

# 7th JSWA/EWA/WEF Specialty Conference “Resilience of Water Service”

Sendai, Japan

7<sup>th</sup> – 10<sup>th</sup> December 2021



## 2nd Announcement and Call for Abstracts 7th JSWA/EWA/WEF Specialty Conference “Resilience of Water Service”

Sendai, Japan, 7<sup>th</sup>-10<sup>th</sup> December 2021

*“10<sup>th</sup> memorial year of Great East Japan Earthquake”*

### Organized by:

Japan Sewage Works Association, European Water Association, Water Environment Federation

### Conference Description

In order to be sustainable, water service needs to be resilient to manage acute and chronic disruptions. Natural and anthropogenic challenges include floods, earthquakes, refugee and evacuee influx, droughts, sea level rise, climate change, shrinking customer base, energy crisis, changing workforce, aging infrastructure, and pandemics. This 7<sup>th</sup> edition of the JSWA/EWA/WEF specialty conference series will explore ways to make water services more resilient.

JSWA, EWA, and WEF have identified four principal themes for the conference to cover the topic of water sector resilience. The sessions and individual presentations grouped in these themes will be aligned to the Sustainable Development Goals (SDGs), as well as highlight water related refugees and evacuees' issues plus pandemic responses. For more information about the SDGs, please visit <https://sustainabledevelopment.un.org/sdgs>. We will also consider abstracts on related themes, as long as water service resilience is addressed. The intention of the programme is to share experiences from across the world covering: real life examples of lessons learned from major events, innovative technologies and practices, and technical-scientific research which strengthens resilience of water service.

### General Information of Sendai City

The conference is held at TKP conference center, (Search on the Google map: 38.262860, 140.882970), in Sendai City, Japan. Sendai city is located in the northern part of Japan approximately 300 kilometers north of Tokyo. Sendai has a population of one million and is the political and economic center of Japan's Tohoku region. The organizers choose the city because year 2021 is the 10<sup>th</sup> memorial year for the 2011 Tōhoku earthquake and tsunami with the conference themes in mind. Please note Sendai city is as safe as other cities in the world in terms of radioactive pollution according to official monitoring data.

<https://www.japan.travel/en/news/post-2011-3-11-general-information/>

### Conference Themes:

#### ***Theme 1: Resilience in the round***

Topics on resilience of water service in light of aging infrastructure, climate change, extreme natural events, water shortage, sludge management, changing workforce, and dwindling funding resources. While water is a key component in virtually all of the 17 SDGs, water resilience is directly linked with Goals 6, 9, and 11 featured in this

theme.

### ***Theme 2: Resilience of water services for refugees and evacuees***

Political instability and extreme natural events have led to many refugees and evacuees in the world. Providing adequate sanitation service to refugees and evacuees is an obligation for human rights. Provision of water service for political/economic refugees and disaster evacuees from strategy, innovation, to real life experience relate to Goals 1, 3, 13 and 16.

### ***Theme 3: Smart water strategies to strengthen resilience***

Development and application of smart water technology is a continual hot topic for innovation. Big data, machine learning, real time control, IoT for better operation & maintenance of facilities are some of the topics for intelligent infrastructure and innovation, relates to SDG 9.

### ***Theme 4: Lessons learned from real life disruptions***

Sharing the lessons learned from real-life events, both positive and negative, provide practical insights. Case studies are desired addressing emergency response and subsequent recovery to unexpected events such as blackouts, sinkholes, spills, earthquakes, typhoons, hurricanes, facility failures, and pandemics.

## **Abstracts:**

The authors are requested to describe how their presentations and papers help achievement of SDGs. Please provide a 1 or 2 page abstract structured with the following order: Title; Authors and Affiliations; Keywords (maximum of 5); Abstract text. Authors of accepted abstracts who do not submit the final papers by the due date will be replaced on the program. The leading authors (who will present the papers at the conference) will be responsible for paying their own travel expenses and social event fees for the conference. With the submission of abstract by e-mail, the "Abstract Form" at the end should be completed and attached to the corresponding e-mail message.

## **Conference Key Dates:**

- Official presentation of the conference concept and call for abstracts: EWA Council Meeting 2020, 7th September 2020, online
- Start of call for abstracts: 7<sup>th</sup> September 2020
- Deadline for submission of abstracts: 8<sup>th</sup> March 2021
- Notification of abstract acceptance: 7<sup>th</sup> May 2021
- Submission of full papers: 6<sup>th</sup> August 2021
- Submission of PowerPoint presentations: 5<sup>th</sup> November 2021

## **Conference Chairs**

The JSWA President - The EWA President - The WEF President



## Conference Technical & Scientific Committee

**Chairpersons:** Masahiro Takahashi (JSWA) –Fabio Tatano (EWA) – Bipin Pathak (WEF)

**Members:** Hiroki Itokawa (JSWA), Hiroyasu Sato (JSWA), Hiroyuki Fujimoto (JSWA), Yosuke Matsumiya (JSWA), Iva Vidakovic (EWA), Jiri Wanner (EWA), Patrick Willems (EWA), Silvio Beier (EWA), Houssam El Jerdi (WEF), Justin Waples (WEF), Marianne McDonald (WEF), Samendra Sherchan (WEF)

## Proceedings & License Authorization

Accepted papers that have been presented at the conference will be published in the digital proceedings of the event. Then, the proceedings will be uploaded at the conference official website with password protection. The speakers are requested to issue the “Letter of Authorization” for granting a free license of the papers to the organizers.

## Facility tour

Minami Gamou WWTP; Tsunami stricken and restored facility

Arahama Elementary School; Ruins of earthquake

Sea wall; Tsunami protection

**Conference Website:** <https://www.jswa.jp/en/jswa-en/>

### Conference Secretariat /Submission of Abstracts:

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Japan Sewage Works Association (JSWA)

Note: This conference will be held digitally if the organizers decide that the situation does not allow in-person format due to the COVID-19. The decision is made in early-June 2021.

### Photo credit to the City of Sendai.

1. Minami-gamo WWTP rebuilt in 2016
2. Tsunami strike to the WWTP in 2011

## Abstract Submission Form

Presentation Title:

Leading Author (Speaker):

Affiliation (Organization / Company):

Postal Address (Street or P.O. Box City / State or Province / Zip / Country) :

Phone:

Fax:

E-mail:

Co-author Information

1.

Name:

Affiliation (Organization / Company):

2.

Name:

Affiliation (Organization / Company):

3.

Name:

Affiliation (Organization / Company):

Please add if you have more than three co-authors.

Suggested Theme (1, 2, 3 or 4):

**Please fill out this form and submit it with your abstract to [y.okabe@ngsk.or.jp](mailto:y.okabe@ngsk.or.jp) by 8<sup>th</sup> March 2021.**

