

Responsible Care

Chemical Industry's Commitment to Sustainable Development

Issue No + 42

Intro Interview with Ujong Yu, CEO of Dow Chemical Korea

Special Outcomes of the 2019 RC Leadership Group's meeting for the first half year

Issue Corporate strategy based on the UN's sustainable development goals

Members Focus Members' News

RC Activity Key Activities of the KRCC Secretariat



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 E-mail : rcmaster@krcc.or.kr
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Responsible Care® is a voluntary program in the chemical industry and continues to promote the environment through safety and health improvement activities by pledging commitment and implementing the program in management policy to protect the environment, safety and human health throughout its entire lifecycle-from the development of chemical products to their manufacture, sale, distribution, use, and disposal.

LEADING THE CHEMICAL INDUSTRY

**MORE INNOVATIVELY,
AND RESPONSIBLY!**

Ujong Yu,
CEO of Dow Chemical Korea

Dow Chemical Korea, a global expert in materials science leading consumer-oriented businesses such as packaging, infrastructure, and consumer care, is focusing on three key materials in the chemical industry: ethylene, propylene, and silicon. As of April 2019, the company is operating 113 manufacturing factories in 31 nations with nearly 37,000 employees. Dow Chemical Korea has served as a sponsor of the Olympic Games since 1980 and participated in the Olympic Partners (TOP) program since 2010 as a worldwide Olympic partner and an official chemicals company. We met with Ujong Lee, CEO of Dow Chemical Korea, to hear about the company's management philosophy to benefit humankind and the environment. He joined the company as an attorney of the Asia-Pacific Legal Team in 2013 and took office as CEO in November 2015. Since taking up the post, Mr. Yu has been swamped in work activities, involving the merger with DuPont and then the recent separation.



Please introduce Dow Chemical Korea, and give us a brief history of the company.



Dow Chemical started from Dow Chemical International established in 1967, which entered the Korean market in 1969 by setting up a 50:50 joint venture with Chungju Fertilizer. In 1975, Dow Chemical Korea was founded as the first Korean chemical enterprise 100% invested by a foreign company. And this was the biggest investment in the company's history (US\$ 148 million), significantly contributing to the development of the Korean chemical industry. As of April 2019, nearly 340 employees are working for Dow Chemical Korea in its Seoul Office, Yeosu Office, and Jincheon Factory. This factory specializes in manufacturing silicon materials for construction, packaging, lighting, electronics, vehicles, and cosmetics.

Would you tell us about Dow Chemical Korea's management philosophy?



We have aspired to become the world's most innovative, customer-oriented, inclusive, and sustainable materials science company. The purpose of our innovation is to create materials and solutions that can make the world a better place, and customer orientation is intended to run businesses in a more smooth, fun, and effective way through digital and personal communications. Inclusiveness aims at creating a working environment that can fully embrace all our workers regardless of their gender, race, nationality, and so forth. Lastly, sustainability refers to our commitment to benefiting society and this planet in whatever we do. With these goals in mind, Dow Chemical Korea is closely cooperating with domestic/overseas customers and partners, which constitutes the value of our new brand slogan 'Seek Together.'

Dow Chemical and DuPont were merged in September, 2017 and I heard that separation is in its way again this year. What does that mean?



Dow Chemical and DuPont were merged to establish three independent listed companies leading the industry in the field of agriculture, materials science and special product. In other words, separation was kept in mind from the beginning of the merger. For 18 months since then, we finalized the organization structure of each company and secured the synergy that can reveal the value. At the same time, we went through the separation process to maximize the profits of customers and shareholders. Finally, Dow Chemical was successfully separated from DowDuPont in April this year. Now Dow has become a materials science company that is more professional and effective than before and leads the industry. By changing previous portfolios, cost structures and mindsets, we can implement innovation more quickly, operate our company productively and have the means necessary for prudent investment.



▲ View of Dow's head office in Midland, Michigan, USA

#PullingOurWeight Types of waste collected by staffs and executives of Dow Chemical Korea and their families who participated in the campaign are saved on the application. ▼



Dow is a global company putting emphasis on its social responsibilities. Please tell us about your activities related to sustainable management and social contribution.



Dow has a long history in the area of sustainable management. We have been trying to lead the way in promoting the welfare of all humankind as we presented long-term strategies for sustainability three times in the past 30 years. In the latest '2025 Sustainability Goals,' Dow has set itself seven goals including enhancement of the circular economy, safety materials for a sustainable planet, promotion of groundbreaking innovation, etc., and been making various efforts to achieve these goals. As a part of sustainable management, Dow has been engaged in various social contribution activities assisting local communities and supporting science and engineering education under three corporate citizenship strategies - acceleration of sustainable innovation; cultivation of embracing leadership; and development of prepared manpower. Activities that Dow conducted in Korea last year include '#PullingOurWeight,' which cleaned waste on the shores and waterways; 'Renovating the House of Hope,' which is a habitat program renovating the houses of low-income families; 'Twinkle Twinkle Eco-School,' which informs and teaches activities

to elementary school children about the causes and phenomena of climate change; and the 'Green Energy Club Contest,' which promotes energy- and resource-saving on campuses by supporting activities of environmental clubs in junior high and high schools. In addition, Dow has been supporting the process of selecting and educating representative students participating in the International Chemistry Olympiad by supporting the Korea Chemistry Olympiad since 2014 and trying to discover and develop talented people in the natural sciences and engineering majors in Korea by hosting the 'Dow Chemical Korea Excellent Thesis Award' for students in the master's and Ph.D. course, and researchers for the Ph.D. course in Korea.

Issues related to plastic waste has been raised continuously. What kinds of activities are Dow engaged in to reduce plastic waste?



Plastic, due to its light, durable characteristics, is widely used in our everyday lives, from electronic devices such as cell phones and computers, to general products such as glasses, helmets, shoes, etc. When thinking of plastic, convenience comes to mind first, but in fact, it plays a positive role in terms of sustainability. For example, for food packaging, the packaging product with the latest technology applied extends the expiration date of food and keeps food fresh longer by preventing decomposition. Also, plastic packaging which is lighter than substitutes reduces the total weight when transporting products so it can save transportation fees and energy. Similarly, with cars, as plastic that is light but highly durable is applied to the body of a car, it can improve fuel efficiency more, which results in reduced carbon emissions. However, problems caused by managing plastic waste improperly have started to be on the rise. The recently rising issues on plastic waste come from a poor waste management infrastructure.

Therefore, it is necessary to improve infrastructure and support recycling of used plastic to make other products so that waste is not discarded in the environment by properly managing the life cycle of plastic throughout designing, production, consumption and disuse. In the latest '2025 Sustainable Goals,' Dow designates 'enhancement of the circular economy' with these contents as priority and is engaged in diverse activities. Dow has three approaches to the problems of plastic waste- removing plastic from the natural environment, developing a solution for the circular economy, and increasing the effects through partnerships. To resolve plastic problems, not only companies but also the government and NGOs should cooperate. Dow is a founding member of the Alliance to End Plastic Waste (AEPW) founded last January. Companies trying to resolve plastic waste problems can join this alliance through various value chains. With more than 30 companies having already joined, US\$1 billion has already been raised and it is planned to raise an additional US\$1.5 billion over the next five years. This alliance is one of many groups, along with NGOs that Dow has partnerships with to fight against plastic waste problems.

