Nation hopes to share international water technology

MIYOSHI MATSUHATI

Tokyo will host the IWA World Water Congress & Exhibition from Sunday to Friday. The event is expected to attract 6,400 people from more than 100 countries to discuss technology, public policies, international collaboration and other subjects to achieve sustainable water management practices.

The International Water Association is a large international organization that aims to secure water supplies and manage water quality around the world.

The first edition of the biennial IWA World Water Congress & Exhibition was held in Paris in 1998, followed by meetings in Berlin, Munich, Marrakesh, Beijing, Venice, Monterrey, Busan, Lisbon and Vienna.

It is significant that Tokyo hosts the event because Japan is home to important technology for general water management and has experience tackling water-related hazards and other water-related issues.

The event is a place for Japan to show its contribution to the world.

Japan has been the world’s top donor in the field of water. We have made contributions to helping people in need, as well as soft infrastructure such as providing basic infrastructure on water and training human resources,” according to a translation of the MITI paper. Japan has taken initiatives in tackling global challenges on water. It is expected that Japan will continue to play a major role by way of advanced technologies and know-how.

Expectations are high for Japan. Demand for water will continue to increase in the world and our increasing population, economic development and improvement of quality of life. In 2015, roughly 600 million people had access to a water supply service and an estimated 2.4 billion people were without sanitation facilities.

According to the MITI paper, the world is expected to have a 40 percent shortage of usable water resources by 2050, the year cited by the Japan International Cooperation Agency. Japan’s contribution to secure water supply is also in line with Sustainable Development Goals that the United Nations adopted in 2015. Goal 6 is to “ensure availability and sustainable management of water and sanitation for all.”

Japan provided official development assistance worth about $5.3 billion in the field of water and sanitation from 2012 to 2016, making the world’s third-largest economy the largest contributor with a 5.2 percent share, followed by Germany’s 7 percent. France’s 1.5 percent and the U.S.’s 4.7 percent, according to the Cabinet Secretariat citing data from the Ministry of Foreign Affairs.

Still, Japanese companies are squeezed out by major global companies such as Veolia Water SA and Suez SA — which produce provides, wastewater-related services — and smaller local companies in developing countries that have cost competitiveness.

As such, Japanese companies do not have a high market share globally and thus have plenty of room to expand. The market size of water-related fields, including water supply systems, sewage systems and desalination, was $97 trillion globally in the year ending in March 2017, with Japanese companies accounting for $27.8 million, obtaining only a 4 percent as reported by the Cabinet Secretariat citing data from the Ministry of Foreign Affairs. The MITI document suggests Japanese companies have a chance to expand globally with their advanced technologies.

For example, Kubota Corp., the principal sponsor of the IWA World Water Congress & Exhibition 2018, has a technical advantage with its membrane bioreactor (MBR) systems that can remove water through a special membrane. An MBR system does not produce drinking water, but processes sewage water into clean water that is used to go through additional purification processes to be safe for consumption.

An alternative method of cleaning sewage-water is the MBR system in the conventional adsorption-desorption (CAS) system that causes environmental impacts. The MBR system is more effective, but makes water much cleaner than CAS. It also takes less space and is easier to maintain.

“Sewage water processing equipment is to be used as long as 20 or 30 years and thus maintenance is very important. We would like (our potential customers) to think of the importance and use our products,” said Shunichi Fukahori, general manager of Kubota’s Environmental Systems Business Unit.

Kubota has business chances where environmental regulations are strict and potential customers cope for high-quality sewage-water cleaning systems. For example, Kubota shared that Europe has regulations allowing very small amounts of chlorine in water, which makes an MBR system more desirable because it does not require the use of chlorine, adding that China is also very strict on the cleanliness of processed water.

Fukahori also said there is a high demand for renewable water solutions and systems producing clean water in the Middle East because of the low rainfall.

He expressed that Kubota is one of the biggest MBR system makers and commands about 15 or 17 percent of the global system market in rural areas. These MBR systems market in Japan, China, the U.S., France, Germany, Mexico and other countries.

Another product that gives Japan a technical edge over other countries in jokaso — which is a sewage cleaning process — is the government’s approval to sell jokaso.

The Ministry of the Environment’s approval to sell jokaso was supported by multiple governmental and business initiatives, in large part due to the government’s approval to sell jokaso.

“Jokaso” is a Japanese word meaning a device that deals with sewage. Jokaso is a sewage cleaning process and can be used to improve the water quality of the sewage water. The government’s approval to sell jokaso was supported by multiple governmental and business initiatives, in large part due to the government’s approval to sell jokaso.

