

## ΑΝΑΚΟΙΝΩΣΗ

Το UNESCO Κέντρο Ολοκληρωμένης Διεπιστημονικής Διαχείρισης Υδατικών Πόρων (ΚΕΟΔΔΥΠ) του ΑΠΘ διοργανώνει, σε συνεργασία με την UNESCO's Intergovernmental Hydrological Programme (IHP), το Youth Delegates to the World Water Council (YDWWC) και την International Association for HydroEnvironment Engineering and Research (IAHR) διαδικτυακό επιστημονικό συνέδριο "Emerging water challenges since COVID-19"

<http://www.keody.auth.gr/youthcongress>

Το συνέδριο θα πραγματοποιηθεί από 6-8 Απριλίου 2022 και απευθύνεται σε νέους επιστήμονες.

Ακολουθεί το πρόγραμμα του συνεδρίου.

Οποιοι/όποια ενδιαφέρεται να το παρακολουθήσει ας επικοινωνήσει με τον Κ. Βουδούρη (knoudour@geo.auth.gr)

Εκ μέρους της Οργανωτικής Επιτροπής

Κ.Βουδούρης

## “Emerging water challenges since COVID-19”

Time (CET)	Wednesday, April 6 2022	
12:00 - 13:00	Opening of the Online Water Youth Congress UNESCO representative (tbd) Nikolaos Papaioannou Rector Aristotle University of Thessaloniki (tbc) Tom Soo IAHR Executive Director Philip Kruse Youth Delegates to the World Water Forum  Keynote speaker: Neno Kukurić IGRAC (International Groundwater Resources Assessment Centre)	
13:00 - 14:15	THEME 1: Water related disasters and climate crisis Session 1	THEME 4: Management of groundwater resources, the “invisible water” Session 1
14:15 - 14:30	Session Q&A and discussion	Session Q&A and discussion
14:30 - 14:45	Coffee break with mentors	
14:45 - 16:00	THEME 1: Water related disasters and climate crisis Session 2	THEME 1: Water related disasters and climate crisis Session 3
16:00 - 16:15	Session Q&A and discussion	Session Q&A and discussion
16:15 - 16:30	Coffee break with mentors	
16:30 - 17:00	Virtual Coffee break	
17:00 - 18:00	THEME 5: Water-related issues of inclusiveness (culture/ gender/ indigenous peoples) Session 1	
18:00 - 18:15	Session Q&A and discussion	
18:15 - 18:30	Coffee break with mentors	

Time (CET)	Thursday, April 7, 2022	
11:00 - 11:30	Welcome 2nd day Keynote speaker: Drizz Ouazar Mohammed V University, Morocco	
11:30 - 12:45	THEME 4: Management of groundwater resources, the “invisible water” Session 2	
12:45 - 13:00	Session Q&A and discussion	
13:00 - 13:15	Coffee break with mentors	
13:15 - 14:30	THEME 1: Water related disasters and climate crisis Session 4	
14:30 - 14:45	Session Q&A and discussion	
14:45 - 15:00	Coffee break with mentors	
15:00 - 15:45	THEME 3: Resilience of societies and “digital” communication and cooperation Session 1	
15:45 - 16:00	Session Q&A and discussion	
16:00 - 16:15	Coffee break with mentors	
16:15 - 17:15	WASH Advocacy Training for Young Professionals Session 1	
17:15 - 17:30	Coffee break	
17:30 - 18:30	WASH Advocacy Training for Young Professionals Session 2	

Time (CET)	Friday, April 8, 2022	
12:30 - 13:00	Welcome 3rd day Key Responses from World Water Forum 9	
13:00 - 15:00	Expert's Roundtable on The water “job” system in the Meta COVID-19 era Ph. Koundouri Athens University of Economy and Business, Greece J. Newton Josh Water Jobs, Independent consultant, USA S. Montenegro, Federal University of Pernambuco, CEO of Water Agency of Pernambuco, Brazil	
15:00 - 15:30	Session Q&A and discussion	
15:30 - 16:00	Closure of the Online Water Youth Congress	

# Emerging water challenges since COVID-19

## DAY 1

APRIL 6 2022  
ROOM 1 (12:00-13:00 CET)

Keynote speaker: Neno Kukurić  
International Groundwater Resources Assessment Centre IGRAC  
Title: Groundwater - Making Invisible Visible!