Please tell us if there is anything you want from the industry, academic circles, academic research circles and the government for sustainable development.



Chemical products in our daily lives today play an important role in improving people's quality of life. However, as there is light and shade in everything, chemical products can also potentially have harmful effects if used or managed improperly depending on the products' characteristics. Therefore, the government has revised numerous laws to reinforce management of chemicals over the past few years and is now implementing or about to implement such revisions. Dow totally feels the same way about the government's effort to reinforce laws and is striving at every level to comply with regulations. However, it is also true that the industry's burden has been growing heavier as a lot of systems took effect at the same time. Therefore, I think that we can kill two birds with one stone with safe chemicals management and promotion of the chemical industry if the government holds a briefing session to increase understanding of a policy and ensures enough time for a company to deal with it when setting a balanced policy based on science later. 🌱



▲ Executives and employees of Dow Chemical Korea and there are families seen having a group picture taken after finishing the #PullingOurWeight campaign at a beach near Youngyudo Island in Incheon.

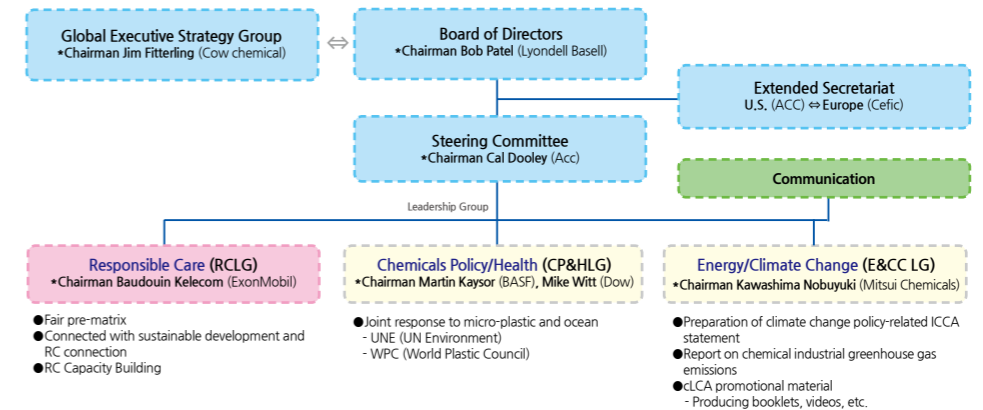


PARTICIPATED IN THE 2019 ICCA RC LEADERSHIP GROUP MEETING FOR THE FIRST HALF YEAR

The 2019 International Council of Chemical Association (hereinafter 'ICCA') Responsible Care (RC) Leadership Group Meeting for the first half year hosted by CIQyP was held successfully from May 7~8 in Melia Buenos Aires hotel in Argentina, with participation by 26 managers from 20 member countries.

Under ICCA, leadership groups are operated for each of the three areas of energy/climate change, chemicals/health policy and Responsible Care. The Leadership Group holds meetings twice a year to discuss important issues in each area and how to deal with them. As many as 62 associations and groups around the world are conducting RC activities and each country's RC program is monitored by the ICCA RC Leadership group because each country has a different development stage.

[ICCA Organization Chart and Primary Duties]



We had an opportunity to share plans to expand implementation of RC to Asia and Africa and a current status of RC in each country in this meeting. Hence, we will introduce the main issues discussed in the RC Leadership Group meeting and talk about influences on our chemical industry and implications.

TOPIC ①

● SAICM2020

Strategic Approach to International Chemicals Management (hereinafter, SAICM) refers to the principles to be achieved by 2020 on a local, national and international scale to minimize the risk to people and the environment throughout the entire life of chemicals. SAICM has been selected at the World Sustainable Development Summit in 2002 to work as a basic part of an international order based on voluntary management of chemicals. So far, the International Conference on Chemicals Management (ICCM) has been taking initiatives to inspect and assess the implementation of SAICM regularly on a national and local scale. As 2020 approaches, the direction of SAICM beyond 2020 is currently being discussed (SAICM 2030).

[Five Policy Goals and Purposes of SAICM]

- ▷ **Risk reduction:** Minimization of the risks to the lifecycles of chemicals; showing consideration for marginalized classes; risk assessment/management, development of safe substitutes; management of harmful wastes, etc.
- ▷ **Knowledge and information sharing:** Activation of production and provision of risk information, reinforcement of information delivery to the marginalized classes, implementation of GHS, balance and sharing of international risk information, etc.
- ▷ **Governance formation:** Expansion of participation and cooperation of persons concerned on the life cycle of chemicals, expansion of participation of the vulnerable class such as woman, expansion of participation and responsibility of the industry, etc.
- ▷ **Capacity formation and technical cooperation:** Overcoming of gaps between capacities of the advanced countries and developing countries; support for the developing country to form capacity and technical support and exchange, etc.
- ▷ **Prevention of international illegal trading:** Prevention of international illegal trading of harmful chemicals, control of export of prohibited substances by country, etc.

The chemical industry in developing countries is undergoing a transition. The production and use of chemicals are increasing rapidly but are being managed improperly which results in a huge impact on the global environment. Furthermore, amidst the expansion of globalization and the supply network of the chemical industry becoming more complicated, the management of chemicals on an international scale is very important as domestic and overseas interdependence is strengthened. In this meeting, it was stressed that clear goals and a distinction index are needed for successful implementation after SAICM 2020. Items to be reflected in the SAICM implementation index will be discussed in the next meeting, and there was an opinion that a representative association that can review the SAICM implementation level in each region (Asia, Europe, North America, South America, and Africa) should be selected. Also, the necessity to examine the support for development of a chemicals management system considering the priority, proper management of chemicals and waste and improved awareness thereof and financial support in detail was raised.

TOPIC ②

● Amendment to the RC Global Charter

The RC Leadership Group will prepare the RC Global Charter, targeting the RC chemical groups in each country and seeking to obtain signatures from the directors of chemical associations and groups in each country. The RC Global Charter was presented for the first time in 2006 and has been continuously amended since 2014. The main contents of these amendments are to promise support for implementation of the RC Global Charter to reinforce RC activities by adding RC fundamental features to the previous contents of the RC global charter for CEOs of chemical companies. The amendments to the RC Global Charter are currently being prepared and opinions on the proposed amendments were exchanged in this meeting.

The signatories to the RC Global Charter committed themselves to strive to reinforce the RC actively by implementing the following six core elements on the company, people, technology and business.

- Company-wide leadership culture that actively supports safe chemicals management through the global RC initiative
- Protecting workers and the environment by constantly improving the environment, health and safety performance.

* Improving the safety of chemicals continuously throughout the security of facilities, processes and technology

- Reinforcing the chemicals management system by participating in compliance with the regulations on the safety of harmful chemicals and developing and realizing model cases
- Cooperating with users of chemicals and promoting RC activities among business partners for the safe, effective use of chemicals
- Participation of persons concerned and open communication on



safe operation and concerns, expectations and performance of products

- Contributing to sustainability by improving performance, expanding economic opportunities, developing innovative technology and resolving other social problems.

This global charter was introduced as an agenda item for discussion in the 2019 ICCA operating committee and the board of directors in the first half (April 2019, in Canada) and the final version will be shared in the 2019 RC Leadership Meeting in the second half (November 2019, in Korea).

