

18<sup>TH</sup> WORLD LAKE CONFERENCE  
YURIRIA LAKE  
GUANAJUATO · MEXICO · NOVEMBER 9<sup>TH</sup> - 11<sup>TH</sup> · 2021

GOVERNANCE, RESILIENCE  
SUSTAINABILITY OF LAKES  
FOR A BETTER SOCIETY

[www.worldlakeconference.ugto.mx](http://www.worldlakeconference.ugto.mx)



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## About the World Lake Conference

It began with the Shiga Conference on Conservation and Management of World Lake Environment in 1984, known as LECS'84, which was held at Lake Biwa, Japan with the objective of contributing and promoting scientific studies on the management of lakes around the world.

The Conference has since become recognized worldwide as a platform for participants from diverse areas to exchange views and experiences on the assessment and management of lakes, their resources and their basins for sustainable use.

Past conferences have been held in the United States, Hungary, China, Italy, Argentina, Denmark, Kenya, India, Indonesia and Japan on a biannual basis.

The 18th World Lake Conference (WLC18) will be held in the city of Guanajuato, Mexico. It is the first time in 23 years that the World Lake Conference will be convened in Latin America since WLC7 in Argentina in 1997. This conference continues efforts to benefit the governance, resilience and sustainability of lakes and their basins through knowledge generation, information exchange, management experiences and best practices. WLC18 represents an international forum for lake experts, authorities in charge of their administration, users, technologists, scientists, professionals, students, and civil society members interested in spreading, learning and implementing pertinent actions directed to the comprehensive management of lakes and their basins for sustainable use.

## Important Dates

Abstract Submission Deadline: **September 17<sup>th</sup>, 2021 (24 hrs. GMT-5).**

Abstract Acceptance Notifications: **All acceptance notifications will be sent by September 24<sup>th</sup>, 2021**

Video Submission Deadline: **18<sup>th</sup> October 2021**



## Outline of 18<sup>th</sup> World Lake Conference

Theme **Governance Resilience and Sustainability of Lakes for a Better Society.**

**Thematic areas**

**Lake Ecosystem Values, Uses and their Sustainability:**

- Resource values of lake, shoreline and basin ecosystems
- Regulating functions, properties, resilience and sustainability
- Anthropological, socio-cultural and historical values and assets
- Geophysical, chemical and bio-ecological features

**Problems and Issues of Concern:**

- In-lake problems
- Nearshore/lakeshore problems
- Problems arising from lake basin activities
- Global-scale challenges

**Management Approaches and Frameworks:**

- Governance
- Social ambit
- Environment and health
- Science and technology
- Economic ambit

|                    |  |
|--------------------|--|
| Conference dates   | November 9, 10 and 11, 2021  |
| Venue              | Online virtual on demand   |
| Language           | English / Spanish  |
| Host Organizations | University of Guanajuato<br>International Lake Environment Committee (ILEC)<br>Guanajuato State Government   |
| Co-Host            | National Water Commission, Mexico (CONAGUA)  |
| Supported by       | Guanajuato State Water Commission<br>Environment and Territorial Ordering Secretary State of Guanajuato<br>Sistema Municipal de Agua Potable y Alcantarillado de Guanajuato<br>Mexican Hydraulics Association<br>Mexican Network of Basins<br>Institute Corazón de la Tierra |