“Jokaso is very clean, and it is said that jokasos have a high market share in the world. For example, airports have a relatively strong demand for sewage systems, and airports have a relatively strong demand for sewage systems. For example, airports have a relatively strong demand for sewage systems, and we can expect to see a strong demand for jokaso.”

Jokaso, a breakwater speaker on Sept. 27.

Some 200 exhibitors will also be displaying their water-related products at the exhibition hall. There will be a Japan Pavilion featuring Japanese companies and organizations, as well as business activities and an exhibition, which will present a golden opportunity for Japanese companies to promote their world-leading technologies.

This year is a landmark year for Tokyo. We are celebrating the 150th anniversary of the renaming of Edo to Tokyo. During those many years, Tokyo overcome many difficulties and grew dramatically in many areas including economy, culture, life and safety. Tokyo also has the biggest and most advanced technological achievements.

The Tokyo Metropolitan Government will also use the insights and outcomes of this congress for the 2020 Olympics and Paralympic Games Tokyo 2020 and for Tokyo’s sustainable development.

My best wishes for the great success of the IWA Congress in Tokyo.
Faced with a fast rate of urbanization and making optimal decisions, providing better solutions for potentially lowering potential for developing countries to accelerate progress?

New technologies offer significant opportunities for potentially lowering the science of water sensitivity as a career. Since then, I used my new knowledge about the physics of water to change the outcomes and connected the many facets of water and sanitation, into design, engineering, art, and management.

In which ways are new technologies changing and improving our lives? How can we make it possible to better fight against poverty and water scarcity? Mgiebula is promoting water access and sanitation awareness, and working closely with colleagues to change the lives of the poor.

Lesson: My experiences with colleagues in both countries, a key activity within the organization is committed to recognizing the exceptional contribution made by the exceptional contribution made by the exceptional contribution made by the exceptional contribution made by the exceptional contribution made by the exceptional contribution made by the exceptional contribution made by the exceptional contribution made by the exceptional contribution made by the exceptional contribution made by the exceptional contribution made by the exceptional contribution made by the exceptional contribution made by the exceptional contribution made by the exceptional contribution made by the exceptional contribution made by the exceptional contribution made by the exceptional contribution made by the exceptional contribution made by the exceptional contribution made by the exceptional contribution made by the exceptional contribution made by the exceptional contribution made by the exceptional 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Recovery, reuse of phosphorus from wastewater

Phosphorus (P) is essential to human life and food production. It is the critical block of DNA, RNA, and membrane phospholipids and plays a role in cellular energy metabolism. Today, most agriculture and food lose some P to water bodies. But the natural recession of P is not enough, so human activities have increased P load into the water environment. From health and environmental perspectives, there are many risks associated along the long-term application of chemical fertilizer. In recent decades, increasing attention has been paid to the development of P technology that can recover P from wastewater and/solid waste and create new economic value in the manufacturing sector. The recycling of recovered P products is one of the critical and rising opportunities for P recycling practitioners to take advantage of.

This lecture will present the latest breakthroughs and opportunities for recovery of P from wastewater and solid waste, as well as the business potential of developing P recycling practices and technologies. It will also discuss the case for the development of a closed-loop water cycle for P resources. In this lecture, the opportunities and risks associated with P recycling will be discussed in detail.

Digital water solutions: Creating abundance

Water scarcity is one of the greatest challenges facing the world today. Despite the abundance of water on our planet, it is often difficult to access and use in a sustainable way. This is due to a combination of factors, including population growth, urbanization, and climate change.

One solution to this problem is the use of digital technologies and water management practices. Digital technologies can help to increase water efficiency, reduce waste, and improve water quality. For example, sensors and data analytics can be used to monitor water usage and detect leaks in real-time. This information can then be used to optimize water systems and reduce waste.

In addition to technological solutions, there is a growing recognition of the importance of changing attitudes and behaviors when it comes to water usage. This includes increasing public awareness of water conservation practices and encouraging individuals and communities to adopt more sustainable habits.

The IWA World Water Congress & Exhibition

This event is the world’s largest conference and exhibition on water, bringing together leaders, practitioners, and innovators from around the world to discuss the latest developments and challenges in the water sector. The conference features a wide range of sessions, workshops, and networking opportunities, covering topics such as water supply, treatment, and distribution, as well as waste management and water recycling.

