

The 7th IAHR Europe Congress in Athens, Greece

Innovative Water Management in a Changing Climate 7-9 September 2022

Report by Anastasios I. Stamou, Co-Chair of the Congress



**7th IAHR
EUROPE
CONGRESS**

Innovative water management
in a changing climate

**SEPTEMBER
7-9, 2022** DIVANI CARAVEL HOTEL
ATHENS, GREECE

organizers

 International Association
for Hydro-Environment
Engineering and Research
Hosted by
Spain Water and IWHR, China

 National Technical
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 School of Civil Engineering
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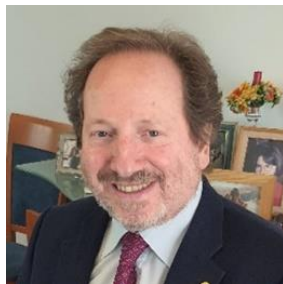


National Technical
University of Athens



School of Civil Engineering
National Tech. Univ. of Athens

Co-Chairs



Anastasios I. Stamou



Vassilios Tsihrintzis

Brief Presentation of the Scientific Programme

OPENING CEREMONY. The Athens IAHR Congress started with the Opening Ceremony on Wednesday, 7th of September 2022 (09:00-11:00); it was chaired by Anastasios Stamou, Vassilios Tsihrintzis, Panagiotis Prinos, Athanasios Dimas, Amparo López Jiménez and Corrado Gissoni.

PRESENTATIONS. In the three days of the Congress 180 papers were presented in 25 Special and 3 General Sessions, and 24 poster presentations were organized, which were distributed in the six themes of the Congress:

- ❖ RLR Rivers, Lakes and Reservoirs.
- ❖ ECS Estuaries, Coasts and Seas.
- ❖ UHH Urban Hydrology and Hydraulics.
- ❖ FDCC Floods, Droughts, and Climate Change.
- ❖ TCEM Theoretical, Computational and Experimental Methods.
- ❖ WREM Water Resources and Energy Management.

Also, two sessions were organized for the presentation of the four Keynote Lectures, the first two during the Opening Ceremony (10:00-11:00) and the rest in the second day (11:30-13:00).

YOUNG PROFESSIONALS' NETWORKS. Special attention was given on the **activities** dedicated to Young Professionals, which included the following:

- ❖ MEETING OF YOUNG PROFESSIONALS' NETWORKS IN EUROPE.
- ❖ Session: RESEARCH AND INNOVATION FOR SUSTAINABLE HYDRO-ENVIRONMENT PROJECTS.
- ❖ YOUNG PROFESSIONALS' NIGHT.
- ❖ Summer course: NATURE-BASED SOLUTIONS TO CONFRONT WATER EXTREMES IN EUROPE: DESIGN AND MODELLING TOOLS.

SYMPOSIUM. On the second day of the Congress (18:00 - 21:30) the Symposium "Confronting Climate Change impacts on Water Resources using Innovative Green Solutions" took place at the Lavrion Technological Cultural Park.

MEETING OF THE EUROPE LEADERSHIP TEAM. The meeting took place on the 2nd day of the Congress, Thursday 8th of September 2022.

CLOSING CEREMONY. During the Closing Ceremony the following awards were given:

- ❖ IAHR EUROPE REGIONAL HYDRO-ENVIRONMENT HERITAGE AWARD.
- ❖ GERHARD JIRKA AWARD FOR YOUNG RESEARCHERS.
- ❖ JOURNAL OF MARINE SCIENCE AND ENGINEERING AWARD

Moreover, the next 40th IAHR World Congress in Vienna and the 8th IAHR Europe Congress "Water – Across Boundaries" in Lisbon were announced and the relevant information was provided.

TECHNICAL VISIT. The technical visit took place on Friday, 9th of September 2022 to the Marathon Dam and Lake. The Marathon Dam is a major symbol of modernization in Greece signifying the victory of modern Athenians against drought. At the base of the dam, a replica of the Athenian Treasury temple at Delphi was constructed to commemorate the victory of Athenians at the battle of Marathon (490 BC).