TOPIC ③

● Cefic Rejuvenation Project and RC Maturity Model

Cefic has promoted the Rejuvenation project to lead the European chemical companies to voluntarily participate in the RC management system based on performance and contribute to improvement of the chemical industry's image and restoration of trust. The project is approaching the finishing stage. This project is planning to implement RC and establish maturity for constant development by connecting RC to the international standard and sustainability principles, and developing tools easy to access. The eight core values of this project are to unify, harmonize, simplify, strengthen, engrain, empower, share and improve. It has established the self-assessment tool and RC management system that are eco-friendly and can be applied flexibly based on local demand for all chemical companies. The RC self-assessment tool is composed of around 100 sessions. It received a positive evaluation as a result of testing on 52 companies in Europe. Using this tool, a company can easily check how much the company contributes with a score and graph by simply choosing either A or B, C, D on the questions of the self-assessment tool. The RC self-assessment tool is currently going through minor correction and the finished version will be shared with the RC council of each respective country.

TOPIC ④

● Capacity Building Activity

The ICCA's board of directors organized the Capacity Building Task Force composed of members of each leadership group in 2016 to help associates and groups of each country to conduct activities based on various topics including RC, regulatory collaboration, energy and climate change, etc. ICCA also aims to offer additional support to China, India, and African nations, which are designated as priority countries through collaboration with the UN Environment.

RC Major Capacity-Building Activities

- (Africa) ICCA T/F is promoting a project continuously with KAM to build an RC initiative.
 - RC New Zealand recommended KAM and the Kenya Chemical Association to adopt the UN chemicals classification and labelling standard and suggested the holding of an RC event based on improvement of transportation of chemicals.
 - ICCA capacity-building funds are used to promote RC in African countries expressing their interest in selecting IRC including Nigeria, Ghana, Mozambique, Ivory Coast, Tanzania, Zambia, Botswana, Namibia, etc.

- Kenya Chemical Association will apply for an observer qualification in the RC Leadership Group.
- (China) The Chinese industry is currently receiving huge pressure as fatal accidents continue. The Chinese government has, however, promised to adopt countermeasures.
 - Chinese Petrochemical Industry Foundation (CPCIF) is placing the priority on dispatching of employees of ICCA RC Leadership Group and has requested additional technical support for self-assessment and third-party investigation.
 - CPCIF is trying to reinforce communication with ICCA and remove obstacles to implementing RC.
- (India) Expanding RC targeting on SMEs, holding workshops for RC guidelines and code updates, enforcing security codes and providing trainings
 - India Chemical Industry Committee (ICC) seeks a way to support high-level forums to educate government officials on the chemical regulations in other countries.

The operating committee of ICCA emphasized to focus on the improvement of the support for manpower as well as the support through funds. For this, composing the pool of professional manpower is a task that RC Leadership Group should deal with.

It is necessary to discuss in depth later about how ICCA can select and support an influential project and what the cultivation of capacity building that satisfies ICCA's ultimate goals is. ICCA promised to be dedicated to support (1) the support to manage chemicals and support realization of RC in developing countries, (2) the building capacity between governments to manage the chemical regulations system and (3) the support for activities of each government and association to support certain problems including UNEA-4, etc.

TOPIC ⑤

• KRCC will hold an international event.

Lastly, KRCC announced the plan to hold the APRCC 2019(Asia Pacific Responsible Care Conference) event targeting on RC member groups. The main details of the announcement introduced the overview of the event including the background, schedule, location and program of APRCC 2019. RC member groups were requested to participate in the event.

APRCC has been held every other year from 1995 (Hong Kong) to promote long-term cooperative development including improvement of the chemical industry by increasing RC activities and sharing excellent execution cases in the Asia-Pacific region. It's the 16th event this year. Marking the 20th anniversary of RC promotion in Korea this year, the event will be held from November



07~08 at Seoul Westin Chosun Hotel. Approximately 300 Stakeholders from 14 RC member countries will participate. Furthermore, it has been confirmed to hold '2019 RC Leadership Meeting in the Second Half' in Korea. It is expected to significantly contribute to strengthening of the status and improvement of RC activities in the Asia-Pacific region by holding an international event. Long-term cooperative development including improvement of the image of the chemical industry by sharing excellent execution cases could happen. 🌱

APRCC Overview of APRCC Event

✔ **Event Name:** APRCC (Asia-Pacific Responsible Care Conference) 2019

✔ **Date:** November 7 ~ 8, 2019

✔ **Venue:** Grand Ballroom at Seoul Westin Chosun Hotel (1F)

✔ **Theme:** The Next Challenges for Responsible Care

주제 ① Present and future of Responsible Care

주제 ② Responsible Care and Sustainability

주제 ③ Counter measures and challenges Regarding plastic issues

주제 ④ Responsible Care and Regulation

주제 ⑤ Local community and communication

* Will be progressed with topic presentations by 3~4 persons and panel discussion for each topic.

✔ **Participants:** Approx. 300 managers of 14 RC member countries in the Asia-Pacific region (Korean-English simultaneous interpretation provided)

✔ **Official Website:** <https://www.aprcc2019.com/>



‘LEAVE NO-ONE BEHIND’ VERSION-UP OF THE CORPORATE ROLE

Corporate strategy learned from UN SDGs (Sustainable Development Goals)

“Leave no-one behind. We don’t leave our men or women in uniform behind.” This is what President Barack Obama said one day in 2014 when he exchanged a Taliban prisoner for Sergeant Bowe Bergdahl, who had been held hostage by the Taliban, the Afghanistan rebel forces, for five years to save him. The phrase ‘Leave no one behind’ from a Latin phrase, ‘Nemo Resideo’ is a phrase as old as the history of war. And this phrase appeared again in the UN in 2015. ‘Let’s make a world leaving no one behind!’ It is the slogan of ‘SDGs,’ a historical agenda officially selected unanimously by 193 UN members on September 25, 2015. There wouldn’t be any other slogan that expresses the will to solve actively better than this under the situation that challenging tasks to handle globally just like war. Today it has been four years since selecting SDGs, and a lot of companies in the world are quickly combining this new common paradigm of humanity with their business strategies. Without being satisfied just with improvement of brand value by securing an image as ‘a good company,’ they are making promotion of sustainable development their core strategy. Why should companies make SDGs their new business goals? It is because SDGs help them to discover new opportunities to develop by reminding



them of the risks they are facing.

