WASTELINE : SUMMER 2016

The Newsletter of the Hong Kong Waste Management Association
Web Site: www.hongkongwma.org.hk

Message from the Editor: This Newsletter requires your participation. We would like to hear your experiences in implementing good waste management practices in Hong Kong or overseas. If you have an interesting story to tell, please write to me at barry.adcock@suez.com

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HKWMA 23rd Annual General Meeting and Cocktail Reception

The Association held its 23rd Annual General Meeting (AGM) in the Hong Kong Club on the evening of 13th September 2016 at which a full house of members and their guests was present. Registration and the reception commenced at 18:00 hours.



Chairman Mr. Victor Li starting the 23rd AGM

At 19:00 hours the Chairman of the Association, Mr. Victor Li, introduced the formal part of the evening, the Annual General Meeting. The minutes of the previous year's AGM were approved by a show of hands.



Members Registering their Votes

The Chairman then moved on to his report, illustrated by a PowerPoint presentation, and highlighted the fact that in the last year the membership of the Association had grown by over 33% and that the financial affairs of the Association had resulted in a 45% surplus.

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The Chairman's Report

Highlights of the year included the Two Coast Forum in Hangzhou from 30th October to 1st November 2015 which had been very well organized and impressive. The next Two Coast Forum is to be held in Macau on 4th to 5th November 2016. On 20th April 2016, the Association, in cooperation with Hong Kong PolyU and Shenzhen University, held an international forum on turning waste into construction materials at the Hong Kong Polytechnic. The very successful international forum was followed by a Spring Reception in the Hong Kong Club.



ExCo Members Enjoying the Chairman's Report

As far as government liaison was concerned the Association had made five submissions to government offering industry views on government proposals. The Association's submissions had been posted on the website for members to read.

Site visits included those to a waste oil treatment plant, to landfills in Shenzhen and most recently, on 3rd September, to the Airport Authority to discuss waste classification and ideas for sustainable use of materials. Another visit to T-Park (formerly known as the STF) had been held in the previous week and another visit would be arranged for students shortly. Effective liaison had continued with professional institutions both in Hong Kong and internationally.

The Chairman thanked the ExCo and their "400 years of waste management experience" and the Young Members Chapter for all their work in the past year and noted moves to exchange experience from the members of ExCo for new ideas from the YMC. The year had seen a major effort in founding student chapters of the Association at Hong Kong University, Hong Kong Polytechnic University and Hong Kong University of Science and Technology at which lectures were given by experienced ExCo members to encourage graduating students to build their careers in waste management. The students were the future of our industry.

The Chairman's Report was approved by a show of hands. Similarly the accounts were approved by a show of hands as was the reappointment of Fanny P. Lai & Co. as the Association's Auditors for the coming session. Three existing members of the Executive Committee had to retire by the terms of the constitution; Dr. Kaimin Shih, Mr. Lawrence Lau and Mr. Karel Haubourdin. Three new members were elected to replace the three retiring members; Dr. Kaimin Shih, Mr. Antoine Grange and Ms. Kitty Lee. The resignations and elections were unanimously approved by a show of hands.

Following the formal conclusion of the AGM, the Chairman distributed membership certificates for the coming session to the Association's Corporate Members.

The Chairman, Mr. Victor Li, then introduced the Guest of Honour for the evening, Mr. Jimmy Kwok, who was the Chairman of the Advisory Committee of the Recycling Fund set up by the Government.

Mr. Kwok started his address by noting that there were two members of the Advisory Committee in the audience, Professor Irene Lo and Professor Daniel Cheng, and that the first Project Manager, Mr. Kenny Wong, was also present.



Mr. Jimmy Kwok Telling Members about the Recycling Fund

Mr. Kwok continued his address by outlining the challenges facing the recycling industry : price volatility (especially of oil), high costs for high-tech investments, high operation and logistics costs, high treatment costs due to insufficient source separation of recyclable materials, low demand for recycled products, high land costs and scarcity of land for recycling operations. As a result of these challenges, most Hong Kong recycling operations were small size and low-tech which made the challenges even tougher. The efforts to promote the sustainable development of the recycling industry were being directed into three channels : 1) improving the industry's standards, 2) financial support and 3) policy support. Industry standards were to be improved by, a) improving the safety of operations and the training of people working in the industry and, b) introducing accreditation and registration of companies. Financial support would be provided in the way of land and infrastructure and also by funding. Policy support would be provided by increasing the regulation of the industry by requiring source separation of recyclables, introducing producer responsibility schemes and by charging for the disposal of municipal solid waste.

The Recycling Fund had been introduced in the Chief Executive's 2014 Policy Address : HK$1 billion was promised to finance the industry. LEGCO had approved the launch of the Recycling Fund, both in the Environmental Affairs Panel and in the Finance Committee, and the recycling fund was launched in October 2015. The main objectives of the Fund had been defined as increasing the quantity and quality of recyclables to reduce landfilling, to promote markets for recycled products and to improve the skills, capacity, capability and efficiency of the local industry. The Fund was split into two parts : the Enterprise Support Progamme (ESP) and the Industry Support Programme (ISP).

The ESP was open to Hong Kong companies with one year's relevant experience and the Government would give matching funding of up to 50% of the funding raised by the company. The maximum project period was one year and the maximum funding was HK$150,000 per application although three applications could be made at once. The maximum cumulative funding for one company was HK$5 million.

The scope of support under the ESP would include the promotion of source separation, the enhancement of waste collection,the marketing of recyclables, upgrading the quality of the recycled materials, commercialization and upgrading the operation by upgrading existing equipment and introducing

new equipment.

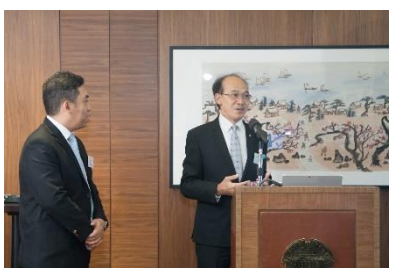
The ESP applicants had to show in their applications that recyclables would be diverted from landfill, that the operation was self-sustainable and that they had a permitted operation site and all necessary licences in place.

The Industry Support Programme (ISP) was open to non-profit organizations registered in the Hong Kong SAR and the Government would provide 100% funding to a maximum of HK$15 million.

For the Industrial Support Programme, the scope of the support would include upgrading safety and health at work, employee training, enhancement of standards, promotion of recycling technology including inviting technologies from overseas, promoting seminars, workshops and training and organizing study missions.

The present status of the scheme was that 122 applications had been processed of which 44 had been approved to a total value of HK$15 million. Of the 44 approved projects, 15 were for ESPs, 24 for small scale projects and 5 for others. The main materials approved for recycling were plastics and polyfoam. Mr. Kwok said that other details of the Recycling Fund could be found on the website: www.recyclingfund.hk.

Mr. Kwok ended his talk by thanking EPD and HKPC for their cooperation in launching the scheme. The talk was followed by a lively question and answer session.



Mr. Kwok Answering Members' Questions

The first question came from Mr. Alexi Bhanja of SMEC who noted that since 2014 the Fund had managed to disburse only HK$50 million of the HK$1 billion allocated to it by Government. He asked what was holding things up.