Opening Ceremony – Welcome Speeches



Christos Stylianides
Minister for Climate Crisis
& Civil Protection



George Patoulis
Regional Governor of
Attica



Kostas Bakoyannis
Mayor of Athens



Andreas G. Boudouvis
Rector of the National
Technical University of
Athens



Amparo López Jiménez
Vice-President of the EC of
the IAHR



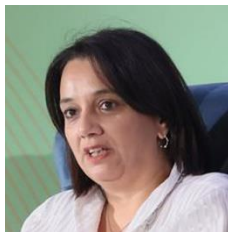
Corrado Gisonni
Chair of the IAHR Europe
Division Committee

Keynote speakers and titles of lectures



**Jacques
Ganoulis**

Water Security
Under Climate
Change



**Maria P.
Papadopoulou**

Water Governance:
Tackling Climate
Crisis Challenges



**Anton J.
Schleiss**

Research and
Innovation Agenda
for hydropower as
catalyst for the
energy transition in
Europe



**Fotis
Sotiropoulos**

Hydraulic
Engineering in the
Era of Extreme-
Scale Computing
and Data-Driven
Modeling

Activities dedicated to Young Professionals



MEETING OF YOUNG PROFESSIONALS' NETWORKS IN EUROPE. The meeting took place on Wednesday, 7th of September (14:15 - 15:00); it was coordinated by Panagiotis Kossieris, President of the IAHR Hellenic YPN that was formed in July 2022. The young professionals discussed the current activities, including research projects in which members of YPNs participate, encountered problems and their facing, new initiatives, and new trends in research projects in Europe and stressed the need for closer collaborations among YPNs in Europe.

YOUNG PROFESSIONALS' NIGHT. This informal and relaxed evening, which was especially dedicated to young professionals, took place on Thursday 8th of September in the Lavrion Technological Cultural Park immediately after the Symposium "CONFRONTING CLIMATE CHANGE IMPACTS ON WATER RESOURCES USING INNOVATIVE GREEN SOLUTIONS". During this evening, which did not involve any fees, young professionals had the chance to listen to well-known jazz, rock and funk tracks the by group "Another Tale Quartet" that were selected especially for this event.



RESEARCH AND INNOVATION FOR SUSTAINABLE HYDRO-ENVIRONMENT PROJECTS. Young professionals were invited in this session that was especially organized for them to listen to the presentations of three experts in this field, meet them and try to find answers to the following questions:

- ❖ How do engineers design and manage nowadays hydro-environment projects?
- ❖ Are research and innovation important in this design and management procedure?
- ❖ Are hydro-environment projects currently sustainable?
- ❖ Were hydro-environment projects sustainable in the ancient world?

Presentations were performed as follows:

- ❖ Ancient hydraulic works: from simplicity to sustainability, by Prof. Nikos Mamassis.
- ❖ Research and innovation in the evolution of the water system of Athens and the circular economy approach, by Dr. Efthymios Lytras, Head of the Water Quality Control Department of EYDAP SA.
- ❖ Innovations in the design of hydro - environment projects, by Antonios Peppas, CEO of ETME.

NATURE-BASED SOLUTIONS TO CONFRONT WATER EXTREMES IN EUROPE: DESIGN AND MODELLING TOOLS. This summer course was organized by the TUM and the NTUA on the 6th and 7th of September within the framework of the project TRITON. There were no fees involved and scholarships were provided to all participated students in the form of free participation in the 7th IAHR Congress.



Photograph of the participants in the summer course

Symposium “Confronting Climate Change impacts on Water Resources using Innovative Green Solutions”

The Symposium took place on September 8th, second day of the Congress, at 18:00 - 21:30 at the Lavrion Technological Cultural Park; it was sponsored by the Green Fund (Prasino Tameio).

The program that was moderated by Anastasios Stamou and Vassilios Tsihrintzis started with the introductory speeches made by Andreas Boudouvis, Rector of the NTUA, Dimitris Kaliampakos, Vice President of NTUA-AMDC, and Spyridoula Ntemiri, Representative of the Green Fund.

The presentations were made by Dionysis Assimakopoulos, Chrysi Laspidou, Ellis Penning and Despina Kallidromitou.



Andreas Boudouvis



Dimitris Kaliampakos



Spyridoula Ntemiri



Dionysis Assimakopoulos
Exploring Climate Adaptation Actions in the Greek Water Sector. The LIFE-IP AdaptInGR GR Example



Chrysi Laspidou
Water Governance: Tackling Climate Crisis Challenges



Ellis Penning
Research and Innovation Agenda for hydropower as catalyst for the energy transition in Europe



Despina Kallidromitou
Hydraulic Engineering in the Era of Extreme-Scale Computing and Data-Driven Modeling