According to the SDGs Compass that the UN Global Compact are providing as a SDGs implementation guide, a company devoting itself to SDGs can have a future business opportunities while seeking innovative solutions to the common challenges facing humanity. Through this, the company can secure strong sustainability while reinforcing relationships with important persons concerned and paving the same way for the direction of its domestic and overseas policy. The ‘Unilever Sustainable Living Plan (USLP),’ which Unilever, a global consumer goods company famous for brands including Dove, Vaseline, Lipton, etc. has been practicing since 2010, is a typical model case. USLP, which combines sustainability with business goals and strategies by promoting corporate social responsibility (CSR) on a corporate-wide scale, not an individual department scale, is also what increased Unilever’s reputation in the area of CSR and sustainable development. USLP, which has been based on the presumption that focusing on sustainability contributes to the growth of a company; reduction of expenses; and decrease in risk, has three goals: improvement of health and welfare, decrease of environmental footprint; and improvement of the standard of living. Under these goals, there are nine pillars including enhancement of health and hygiene; reduction of greenhouse gas and waste; and reduction of water consumption, all of which are composed systematically. (Picture 1)

[Picture 1] Three Goals and Nine Pillars of USLP

<p>IMPROVING HEALTH AND WELL-BEING FOR MORE THAN 1 BILLION</p> <p>By 2020 we will help more than a billion people take action to improve their health and well-being.</p> <p>> Explore our big goal</p> <ul style="list-style-type: none"> Health & hygiene > Improving nutrition > <p>We are taking action on the UN Sustainable Development Goals</p>	<p>REDUCING ENVIRONMENTAL IMPACT HALF</p> <p>By 2020 our goal is to halve the environmental footprint of the making and use of our products as grow our business.</p> <p>> Explore our big goal</p> <ul style="list-style-type: none"> Greenhouse gases > Water use > Waste & packaging > Sustainable sourcing > <p>We are taking action on the UN Sustainable Development Goals</p>	<p>ENHANCING LIVELIHOODS FOR MILLIONS</p> <p>By 2020 we will enhance the livelihoods of millions of people as we grow our business.</p> <p>> Explore our big goal</p> <ul style="list-style-type: none"> Fairness in the workplace > Opportunities for women > Inclusive business > <p>We are taking action on the UN Sustainable Development Goals</p>
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There are numerous cases where Unilever seized new business opportunities and made positive changes through USLP. For example, in 2017, Unilever made and has been practicing a pledge that they will make their all plastic packages to be 100% recyclable and fertilizable by 2025 to reduce the bad impact of plastic waste on the environment. As a part of the pledge, they are developing and trying to commercialize a technology this year that decomposes PET to a molecular unit by cooperating with a start-up in the Netherlands.

When development of this technology is completed, colored PET and PET with foreign substances that cannot be recycled now can produce clean plastic that can be recycled. Furthermore, in Indonesia, high-quality polymer production technology that makes new plastic bags by extracting polyethylene from disposable plastic bags is under trial application. Unilever is trying to make a recycling circulation cycle actually work by using a new technology through technical innovation. Furthermore, they are trying to create a sustainable business eco-system by opening such new technology to the outside.

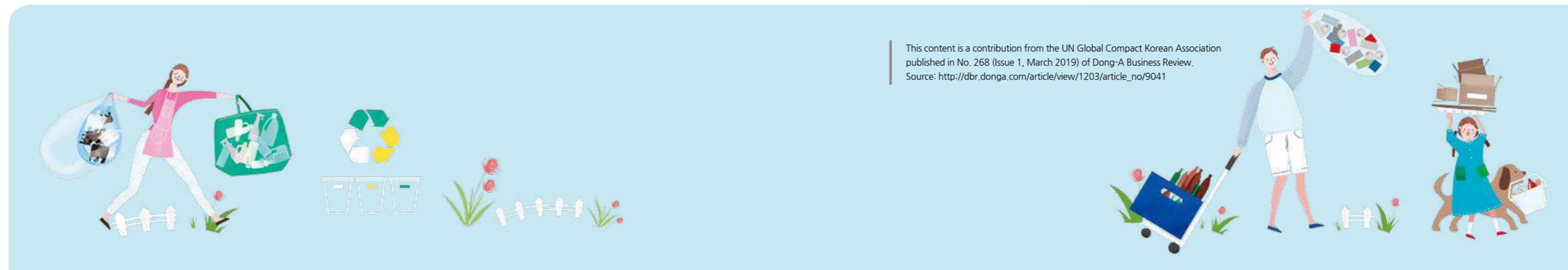
[Picture 2] Paul Polman, the president of Unilever, who visited Korea in 2018 as a vice-chairman of the board of directors of UN Global Compact



Unilever is also trying to reinforce transparency in the palm oil industry. Palm oil is vegetable oil extracted from non-food crops with excellent yield compared to the farmland area, but it causes chronic environmental problems and human rights problems due to wrong practices in the production and supply process. Unilever, which is the world-largest palm oil consuming company, is trying to reinforce traceability of their company's palm oil supply network and improve transparency of their partners with the detailed target goal, 'sustainable procurement,' to let consumers know that palm oil used for their products is eco-friendly and produced in a sustainable way. Unilever is a founding member and also a certified member company of the Roundtable on Sustainable Palm Oil (RSPO), which is a certification standard famous for its particularity. They obliged persons concerned to comply with the sustainability principles in the entire process of producing and distributing palm oil for their company by enacting sustainable palm oil procurement policies in 2016. Also in 2018, they disclosed the list of suppliers supplying palm oil to Unilever directly or indirectly and palm oil manufacturing factories on their company's website. Through these efforts, Unilever secured transparency for 1,600 palm oil producing factories in Unilever's expanded supply network and 88% of palm oil used by Unilever in 2018. They aim at achieving 100% transparency by 2019.

Introduction of the writer, UN Global Compact Korean Association

UN Global Compact is the world-largest voluntary corporate citizen initiative that was launched in July 2000 following a suggestion made by Kofi Annan, the former Secretary-General of the UN, at the World Economy Forum held in Davos, Switzerland in January 1999. Its purpose is to settle 10 principles in the areas of human rights, labor, the environment and anti-corruption, which are core values as global management practice and encourage implementation of UN agendas such as SDGs to present and develop social rationality of the company and market. The UN Global Compact Korean Association, which is a network established in September, 2007, supports activities by Korean members to implement the 10 principles of the UN Global Compact. 🌱



This content is a contribution from the UN Global Compact Korean Association published in No. 268 (Issue 1, March 2019) of Dong-A Business Review. Source: http://dbr.donga.com/article/view/1203/article_no/9041

We are committed to accelerating progress towards the United Nations 17 Sustainable Development Goals.



More than 700 million people still live in extreme poverty and struggle to fulfill the most basic needs like health, education, and access to water and sanitation. ICCA is committed to helping end poverty and prevent human exposure to hazardous substances.



There are nearly 800 million people who suffer from hunger worldwide, the vast majority in developing countries. Through the power of chemistry, ICCA is helping end hunger, enhance food security, improve nutrition and promote sustainable agriculture.



Ensuring healthy lives and promoting well-being is essential to sustainable development and building prosperous societies. ICCA is committed to continuing advancements in chemistry that enable people to live longer, healthier lives.



Education is the key to achieving many other SDGs. Giving people access to a quality education enables them to break from the cycle of poverty, reduce inequalities and empower people everywhere to live more healthy and sustainable lives.



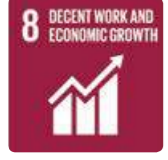
Gender equality is not only a fundamental human right, but a necessary foundation for a peaceful, prosperous and sustainable world. ICCA is committed to helping achieve gender equality and empower women and girls around the world.



Nearly 2.4 billion people lack access to basic sanitation services. Water scarcity affects more than 40 percent of the global population and is projected to rise. ICCA is committed to ensuring people around the world have access to safe water sources and sanitation.



Burning carbon fuels produces large amounts of greenhouse gases, which cause climate change and have harmful impacts on people's well-being and the environment. ICCA is committed to ensuring access to affordable, reliable, sustainable and modern energy for all.