Mr. Kwok said that the scheme was new to everyone and therefore it was difficult to get it started but that now it was rolling he expected things to improve, especially as regards the industry support programme. In fact this slow start had been noticed and the Advisory Committee was having an internal brainstorming dinner in two weeks' time to try and table some more ideas for speeding things up.

The next question came from Ms. Suzanne Cheung of Friends of the Earth. She noted that the main aim of the scheme was the diversion of waste from landfills and asked whether shared economy ideas could qualify for the scheme.

Mr. Kwok answered that there was no reason why such ideas should not qualify for assistance from the scheme if waste sent to landfill was reduced.

The final question came from Mr. Harold Insley of AECOM who noted that from his experience of helping applicants fill in forms for the Restored Landfills Revitalization Funding Scheme and similarly for the community green stations and the glass recycling initiatives, why was it that all government application forms for environmental initiatives were so very long and difficult to fill in? Could the application for assistance from the Recycling Fund be made more simple?

Mr. Kwok answered that they were very keen to try and help applicants apply. Mr. Kwok's answer was supplemented by Mr. H.M.Wong of EPD who reminded the audience that the previous forms referred to by Mr. Insley had indeed been prepared by Government but that the forms for the Recycling Fund had been prepared by HKPC and were therefore simpler than the other forms.

The Chairman Mr. Victor Li thanked Mr. Kwok for his address and for answering members' questions and in appreciation presented him with a 1 tonne Carbon Saving Certificate.



The Chairman presenting Mr. Kwok with his certificate



The Chairman and ExCo Members Thanking the Young Members

Reported by Barry Adcock

Chairperson's Message



Dear Members,

The Hong Kong Waste Management Association has enjoyed a very fruitful year. A great compliment goes to the dedicated immediate past chairman Kenny Wong, as well as the seamless cooperation between our committed executive committee members and the energetic members from the YMC; HKWMA has been well positioned to face another era.

Looking ahead, the waste management development of Hong Kong is having a number of unique opportunities and challenges. The quest to a more efficient waste management approach has become imminent and pressing, and yet we are seeing several ways out through certain infrastructure planning. Relevant technologies and management experiences from overseas and local practitioners have been advancing. We are having more exposure and fostering closer partnership with our regional stakeholders with whom we will be able to exchange experiences and knowhow on this subject. We have all the reasons to blossom.

Crossing the time zone, you might be aware that the new Circular Economy package is currently being discussed within the European Commission. Circular economy in EU is no longer just a buzz word; it calls for binding targets of resource recovery, using the incinerators for energy recovery from

non-recyclables, and limiting the use of landfill for wastes that have no better treatment option. This will surely create another picture in the next decade. Looking through the eyes of the potential investors in EU, one can tell their next directions are at resource recovery, investments in collection systems and treatment plant, especially for organics. Would that shed some lights for us and our counterparts in Asia Pacific to ponder the next move? Nevertheless, the HK$1 billion recycling fund from the HKSAR government does share a similar favor within this Circular Economy.

As a learned society consisting of waste management professionals of different expertise, HKWMA should maintain our stand, to express our views on what's right and what's wrong despite many voices are treating politics as a priority. We are to continue :

- *Facilitating and contributing to waste management development in Hong Kong;*
- *Organizing & participating in major conferences, symposiums, seminars etc. with regional and local stakeholders;*
- *Voicing out the concerns via our well established professional platform;*
- *Sustaining our knowledge sharing practice through professional courses, technical visits, etc.;*
- *Expanding our membership base; and*
- *Last but not least, reaching out for student members with potential job shadowing opportunities and attracting more young talents to join this sustainable industry.*

Waste Management in Hong Kong is "NO JOKE"; we are on a serious mission. With your continuous support and contribution, I pledge and look forward to harnessing our opportunities and bringing positive impact within this context.

From our Chairman, Victor Li

International Forum on Turning Waste into Sustainable Construction Resources

In most big cities, including Hong Kong and Shenzhen, huge quantities of construction and demolition (C&D) wastes and waste glass are produced every day representing a large fraction of the total solid waste stream. Also, increasing quantities of combustion residues including incineration, coal and steel ashes are generated. The disposal of these wastes has become a severe social and environmental problem in many parts of the world. The traditional means of disposing of these wastes on land or in landfills are not sustainable as government sources indicate that there are acute shortages of both public filling area (reclamation sites) and landfilling space. The possibility of recycling these wastes is thus of prime importance.

On 20th April 2016, the International Forum on Turning Waste into Sustainable Construction Resources was jointly organized by the Hong Kong Waste Management Association (HKWMA), The Hong Kong Polytechnic University – Dept. of Civil & Environmental Engineering and Shenzhen University – College of Civil Engineering. The forum timely echoed the imminent and practical need for sustainable waste management aspects in Hong Kong, addressing the huge quantities of construction and demolition (C&D) wastes, waste glass and combustion residues including incineration, coal and steel ashes to be anticipated from the IWMF in Hong Kong.

This International Forum brought together experts from Europe, UK, US, China, Taiwan and Hong Kong to share their experiences in turning wastes to sustainable construction resources and how the possible environmental concerns of recycling these wastes can be addressed. Over 200 guests attended the forum.



HKWMA Chairman, Victor Li, welcoming delegates to the Forum

During the forum very fruitful innovation exchanges took place between different parties such as international organizations and experts, sanitation authorities, sanitation research centres, design institutes and government departments.



The Secretary for the Environment, Mr. K.S.Wong (centre), with the Forum organisers and speakers

In the opening ceremony, Mr. K.S. Wong, Secretary for the Environment of the Hong Kong SAR, presented a keynote speech to report the overall progress of solid waste management in Hong Kong and strategic planning for both short and long term development in Hong Kong.



Mr. K.S.Wong giving the keynote address

After Mr. Wong's keynote speech Prof. Jos Brouwers, of the Eindhoven University of Technology, The Netherlands and Prof. Christopher Cheeseman, of Imperial College London, UK, presented "The Use of industrial By-Product and C&D Waste in Building Materials" and "Developing Combustion Residues Processing in a Circular Economy" respectively in session 1. The presentations addressed a number of municipal and industrial by-products, such as waste glass, MSWI ashes, biomass ashes and C&D waste, and their usage potential in building materials. Prof. Cheeseman also presented novel applications that are being developed for both bottom ash and APC residues.



Prof. Brouwers giving his presentation

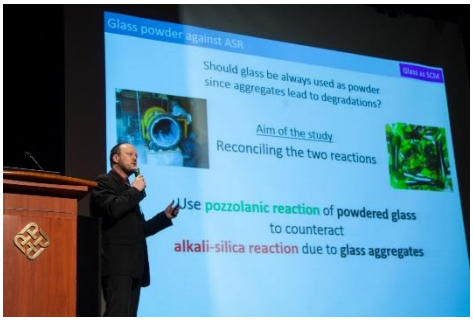


Prof. Chris Cheeseman touching on Hong Kong's landfills during his presentation



Morning Q&A Panel moderated by Nigel Mattravers

During session 2 papers on "Recycled glass in Civil Engineering Applications: A High Added Value Material" and "Recycling of Steel Slag for Construction Materials" were presented by Prof. Martin Cyr, Université de Toulouse, Laboratoire Matériaux et Durabilité des Constructions (LMDC), France and Prof. Pei-Yu Yan, Department of Civil Engineering , Tsinghua University, PRC respectively. The presentations included information about the production of lightweight aggregate, ceramics and geopolymers. The issues associated with each of those potential reuse options were discussed.



