern Metropolis

Mr HO Ho-yin, Patrick

Deputy Head of Sustainable Development, Swire Properties Limited

Topic: Advancing to Net-Zero Built Asset – Swire Properties' Strategy and Vision

Ir Dr CHAN Wing-hong, Cary, JP

Executive Director, Hong Kong Green Building Council

Topic: The Building Sector's Journey towards Carbon Neutrality – Readiness and Strategies

SPEAKERS AND PRESENTATION ABSTRACTS

Prof TANG Man-bun, Stephen, BBS

Head of Countryside Conservation Office
Environmental Protection Department, HKSAR



ABOUT THE SPEAKER

Professor Stephen Tang, BBS is an architect with over 40 years of experience in architecture, urban planning and design. He is a former Deputy Director of Architectural Services and Past President of the Hong Kong Institute of Urban Design and is committed to improving the standard of public buildings and the quality of the living environment. Prior to joining the Countryside Conservation Office, Professor Tang took a keen interest in the conservation of historic buildings and the urban environment, and was involved in a number of local architectural projects and the coordination of urban planning initiatives, including serving as Senior Design Consultant for the Hong Kong Palace Museum, Government Architect for Conserving Central and Head of the Kai Tak Office. Professor Tang graduated from the University of Hong Kong with a degree in Architecture and taught as a Visiting Professor for over 10 years, and studied at the University of California, Berkeley and Tsinghua University in Beijing. He was awarded the Bronze Bauhinia Star in 2016 and has been appointed Head of the Countryside Conservation Office of the Environmental Protection Department of the HKSAR Government since December 2020.

Abstract

Countryside Conservation & Urban-Rural Symbiosis

How to realise the vision of urban-rural symbiosis?

Following the announcement in the 2017 Policy Address, the Countryside Conservation Office (CCO) was established under the Environmental Protection Department in July 2018. As a priority, the CCO has started a series of projects to enhance countryside revitalisation in Lai Chi Wo, as well as ecological conservation in Sha Lo Tung, and will keep under review the implementation of these initiatives and their effectiveness from time to time, with the aim of extending the initiatives progressively to other remote countryside areas.

The CCO has adopted a diversified and flexible approach in supporting and promoting the conservation of rural areas through harnessing the public, community and NPOs' efforts. The presentation of "Countryside Conservation and Urban-Rural Symbiosis" will focus on the strategies of protecting and revitalizing the ecological and cultural environment and promoting the sustainable development of remote countryside.

SPEAKERS AND PRESENTATION ABSTRACTS

Prof LAM Chiu-ying, SBS

Chairman
The Hong Kong Countryside Foundation



ABOUT THE SPEAKER

Lam Chiu Ying is a meteorologist by profession, naturalist by hobbies and conservationist by practice. He was the Director of Hong Kong Observatory 2003-2009 and is the first Hong Kong person elected an Honorary Fellow of the UK Royal Meteorological Society. He is a veteran bird-watcher and a co-author of Birds of Hong Kong and South China, the "bible" of bird-watchers in the region. He is now Honorary President of the Hong Kong Bird Watching Society. His latest interest is the roadside flora of Hong Kong. He maintains an active series "One Flower a Day" on social media. His extensive nature-themed travels over several decades have prompted him to appreciate the close relationship between ecology and human societies. He was a founding member of the Hong Kong Countryside Foundation and is now Chairman. In collaboration with numerous partners, he has been actively involved in the pioneering project of the re-vitalisation of Lai Chi Wo Village in the past decade. The progress made so far has led to the government establishing an explicit policy on the conservation of the rural landscape as well as re-kindled the public's interest in the cultural and natural assets embedded in Hong Kong's countryside.