## Conference Schedule

| Day 1 Tuesday November 9th   |                               |   |                   |
|--|-------------------------------|---|-------------------|
| Room 1   | Room 2                        | Room 3  | Exhibition        |
| <b>Opening Ceremony</b> , Governor of Guanajuato State, Governor of Shiga Prefecture, University of Guanajuato President, Mexican National Water Commission Director, President of ILEC. |                               |   |                   |
| Plenary Keynote Speech by Germán Arturo Martínez Santoyo<br>Director of Mexican National Water Commission  |                               |   | Poster Exhibition |
| Thematic Keynote Presentation  | Thematic Keynote Presentation | Integrated Lake Basin Management Workshop: General Introduction |                   |
| The Practice of Managing of Water Resources Session  | Social Ambit Session          |   |                   |
| UG Symphonic Orchestra Performance   |                               |   |                   |

| Day 2 Wednesday November 10th                                  |                                |   |                   |
|--|--------------------------------|---|-------------------|
| Room 1   | Room 2                         | Room 3  | Exhibition        |
| Plenary Keynote Speech by Tatsuki Toda<br>Dean Soka University |                                |   | Poster Exhibition |
| Thematic Keynote Presentation                                  | Thematic Keynote Presentation  | Integrated Lake Basin Management Workshop: State of program development   |                   |
| Science and Technology Session                                 | Environment and Health Session |   |                   |
| Special Session  | Special Session                | Open multidisciplinary forum to discuss/exchange experiences in sustainable lake basin management (Spanish Session) |                   |

| Day 3 Thursday November 11th                                   |                                 |  |                   |
|--|---------------------------------|--|-------------------|
| Room 1   | Room 2                          | Room 3   | Exhibition        |
| Plenary Keynote Speech<br>UN Agency Representative             |                                 |  | Poster Exhibition |
| Thematic Keynote Presentation                                  | Thematic Keynote Presentation   | Integrated Lake Basin Management Workshop: Development of an international network |                   |
| Governance Session   | Economics Ambit Session         |  |                   |
|  | Ibaraki Kasumigaura Prize Award |  |                   |
| Conference Summary   |                                 |  |                   |
| Guanajuato Declaration / WLC19 Announcement / Closing Ceremony |                                 |  |                   |

## Conference Program

### Opening Ceremony

**Governor of Guanajuato State:** Diego Sinhué Rodríguez Vallejo

**Governor of Shiga Prefecture:** Taizo MIKAZUKI

**Mexican National Water Commission:** Germán Arturo Martínez Santoyo

**University of Guanajuato President:** Luis Felipe Guerrero Agripino

**President of International Lake Environment Committee (ILEC):** Kazuhiko TAKEMOTO

### Keynote Speech

#### **Monday November 9<sup>th</sup>**

##### **Germán Arturo Martínez Santoyo**

He is currently the General Director of the Mexican National Water Commission (CONAGUA). He holds a degree in Civil Engineering from the Universidad Nacional Autónoma de México (UNAM) and he is a Professional Expert in Hydraulic Engineering certified by the Colegio de Ingenieros Civiles de México, A.C.



Until May 2021, he was the Deputy General Director of Administration of the CONAGUA, where he also served as General Director of the Northern Central Basin Organization (2020). In 2019, he worked as General Director of the Balsas Basin Organization. In addition, in 2018, he was General Director of the Valley of Mexico Water Bassin Organization. From 2001 to 2009, he served as the General Director of the Water Commission of the then Mexico Federal District, and the Water System, and the Urban Services of the Delegations Gustavo A. Madero and Tlalpan of Mexico City.

He also participated in cooperation projects for the development of hydro-meteorological systems with the Meteorological Services of Mexico, the United States, El Salvador, the Dominican Republic, and Nicaragua.

Finally, he is a Professor at the Faculty of Engineering at the National Autonomous University of Mexico (UNAM).