Prof. Martin Cyr presenting his paper



Prof. P.Y. Yan giving his presentation

In sessions 3 and 4, Prof. Chao-Lung Hwang, Department of Civil and Construction Engineering, National Taiwan University of Science and Technology, Taiwan shared "The Taiwan experience in the application of waste material in construction activities" and Prof. Benny Chow of the Hong Kong Green Building Council also presented "HKGBC Green Product Accreditation and Standards (HK G-PASS)".



Prof. C.L. Hwang holding the stage



Prof. Benny Chow presenting his paper

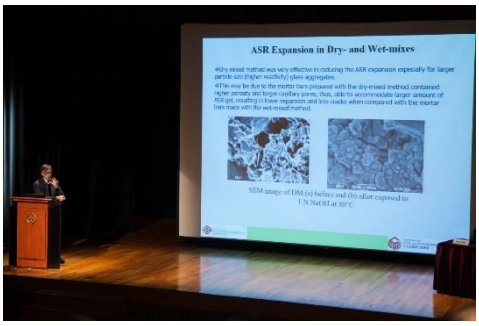
Last but not least, Dr. Hans A. Van del Sloot, Prof. David S. Kosson and Prof. C.S.Poon shared all aspects of Environment Assessment Framework as practised in Europe, the United States and Hong Kong.



Dr. Hans van der Sloot looking to the future



Prof. David Kosson presenting his paper

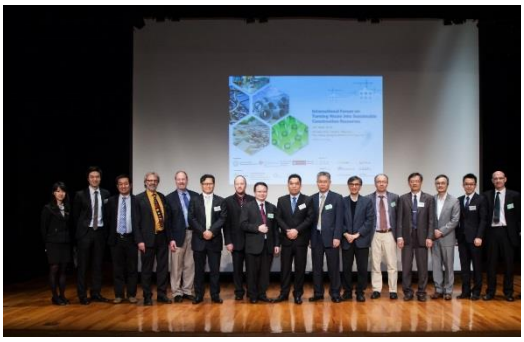


Prof. C.S.Poon in full flow

The overall impression of the conference was that it was well organized in an excellent conference venue. The Forum ended with a detailed discussion between the audience, the speakers and panelists on all aspects of Construction and Demolition (C&D) Waste Management.



Afternoon Q&A Panel moderated by Frank Wan



Forum organisers and speakers

Article contributed by Jude Chow

HKWMA Spring Reception
20 April 2016

Following the very successful forum on turning waste into construction materials held at the Polytechnic University during the day, the Association invited a full turnout of over 120 members and guests to the Hong Kong Club in the evening for the annual Spring Reception of the Association.



Members and Guests Enjoying the Reception

The Association was very privileged to welcome the Permanent Secretary of the Development Bureau, Ir. C K Hon, to address the members and guests.



The Guest of Honour, Ir.C.K.Hon, (4th right) with Present and Past Chairmen of HKWMA and other Senior Member

Ir. Hon said he would concentrate in his address on following up the day's forum by outlining the Government's initiatives on turning waste into construction materials. The problem with construction and demolition waste in Hong Kong was exacerbated about ten years previously when reclamation was essentially stopped, particularly in the area of Victoria Harbour. 20 million tonnes of C&D waste was produced in Hong Kong every year. After diverting some of the materials for local use, there was still ten million tonnes a year left over. The last things the Government wanted to do was put that in landfills so they appealed to the Mainland Government for a suitable disposal sit and the they allocated the Tai Shan Reclamation on the coast of Guangdong, west of Macau. Since 2007,86 million tonnes of Hong Kong C & D waste had been moved there and had reclaimed 50 Ha from the sea. The experience of this transfer showed that the waste should have been sorted and suitable fractions recycled to reduce the needs to export the waste. In 2015, 22 million tonnes had been produced of which 7% was disposed of at landfills and most of the rest was sent to the Tai Shan Reclamation.



Ir. C.K.Hon addressing a Packed House

It was essential that all parties in the construction process helped to reduce the quantities of C&D waste produced : proponents and designers needed to minimize waste at the design stage and they needed to prepare a waste management plan for their designs in the same way that contractors do once construction begins. These plans would be coordinated centrally to divert materials to projects which required them. A trip tickets system would be used to prevent illegal tipping.

Since 2011, the Government had been pursuing green procurement in association with the Environmental Bureau. Examples included the use of eco-glass pavers in public works projects which used up 2,400 tonnes per year of glass; using glass cullet and mortar to reduce the disposal of glass at landfills and specifying that 15% of reclaimed asphalt be incorporated in new asphalt used for maintenance surfacing. The Hong Kong Housing Authority was using concrete with recycled materials for precast facades for public housing blocks. To save energy, more emphasis was being placed on the green design of buildings to introduce natural light and ventilation.



Ir. Hon Giving his Address

To conclude his talk, Ir. Hon emphasized that the Government couldn't sort out sustainable waste management on its own: it needed the rest of the waste management industry to contribute as well.



Chairman Victor Li Presenting Ir. Hon with a 1 tonne Carbon Certificate as a Souvenir

Following the end of Ir. Hon's address, the members and guests thanked him with a round of applause and the networking session then continued.



Ir. Hon with the Exco Members after his Talk



The Young Members' Helpers (who did a tremendous amount of work)

Reported by Barry Adcock

Zero Waste Week, June 2015

Hong Kong hosted its first ever zero waste week between 7-14 June 2015. The event attracted renowned global academics, authors, government officials, district councillors and thought leaders to participate in a global international summit on 11 June 2015. The event also included a series of associated events ranging from city wide cleanups, a zero waste youth conference and corporate roundtable discussions to support companies to move towards zero waste.



The event highlighted the importance of Hong Kong citizens' responsibility towards waste and that efforts to lead zero waste lifestyles were achievable. The summit provided a platform to share experiences and to inspire companies and individuals to increase knowledge and understanding of zero waste. The summit promoted the use of the term 'zero waste' as meaning reducing generation and increasing recycling/reuse to result in residual waste being as near zero as possible. Whilst the term may be subject to a degree of nuance its goal is to guide people to emulate sustainable natural cycles, where all discarded materials are designed to become resources for others to use.

The summit programme included a number of case studies on approaches that had been applied in numerous case study cities and jurisdictions. These case studies highlighted the planning and strategy formulation processes these cities implemented and the decisions made about reduction in waste generation, diversion from landfill, increases in recycling rates, grass root initiatives and the extent of treatmen technologies to achieve the zero waste objective. It was evident that the paths taken by numerous cities are rarely the same and the extent to which technology and residual waste to landfill is applied vary significantly. The core messages from the summit were to retain materials at their highest value within the conventional waste hierarchy.