Abstract

Conservation and Restoration of Natural and Cultural Assets in Hong Kong

Remote villages in Hong Kong saw a major population exodus since the 1970s. Some of them were even deserted and eventually declined into ruins. It was driven by macro-socioeconomic factors of the time. What is the point of rural revitalization now? This has to be understood in terms of the rise of "sustainable development", an increasing realization of the harm of "urban life-style" to climate, global ecosystem and human well-being as well as the emergent appreciation that a vast amount of natural and cultural assets lies in Hong Kong's countryside. Lai Chi Wo Village will be presented as a case study, to illustrate the interplay of multiple factors which has made it the success story it is so far. But it has not been plain sailing - numerous issues were encountered during the 10-year journey. It has been a continuing learning experience for all the project partners. How they adapted to the evolving circumstances will be discussed together with the lessons learnt.

SPEAKERS AND PRESENTATION ABSTRACTS

Prof LAM Kin-che, SBS, JP

Adjunct Professor of Department of Geography and Resource Management
The Chinese University of Hong Kong



ABOUT THE SPEAKER

Professor LAM Kin Che is Adjunct Professor of The Chinese University of Hong Kong (CUHK) specializing in environmental policy and assessment, a long-time environmental advisor of the Hong Kong SAR Government and a free-lance environmental consultant of The World Bank. During his tenure at CUHK, he founded the Centre for Strategic Assessment for China and the Institute of Environment, Energy and Sustainability. Professor Lam has served in many governments advisory bodies in various capacities, including being Chair of the Advisory Council on the Environment (2002-2009) and Task Force on Biodiversity Conservation Strategy and Action Plan of Hong Kong SAR (2012-2015). He is currently member of the Advisory Council on Countryside Conservation and Chair of its Vetting Sub-committee. Professor Lam is Fellow or Honorary Fellow of The Chartered Institution of Water and Environmental Management, Hong Kong Institute of EIA, Hong Kong Institute of Acoustics and Hong Kong Institute of Qualified Environmental Professionals. For his contributions to environmental protection and environmental impact assessment, he was awarded the Silver Bauhinia Star by the Hong Kong SAR Government (2006) and the Regional Award from the International Association of Impact Assessment (2016), being the first recipient of such award in the Greater China region.

Abstract

Environmental Impact Assessment of Countryside Development

The presentation begins by differentiating different types of environmental impact assessment (EIA) for infrastructure projects and sustainable development of the countryside. Positioned at different locations of the decision-making hierarchy, these assessments serve different goals and call for different techniques, processes and practices. The type, purpose, process and statutory framework of the EIA in Hong Kong will be examined in the above context with the aim of identifying potential shortfalls in assuring sustainability in countryside development. The challenges of undertaking environmental assessment for countryside development and conservation will then be elucidated. With respect to recent controversies concerning EIAs in the development of Hong Kong's countryside, the presentation will highlight controversial issues, map different aspirations of key stakeholders, analyze the root causes of conflicts and propose possible solutions.

SPEAKERS AND PRESENTATION ABSTRACTS

Ms YU Po-mei, Clarice, JP

Director of Buildings
Buildings Department, HKSAR



ABOUT THE SPEAKER

Ms YU has been working in the government for over 20 years, mainly in the administration of the Buildings Ordinance on the control of new private building developments and existing private buildings. Prior to joining the government in 1996, Ms YU has worked in the private sector as an architect.

Abstract

Setting Building Standards for a Sustainable Built Environment?

The Buildings Department (BD) has been working closely with building stakeholders to introduce a series of measures to improve the environmental performance of new buildings and foster a quality and sustainable built environment.

Some of the measures have been crystallized. For example, BD promulgated in this February the revised PNAP APP-156 to reduce the Residential Thermal Transfer Values with an aim to improving the energy efficiency of residential buildings. The new standards will come into effect on 31 December 2022. Also, to further promote the adoption of MiC, JPN 8 was published in August permitting more GFA and SC concession and minor relaxation of building height restriction under the building, planning and lands control regimes.

There are more proposals in the pipeline. One of which is to revise the GFA concession mechanism by requiring new buildings under this mechanism to attain a specific rating under the BEAM Plus New Building Assessment Scheme or, if a lower rating is targeted, comply with certain "specific standards" that are beneficial to the environment or the health and well-being of the tenants.