**Wednesday November 10<sup>th</sup>**

**Dr. Tatsuki Toda**

He received a doctoral degree from the University of Tokyo (Japan). He is a Professor at Soka University, attached to the Department of Science and Engineering for Sustainable Innovation, Faculty of Science and Engineering. His main research activities are environmental dynamic analysis, environmental impact assessment/environmental policy, environmental technology/environmental material, resource maintenance studies, earth resources system engineering, form/structure, living organisms, diversity/classification, and general fishery studies. Dr. Toda has an extensive academic output, including five books in joint works, 194 published papers, 3966 citations, 221 conference presentations and talks and 27 honor awards for his conference activities. He has been awarded a grant from the Japan Society for the Promotion of Science, in the project “Creating marine forests that can withstand herbivory,” July 2017 - March 2020. Dr. Toda is one of the principal investigators of the Japan Science Technology Agency Project for Continuous Operation System for Microalgae Production Optimized for Sustainable Tropical Aquaculture (COSMOS): Preserving Malaysia's ecosystem through microalgae “aquatic jewels,” 2015 – 2022. Dr. Toda was Director of the Center for Cooperative Research and Development of Environmental Technology and currently serves as Dean of the School of Engineering, Faculty of Science and Engineering, Soka University, Japan.



### Thematic Keynote Presentations

ILEC Scientific Committee (SciCom) members will make presentations on topics in their areas of expertise. The SciCom membership comprises a small number of internationally renowned scientists and experts in the field of lake and reservoir management and conservation, including Sandra **Azevedo** (Brazil Federal University of Rio de Janeiro, Brazil); Salif **Diop** (Cheikh Anta University, Senegal); Colin Maxwell **Finlayson** (Charles Stuart University, Australia); Zhengyu **Hu** (Academy of Science, China); Alejandro **Juarez** Aguilar (Institute Corazón de la Tierra NGO, Mexico); Masatsugu **Takamatsu** of Japan (The World Bank, USA); Tiina **Nõges** (Estonian University of Life Science, Estonia); Daniel **Olago** (University of Nairobi, Kenya); Ajit Kumar **Pattnaik** (Wetlands International South Asia, India); Walter **Rast** (International Institute for Sustainable Water Resources; Eco Alamo College District, USA); Adelina **Santos**-Borja (Southeast Asian Limnological Network, Philippines); Yoshihisa **Shimizu** (Kyoto University, Japan); and Pieter **van der Zaag** (IHE Delft Institute for Water Resources, The Netherlands).

## Thematic Sessions (Oral/Poster)

Researchers, government officials, civil groups, NGOs, academicians, etc., to be introduced and present and discuss their presentations and activity results within specific topical sessions, including Question & Answer period.

## Spanish-Language Thematic Session

The Spanish sessions are intended as an open forum to facilitate the discussion and exchange of experiences of multidisciplinary experts and professionals on the sustainable management of lakes and their basins.

## ILBM Workshop

The workshop program will be designed to fulfill three general objectives, i.e.;

(1) introduction to and review of the ILBM concept, representative application cases and their typologies, and key challenges faced and emerging prospects for overcoming them;

(2) review of the state of program development at the local, national, regional, and international levels, the state of cross-fertilization of the lessons learned and experience gained from the past and ongoing efforts, and the state of international collaboration for further program development; and

(3) development of an international network of ILBM research, human-resource development, and information resource generation and use, particularly for facilitating the local, national, regional and international governmental and non-governmental efforts.

Arrangements will be made for the registered participants to be able to have access to the ILBM resource materials prior to the Conference in preparation for the workshop. Arrangements will be also made for the participants as well as others to make best use of the workshop outputs for becoming part of the evolving global efforts in ILBM promotion in relation to mainstreaming lakes and other lentic water systems globally.

## Citizen Participation in Lake Basin Management

•**Shiga Session:** A case of Lake Biwa, Shiga Prefecture, Japan, will be held as a Special Session, showcasing the citizen – government collaboration in lake basin management. It will consist of several segments. They include introduction to a brief history of participatory lake basin management, to a new designated as MLGs, or Mother Lake Goals being a citizen driven pursuit toward meeting the Lake Biwa SDG goals, to environmental education at th grade school level, to voluntary action initiatives at the university level, as well as to some typical non-governmental programs and projects.

•**Highschool Session:** A satellite session on the exchange between Shiga and Guanajuato-Chapala high school students will be held in the weekend prior to the Conference. A summary of this satellite session and its output will be shared in the main Conference.