Local speakers highlighted the constraints of space and advocated use of multi-level facilities with the aim of enabling greater source separation of waste so that recycling and recovery initiatives could be maximised. Other local speakers advocated the establishment of a recycling bureau that could be tasked with overseeing the integration of design, manufacturing, packaging, collection, treatment and disposal of waste such that Hong Kong moved towards a more circular economy. The audience were reminded that personal behaviour, particularly the disposal and consumption habits of individuals, were as equally important as any infrastructure, policy or strategy initiatives proposed by government to achieve significant and lasting change in waste management.

Throughout the summit all delegates were invited to make their zero waste pledge so that they could move towards zero waste lifestyles.

Reported by David Pegg

Technical Visit to Chemical Waste Treatment Centre

The Chemical Waste Treatment Centre (CWTC) is located at Tsing Yi and provides a one-stop service for collection and transport, treatment and disposal of chemical wastes. The designed capacity of the plant is 100,000 tonnes per year of chemical waste, including MARine POLlution (MARPOL) waste and about 4,000 tonnes per year of clinical waste. The management and operation of CWTC is contracted by EPD to Ecospace Limited.

The technical visit to CWTC was conducted on 27th June 2015. It was divided into 2 sessions. The first session started with a video presentation about the background of CWTC followed by an introduction to CWTC and a tour around the laboratories guided by Mr. Fung, the Laboratory Manager.



Group photo of participants with Ecospace staff at lobby of main building.

The second session was presented by the Assistant Manager, Mr. Kwok. A scale model at the lobby of the main building was used for a brief introduction about the facility. After that, a plant tour was conducted for the insight of CWTC and included the reception area for clinical waste, the storage area for chemical waste, the incinerator and the plant control room.



Reception area for clinical waste



Control room of the incinerator

There is an open area near the entrance of CWTC for receiving chemical waste. Then the waste is recorded and stored before further treatment and pre-treatment tests are undertaken to counter-check with the trip-ticket. For clinical waste, due to the concern of hygiene and risk of infection, a refrigerating system is used for storage of human and animal waste (e.g. body tissues and parts). The clinical waste reception area is separated from that for chemical waste, and a washing station is installed for disinfection procedures.

The CWTC has three main treatment process systems: oily water separation, physical / chemical treatment and incineration. The clinical waste is sent directly to incineration.



The stack of the incinerator

On the date of the visit, the incineration system was closed for regular maintenance. As a result, collected clinical waste was sent to landfill directly after appropriate packaging. Human and animal waste was stored in the refrigerator waiting to be treated after the start up of the incinerator after maintenance.

This technical visit to CWTC was also part of the professional course in waste and environmental management. The purpose was to provide participants with exposure to the waste management industry and to experience its actual operation at one of Hong Kong's waste management facilities.

Reported by Daniel Leung

Technical Visit to Shatin Community Green Station



In order to engage Hong Kong citizens in making concerted efforts to put the new green culture of "Use Less, Waste Less" into practice and to treasure the resources on earth, the HK government is developing a network of Community Green Stations (CGS) in each of the 18 districts. The Shatin Community Green Station (SCGS), run by Christian Family Service Centre, is the first CGS to be commissioned and put into operation. On 22 August 2015, HKWMA was one of the first organisations to visit the pioneering facility.

Since its opening, SCGS has organised or hosted regular environmental activities and workshops to enhance environmental education and help collect different types of recyclables. The operators are particularly proactive in collecting recyclables of low economic value including electrical appliances, computers, glass beverage bottles, compact fluorescent lamps and tubes, rechargeable batteries, etc. from the local community, with a view to promoting green living at the community level.

On the day of the visit, HKWMA members were given an interactive presentation on the operation of SCGS by the SCGS manager. The group was then shown the green design with respect to the construction of the facility. SCGS is made up of container modules and various types of green construction materials. There is a storage space which temporarily stores recyclables collected from residents in Shatin. SCGS handles 1-2 tonnes of recyclables on a daily basis.

Lastly, members were taught by young volunteers how to turn coffee granules into eco-friendly natural coffee deodorant which everyone could take home as a gift. All participants had a fantastic day at the Shatin CGS and look forward to seeing more of them all over Hong Kong.

Reported by Ronald Ho

HKWMA 22nd Annual General Meeting and Annual Dinner

In 2015 the Association introduced the innovation of having the Annual General Meeting (AGM) and an Annual Dinner on the same night, 11 September at the Royal Plaza Hotel in Mongkok.

The AGM commenced at 18:10 hours with the Chairman, Kenny Wong, conducting proceedings. Kenny spoke to a detailed Powerpoint presentation which had been posted to the Association's website for members' information.



Chairman Kenny Wong Conducting the AGM

The first item on the agenda, the minutes of the 21st AGM, were approved by the members by a show of hands.

In the Chairman's Report, Kenny outlined his proposed initiatives for the coming years including 100% response to Government consultations on waste management matters, increasing the membership, reviewing the membership fee, continuing to organize training courses, conferences and social events and, of particular importance, to nurture the young waste management professionals through setting up Student Chapters. The membership of HKWMA had increased significantly since the previous year with the membership now standing at 269 members, compared with 205 at the same time the previous year.

Activities in which the Association was involved in the previous year included seventeen events organized by the Association, five activities in which HKWMA participated, nine international or regional collaborative partnerships and fourteen supported events.

The Chairman's Report was approved by the members by a show of hands.



Members Voting to Approve the Chairman's Report

The Financial Report presented by the Treasurer, Mr. Lawrence Lau, showed a surplus for the year of almost HK$100,000 and a surplus carried forward of over HK$600,000. The Audited Accounts for the 2014 / 2015 session were approved by the members by a show of hands, as was the Resolution to approve the appointment of Fanny P Lai and Company as the Association's auditor for 2015 / 2016.

The Chairman noted that three members of the EXCO for the 2014 / 2015 session would step down at this AGM : Mr. Mark Venhoek, Mr. Barry Adcock and Mr. Joe Ng. Three new nominations had been received from Mr. David Pegg, Dr. Daniel Tsang and Professor Irene Lo. Members accepted the resignation of the three existing members and the election of the three new EXCO members by a show of hands.

The Executive Committee had proposed to nominate Mr. Victor Li as the Chairman of the Association for the 2015 / 2016 session. Members accepted the election of Mr. Victor Li as the new Chairman by a show of hands.

Following completion of the proceedings of the formal AGM at 18:35 hours the new Chairman, Mr. Victor Li, addressed the meeting. Victor thanked Kenny for his time as the Association's Chairman and recorded that in the last year, under Kenny's leadership, the Association had reached new heights. However, the Association recognized that a great many initiatives needed to be followed up in Hong Kong to ensure that waste was managed effectively.

For instance, waste charging using RFIDs to identify individual items of waste was introduced in rural Ireland in 2010 but, five years later, Hong Kong had still not introduced such a scheme. Victor told the audience that the HKWMA was getting a strong reputation in the region especially with respect to contacts with nearby countries and their similar professional associations. The way ahead for Hong Kong could well be to take note of developments elsewhere in the world such as a recent EU initiative on the circular economy stressing recycling and recovery, incineration of non-recyclables and using landfill only for unrecyclable residues. This initiative was due to be introduced in the ten years from 2020 to 2030. Victor did note, however, that Hong Kong had allocated

HK$1 billion for a Recycling Fund so at least a start had been made.