The promulgation of PNAP APP-164 last year enhance the standards of sanitation under the Buildings Ordinance. The next step is to revamp the Building (Standards of Sanitary Fitments, Plumbing, Drainage Works and Latrines) Regulations by transforming the prescriptive requirements to performance-based standards.

The recycling rate in Hong Kong is flagging. To facilitate reuse and recycle, BD is prepared to accept alternative design of refuse storage rooms in new residential buildings with centralised recycling corners for sorting and storage of reusable or recyclable materials.

SPEAKERS AND PRESENTATION ABSTRACTS

Mr TSE Cheong-wo, Edward, JP

Director of Architectural Services
Architectural Services Department, HKSAR



ABOUT THE SPEAKER

Mr Edward Tse is currently the Director of the Architectural Services Department (ArchSD). Born and educated in Hong Kong, Mr Tse graduated from the Faculty of Architecture of The University of Hong Kong in 1986. He had worked in private practices and become a member of The Hong Kong Institute of Architects, Authorized Person (List of Architects) and Registered Architect before he joined the Hong Kong Government as an Architect in 1993.

In the past 29 years of his service in the Government, Mr Tse also served in the then Environment, Transport and Works Bureau and the Development Bureau from mid-2004 to end of 2009, during which he oversaw a number of infrastructural and heritage initiatives and projects. During his tenure in the ArchSD, Mr Tse worked on a wide spectrum of projects covering the development and construction of leisure, recreational, sports, cultural, environmental and health care facilities. The recent memorable ones are the Expansion and Renovation of the Hong Kong Museum of Art, East Kowloon Cultural Centre, New Territories East Cultural Centre, Redevelopment of Yuen Long Stadium, various Harbourfront Enhancement projects.

As the Director of ArchSD, Mr Tse now oversees a vast portfolio of new projects of different nature and the upkeeping of government facilities under the purview of the Department. The latest projects include the 10-year Hospital Development Plan, law court buildings, projects under the 'single site, multiple use' initiative at Tseung Kwan O town centre and the Anderson Road Quarry, mixed use development projects with different automated car parking systems and so on. He also actively promotes the adoption of Modular Integrated Construction (MiC) and Multi-trade Integrated Mechanical, Electrical and Plumbing (MIMEP) techniques in various building types like offices, schools and government quarters to improve buildability, safety and speed of construction.

Mr Tse continues to steer his project teams in ArchSD to make improvement on public works through the application of new technologies and innovative solutions to provide a better living environment for public enjoyment in Hong Kong.

Abstract

Sustainable and Liveable City: Our Way Out

Global climate change and the increasing carbon emissions over the world had been an important signal which needs our attentions to eliminate their adverse impacts to our community. In the light of "Hong Kong's Climate Action Plan 2050" issued in October 2021 and the 2021 Policy Address, the HKSAR Government aims to take proactive strategies and measures to reduce carbon emissions in order to achieve carbon neutrality by 2050.

Architectural Services Department (ArchSD) is fully committed to deliver our multi-disciplinary professional services from facility development to facility upkeep by incorporating sustainable features aiming to help creating a sustainable and liveable city. Through implementing the approach – "We Commit, We Lead, We Communicate and We Innovate", ArchSD targets to further strengthen our role in promoting sustainable elements in our project cycles by continuously engaging more innovative construction measures such as MiC, Design for Manufacture and Assembly (DfMA) and the user-friendly design elements in our projects.

Concurrently, ArchSD always commits and prioritizes to achieve social responsibility by providing a liveable and pleasant environment in our projects for public enjoyment. We believe that the whole society would be benefited.

Cultivating and maintaining a good and thorough communications with our counterparts in the construction industry is also crucial and important for promoting the measures. Let's work together to pave our green future and collaboratively build our sustainable and liveable city.