470 million jobs are needed globally for new entrants to the labor market between 2016 and 2030 to keep up with the growth of the global working age population. ICCA promotes inclusive and sustainable economic growth and quality jobs that stimulate the economy without harming the environment.



Economic growth, social development and climate action are heavily dependent on investments in infrastructure, sustainable industrial development and technological progress. ICCA is building resilient infrastructure, promoting inclusive and sustainable industrialization and fostering innovation.



Inequality threatens social and economic development, harms poverty reduction and destroys people's sense of fulfillment and self-worth. ICCA is committed to reducing inequalities around the world and ensuring people are not excluded from opportunities, services and the chance for a better life.



Half of humanity - 3.5 billion people - live in cities today. By 2030, almost 60 percent of the world's population will live in urban areas. ICCA is committed to making cities inclusive, safe, resilient and sustainable.



Sustainable consumption and production promotes resource and energy efficiency, sustainable infrastructure, and provides access to basic services, jobs, and a better quality of life for all. ICCA is committed to sustainable consumption and production, and aim to do more and better with less.



Climate change is caused by human activities and is threatening the way we live and the future of our planet. By addressing climate change, we can build a sustainable world for everyone. But we need to act now. ICCA is committed to taking urgent action to tackle climate change and its impacts.



Marine litter is a serious global challenge that threatens ocean ecosystems. Increasing levels of debris in the world's oceans are having a major environmental and economic impact. ICCA is committed to protecting, restoring and sustainably using the world's oceans, seas and marine resources.



Forests cover nearly 31 percent of our planet's land area. From the air we breathe, to the water we drink, to the food we eat - forests sustain us. ICCA is committed to sustainably managing forests, combating desertification, halting and reversing land degradation and halting biodiversity loss.



Peaceful, just and inclusive societies are necessary to achieve the SDGs. ICCA supports effective and all-encompassing public institutions that can deliver quality education and health care, fair economic policies and inclusive environmental protection.



Representatives from government, civil society, science, academia and the private sector must work together. Together, we must mobilize existing and impending technology, financial and capacity building resources and engage in multi-stakeholder partnerships to accelerate progress in achieving the SDGs.

Members Focus



SK 머티리얼즈 | SK Materials

Pursuing the establishment of 'a subsidiary-type standard workplace for the disabled'

SK Materials, which is a company specialized in special gas for the semi-conductor process, is taking the lead to establish 'a subsidiary-type standard workplace for the disabled' to create jobs for the disabled. SK Materials said that a subsidiary-type standard workplace for the disabled provides quality jobs for the disabled by having convenient facilities for the disabled and offering salaries higher than the minimum wage. For this, SK Materials is the fourth company in the SK Group establishing a subsidiary-type standard workplace for the disabled, following SK Hynix, SK Innovation and SK Siltron. SK Materials and Korea Employment Agency for the Disabled concluded an MOU to establish a subsidiary-type standard workplace for the disabled at the Seoul Customized Training Center last May 31. Under this agreement, both companies will cooperate mutually to establish a successful subsidiary-type standard workplace for the disabled by setting up infrastructure to employ disabled persons and introducing tasks for severely disabled people. On the other hand, SK Materials was approved to join as a new member in the 1st board of directors and the 20th regular general meeting(February 14) in 2019 of KRCC. They are expected to achieve the global-level SHE culture and performance by implementing RC in the future.

금호석유화학 | Kumho Petrochemical Co., Ltd.

Appointed President Moon Dong-joon and Vice-President Kim Sun-kyu

Kumho Petrochemical Co., Ltd. announced on April 8 the appointment of Moon Dong-joon, a former CEO of Kumho P&B Chemistry as a CEO of Kumho Chemistry Co., Ltd. and Kim Sun-kyu, a former vice president of POSCO Daewoo as a management director. New CEO Moon Dong-joon, who was born in 1954, graduated at Huimoon High School and the department of agricultural economics of Korea university. He joined Kumho Petrochemical Co., Ltd. in 1979, and since then he has been working in the President's Office, Planning Department and Overseas Sales Department. Also, he had worked as an executive in Kumho Mitsui Chemistry from 2002 and in Kimho P&B Chemistry from 2010. He had worked as a CEO in Kumho P&B Chemistry from 2012 to March this year. President Moon is also the president of the Korea Petrochemical Industry Association. New Management Director Kim Sun-kyu, who was born in 1957, graduated from Daejeon High School and Department of Trade of Seogang University. He joined Daewoo in 1982 and took in charge of the sector of crude oil, petroleum and chemical product. He was the Material Chemistry Director of POSCO Daewoo(currently POSCO International) from 2017 to the early this year. The nomination of Vice-President Kim Sun-kyu is the second recruitment of an outsider by Kumho Petrochemical Group, following the new CEO Shin Woo-sun. According to the official in Kumho Petrochemical Co.,

Ltd., "these personnel affairs of the presidents have become an important starting point to reinforce innovation and internal stability internally and externally. We are planning to concentrate our capacity to improve this year's results continuously while maintaining the competitive advantage of a major product under the new structure."

Overcoming the worsened internal and external environment with R&D

Kumho Petrochemical Group is concentrating its capacity on achieving meaningful growth this year by innovating research under a global economic situation where external uncertainty continues. Kumho decided to lead an ultimate rebound by strengthening global partnership and creating constant results in each sector with high-performance products manufactured based on leading technology and cooperation of the technical support department composed of professional manpower. Kumho Petrochemical Co., Ltd is accelerating the high-value added research of solid synthetic polymer products which are their main sector. Butadiene Rubber(BR) which is a main product of Kumho Petrochemical Co., Ltd., is widely used for automobile tires, etc., and F-LiBR product which applies the technology-improving fuel efficiency by 20~40% to LiBR material using a lithium catalyst for tires is being developed this year. F-LiBR has excellent resistance to tire blowouts as it has low heating characteristics, while enhancing the fuel efficiency of previous BR. Improved fuel efficiency can be expected in using it as TBR for tires of heavy trucks and buses. Kumho Petrochemical Co., Ltd. aims at commercializing this product at the end of this year. Kumho P&B Chemistry will complete transfer of their research industry to Kimho Hakwoon Complex by this year and accelerate research on composite resins including higher value-added epoxy. Kimho P&B Chemistry will have a base in the capital area once the transfer is completed so it is expected that they can reinforce synergies between the previous workplace in Yeosu and research along with the production, sales and distribution sector.

대한유화주식회사 | Korea Petrochemical Ind. Co., Ltd.

Korea Petrochemical Ind. Co., Ltd. spending 43 billion won on eco-friendly facilities'

Korea Petrochemical Ind. Co., Ltd. introduces new facilities to improve the environment by spending 43 billion won for Onsan Factory. It is replacing previous facilities that can be still used. It is construction to replace those with facilities more stable for flames and odors to settle people's anxiety. Korea Petrochemical Ind. Co., Ltd. did T/A on Onsan Factory for 30 days from April 06 to May 05. It includes the final finishing construction which introduces approximately 43 billion won worth of new facilities such as a ground flare stack (a device burning gas to remove toxicity and releasing it to the air) and a super steam boiler to prepare for situations such as emergencies that can occur while re-operating a factory. Korea Petrochemical Ind. Co., Ltd. did NCC extending construction that increases the total production of ethylene from 470,000 tons to 800,000 tons per year in June 2017 by investing 495 billion won. The company plans to install a more stable grand flare stack and a super steam boiler instead of the previous flare stack. A spokesperson explained, "We will keep operating the factory safely in the future after we complete this T/A with safety as a top priority."