Incoming Chairman Victor Li Addressing the Gathering

Victor asked all members to help HKWMA keep its voice heard to stress the facts about waste management and clearly express any concerns that the waste industry might have over present conditions or future proposals. To this end, the Association needed to continue to expand including founding Student Chapters in local universities, a procedure which was already starting. Victor said he looked forward to working with the Executive Committee and all members to further HKWMA's goals.

The Annual Dinner commenced at 19:15 hours with a welcome address by the outgoing Chairman of the Association, Mr. Kenny Wong. Kenny was pleased to report that waste management had obtained a very high priority in Hong Kong recently. Milestones in the previous year included LEGCO approval of the proposed landfill extensions and the Integrated Waste Management Facility (IWMF) the city's first waste-to-energy mass burn incinerator to be built for several decades, the commencement of construction of the Organic Waste Treatment Facility (OWTF) in North Lantau and the Waste Electrical and Electronic Equipment (WEEE) recycling facility at Eco Park. Work had also started on drafting a procedure for waste charging.

Kenny then introduced the Association's three VIP guests for the evening : Mr. Bernard Chan, chairman of the HK$1 billion fund set up by Government to encourage the revitalization of restored landfills, Mr. Jimmy Kwok, chairman of the committee developing the procedures for administering the HK$1 billion Government Recycling Fund and Ms. Christine Loh, the Undersecretary for the Environment.



Guest of Honour Bernard Chan and VIP Guest Christine Loh with Exco and YMC Members



VIP Line Up
From left to right: Daniel Cheng (former Chairman), Jimmy Kwok (VIP Guest), Antoine Grange (Exco Member), Kenny Wong (outgoing Chairman), Victor Li (incoming Chairman) and Alexi Bhanja (former Chairman)

Kenny appealed to everyone to eat all their food at dinner because no food waste would be allowed.



Chairmen and Members About to Finish All Their Food



Members and Past and Present Chairmen Toasting HKWMA

Later in the evening, Kenny introduced the Guest of Honour, Mr. Bernard Chan, who was well known to members of the Association having spoken to members after the AGM in September 2014. Kenny said that although Mr. Chan was not a waste management professional, he knew a great deal about waste management especially through his recent chairing of the committee studying waste charging. He was also a member of the Executive Council and a member or Chairman of many other bodies.



Kenny Wong and Bernard Chan

Mr. Chan commenced his address by thanking the Association for inviting him back and noted that the choice of subject had been left up to him. As he had recently been involved with the committee set up by Government earlier in the year to study the reduction of sugar and salt in food, he said he would make that his topic for the evening. Mr. Chan related that in his first six months working with the committee, he realized that people who are over 50 years old were worried about the amount of sugar and salt in their food but that younger people were not interested because they were healthy and couldn't see what all the fuss was about and questioned whether Government didn't really have something better to spend their time on. However, reference to WHO research showed that Hong Kong had double the per capita intake of salt and sugar recommended for healthy living. The Hong Kong Government accordingly was aiming to reduce the sugar and salt content in food by 30% initially. The main source of sodium was soya sauce but MSG and chicken stock doubled the total consumption with all other sauces and condiments having lower salt contents. Sodium was also used as a flavoring and preservative in processed foods. Most sugar in people's diet came from juice and soft drinks and there was therefore definitely a need to target sugar reduction on school children by educating them of the health dangers involved because it was not possible to legislate for sodium and sugar intake which was largely dependent on an individual's own choice. The main initial effort was to get manufacturers to adjust their formulations to lower levels of sodium and sugar.

The second target was to work with the restaurant trade, including fast food chains, to encourage them not to put sodium and sugar on display in their restaurants but to make them available on request only and to reduce the size of the prepacked packages. It was also very important to improve the menu provided

by food companies to schools. The anticipated time scale for these initiatives was ten years. Hopefully it could be done gradually at 3% per annum so that people didn't even notice the reduction.



Guest of Honour Bernard Chan Giving his Address

Mr. Chan then went on to make some observations about the present state of politics in Hong Kong. The Government, in association with New World Group, had commenced a scheme to improve the Tsim Sha Tsui promenade. New World were contributing HK$2 billion to the scheme so Mr. Chan could not understand why people thought it should be let out to tender and why they complained that it was a waste of money because the attraction was only for mainland tourists. Mr. Chan pointed out that this scheme was not a first; China Resources looked after a garden in front of their building for which they paid and no tenders were called for that scheme. Similarly, Swire's sprucing-up of Star Street in Wanchai as a PPP scheme : was that not fair? Why should Government have to go out to tender?

It was planned to put 31 naked lifesize statues by renowned British sculptor Anthony Gormley on top of buildings in Central with the assistance of the building owners. However, an ill-informed public outcry was leading to the sponsors of the exhibition getting cold feet. If this was an example of the public mood in Hong Kong, then creativity and innovation could be forgotten about because a "risk averse" culture was killing it. If there were no incentives for people to try and do something new and different then Hong Kong could not progress.

Mr. Chan said that the examples he had just given showed how very interesting the times now were in Hong Kong and that it was even more important than before for professionals like the HKWMA to be bold and to speak out so that Hong Kong could return to the successful "can-do" mentality that had been a guiding light in the past. In particular he asked the Association and its members to give the Environmental Bureau their support to help achieve what Christine Loh and her team were trying to do.



Christine Loh Speaking

Undersecretary for the Environment, Ms. Christine Loh, then addressed the members and guests. She started off by saying that she knew very little about waste management three years earlier but that since joining the Environment Bureau she had been on a very fast learning curve. She said that young people entering the waste business need have no fear about jobs; the Government's policies on waste management would make it very fruitful for people to work in the waste industry in the future. She went on to say that she hoped that HKWMA's members understood and appreciated the efforts made by the Secretary for the Environment, herself and the EPD to finally get things moving in the direction of sustainable waste management. The five year term of this administration was

now past half way and more efforts were needed to be put into moving to implementation of the proposals. She hoped that the candidates in the next Chief Executive election in 2017 reached out to professionals about waste management as part of their manifestos. She stressed that in the next two years, it was very important that professional bodies like HKWMA kept reminding Government and politicians about the importance of waste management so that they were not able to take their eyes off the ball.

Following the conclusion of her address, Ms. Loh was kind enough to present membership certificates for 2015 / 2016 to the corporate members of the Association.



Christine Loh Presenting Membership Certificate to Frank Wan representing ERM



- *Christine Loh Presenting Membership Certificate to Antoine Grange representing SITA*

Reported by Barry Adcock

Technical Visit to ASB Biodiesel Production Factory



The HKWMA and HKIE Environmental Division jointly organized a visit to ASB biodiesel on 26 September 2015. Mr. Roberto Vazquez, the Managing Director of ASB Biodiesel (Hong Kong) Ltd, first gave an engaging presentation about the background of ASB biodiesel, its vision and its plant operation. The ASB Biodiesel plant is owned by a private company and uses multi-feedstock technology for the highly efficient processing of waste feedstock such as used cooking oil, waste animal fats and grease trap waste. The waste is sourced by reliable used cooking oil collection service providers to the catering industry in Hong Kong.