SPEAKERS AND PRESENTATION ABSTRACTS

Ir LEUNG Chi-fung

Director – Operations
Business Environment Council Limited



ABOUT THE SPEAKER

Ir C F Leung is currently the Director – Operations of Business Environment Council Limited. CF has been spearheading the development of sustainable buildings by leading and providing advisory services on a large number of green building initiatives and delivering training to building professionals. He also works on waste related projects by providing waste management and audit services for building sector and community events. Besides, he also involves in formulating and executing of several renowned environmental award programmes, including Hong Kong Awards for Environmental Excellence, HSBC Living Business Awards and BOCHK Corporate Environmental Leadership Awards.

CF is an environmental engineer with over 20 years of experience. He is the Immediate Past Chairman of the Chartered Institution of Water and Environmental Management Hong Kong Branch. Besides, he is also a Registered Professional Engineer, a Registered Energy Assessor, a Certified Carbon Auditor Professional, a Chartered Engineer, a Chartered Environmentalist, a BEAM Professional, a Green Building Faculty Member and a WELL AP.

Abstract

A Down-To-Earth Project to Decarbonise Schools in Hong Kong

Funded by The Hong Kong Jockey Club Charities Trust and supported by the Hong Kong Government, the "BEAM Plus in Schools Project" (the "Project") was officially launched in January 2020 with the aims to reduce the carbon emissions of the primary and secondary schools in Hong Kong and to educate the next generation the importance of carbon reduction, green building knowledges and climate resilience.

This 42-month-long Project has recruited 125 local primary and secondary schools. Business Environment Council ("BEC"), as the lead organiser of the Project, together with BEAM Society Limited ("BSL") and Hong Kong Green Building Council ("HKGBC") (the "Co-organisers") provide one-stop services to schools committed to reducing their carbon emissions.

BEC evaluates the carbon emissions from schools, recommends mitigation measures and arranges contractors for the installation. HKGBC develops training materials and provides education workshops to both teachers and students while BSL tailor-makes a brand-new BEAM Plus rating tool for existing schools to assess their environmental performance.

The speaker will explain the Project details and share the success story of how NGOs can collaborate together in providing both hardware and software support to the schools' sector with the ultimate goal to achieve carbon neutrality by 2050.

SPEAKERS AND PRESENTATION ABSTRACTS

Dr Eric WIKRAMANAYAKE

Director of Wildlife and Wetlands
WWF - Hong Kong



ABOUT THE SPEAKER

Eric Wikramanayake is Director, Wildlife and Wetlands at WWF Hong Kong, where he also leads the WWF network's Asian Flyways Initiative and the Asia-Pacific Counter-Illegal Wildlife Trade Hub. Before joining WWF Hong Kong, he was a Senior Conservation Scientist with the Conservation Science Program, WWF US, providing technical assistance to WWF's Asia ecoregion and species programs, including leading landscape-scale conservation efforts in Asia. He has over 30 years of conservation experience in many countries in Asia, including Bhutan, Nepal, Cambodia, India, Indonesia, Laos, Vietnam, Myanmar, Malaysia, Sri Lanka, and has also conducted several pan-tropical and Asia-regional analyses for conservation of ecoregions and species. Eric received his Ph. D. from University of California, Davis in 1988, and was a Post-doctoral Fellow, Visiting Scientist, and Research Associate with the Smithsonian Institute.

Abstract

Integrating The Green with The Gray: The Inner Deep Bay Wetland Landscape as A Nature-Based Solution for A Livable, Climate-Resilient Northern Metropolis

In 2021 the Chief Executive introduced an ambitious plan to create the Northern Metropolis in the Northern New Territories to ease Hong Kong's housing crisis and position Hong Kong as a regional economic and technological powerhouse, alongside 2000 ha of wetlands that will be conserved in the Inner Deep Bay to conserve important ecological communities and continue to attract hundreds of thousands of migratory waterbirds to the Mai Po Inner Deep Bay Ramsar site.