LANXESS | Lanxess Korea

Released Durethan Performance new material for heavy vehicles

Lanxess, a German special chemicals company, announced on May 13 the release highly reinforced polyamide 6 based

'Durethan Performance' new material that can improve durability of the vehicle lightening structure, engineering parts, electronics car battery module structures, etc. Durethan Performance, a new material that is high stiffness thermoplastic reinforced with glass fibers, has excellent durability with the inner skin against repeated load. It can be applied to parts exposed to vibration for a long time including electronic vehicle battery module structures, engine oil fans, oil filter modules and end caps, engine and sash mounts, damper pistons, seat shells, etc. It is also good for parts receiving high dynamic stress such as gear wheels. Polyamide 6 based Durethan BKV50PH2.0 and Durethan BKV60PH2.0EF provides a mechanical property as excellent as polyamide 66 material. Since it does not need to reinforce glass fibers additionally, it does not increase the density or weight of an applied product. Han Sang-hoon, a director of the engineering plastic business department of Lanxess Korea, explained that "the new Durethan Performance product group has high-flow characteristic as it is light and has an excellent inner skin and it also has price competitiveness. It could replace polyamide 66 in the wide sector such as automobile, electronic appliance components and aviation."

LOTTE CHEMICAL | Lotte Chemical

CEO of Lotte Chemical Lim, Byung-heon "aiming at achieving 50 trillion won in sales and becoming a No. 7 chemical company in the world by 2030"

Lotte Chemical declared to be No. 7 global chemical company in the world with 50 trillion won in sales by 2030. Along with its collaboration with Lotte Chemical and Hyundai Oil Bank, Lotte Group Chemistry BU aims at boosting domestic demand through various plans to develop domestic industries by investing approximately 3.7 billion won in Korea by 2022, creating 30,000 jobs and investing in chemistry-related start-up companies. Lotte Chemical held the HPC Investment Cooperation Conclusion Ceremony with Hyundai Oil Bank at Lotte Hotel in Sogong-dong, Seoul last May 24. They decided to progress the HPC(oil refining by-product based petrochemical factory) project through Hyundai Chemical, which is a joint-venture company of Lotte Chemical and Hyundai Oil Bank last May. The HPC Factory will be built on a 200,000-pyeong site within the Daesan factory of Hyundai Oil Bank by investing 2.7 billion won on factory construction. It is prospected to create jobs for about 26,000 people including labor force during the construction period. CEO of Lotte Chemical Lim Byung-heon commented at the conclusion ceremony that "Lotte Chemical is trying to increase production facilities of factories in Ulsan and Yeosu while constructing the HPC Factory. We will become the No. 7 global chemical company in the world with 50 trillion won in sales by 2030 by continuously increasing domestic investment along with expanding global production sites for diversification of raw materials."

Completed the construction of a mega-sized petrochemical complex in the center of the U.S. shale revolution

Lotte Chemical has started to reinforce global competitiveness while constructing and operating a large petrochemical complex in the largest oil refinery industrial area in the USA for the first time among Korean companies. Lotte Chemical announced on May 9 that it held a completion ceremony for Lotte Chemical ECC and EG factories at Lake Charles in Louisiana, USA. Lotte Chemical held a groundbreaking ceremony and started the official construction on June 2016 after concluding a basic agreement on an ECC joint venture in February 2014. They built a large complex as big as 152 football stadiums(approximately 102, 0000 m²) in the USA for the first time among Korean chemical companies after three years

of construction. Lotte Chemical will produce 100 million tons of ethylene per year in the new ECC factory and 700,000 tons of EG in the EG factory in the USA. The official of Lotte Chemical explained, "We have minimized the risk depending on oil price fluctuations and built stable production cost competitiveness by reducing dependence on naphtha which is the previous raw material and increasing the ratio of using gas materials through full-scale operation of these factories in the USA. We have also reinforced global competitiveness by diversifying raw materials, production bases and sales regions." He also added that "The global ethylene production size of Lotte Chemical has become No. 1 in Korea and No. 7 in the world as it became approximately 4.5 million tons after completing the construction of the U.S. factories. We will do our best to become a global chemical company through global production bases located worldwide including Uzbekistan, Malaysia, Indonesia, etc."

SKC | SKC

Eco-friendly PET bottle packing material, acknowledged for its excellence in the USA.

The first product that has applied the eco-label of SKC has been acknowledged for its excellence by APR, with SKC announcing that APR presented the APR Showcase Award for the dishwashing detergent of Colgate-Palmolive, which is a global household item manufacturer. It used the SKC eco-label as a packing material at the 2019 APR Members General Meeting held by APR in Washington D.C., last March 11. It was told that APR highly rated the point that it has excellent recyclability and performance of the packing material at the same time. SKC's eco-label is recyclable PET bottle packing material developed by SKC Inc. which is SKC's U.S. corporate, for the first time in the world. Transforming the idea that labels should be taken off and thrown away, it can be recycled with PET bottles if using ink washed with recycling process wash water because it uses the same material with the PET bottle. If using the SKC eco-label, there is no waste and therefore no environmental pollution and the quantity of recycled PETs increases so it is eco-friendly. It does not require additional costs since there is no need to change the existing facilities. SKC eco-label received an official certification from APR in July 2016 as its excellent recyclability is recognized. SKC Ink will reinforce marketing for SKC eco-label taking this award as an opportunity. The company is seeking to receive certification from the European PET Bottle Platform (EPBP) and advance into the global market. A spokesperson for SKC Ink explained, "global beverage and household item companies are currently presenting the goal to increase the recycling rate of not only PET bottles but also packaging. We will achieve commercialization quickly by informing the recyclability and innovation of SKC eco-label to more global clients and providing the best technical support to clients with which we are discussing an introduction plan."

AXALTA | Axalta Coating Systems Korea

Concluded the Industry-Academia cooperation agreement with Inha Technical College on cultivation of excellent manpower... and also donated training aids.

Axalta Coating Systems Korea has concluded the Industry- Academia cooperation agreement with Inha Technical college to cultivate excellent manpower last May 13. This agreement is the Industry- Academia cooperation MOU to cultivate excellent manpower in the area of automobile coating. Both institutions have agreed to cooperate actively to try to improve students' automobile coating techniques through ▲support for Industry-Academia cooperating work experience, field trip

and employment and foundation, ▲cooperation on joint development of curriculum and text books and ▲promotion of other cooperative projects and exchange. Furthermore, Axalta Coating Systems Korea promised to donate Spies Hecker Permahyde Hitech water soluble paint, which is premium automobile repairing paint of Axalta Coating Systems Korea and agitators for education of students of the automobile department of Inha Technical College. On the other hand, Axalta, which is a global coating company, is providing innovative, colorful, beautiful, sustainable solution to customers. Inha Technical College operates various educational programs and cultivates industrial professional technical manpower based on development of joint curriculum with corporates through concluding MOUs with excellent companies in Korea.