SESSION 1 - ROOM 1 (13:00 - 14:30 CET)			
THEME 1: Water-related disasters and Climate Crisis			
Chair Mentor: Daisuke Nohara Kajima Technical Research Institute, Japan Chair Mentor: Athanasios Loukas Aristotle University of Thessaloniki, Greece OC member: D.Latinopoulos			
no	Authors	Title	Country
1	Gebiw Ayele	How much is sufficient? Assessing land use change impacts to improve water quality	Australia
10	Sejil Tüzün Duğan and Ayşe Muhammetoğlu	Evaluation of Aksu Stream water quality under the influence of anthropogenic pollution and climate change	Turkey
12	Sophie Scott, James Shucksmith, Henriette Jensen, Jacqueline Diaz-Nieto and Isabel Douterelo Soler	Urban floods: the microbial risk to human health	UK
21	Arqa Pribadi Imawan and Dias Prasongko	"Communicate Science and Policy: The Making of Boundary Work in WASH Project"	Indonesia
38	Luma Gabriela Fonseca Alves, Maria Eduarda Veiga and Carlos Galvao	The impact of SUDS implementation in the water metabolism of an urban catchment	Brazil
30	Pawel Jarosiewicz and Maciej Zalewski	From monitoring pollutants dynamics in the catchment to the development of Ecological Nature-based Solutions	Poland
37	Borko Radivojevic, Aleksandra Ilic, Dragan Radivojevic and Milan Gotic	Assessment of climate change impact on surface water regime in Serbia	Serbia
24	Suiven John Paul Tume	Resilience of Urban water Supply Systems to Climate Change in Cameroonian Cities	Cameroon
Session Q&A and discussion			

SESSION 2 ROOM 1 (14:45 - 16:15 CET)			
THEME 1: Water-related disasters and Climate Crisis			
Chair Mentor: Q.D. Feyo UNESCO water-specialized Center, Nigeria Chair Mentor: Capucine Dupont UNESCO IHE-The Netherlands Chair Mentor: Mustafa Samad, Bechtel Cooperation USA OC member: Karishma Assodani			
no	Authors	Title	Country
59	Thandeka Iwara	CO2 Fraction as Means of Enhancing Wastewater Treatment – South Africa Based Case study	South Africa
61	Oluwarinu Adepoju, Mary Bisi-Johnson and Modupe Adesiyun	Antibiotic Resistance and Biofilm Formation Potentials of Plesiomonas shigelloides from Selected surface waters in Southwestern, Nigeria.	Nigeria
46	Kais Fedhila, Ibtissem Chakroun, Rzigha Hichem, Amina Bakrouf and Ridha Mzoughi	The effects of the combination of Chlorella and Lemna minor on Textile Industry Wastewater Treatment	Tunisia
35	José Gesclám Sousa Mota Uchôa and Iran Eduardo Lima Neto	Computer simulation of leakage water flow in pipes	Brazil
27	Sakila Lakshan and Tharinda Denagama	Study on post Environmental, Economical and Socio cultural effects to the Sri Lankan western coastal belt due to X-press pearl disaster	Sri Lanka
4	Mustafa Safarov	Debris flow monitoring and assessment using UAV, South-West Tajikistan	Tajikistan
16	Ravi Kant Bhardwaj, Manish Kumar and Deepak Kumar	Analysis of COVID-19 Biomedical Waste Generation in India and its impact on water Resources	India
Session Q&A and discussion			