Coastal wetlands are also effective buffers against the forces of climate change—especially strong storm and tidal surges and sea level rise—that will pose significant threats to Hong Kong's coastal communities and infrastructure, including the Northern Metropolis. Thus, the wetland landscape can be a nature-based solution to mitigate and build resilience against the ravages of strong weather events that will become manifested because of climate change and offer climate security to one of Hong Kong's most ambitious development plans. Thus, conservationists, developers, investors, and residents of the Northern Metropolis should welcome the creation of the wetland landscape.

WWF Hong Kong has over 40 years of conservation and managing wetlands in Hong Kong and Mainland China. Drawing on this experience, WWF has prepared a suite of recommendations towards integrating the ecosystem services and ecological values from this 'Green Infrastructure' into the development plans of the 'Gray Infrastructure' of the Northern Metropolis with a view to making this city a paradigm for sustainable, 'nature-positive' city designs for the future.

SPEAKERS AND PRESENTATION ABSTRACTS

Mr HO Ho-yin, Patrick

Deputy Head of Sustainable Development
Swire Properties Limited



ABOUT THE SPEAKER

Patrick Ho, Swire Properties' Deputy Head, Sustainable Development, is responsible for formulating and executing a corporate sustainability strategy for the Company's global operations across Hong Kong, Chinese Mainland and U.S.A. portfolios. Through engaging stakeholders, setting targets and developing action plans, he leads a team to manage the full spectrum of the Company's environmental, social and economic impact and to integrate Environmental, Social, and Governance (ESG) considerations into every facet of Swire Properties' business.

In his role, Patrick works with senior leaders to establish the 1.5°C Science-Based Targets (SBT) to align with the pathway of limiting global warming to 1.5°C, and to reach net-zero emissions by 2050. He also worked on developing the Green Finance Framework for Swire Properties' first US\$500 million green bond and HK\$500 million sustainability-linked loan, responding to emerging areas of sustainability such as Climate-related Financial Disclosures aligned with Task Force on Climate-Related Financial Disclosures (TCFD) embodied carbon emissions analysis for new development projects, and a strategic assessment of the climate-related physical and transition risks and opportunities under various future climate scenarios.

Patrick also led Swire Properties maintains its top listings on several global and regional sustainability indices and ratings, including the Dow Jones Sustainability World Index (ranked 7th globally, 1st in Asia in 2021), Global Real Estate Sustainability Benchmark (GRESB, Global Sector Leader in Mixed Use Developments for 5th consecutive year), MSCI ESG Ratings (highest "AAA" for 4th consecutive year) and Hang Seng Corporate Sustainability Index (No. 1 in Hong Kong for 4th consecutive year).

Patrick is a Chartered Environmentalist, a Chartered Member of the Chartered Institution of Water and Environmental Management (CIWEM) and a Certified Carbon Auditor Professional. He is a Member of the Corporate Advisory Board of World Green Building Council, a Member of Science Based Targets initiative (SBTi) Expert Advisory Group for Building Sector, and a Steering Committee Member of Climate Change Business Forum of the Business Environment Council.

Abstract

Advancing to Net-Zero Built Asset – Swire Properties' Strategy and Vision

- Swire Properties' Sustainable Development (SD) 2030 Strategy
- Green Building Certifications and Performance
- Science-based Decarbonisation Targets and Net-Zero Vision for Whole Building Lifecycle
 - Scope 1 and 2 Carbon Emissions – Energy Management Strategy, Technological Innovations and Renewable Energy Adoption
 - Upstream Scope 3 Emissions – Embodied Carbon Management of New Buildings
 - Downstream Scope 3 Emissions – Management of Emissions from Tenants via Engagement and Collaborations
- Green Financing Strategy
- Communication, Engagement and Partnerships

SPEAKERS AND PRESENTATION ABSTRACTS

Ir Dr CHAN Wing-hong, Cary, JP

Executive Director
Hong Kong Green Building Council



ABOUT THE SPEAKER

Ir Dr Cary Chan, JP is a professional engineer and is currently the Executive Director of Hong Kong Green Building Council with the vision of driving the green building agenda for Hong Kong.