LG화학 | LG Chemistry

'Accelerating' penetration into the Chinese market with higher-value added products and technology

LG Chemistry is speeding up penetration into the Chinese market with differentiated higher-value added products and technology. LG Chemistry announced that it participated in 'China Plus 2019' held in Guangzhou, Guangdong Province, China on May 21~24. China Plus is the largest international plastic and rubber industry exposition in Asia. About 4,000 global companies from a total of 40 countries participated. LG Chemistry will have a 358m²-sized booth and exhibit petrochemical products, batteries and carbon nano tubes(CNTs) with the theme of 'smart live solution.' In particular, LG Chemistry will provide various facilities to attract actual customers at this exposition. They will place a digital signage helping the understanding of customers in each exhibition zone. Visitors can check detailed product information using QR codes attached on various locations of the booth. Furthermore, they will expand the customer meeting lounge significantly to improve smooth customer service and counselling service. LG Chemistry will exhibit a color-chip structure emphasizing realization of accurate colors of plastic materials in the middle of the booth and also introduce a color design factory accurately realizing a particular color to a material on a screen according to customer requests. The future automobile mock-up where automobile component materials technology is accumulated will be exhibited on the right side of the booth and the automobile component materials will be always displayed on a large screen.

Hosting the Chemical Playground 'to cultivate future talented people in science'

LG Chemistry announced that they hosted 'Interesting Chemical Playground' on May 16 by inviting 160 students in fourth and fifth grade in Dorim Elementary School near their main office in Yeouido. Interesting Chemical Playground is an experience-type social contribution activity hosted by LG Chemistry and Korea Food for the Hungry International. It was hosted to increase the interest in the environment and cultivate future talented people in science through chemical experiments connected with the curriculum. It has been held for five years since 2015 and total 4,400 elementary school students have participated so far. This year, the event will be held for total 1,200 students at seven elementary schools near LG Chemistry's places of business across the country. On this day, LG Chemistry consisted of the Chemical Playground with a total of four experience halls and conducted various scientific experiments and character cultivation education. do our social responsibility as a representative chemical company leading the Director Park Jun-seong in charge of external cooperation of LG Chemistry explained, "We will market by conducting social contribution activities continuously for elementary, junior high and high school students in the future." On the other hand, LG Chemistry will operate 'Visiting

Chemical Playground,' which implements educational kit activities and prerequisite learning mentoring, as the educational mentor group composed of around 60 college students visits children's centers during the vacation by expanding the previous program.


이수화학 | Isu Chemical Co., Ltd.

Expediting the improvement of profits based on IPA which is their main product

Isu Chemical Co., Ltd. is expediting the improvement of profitability by putting up precision chemical products as main business. Isu Chemical Co., Ltd. discovered on April 8 that Isopropyl Alcohol (IPA), which is a precision chemical product developed by themselves, showed strength in the sales of the 4th quarter of the last year and the last year's accumulated sales was 38.7 billion won, increasing by 50% compared to the last year. In 2006, Isu Chemical Co., Ltd. succeeded in developing its gown technology for the IPS production process using acetone as a material unlike the previous propylene process. There are a total of two companies, including Isu Chemical Co., Ltd., that are producing IPA in Korea. IPA is being used as a solvent for raw materials of industrial paints and reagents and electronic material cleaning solvent printing ink. The market demand worldwide is about 1.5 million tons per year. Since an increase in IPA profits is expected to continue during this year again, following the last year, Isu Chemical Co., Ltd plans to establish it as a main cash-cow item along with TDM. The spokesperson for Isu Chemical Co., Ltd. explained, "The price of propylene is rising so acetone-based IPA products will become more competitive and its strength will be continued. Isu Chemical Co., Ltd. finished EU REACH certification which is the mandatory course to sell IPA in Europe so we will maximize our profits by diversifying global sales channels."

한화케미칼 | Hanwha Chemical Corporation

The secrets of safe management of Ningbo Factory.

High-ranking officials of Zhejiang and people from its affiliated organization visited Ningbo Factory's PVC factory last April 12 to learn the secrets of safe management of Hanwha Chemical Corporation. These officials of the Chinese local government took a look around the waste water separation system equipped with automatic valves and alarms and the waste water recycling system that recycles half of waste water. It is said that they kept asking about Hanwha Chemical Corporation's know-how on operating the safety management system that can handle sudden accidents. The visit by the officials of the Chinese local government to Ningbo Factory is deeply associated with recent chemical accidents that occurred in succession in China. There was an explosion in the factory manufacturing agricultural chemicals in Jiansu last March, and a gas leak accident in the thermal material factory in Shandong, resulting in damages to local residents. There was also a boiler exploding accident in Xinjiang last April 8. Due to these accidents, the opinion that the safety standards of the chemical factory should be strengthened has become dominant in China. For this, Jiansu Providence will reduce 4,500 chemical factories in the region to 2,000 by next year by reinforcing the safety standards on the chemical standards and will grant operation permission only to under 1,000 chemical factories in 2022. A spokesperson for Hanwha Chemical Corporation said, "The Chinese's government's high-ranking officials' visit to Ningbo Factory is explained as it is to show a model case of safety management to the directors of each institution under Zhejiang Province. We will do our best for safety management in the future by introducing various automation systems." 

RC Activity NEWS

ISSUE NO. 42



● Holding the 1st Board of Directors and the 20th regular general meeting in 2019

KRCC held 'the 1st Board of Directors and the 20th Regular General Meeting in 2019' with around 50 participants including executives and employees of member companies, RC coordinators, people concerned in the chemical industry, along with President Chae Jong-kyung, on Thursday, February 14, 2019 in the Orchid Room at Westin Chosun Hotel. In the regular general meeting this day, four cases including (1)2018 business and settlement of accounts report (2)2019 business plans and accounts budget (plan), (3)a case of approving joining of a new member (SK Materials) and (4)a case of improving the executive were deliberated and decided in its original form of the secretariat.

● Holding the 1st and 2nd operating committee(in writing) in 2019

KRCC held 'the 1st and 2nd operating committee in 2019' with the director and members of the RC operating committee. As major agendas, new joining of SK Materials, a report on the holding of '2019 Open! Interesting Chemical World' and its budget(plan), a plan to change a RC newsletter publishing system and matters related to holding APRCC 2019 were deliberated and were decided in their original form by the secretariat.

● Holding of the 1st executive committee in 2019

KRCC held the 1st executive committee in 2019 with 11 participants including the chairman of the executive committee Park In (director of LG Chemistry) on Wednesday, March 27, 2019 in the main meeting room of the Korea Petrochemical Industry Association. In the committee this day, the current status of the checklist of RC 6 codes (process safety, safety and health of workers, environmental protection, transportation safety, awareness of the local community and emergency response and product responsibility) made since 2013 and its test application plan were discussed. The RC checklist assessment tool have been completed in 2018 and distributed by booklets and published on the homepage of RC. After test-applying to members, it will be presented by holding the executive committee. Matters to improve and supplement the checklist and references by applying to the place of business finally will be updated.



● Holding the meeting for the teachers' groups hosting 2019 Come! Fun World of Chemistry

KRRC held a meeting for the teachers' groups hosting '2019 Come! Fun World of Chemistry' with the chairman of the operating committee Lee, Hoon-sin (director of Dow Chemical Korea) and 10 teachers from the hosting teachers' groups in three areas (Seosan, Yeosu and Ulsan) on Tuesday, February 26, 2019 at T1 at Seoul station. In this meeting, the result of the event of 2018 and the plan to promote the event in 2019 were discussed. The topic of the event of 2019 has been decided as 'clean environment, a promise of the chemical industry!' and it was determined to develop experimenting programs by selecting sub-topics related to it in each area.