After the presentation, Mr Vazquez and his staff led all the participants to visit the plant site and other facilities including the laboratory and the control room while further explaining how the plant operates. The plant site spreads across 18,000sq. feet to accommodate the leading technology that allows efficient processing of feedstock. The current plant has an annual capacity of producing 100,000 tonnes of biodiesel and most of their products are currently exported directly to Europe as “B5” meeting the European standard. The plant has proved that it is able to produce higher blends including B10 and B100. The plant’s

production could fulfill the fuel demand of all diesel vehicles in Hong Kong if all of them switched to using B10 fuel, ie. regular diesel fuel blended with 10% biofuel.

The site visit was followed by an interesting Q&A discussion. In the discussion it was understood that the challenge of running the plant is not about the technology but that the potential market is not large enough. The concept of using biodiesel is not widely spread across Hong Kong. Unlike in many European and Asian countries, the use of biodiesel in Hong Kong is voluntary. The benefits of using biodiesel are not realized and this has limited the potential biodiesel outlet in the local market. On the other hand, the operation cost of the plant is high due to expenditure on the collection service and the daily operation and maintenance of the machines. Accordingly the unit price of biodiesel will be slightly higher than diesel and therefore fewer users are willing to pay more even though they are aware of the benefits biodiesel brings to the environment.

Considering that the production of this clean fuel can reduce waste and the use of fossil fuel, it is necessary for the government to further promote this initiative by giving more support to encourage the use of biodiesel. This will sustain the business with value added technology and at the same time build up a cleaner environment for Hong Kong.

The visit ended with a photo-taking session. From the visit, participants gained a better understanding of the biodiesel product and its benefits. On behalf of HKWMA we would like to take this opportunity to thank Mr. Vazquez and the ASB Biodiesel staff for their arrangement of the visit.

Article contributed by Kitty Lee

The 9th Two-Coast Forum on Sustainable Solid Waste Management (2015 Cross-Strait Solid Waste Management Forum)

The 2015 Forum was held from 29th to 30th October at Hangzhou, China. Hosted by the China Association of Urban Environmental Sanitation (CAUES, 中国城市环境卫生协会) this year, the forum is an annual event where representatives from CAUES, the Chinese Institute of Environmental Engineering (CIEnvE, 中華民國環境工程學會), the Hong Kong Waste Management Association (HKWMA, 香港廢物管理學會) and the Macau Institution of Engineers (MIE, 澳門工程師學會) are joined by more than 250 participants including government officials, scholars, engineers and field experts from Mainland China, Taiwan, Hong Kong and Macau to share their experiences on current progress and situations in waste management and to explore the future outlook among the regions.

Held together with the *6th Waste and Culture Forum* by CAUES, the relationship between solid waste management and building beautiful cities was the main focus of the forum. The opening ceremony was followed by a report by Mr. Guo-Ping WANG, the former Member of the Standing Committee of Zhejiang province and the Secretary of the Committee of the city of Hangzhou, on the aims, references, policies and characteristics in achieving the results in a balance between waste management and city operation in Hangzhou.

Mr. Victor LI, the Chairman of HKWMA, shared the current challenges in waste management faced in Hong Kong and illustrated the plans

and strategies in overcoming these obstacles. Mr. Clement SIO, the Deputy Council President of MIE, reported on the present plans and facilities of waste treatment and management in Macau and presented the goals of environmental protection and energy conservation schemes initiated by the government. Mr. Xiao-Kang MA, Professor of the National Taiwan University, described the resources on municipal solid waste sorting, recycling and treatment in Taiwan while highlighting the current status and technology in electronic waste recycling and precious metal recycling.

Another focus of this year's forum was the association of waste and culture. Fittingly, the forum was held at Tianzilang (天子岭) in Hangzhou, a waste management site as well as a waste treatment area while allowing citizens to carry out leisure activities at the same time. Participants of the forum were invited to join the award-winning tour Ecotourism of Garbage Disposal ("跟着垃圾去旅游") organized by the Hangzhou Environmental Group Ltd. Company (杭州市环境集团有限公司). To promote the importance of municipal solid waste management and to increase the understanding of waste treatment technology among the general public, participants visited the refuse collection operation control centre, the household waste treatment plant, the waste water treatment plant and the education centre. The tour concluded at the environmental park on top of the valley with an overseeing view of the municipal solid waste treatment area, demonstrating that waste management and citizen leisure activities can coexist on the same piece of land.

Discussion sessions and presentations were given by scholars and field experts from all regions, analyzing the latest technological breakthroughs in waste management, sharing the lessons learnt through past experiences, pointing out the possible implementations of waste management plans around the world while featuring the importance of adequate, appropriate and sustainable waste management methods to the lives of citizens.

The forum ended with a televised round table meeting (broadcast on 7 & 8 November on the Hangzhou TV channel) with representatives from all regions. As a fruitful conclusion of the forum, guests shared their insights and experiences and discussed the essential aspects in dealing with the coming challenges in waste management, before reaching out to the audience on the measures the general public can take in order to achieve a better future in solid waste management and building beautiful cities.



A well attended event with over 250 participants



Mr. Victor Li presenting the Hong Kong situation, challenges and opportunities

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Delegates from Hong Kong & the organizer





Delegates from HK, Macao & Taiwan



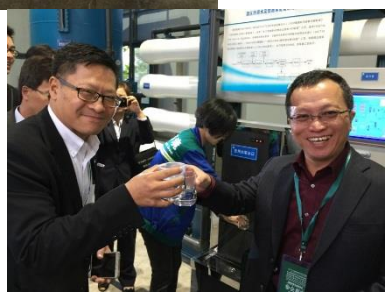


Overseeing view of Tianzilang









Mr Jude Chow tasting the drinking water recycled from leachate treatment plant



Touring Ecotourism of Garbage Disposal

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Dr. Kaimin Shih receiving a souvenir



Presentation by Mr Wang of China Water Industry (member of HKWMA)





Roundtable discussion on challenges and opportunities of waste management in Hangzhou





Preserving history within the waste management complex

Article contributed by Mickey Wan

SEMINAR ON "INTRODUCTION TO RECYCLING FUND"

The rapid increase of the daily per capita municipal solid waste generation rate in Hong Kong has created tremendous pressure on the entire waste chain and in our landfills. In response to this imminent waste problem, the Government issued in May 2013 the "Hong Kong Blueprint for Sustainable Use of Resources 2013-2022" (the Blueprint), setting out a comprehensive strategy to reduce waste and increase recovery and recycling.

Effective and sustainable recycling operations are an essential component in our waste management system. In support of the sustainable development of the recycling industry, the Chief Executive announced in his 2014 Policy Address that $1 billion had been earmarked for setting up a Recycling Fund. With the approval of funding by the Finance Committee of the Legislative Council in

July 2015, the Recycling Fund was launched in Oct 2015 and opened for applications. The Government has engaged the Hong Kong Productivity Council to be the Implementation Partner as well as the Secretariat for the Recycling Fund to assist in the development, promotion, management, operation and monitoring of the recycling fund activities.

On 11 November 2015, Ir Kenny Wong, HKWMA's past Chairman and the Principal Consultant of Hong Kong Productivity Council, and also tasked as the Programme Manager of the Recycling Fund, delivered a seminar on the Introduction to Recycling Fund. The technical seminar was jointly organized by the Hong Kong Waste Management Association and the Environmental Division of the Hong Kong Institution of Engineers.