Cary is regarded as an expert on building energy efficiency by the industry. Cary has carried out a lot of research relating to the enhancement of building energy efficiency. Up to now, a number of his work have won international awards.

Over the years, Cary was active members of over 10 advisory councils and committees of the Government of HKSAR, and he was appointed Justice of the Peace (JP) by the government in 2017 with his immense contribution to Hong Kong community. Cary was awarded Honorary Doctorate by University College of Estate Management (UK) in December 2019 due to his outstanding contributions to the industry on sustainability.

Cary has been playing a leadership role in sustainable buildings within Hong Kong and abroad. He played a key role in establishing Hong Kong's Green building assessment tool back in 1995. In 2019, he has put "Advancing Net Zero carbon emission" as one of HKGBC's main focuses. His strategy is well recognised and welcome by the local industry and the World Green Building Council. He has been appointed as WorldGBC Asia Pacific Network Chair since 1 July 2021.

Abstract

The Building Sector's Journey towards Carbon Neutrality – Readiness and Strategies

Countries and corporates are crafting plans and strategies on advancing net zero by 2050. Some of the questions they would ask are how ready they are, what are the gaps and what should be their priorities. The Asia Pacific network (APN) of the World Green Building Council has conducted workshops with stakeholders of a few countries within the APN regarding those questions. The presentation will discuss on 1. the key findings of those workshops; 2. the readiness framework that the APN is developing and 3. Hong Kong Green Building Council's strategies to facilitate the building sector in advancing net zero.

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(Pai Heung Primary School, EdB Contract TCMD 022)

Green Contractor Award-Term Contract 2021
(ArchSD Contract TCC 514)

Nomination of QBA 2022

- Wan Chai Community Green Station
- Woosung Street Temporary Cooked Food Hawker Bazaar



Wan Chai Community Green Station (Completed in 2020)



Woosung Street Temporary Cooked Food Hawker Bazaar
(Completed in 2021)

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MiC Project



Temp. Mortuary Facilities at Kowloon Public Mortuary, Hung Hom (Completed in 2021)



New Shelter at Kai Tak Runway Pier
(Completed in 2018)

DfMA Project



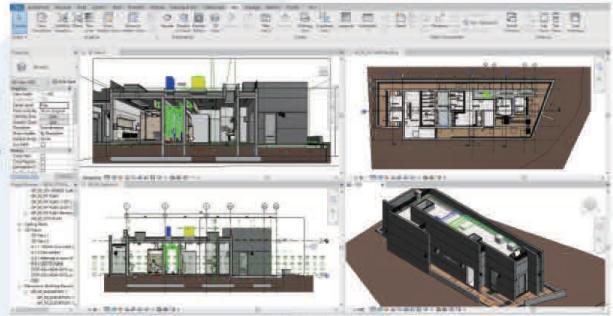
Hong Kong Cultural Centre
LCSD Self-Service Library Unit Pilot Scheme
(Completed in 2019)



Wu Hong Clinic (Completed in 2022)



BIM Project



Conversion of An Aqua Privy
at San Wai Village
(Completed in 2020)



Austin Road Subway
Beautification Works Phase 2
(Completed in 2021)



Lung Mei Bathhouse (Completed in 2021)



Portland Street Rest Garden (Completed in 2021)



Yi Pei Square (Completed in 2021)



Hoi Ha Marine Park (Completed in 2020)



Phase 2 Development
of Oil Street Art Space
(Completed in 2021)



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Photo of Lift Lobby



Comprehensive Consultancy Services for Proposed Alteration, Reinstatement and Renovation Works for URA Rehousing Block at 12 Soy Street