● Implementing the RC checklist pilot project

KRCC promoted to test-apply the RC checklist which has been fully developed in 2018 to a place of business to draw matters to improve on Thursday, April 25, 2019. Ugimak Korea, which was incorporated as a subsidiary of LG Chemistry on October 2018, was selected as a place of business to apply a pilot project. The checklist has been inspected focusing on the workers' safety and health codes with a total of 21 participants including CEO of Ujimak Korea, Moon Dong-guk, as well as Kim Myung-gi from LG Chemistry, RC Secretariat, etc. Regarding its major contents, a plan to inspect harmful risk factors and improve by themselves through workplace diagnosis was disclosed and the matters to improve the RC checklist were drawn up. The RC checklist will be examined and supplemented later by applying drawn matters for improvement and implementing an additional pilot project.



● Holding the 2nd Board of Directors (Sport Group) Meeting in 2019

KRCC held the 2nd board of directors in 2019 to activate the network of executives of the board of directors and discuss the 20th anniversary commemorative event of RC on Saturday, June 1, 2019 at Pine Creek CC. They also shared the information on APRCC2019 international event which will be held in November this year and the current status of sponsors.



RC Activity

NEWS

ISSUE NO. 42

Current Status of APRCC2019 Sponsors

Platinum. Kumho Petrochemical Co., Ltd., Dongseo Petrochemical Co., Ltd, Lotte Chemical, SK Global Chemical Co., Ltd., LG Chemistry, Hanwha Chemical Corporation, Hanwha Total, KOCIC, KPIA

Gold. Yecheon NCC, Dongwoo Fine Chem, Covestro Korea, Korea Petrochemical Ind. Co., Ltd., DuPont Korea

Silver. Lotte MCC, Lotte Fine Chemistry, SK Materials, SKC, LG MMA, OCI, Kolon Industry



● Participating in the 2019 ICCA RC Leadership Group Meeting in the first half of the year

The 2019 RC Leadership Group meeting in the first half of the year was held over a period of two days, Tues., May 07~Wed. May 08, in Buenos Aires, Argentina. In this meeting, 26 members of RC in the world including the chairman of RCLG Baudouin Kelecom participated and shared the current issues of RC and discussed an implementation plan. The relationship between and strategies for RC and sustainability, introduction of the rejuvenation project and self RC assessment tool of European Chemical Industry Association, the result of and plan to execute the budget for the support for 2019 capacity building, the current status of the cooperation with UN Environment and the process of revising the RC Global Charter were discussed. Also, it was decided to hold the '2019 RC Leadership Group Meeting in the second half' on November this year in Seoul. For this, KRCC reviewed matters to promote and discuss. Furthermore, KRCC informed about APRCC2019 event held in succession and suggested to recommend a presenter.



● Safety Management Seminar for Partners in the Chemical Industry

KRCC held 'the safety management seminar for partners in the chemical industry' with 30 executives and employees of members on Wednesday, June 12, 2019 at Emble Hotel in Yeosu. In the seminar, lectures and discussions on 'why is the safety of partners important?' and 'Six steps of effective partner safety management process and core elements of safety management' were conducted. Participants assessed the meeting that they could learn about the importance of the partner's risk assessment, detailed safety management methods and DuPont's safety culture(FELT leadership, etc.) and it was helpful to improve safety awareness by sharing experiences and information between participants. KRCC will hold a seminar for executives continuously to prevent serious industrial accidents and establish advanced safety culture in the chemical industry in Korea. 🌱

KRCC's Major Events in 2019

- **2019 2nd Operating Committee**
 Date: Tue, July 09, 2019, 16:00
 Venue: Meeting room of the Council
 Contents: RCLG participation result and checklist Sharing of the result of test application, etc.
- **Chemical Industry Sustainable Development Forum**
 Date: Thurs, September 26, 2019, 10:00
 Place: Meeting Room B of the Korea Chamber of Commerce and Industry
- **2019 Come! Fun World of Chemistry**
 Sat, August 31, 2019
 Seoyeong High School in Seosan
 Sat, September 21, 2019,
 Petrochemistry High School in Yeosu
 Sat, September 28, 2019,
 Sincheon Elementary School in Ulsan
- **RC 20th Anniversary Event**
 Date: Wed, November 06, 2019 18:00~20:00
 Place: Orchid Room at Westin Chosun Hotel
- **2019 RCLG(Responsible Care Leadership Group)Meeting**
 Date: Tue, November 05~Wed, November 06, 2019
 Place: The Westin Chosun Seoul
- **2019 APRCC(Asia-Pacific RC Conference)**
 Thurs, November 7~Fri, November 8, 2019
 Grand Ballroom at Seoul Westin Chosun Hotel



Members

Regular Members

Air Liquid Korea
 AK Petrochemical
 ARKEMA
 Axalta Coating Systems Korea
 BASF Korea
 Capro
 Conell Bros
 Covestro Korea
 Daelim Industrial
 Daesung Industrial Gases
 Dongwoo Fine Chem
 Dow Chemical Korea
 Dow Corning Korea
 Dupont Korea
 Eastman Fiber Korea
 Evonik Korea
 GS Caltex
 Hanhwa Chemical
 Hanhwa Total
 Hanju
 Hansu
 Hyosung Chemical
 Ineos Styrolution Korea
 ISU chemical
 Kolon Industries

Korea Alcohol Industrial
 Korea ASK Chemical
 Korea Petrochemical
 KPX Chemical
 Kumho P&B Chem
 Kumho Petrochemical
 Lanxess Korea
 LG Chem
 LG MMA
 Lotte Advanced Materials
 Lotte BP Chem
 Lotte Chem
 Lotte Fine Chem
 Lotte MCC
 Merck
 OCI
 Polymirae
 Samnam Petrochemical
 SH Energy Chemicals
 SK Global Chemical
 SKC
 SK Materials

Taekwang
 Tongsoh Petrochemical
 TRINSEO KOREA
 Yeochun NCC
 Yongsan Chemical

Associate Members

Korea Chemicals Management Association
 Korea Chloride Alkali Industry Association
 Korea Fertilizer Industry
 Korea Petrochemical Industry Association
 Korea Petroleum Association
 Korea Specialty Chemical Industry Association
 Korea Testing & Research Institute
 Metropolitan Process Safety Council

Information on APRCC 2019

On the occasion of the 20th anniversary of foundation, KRCC holds the international meeting, the **Asia Pacific Responsible Care Conference 2019**, as follows to activate RC and improve the domestic and overseas status. We look forward to meeting a lot of executives and employees of our members.



Event name: APRCC 2019
 (Asia-Pacific Responsible Care Conference 2019)
 Date/Venue: Thurs, November 7~Fri, November 8, 2019
 Grand Ballroom at Seoul Westin Chosun Hotel (1F)
 Event Topic: The next challenges for Responsible Care
 Participants: Approx. 300 managers of 14 RC members in the Asia-Pacific region (Korea-English simultaneous interpretation provided)
 Fee: US\$ 400 (USD 270 four early bird)
 Website: www.aprcc2019.com

* Due to limited seating in the event hall, applications for participation will be closed in the order of receipt. If you are a member, please contact the secretariat.