Kenny Wong giving his talk

The Recycling Fund comprises two parts, namely the Enterprise Support Programme (ESP) and Industry Support Programme (ISP). The former provides funding support for individual Hong Kong enterprises to upgrade and expand their waste recycling operations in Hong Kong. The latter provides funding support for non-profit distributing organisations (NPOs), such as professional bodies, trade and industry organisations, research institutes and other industrial support organisations registered in Hong Kong to undertake non-profit making projects which can assist the local recycling industry in general or in specific sectors in enhancing their operational standards and productivity.



The audience enjoying the talk

This engaging seminar was well attended by around 80 members and extremely informative. Many valuable questions were asked, and stimulating and inspiring discussions had taken place. Everyone had a fruitful evening. We would like to thank our past Chairman Ir Kenny Wong for delivering the technical talk



Presentation of souvenir to speaker by Ir. C.S. Lam of HKIE (L) and Chairman Victor Li of HKWMA (R)

Article contributed by Kenny Wong

Technical Visit to Shenzhen Waste Treatment Facilities

On December 12, 2015, China Water Industry (CWI) invited HKWMA to delegate a study group of 36 people to visit CWI's project sites including Xiaping Landfill, a foodwaste treatment facility and a material sorting and recovery facility in Shenzen.

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The HKWMA members departed from Hong Kong and arrived in Shenzhen in a coach kindly arranged by CWI's Mr Derek Fung. Upon arrival at Xiaping landfill, CWI's Managing Director Mr Liu Feng first greeted the visitors with a warm welcoming speech, followed by sharing their waste management vision. CWI arranged many representatives and in-house experts, including Mr Chan, to provide a briefing and description of the facility. They explained the process and shared their valuable experience with our members.

The Xiaping Landfill is well-managed to produce 5000m3/hr of methane-rich landfill gas of which half is used for natural gas generation, another half is for electricity generation and the remaining quantity is flared. The amount of electricity generated is sufficient to support the usage for the residents in Lo Wu, Fu-tian and areas around.



Xiaping Landfill

Next we visited the food waste treatment facility and a material recovery facility. The two facilities are located at different parts of Shenzhen. Each of them is set up in an eco-park. CWI staff explained there are currently six eco-parks in Shenzhen. Each eco-park is intended to co-locate different treatment facilities including landfill, leachate treatment plant, wastewater treatment plant, food waste treatment and material recovery facility together. This kind of integrated eco-park is also intended to serve as a typical example for other cities in China.



Food Waste Treatment Facility



Material Recovery Facility

As this is the first material sorting and recovery facility in China, many HKWMA members were interested in the topic and had good interactions with the CWI staff. CWI developed their technology with the experts in Tsing Hua University. The technology includes trommel screens, magnetic separation, eddy current, conveyor belts, etc.

The visit was a great success. After the visit, HKWMA members had a better understanding of the waste treatment facilities in Shenzhen, the benefits and difficulties encountered in their operation and the future vision of the waste industry in China. We take this opportunity to thank CWI for their arrangement of the visit.

Article contributed by Kitty Lee

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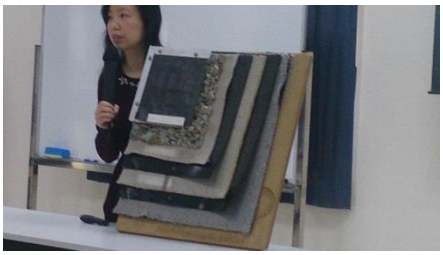
Technical Visit to SENT Landfill

On 16th January 2016, HKWMA YMC organized a visit to the South East New Territories (SENT) Landfill.

SENT landfill is one of the three strategic landfills that serve as the major disposal method for solid waste generated in Hong Kong. Among the three strategic landfills, the SENT landfill is the second largest in terms of geographical area. A subsidiary of Veolia, Green Valley Landfill Limited, was contracted in 1993 for the design, build, operation of the SENT landfill and 30 years' Aftercare for the Environmental Protection Department of Hong Kong Government until its closure. Since 6th January 2016, the SENT Landfill has been accepting only construction waste to address the odour problem.

Mr. K. L. Wan, the Environmental Protection Officer from Environmental Protection Department, first gave all the visitors an engaging presentation about the landfill design, construction and management techniques deployed in the SENT Landfill and the social and environmental benefits of the landfill gas utilization project.

Green Valley's staff then led the visitors to visit the general landfill operations including waste reception, waste tipping, leachate and landfill gas treatment processes and gave them further details. To reduce greenhouse gas emissions and enable the utilization of landfill gas more beneficially, Green Valley has entered an agreement with the Hong Kong and China Gas Co. Ltd. (HKCG) to supply treated landfill gas to HKCG's gas supply network. HKCG will construct landfill gas treatment facilities to turn landfill gas into synthetic natural gas. The treated gas will be transmitted to the regulating station in Tseng Lan Shue through a 12 km pipeline. Total investment of this landfill gas utilization project is about HKD 350 million and the project is expected to be commissioned before 31 July 2016.



The representative of Green Valley Landfill Limited explaining the liner system used in SENT Landfill.



Mr. K. L. Wan explaining the management techniques deployed in the SENT Landfill



Model of Leachate collection system used in SENT Landfill

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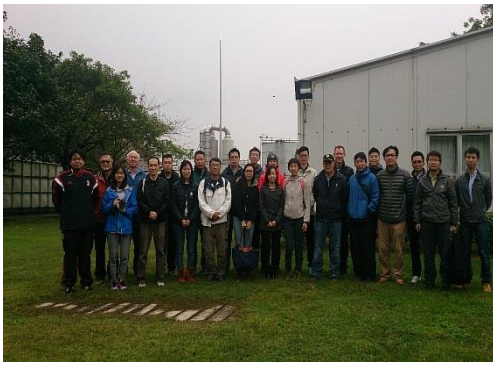
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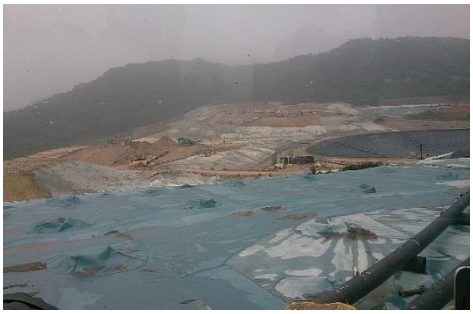
The representative of HKWMA YMC presented an appreciation Certificate to Green Valley Landfill Limited





Group photo taken at the visitor centre of SENT Landfill

Ammonia Stripping Plant and Aeration Tank used in SENT Landfill



Tipping Face of SENT Landfill

Reported by Lo Chun Hei

HKGSA and HKEnvIA 2016 Reception

On 19th January 2016, a Spring Reception and conference was jointly organized by the Hong Kong Green Strategy Alliance (HKGSA) and the Hong Kong Environmental Industry Association (HKEnvIA), with the Hong Kong Productivity Council (HKPC) as co-organizer and venue host. The Hong Kong Institution of Engineers (HKIE) Environmental Division and the Hong Kong Waste Management Association (HKWMA) were supporting organizations. Over 200 guests attended the reception.