Closing Ceremony – Awards – Next IAHR Congresses

IAHR EUROPE REGIONAL HYDRO-ENVIRONMENT HERITAGE AWARD. The IAHR Regional Hydro-Environment Heritage Award is conferred by IAHR during IAHR Regional Congresses on a local infrastructure of lasting and international importance. It has the purpose of giving international professional recognition to the work of local hydro-environment engineers, and the infrastructure should demonstrably have stood the test of time (be at least one hundred years old!) and be accepted and valued nationally. The award was given to the most important project for the water supply of Athens that is the Aqueduct of Hadrian, built in 134 AD up to 140 AD by the Roman Emperor Hadrian. The Hadrian's Aqueduct started at the foot of the mountain Parnitha and ended at Lycabettus, where the Hadrian's Tank was built. The award was given by Anastasios Stamou to George Sachinis, Director of Strategy and Innovation at EYDAP SA.



GERHARD JIRKA AWARD FOR YOUNG RESEARCHERS. The Gerhard Jirka Award for Young Researchers awards the best presentation given by a Young Professional during the biennial IAHR Europe Division Congress. The award was introduced at the 5th IAHR Europe Congress in Trento in 2018 and was created in memory of Prof. Gerhard Jirka. The award recognises the quality, originality and relevance of the presentation. The first winner of the Gerhard Jirka Award was Victoria Barcala Paolillo (The Netherlands) and the award was presented by Wolfgang Rodi. The 2nd prize was given to (Italy) and Giorgos Mitsopoulos (Greece); the awards were presented by Panagiotis Prinos and Corrado Gisonni, respectively.

JOURNAL OF MARINE SCIENCE AND ENGINEERING AWARD. The Journal of Marine Science and Engineering supported the outstanding research work of one Young Scientist. The award price was 500 CHF and was granted to the best-submitted paper during the 7th IAHR Europe Congress under the theme of "ECS: Estuaries, Coasts and Seas" that was by Vanessa A. Godoy (Spain).

NEXT IAHR CONGRESSES. An important part of the closing ceremony was the presentation of the venue and plans for the next IAHR Congresses. Michael Tritthart made a presentation of the 40th IAHR World Congress that will be held in the Austria Center in Vienna from the 21st until the 25th of August 2023. Francisco Taveira Pinto presented the 8th IAHR Europe Congress "Water –

Across Boundaries” that will take place in the LTNEC in Lisbon from the 4th until the 7th of June 2024.



Anastasios Stamou presents the IAHR EUROPE REGIONAL HYDRO-ENVIRONMENT HERITAGE AWARD to George Sachinis, Director of Strategy and Innovation at EYDAP SA



Wolfgang Rodi presents the Gerhard Jirka Award for Young Researchers to Victoria Barcala Paolillo



Panagiotis Prinos presents the 2nd prize of Gerhard Jirka Award for Young Researchers to Erica Orsi



Corrado Gisonni presents the 2nd prize of Gerhard Jirka Award for Young Researchers to Giorgos Mitsopoulos



Michael Tritthart presents
the next World Congress in
Vienna

Francisco Taveira Pinto
presents the next Europe
Congress in Lisbon

Anastasios Stamou presents the
Memorial Volume in honour of
Prof. Gerhard H. Jirka to the
host of the next Europe
Congress
Francisco Taveira Pinto



The last moments of the Athens Congress. See you in Vienna and Lisbon!

Proceedings



Stamou, Anastasios & Tsihrintzis, Vassilios
Innovative Water Management in a Changing Climate /
Abstract book of the 7th IAHR Europe Congress
Athens, Greece (E-BOOK). ISBN 978-618-85675-3-5
Statistical data

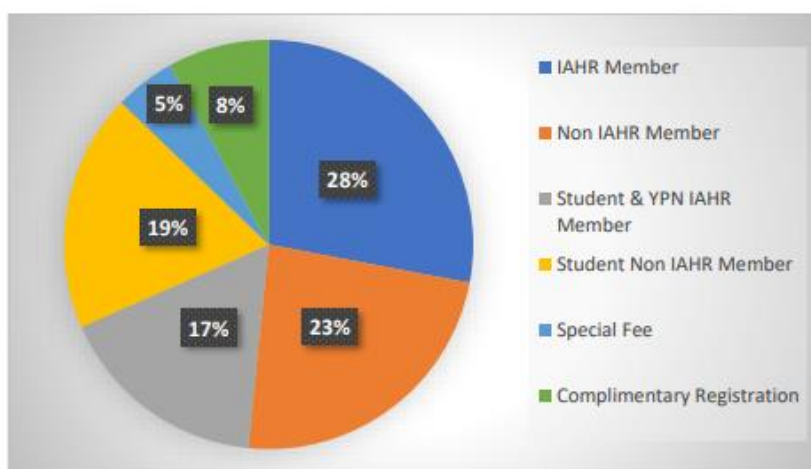
Total registration per country

No	Country	Participants
1	Austria	2
2	Canada	1
3	Chile	1
4	Colombia	1
5	Croatia	2
6	Denmark	1
7	Estonia	2
8	France	10
9	Germany	18
10	Greece	90
12	Hungary	3
13	India	1
14	Ireland	1
15	Italy	42
16	Japan	1