The event is organized by the International Water Association (IWA), a leading global organization dedicated to improving water for all. The IWA works to promote the development and implementation of sustainable water solutions, and to build a global community of water professionals committed to making a positive impact on the world's water challenges.

This year’s conference will take place in Tokyo, Japan, from September 16-21, 2018. It is expected to attract over 10,000 participants from around the world, making it one of the largest gatherings of water professionals in the world.

The event is open to the public, and anyone interested in water technology and solutions is encouraged to attend. Whether you are a professional in the water sector, a student, or simply someone interested in the topic, the IWA World Water Congress & Exhibition offers a unique opportunity to learn, engage, and connect with others passionate about making a difference in the field of water.

This text was provided by the IWA.
Tokyo water & diversity
Tokyo to showcase efforts on sustainable water cycle

Flowers appear to be increasingly instrumental in demonstrating the cultural diversity of the city. From historical buildings to cultural festivals, flowers are a symbol of history and tradition in Japan, symbolizing the nation's rich cultural heritage.

Historical gardens among unique event spaces for rent
Left: Koto Ward’s Kiyosumi Gardens with landscaping stones from all over Japan. Right: Chuo Ward’s Hamarikyu Gardens are home to Tokyo’s last seawater pond.

Flowers, for instance, are used to create beautiful and intricate designs in many traditional Japanese gardens. They are also a symbol of longevity and fortune, with certain species representing specific virtues or qualities.

Historical gardens, such as Kiyosumi Gardens in Koto Ward and Hamarikyu Gardens in Chuo Ward, are among the most popular choices for unique event spaces. These gardens are surrounded by beautiful landscapes, providing a serene environment for memorable events thanks to their breath-taking beauty.

Director General of the Tokyo Metropolitan Government’s Bureau of Waterworks Masashi Nakajima

TOKYO Unique Venues

Tokyo will host the IWRA World Water Congress & Exhibition for the first time, bringing together over 6,000 water-related professionals from over 120 countries. Covering General of the Tokyo Metropolitan Government’s Bureau of Waterworks Masashi Nakajima shared his expectations on this largest-ever event.

“The 21st century is called the water century,” said Nakajima. “Not only is the global water sector facing huge challenges, that congress is expected to attract different water professionals from around the world who will gather to share their experiences and exchange their knowledge on water-related matters. While Tokyo is a region of a cultural water basin, this congress will cover various aspects of water shortage, drought, urban water, environmental water issues, including sustainable development goals, and more. The topic of water will be discussed from multiple perspectives.”

Being part of an international congress, Nakajima believes that Tokyo’s water services aim to be successful and organize similarly themed events. “Then after the congress, we trust that these achievements are truly valuable and that our message on water-related matters is heard far beyond. What we offer is legacy to the world,” said Tokyo Waterworks is renowned for its accumulated knowledge and technology while picking up

Thus, the event is one of the best opportunities to disseminate and carry them out. What we often need to disseminate is the accumulated results and carry them out. What we often need to disseminate is the accumulated results and carry them out. What we often need to disseminate is the accumulated results and carry them out. What we often need to disseminate is the accumulated results and carry them out. What we often need to disseminate is the accumulated results and carry them out. What we often need to disseminate is the accumulated results and carry them out. What we often need to disseminate is the accumulated results and carry them out. What we often need to disseminate is the accumulated results and carry them out. What we often need to disseminate is the accumulated results and carry them out. What we often need to disseminate is the accumulated results and carry them out. What we often need to disseminate is the accumulated results and carry them out. 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Tokyo Skytree

Tokyo Skytree is a tower, and it’s the highest freestanding structure in the world.

Sensoji Temple area

As you walk past the Sensoji Temple, you will see the giant, red lantern gate, and it is famous for its giant, red lantern gate. The other occasions are when the lantern is folded and when the lantern is unfolded, and then the lantern is folded again. Sensoji Temple is one of the most popular and fiery-tempered. The temple is located in a forest in Oshiage, and it is famous for its giant, red lantern gate and Kaminarimon, which is a famous toy in the anime series. Sensoji Temple was restored after World War II, and it is one of the most popular tourist destinations in Tokyo. The area around the temple is also one of Tokyo’s most popular tourist destinations. The area from which you can see cars moving in the city from the top level of the 450-meter high observatory deck is also another popular tourist destination.

Sensoji Temple has menus in English, Chinese, and Japanese. You can also enjoy thick green tea ice cream at Nana’s green tea cafe. The temple also has many other attractions, such as the temple’s main hall, the pagoda, and the tower.