As a key annual activity, cross functional departments and institutional organizations participated in the discussion forum at this Spring Reception. Dozens of participants presented their ideas, concerns and suggestions on environmental improvement for Hong Kong's further development as well as solutions to municipal solid waste reduction, resource recovery, success stories of new products and demonstration projects in Hong Kong.

During the discussion forum, very fruitful innovation exchange took place between different parties such as organizations and experts, design institutes and government departments. According to the "Hong Kong Blueprint for Sustainable Use of Resources 2013 – 2022 ", Hong Kong's daily per capita domestic waste generation rate is high when compared to other cities in Asia at stages of economic development similar to ours. The experience tells us that Hong Kong can do very much better if we take coordinated and simultaneous action on waste prevention, reuse, recycling, recovery, treatment and landfilling, as part of a whole resources management chain.

In the welcome speech, Dr. WK Lo, Chairman of HKGSA, shared the current situation in the Public Works Subcommittee and the Finance Committee of the Legislative Council as far as environmental matters were concerned. He also reported on the overall approval progress and short term public development works in Hong Kong

After the first speech delivered by Dr. WK Lo, Mr. Wong Kam Sing, JP, Secretary for the Environment of the HKSAR, presented "Policy Address and COP21". Mr. Wong clearly indicated the future direction and key aspects of the Government's environmental policy, including air quality, Victoria Harbour water quality, combating climate change, energy conservation, waste management and nature conservation. Since the conventional approach of environmental conservation is no longer acceptable in terms of sustainability, an integrated approach that considers the lifecycle impacts of waste management had been introduced.

During the following discussion forum, the panel of Mr. Wong Kam Sing, Dr. WK Lo, Ir Daniel M. Cheng , Chairman of the HKEnvIA, Ir. Raymond Fong, HKPC, and Prof. Ho Kin Chung, Dean, School of Science and Technology, Open University, presented their long term perspective on air quality, water quality and solid waste management. The audience also exchanged and highlighted the legislation problem in Hong Kong and shared the best practice on food waste and indoor air quality.

The overall impression of the conference was that it was well organized in an excellent conference venue. The forum ended with a detailed discussion between the audience, the speakers and panelists on all aspects of environmental management.

Reported by Jude Chow

HKIE Environmental Division Annual Forum, Hong Kong's Role in Low Carbon Development: Challenges and Way Forward, 18 April 2016

The Hong Kong Waste Management Association recently supported the HKIE Environmental Division's Annual Forum held at the HKCEC. The forum this year comprised key note addresses from the Secretary for the Environment, Mr Wong Kam-Sing; Legco Engineering Functional Constituency Member, Ir Dr Hon Lo Wai-Kwok and President of HKIE, Ir Chan Chi-chu as well as many other distinguished academics and professionals on the theme of Low Carbon Development.

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The forum enabled participants to review, share and learn experiences of transitional steps towards low carbon development so that they could explore potential future actions to achieve a low carbon and climate resilient future for China and Hong Kong following the 21st session of the Conference of Parties (COP21) held in Paris in December 2015.

Four focus sessions were conducted that examined 1) Climate Resilience and Challenges; 2) Development of Low- Carbon Energy; 3) Urban Mobility Decarbonizing and 4) Carbon Pricing and Market. These sessions identified that Hong Kong faced many challenges to reduce carbon and greenhouse gas emissions and decarbonize its energy infrastructure and embrace green and sustainable development measures.

Participants agreed that embracing initiatives such as the Regional Cooperation Plan on Building a Quality Living Area, Climate Change Hong Kong and Green Hong Kong Carbon Audit were transitional steps to achievement of a low carbon future whereby developments embraced green procurement strategies, green technologies, low carbon cross boundary cooperation initiatives and sustainable / low carbon city / community strategies so that Hong Kong improved its resilience to climate change and improved the quality of living within the city.

Article contributed by David Pegg

HKWMA Gives its Support

Over the last year HKWMA has been pleased to support the following events which are not reported elsewhere in this edition of "Wasteline"

- 28 – 31 October 2015
HKTDC's ECO Expo Asia

- 2015 / 2016
HKQAA Hong Kong Registration – Eco-friendly Series

- 1 December 2015
CIWEM HK International Forum: Managing Metal Contaminants in Water Supply Systems

- 14 December 2015
EPD / HKPC Green Procurement Forum

- 31 March to 2 April 2016
Macau International Environmental Co-operation Forum & Exhibition (2016 MIECF)

- 11 March to 10 April 2016
CIWEM HK Photo Competition 2016

- 15 – 21 May 2016
CIWEM HK Study Mission 2016
Water and Environmental Management in Five Yangtze River Cities in China

- 26 May 2016
BEAM Society Limited / HK Green Building Council BEAM Affiliate Training

- May to November 2016
HSBC / BEC Living Business Programme 2016

- 23 September 2016
HKIE 8th Guangdong / Hong Kong / Macau Sustainable Development Conference 2016

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HKWMA Gives its Opinion

HKWMA has contributed to Government and Legco consultation exercises and other initiatives as follows:

- 5 October 2015 :
  Submission in response to Government Consultation on Regulation of Edible Fats and Oils and Recycling of "Waste Cooking Oils".
- August 2015 :
  Acceptance of SEN's Invitation to Support the "Waste Check Charter".
- August 2015 :
  Agreement to include HKWMA website as a hyperlink on Government's new one-stop web portal "Hong Kong Welcomes U".
- 6 October 2015 :
  Attending the Launching Ceremony of the Recycling Fund
- 30 November 2015 :
  Submission to Legco on Legislative Council Bills Committee on Promotion of Recycling and Proper Disposal (Product Container) (Amendment) Bill 2015.
- 13 January 2016 :
  Attendance at SEN's Briefing on the Policy Address.
- 12 July 2016 :
  Attendance at Chief Secretary's Climate Change Stakeholder Engagement Forum.
- 22 August 2016 :
  Submission to ENB of Position Paper on Climate Change.

Upcoming Events

- 26 – 29 October 2016 :
  ECO Expo Asia at Asia World Expo, Hong Kong International Airport
- 4 November 2016 :
  HKWMA contributing to Chief Secretary's Forum on the 2017 Policy Address
- 4 – 5 November 2016 :
  Tenth Two Coast Forum on Sustainable Solid Waste Management – Macau
- 9 – 11 November 2016 :
  The 9th Asia Pacific Landfill Symposium (APLAS 2016) on Integrated Waste Management and Sustainable Landfilling: HKU
- 15 – 18 November 2016 :
  Electronics and Cars Recycling Conference and Exhibition – Macau
- 24 – 25 November 2016 :
  Waste MET Asia – Guangzhou where HKWMA will sign an agreement to join the Asia Pacific Waste & Environmental Alliance (APWEA)
- 29 November 2016 (date to be confirmed) :
  Regional Seminar on Food Waste Management : City U, HK
- 6 – 8 December 2016 :
  Asia Pacific Conference on Biotechnology for Waste Conversion organised by Hong Kong Baptist University.

- March to June 2017 :
  Professional Course in Waste and Environmental Management 2017 – details to be advised

- 25 – 28 May 2017 :
  Conference on Biological Waste organised by HK Poly U.

- 5 – 7 June 2017 :
  World Sustainable Built Environmental Conference 2017 - HKCEC