## Ibaraki Kasumigaura Prize Award Ceremony

Ibaraki Prefecture (Japan) officials will award Kasumigaura Prize (Including Certificates of Commendation and a monetary prize) to two excellent Proceedings papers submitted by participants from developing countries to support their research.

## Closing Ceremony

Conference summary and take-home messages, reading and approval of Guanajuato Declaration, announcement of WLC19 venue and invitation from venue host organization to participate in WLC19.

## Conference Registration

If you submit an abstract you will be automatically registered.

If you will not be making a presentation, you can register **solely as a participant**.

Regular Registration: **May 3<sup>rd</sup> to November 7<sup>th</sup>, 2021 (15:00 GMT-5)**

For registration, please visit our website or the Following Link

[Registration](#)

## Call for Abstracts

The 18th World Lake Conference Organizing Committee invites you to submit abstracts to be part of its 2021 Virtual edition.

The World Lake Conference was designed to be a global forum for discussing a wide range of academic and non-academic topics related to the management of lakes and their basins for the sustainable use of their life-supporting ecosystem services. They include **scientific/technical/practical and socio-economic/governance/cultural aspects**, as well as **concerns of the public (civil society) and the environment**. Considering such topics on a global scale are critical for strengthening the science-policy-governance interfaces already gaining importance globally because of discussions of relevant topics focusing on the implementation of lake science and management targets and goals such as those encompassed in the Sustainable Development Goals (SDGs).

Accordingly, the Conference is inviting to all public to submit your work related with a wide range of lake basin-related problems and solutions, to be considered as oral or poster presentations. Accepted abstracts will be included in the e-book of abstracts, published after the virtual event.



## Submission Instructions

### Important Notes

\*The submission of your abstract automatically registers you as a participant\*

\*One participant can send as much as 3 Abstracts\*

Each abstract proposal should include:

- A short and descriptive title for the abstract.
- Name and affiliations of the author and co-authors.
- An abstract of up to 250 words.

Main topics of the conference focus on Research & Advances, Applied Sciences and Management Studies, Management Practices and Experiences Gained are among others:

- **The Practice of Managing of Water Resources:** Managers and Stakeholders are welcome to share their experience on implementing Integrated Lake Basin Management (ILBM); Citizens' Activities and Environmental Education; Lakeside History and Culture; Lake Basin Heartware; Sustainable Use of Freshwater Resources; Countermeasures and Technologies for Sustainable Use of Ecosystem Service; Biodiversity and Biological Resources; Monitoring Based on Scientific Knowledge; Institutional Management Systems and Policies; or any other topic assisting in achieving governance and sustainability of lakes and their basins.
- **Science and Technology:** The following topics are welcome: Numerical simulations of hydrodynamics and pollutant transport and reactions, Wastewater treatment; Technologies to address persistent organic pollutants, Environmental engineering technologies/environmental technologies for surface and groundwater problems, Source water pollution problems;
- **Governance:** The following topics are welcome: Politics and policies, Legislation and regulations, Lake-related Institutions, Financial sources and administration;
- **Social Ambit:** The following topics are welcome: Cultural aspects, Literature, Religion, Civil participation, Education possibilities, Human rights, History;
- **Environment and Health:** The following topics are welcome: Natural resources and biodiversity aspects, Quality of human and natural life, Lake Yuriria, Climate change impacts, Sustainable ecosystem services;
- **Economics:** The following topics are welcome: Economic impacts of water pollution and/or excessive water withdrawals, Economic impacts of lost lake-related ecosystem services; Sustainable financing challenges and activities; Payment for ecosystem services.