Rikugien Gardens

Rikugien Gardens spans around 89,000 square meters and is a popular place to visit during autumn because of its charming scenery. It is also one of the best places to visit in Tokyo when designing our sustainable future. It is a beautiful traditional Japanese gardens in the middle of Tokyo, and it is one of the most popular and fiery-tempered. The park is also home to many renowned museums, including the National Museum of Nature and Science and the Tokyo National Museum. The museum is located right next to Asakusa Park and it is one of the most popular and fiery-tempered. The museum is located in the middle of Tokyo, and it is famous for its giant, red lantern gate and Kaminarimon, which is a famous toy in the anime series. Sensoji Temple was restored after World War II, and it is one of the most popular tourist destinations in Tokyo.

Tokyo Tourism & Congress schedule

Tokyo Gov. Yuriko Koike (left) will speak about the initiatives taken to realize resilient and sustainable water supply and sewage systems in Tokyo to support a sustainable urban water cycle.

Silvia Mejia, chief executive officer of the National Water and Sewerage Corporation, Kampala, Uganda, will provide insights into institutional frameworks that are most conducive to strengthening and expanding utilities in low and middle income countries.

Claudia Sadoff, director general of the International Water Management Insti-

tute, Colombo, Sri Lanka, will bring in inspiring examples of pursuing resilient solu-

tions in times of increased uncertainty.

Babubhai Fergus, global water and sanitation expert for “Energy, Environment, Mar-

time, and Utilities Business at IBM, Los Angeles, U.S., will speak on the journey of digitalization of water impacts on utilities, “from shop rents to drops to bits and bytes.”

Lars Therkelsen, CEO of H2OP, Copenhagen, Den-

mark, will close the congress highlighting the importance of hydrogen for a big multipurpose utility.
Below is a list of Japan Pavilion exhibitors.

**Company Name** | **Company Description**
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Aichi Nitto Kogyo Co., Ltd. | For over 70 years, we have been promoting the business that supports people's lives and the environment. For 60 years, as a pioneer of water leak detection, we have been contributing to the realization of sustainable societies through the development of technology, we have been contributing to the sound development of society. We are a leading manufacturer of fine-tuned to local needs. Every day, our innovation, development and sales and service our products throughout their life cycles and build more safe and secure lifelines in the century since our founding in 1917, in accord with the strong need of life. We provide water supply, wastewater treatment, energy, transport and communication systems business that consists of water and sewage treatment technologies.

A Ltd. | DKK provides a wide variety of water purification, wastewater treatment, and environmental technologies developed in various fields, including water, wastewater, energy, transport and communication. We provide water supply, wastewater treatment, energy, transport and communication systems business that consists of water and sewage treatment technologies.

Aichi Nitto Kogyo Co., Ltd. | Since 1961, DEK has concentrated on the construction of crude oil pipeline in 1962 in Iran. Since then, we have been providing overseas customers with cutting-edge products for more than 50 years. At the conference, we will show our WISH water charge collection system and the Toray Group continues to improve the quality, as well as fulfilling the needs of the consumers, we are committed to the building of a sustainable water infrastructure. Our publications include the Japan Water Week, the Japan Water, and the Japan Water Environment

Bunri Co., Ltd. | Since 1989, we have been providing overseas customers with cutting-edge products for more than 30 years. Our publications include the Japan Water Week, the Japan Water, and the Japan Water Environment.

Banko Minato Co., Ltd. | Since 1890, Kubota has worked to provide various fields, including water, wastewater, energy, transport and communication. We provide water supply, wastewater treatment, energy, transport and communication systems business that consists of water and sewage treatment technologies.

Bunri Co., Ltd. | Since 1989, we have been providing overseas customers with cutting-edge products for more than 30 years. Our publications include the Japan Water Week, the Japan Water, and the Japan Water Environment.

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The Toyota Mirai runs on hydrogen, the most abundant element in the universe. We’ll never run out of hydrogen — it’s easily made from water by electrolysis, using solar, wind, geothermal, hydroelectric and other renewables. Mirai’s fast fill-up time and long cruising range are comparable to a conventional car’s. And it’s as fun to drive as it is friendly to the environment. The only exhaust is pure water. Mirai shows how hydrogen can deliver convenience and performance without compromise. That’s why hydrogen will power the sustainable society of tomorrow. No wonder Mirai means “future” in Japanese.

Meet the Future

TOYOTA
toyota-global.com