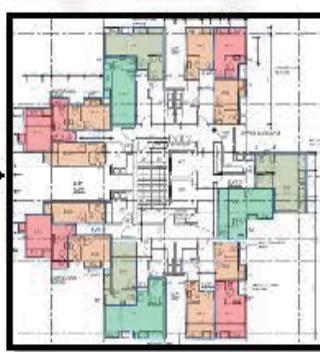
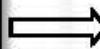
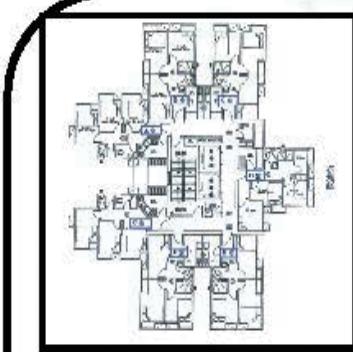
Building Surveyors Award 2021 – Grand Award
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Photo of Building Elevation



Photo of Main Entrance



Flat A-G (7/F-12F) 42 Nos.

Flat A-G (7/F-12F)	Units
1-Person Unit w/ individual bathroom	72 Nos.
2-Person Unit w/ individual bathroom	36 Nos.
Total	108 Nos.

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Typical Photos of Small Unit



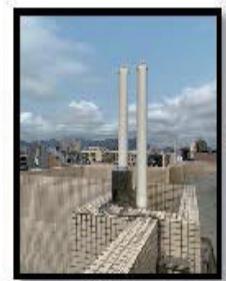
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2



3



6



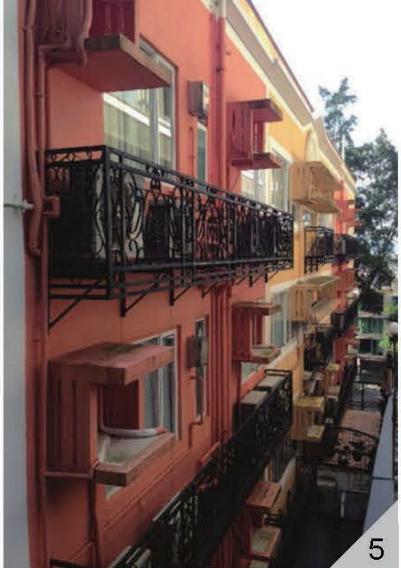
7



4

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Positive ions will be surrounded by water molecules in the air

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Harmful substances become water

Foul gas in the device is purified indirectly



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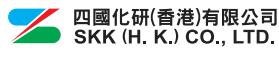
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ABOUT ORGANISING COMMITTEE



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ABOUT THE HONG KONG INSTITUTE OF SURVEYORS

Established in 1984, The Hong Kong Institute of Surveyors (HKIS) is the only surveying professional body incorporated by ordinance in Hong Kong. As of 26 September 2022, the number of members reached 10,774, of which 7,609 were corporate members, 62 were associate members and 3,103 were probationers and students.

HKIS work includes setting standards for professional services and performance, establishing codes of ethics, determining requirements for admission as professional surveyors, and encouraging members to upgrade skills through continuing professional development.

The Institute has an important consultative role in government policy making and on issues affecting the profession. We have advised the government on issues such as building safety and unauthorized building works, problems of property management, town planning and development strategies, construction quality and housing problems. We have also issued guidance notes on floor area measurement, real estates valuation and land boundary survey, etc.

ABOUT BUILDING SURVEYING DIVISION

Established in 1985, Building Surveying Division (BSD) is one of six divisions of the HKIS. The total number of professional building surveyors as at Oct 2022 has increased to 1,595 from 119 since the establishment. In the past 36 years, the Division organised many conferences and visits, and issued a number of publications to promote the service and image of building surveying profession.

Professional building surveyors are versatile in the built environment and provide professional services in all stages of the development process from inception to completion, maintenance and repair and housing management. Professional building surveyors provide tailor-made services to meet clients' need in the development process and property in use.

Professional building surveyors are qualified by professional assessments with prescribed practical training. We uphold the stringent professional standards of HKIS, which require a high level of service and efficiency as well as compliance with a strict code of professional conduct.