Such issues also translate into such encompassing ideas as (i) Technology for achieving sustainable lake basin ecosystem services; (ii) Governance and economic components of Integrated Lake Basin Management; (iii) Social and cultural aspects and benefits of lake basin management; (iv) Environmental components and goals of sustainable lake basin ecosystem services, etc., all of which constitute and build upon the thematic categorization of World Lake Conferences held in the recent past



## Abstract Acceptance and Notification

Submissions will be reviewed by the conference committee, and results will be announced to applicants by email. Presenters may be requested to make their presentation in a different main theme category or in a different format (oral <--> poster) from their original request to ensure a consistent presentation program. Accepted abstracts will be included in the e-book of abstracts, published after the virtual event.

## Full Paper Requirement

It is not necessary for all registered participants to submit a full paper for the Conference. However, **participants** wishing to have their full paper published in the Conference Proceedings must prepare and submit a full paper. The full papers are to be prepared following specific guidelines, layout format and other requirements, **the template is available on our website**.

The best Conference presentations, as determined by the Conference Organizing Committee, also will be invited to submit a full **manuscript** for possible publication in ILEC's peer-reviewed journal (*Lakes & Reservoirs: Science, Policy and Management for Sustainable Use*) published by John Wiley & Sons.

## Conference Proceedings

The Conference Proceedings in the form of an e-book, will contain all the Abstracts and the accepted full papers. It will be published in the Conference website.

## Presentations in Thematic Sessions

During this virtual conference you are required to display a prerecorded video highlighting your work results. (Videos are required for both oral and poster presentations in the Thematic Sessions) The official language for videos is English however, if you are participating in a Spanish special session video can be displayed in Spanish.

Deadline for video submission: **October 18, 2021**

### Oral Presentations

The individual oral presenters in the Thematic Sessions will be given 20 minutes for their participation. A maximum of 15 minutes will be allocated for video presentation to allow a 5-minute follow-up Question & Answer (Q&A) period.

Time slots will be designated and communicated by email to participants once all abstract acceptance notifications are sent.

**Pre-Recorded Video Length:** 15 minutes maximum.

### Poster presentation

The posters submitted and accepted for presentation will be made available to view during the period of the Conference at the virtual poster exhibition room.

**Poster format:** posters should be saved as 1-page PDF document, horizontally oriented.

**Pre-Recorded Video Length:** 5 minutes maximum.

## Special Session Presentations and Interactions

The organizers of Special Session will be individually and separately communicated by the conference Secretariat about the implementation modes and requirements for their presentations.

- We strongly recommend using our Power Point template available at our website for posters and videos.
- Please follow these tips and guidelines prior to recording your video presentation.
- (Optional) Add closed captions or subtitles to media in PowerPoint
- Name your video presentation accordingly:

Templates

Recording

Closed Captions

**PaperNumber.LastName.oral.mp4**  
**PaperNumber.LastName.poster.mp4**  
**PaperNumber.LastName.poster.pdf**

The submission will be made via the event platform (You will receive the link in a few days)

*NOTE: 18WLC does not accept updated video files. If the video exceeds the time limit it will be trimmed.*

*Please review your video before submitting.*

## Ibaraki Kasumigaura Prize

The 11<sup>th</sup> Ibaraki Kasumigaura Prize, supported by the Ibaraki Prefectural Government, Japan, will be awarded to two distinguished researchers from developing countries to support their research and their participation in the 18<sup>th</sup> World Lake Conference. Each recipient of the prize will receive a certificate of commendation and a monetary prize of JPY250,000, in addition to the opportunity to make a presentation to an international audience at WLC18 on their submitted paper.

Applicants should submit an abstract paper on relevant lake conservation topics (300-500 words) by September 17<sup>th</sup>, 2021. For abstract submission, please download and complete the application form (<http://www.worldlakeconference.ugto.mx/en/images/1-ibaraki-kasumigaura-prize-application-form.doc>), and submit it to the following email address: [wlc18@ilec.or.jp](mailto:wlc18@ilec.or.jp).

### Application Requirements

Those wishing to apply for the selection process must possess nationalities of the countries listed in the DAC List of ODA Recipients (<http://www.worldlakeconference.ugto.mx/en/images/2-DAC-list-of-ODA-recipients.pdf>).