No	Country	Participants
17	Malaysia	1
18	Norway	5
19	Poland	4
20	Portugal	7
21	Serbia	1
22	Slovenia	1
23	Spain	14
24	Sweden	2
25	Switzerland	6
26	The Netherlands	11
27	Turkey	4
28	United Kingdom	11
29	United States	7
Grand Total		250

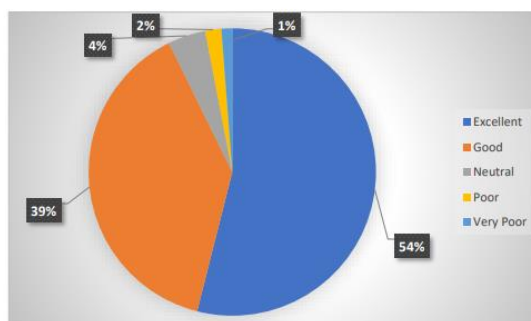
Registration per category

Category	Participants
IAHR Member	70
Non IAHR Member	59
Student & YPN IAHR Member	42
Student Non IAHR Member	47
Special Fee	12
Complimentary Registration	20
Grand Total	250

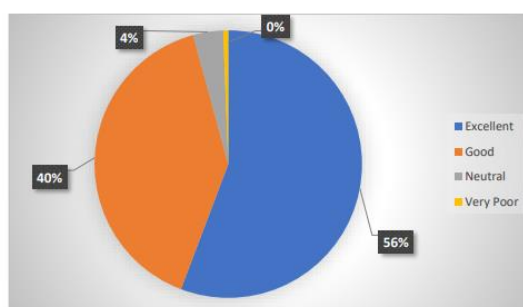


Congress Evaluation Results

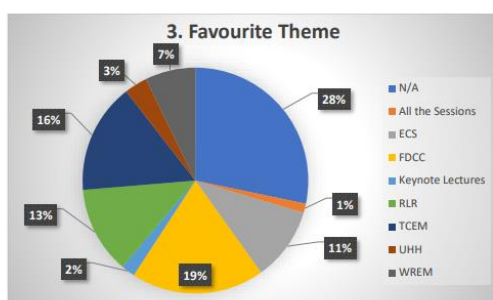
1. Overall Event Organisation
(165 responses)



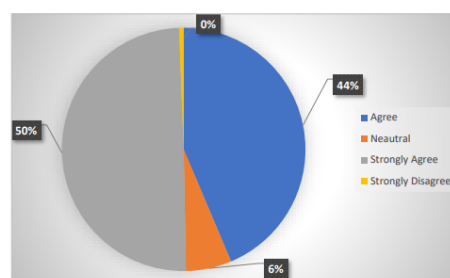
2. Congress Programme
(165 responses)



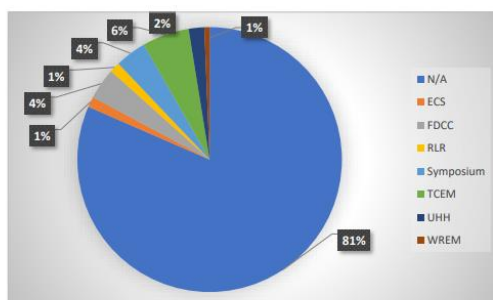
3. Favourite Theme
(152 responses)



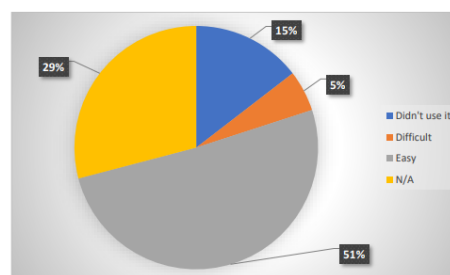
5. Educational Goals
(165 responses)



4. Least Favorite Theme
(157 responses)



6. Congress Mobile App Accessibility
(165 responses)



Acknowledgements

The Congress was organized Under the Auspices and Support of the following



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