### First Screening of Prize Applicants

The results of the first screening of the Kasumigaura Prize applications will be announced on the Conference website (<http://www.worldlakeconference.ugto.mx/en/>) by **September 24, 2021**. Based on the submitted abstracts, about five papers will be selected for the final selection process.

#### Final Selection of Prize Recipients

Those who are short-listed for the final prize selection process will be requested to submit a full paper by **October 1<sup>st</sup>, 2021** (the final submission date will be duly informed). The results of the final selection will be announced by **October 15<sup>th</sup>, 2021**.

#### Additional Information

- Please complete the Kasumigaura Prize submission form in English.
- Abstract submissions for the Ibaraki Kasumigaura Prize, which are to be submitted to the above-noted address, will be separate from the abstract submission process for the WLC18 technical sessions. Registration for the 18<sup>th</sup> World Lake Conference is also separate from the prize submission process. Please follow the application procedure for conference registration as noted on the conference website (<http://www.worldlakeconference.ugto.mx/en/>), which also contains detailed information on the conference itself.
- The Ibaraki Kasumigaura Prize Winners are required to commit to their participation in WLC18 and to make a presentation in the appropriate conference technical session. The applicants must be researchers, etc., from the countries and regions listed on the DAC List.

### Upcoming Announcements

The 3rd WLC18 announcement will be available around mid-October, 2021.

## Conference Committee

The 18<sup>th</sup> World Lake Conference Program Committee is comprised of the University of Guanajuato and International Lake Environment Committee (ILEC) Scientific Committee members and Local Organizing Committee members, as follows:

### 1. Scientific Committee

This Committee consists of two main boards as follows:

#### A. University of Guanajuato Scientific Advisory Board

Chair Person:

Sergio Antonio Silva Muñoz

Members:

Gilberto Carreño Aguilera

Pabel Antonio Cervantes Avilés

German Cuevas Rodríguez

Arodi Bernal Martínez

José Antonio Arciniega Nevárez

José de Jesús Mora Rodríguez

Luz Adriana Arias Hernández

Josefina Ortiz Medel

José Luis Nava Montes de Oca

Xitlali Virginia Delgado Galván

Locksley Fabian Castañeda Ulloa

#### B. ILEC Scientific Committee

Chair Person:

Walter Rast (Chair; USA)

Members:

Alejandro Juarez Aguilar (Mexico)

Sandra Azevedo (Brazil)

Salif Diop (Senegal)

Colin Maxwell Finlayson (Australia)

Zhengyu Hu (China)

Tiina Nõges (Estonia)

Daniel Olago (Kenya)

Ajit Kumar Pattnaik (India)

Adelina Santos-Borja (Philippines)

Yoshihisa Shimizu (Japan)

Masatsugu Takamatsu (Japan)

Pieter van der Zaag (The Netherlands)

## 2. Local Organizing Committee

Elías Rigoberto Ledesma Orozco  
Verónica Carmona Hernández  
Marco Roberto Delgado Cortés  
Daniela Pereda Valdez  
Erick Manuel Sánchez Robles  
Karla Marcela Rivera Nieto  
Rosa María Navarrete Landín  
Carmen Aragón Jauregui  
José Francisco Márquez González  
Virginie Sophie Pautrat  
Aideé Carmina Flores Tello  
Betzabee Romero Moya  
Ivón Ledesma Páramo

### Contact Information

The 18<sup>th</sup> World Lake Conference (Guanajuato, Guanajuato, 2021) Organizing Committee University of Guanajuato can be reached as follows:

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Guanajuato, México

TEL: +52-47373-20006 ext 2757

EMAIL: [support.wlc@ugto.mx](mailto:support.wlc@ugto.mx)

[www.worldlakeconference.ugto.mx](http://www.worldlakeconference.ugto.mx)