SESSION 3 ROOM 1 (17:00-18:15 CET)			
THEME 5: Water-related issues of Inclusivity (Culture, Gender, Indigenous Peoples)			
Chair Mentor: Frédérique Lararte, Université Gustav Eiffel, France Chair Mentor: Amparo Lopez, Universidad Politécnica de Valencia, Spain OC member: Philip Kruse			
no	Authors	Title	Country
22	Sivanrajani J	Analysis of water quality and its consequences on Stakeholders by using Rapid appraisal- A study on Odambogayyar river, Thiruvananthapuram District, TamilNadu, India.	India
41	Nguyen Bich-Ngoc and Jacques Teller	Reassessing the social equity objective of currently popular water tariffs	Belgium
47	Ayodele Temidayo Odularu	Access to quality drinking water and its health implication among indigenous people	South Africa
52	Himbu Herath, Srdg Herath, Bm Hettiarachchi, Hf Hima, Rag Imalsha, Dart Weerasinghe, Hikap Ruwanthika, Khaww Rupasingha and Tant Perera	Surgical face masks as an emergent pollutant in aquatic environments during COVID – 19 pandemic: A review	Sri Lanka
55	Luisa Fernanda Uribe Laverde	Water quality in urban rivers: River Fucha Case Bogota, Colombia	Colombia
60	Bazie Ywo Josué and Traore Casimir	Water accessibility impact on girls' participation in Maths education activities in Niangoloko-Burkina Faso	Burkina Faso
Session Q&A and discussion			

SESSION 1 - ROOM 2 (13:00 - 14:30 CET)			
THEME 4: Management of groundwater resources, the "invisible" water			
Chair Mentor: Polemio M., Italian National Research Council, Italy Chair Mentor: Karatzas G., Technical University of Crete, Greece OC member: Voudouris K.			
no	Authors	Title	Country
14	Gianluigi Busico and Fabrizio Rama	Estimation of intrinsic aquifer vulnerability at continental scale: The case of South America	Italy
28	Alkaterini Lyra, Athanasios Loukas, Georgios Tziatzios, Pantelis Sidiropoulos, Nikitas Mylopoulos and Konstantinos Voudouris	Intercomparison of Water Resources Management Scenarios in Almyros Basin, Magnesia, Greece	Greece
48	Christos Christidis	Delineation of groundwater potential zones in hard rock aquifers using satellite images, in Sithonia Peninsula, N. Greece	Greece
33	V K Haritha and L Elango	Entrapment of air in unsaturated zone and its impact on groundwater recharge	India
42	Mylenni Guerra Lima Suggal and Claudio Antonio Di Mauro	SDG-6 and the relevance of Water Resources Management Instruments.	Brazil
19	Omowumi Ademila and John Oluokunle Ademila	Development and Management of Groundwater Resources in a Hard Rock Terrain of Southwestern Nigeria	Nigeria
54	Alexandra Tzika, Georgios Tziatzios, Alkaterini Lyra, Pantelis Sidiropoulos, Nikitas Mylopoulos and Athanasios Loukas	Groundwater vulnerability assessment using the DRASTIC method in the Lake Karla aquifer, Thessaly, Greece	Greece
Session Q&A and discussion			

SESSION 3 ROOM 2 (14:45 - 16:15 CET)			
THEME 1: Water-related disasters and Climate Change			
Chair Mentor: R. Teegavarapu, Florida Atlantic University, USA Chair Mentor: Jovan Despotovic, University of Belgrade, Serbia OC member: Ejsida Kolokytha			
no	Authors	Title	Country
15	Aishwarya Awari	Groundwater potential zones mapping of Nanak Sagar catchment using GIS, remote sensing and MIF technique	India
34	Tereza Margarida Xavier de Melo Lopes, Antonio Duarte Marcos Junior, Samira Maria Oliveira da Silva and José Gesclám Sousa Mota Uchôa	Analysis of the influence of socioeconomic variables on urban water demand	Brazil
40	Katherine Villalta, Sara Davila, Anoop Valya Veetil, Ripendra Awal and Ail Fares	Estimation of On-Farm Carbon and Greenhouse Gas Emissions across spatially and climatically variable locations in Texas	USA
44	Rongxuan Wang, Md. Alamin, Shohei Tsuji, Hiroe Hara-Yamamura, Akihiko Hata, Bo Zhao, Masaru Ihara, Hiroaki Tanaka and Ryo Honda	Comparison of removal performance of SARS-CoV-2 in wastewater by membrane bioreactor and conventional activated sludge process	Japan
50	Kalamei Wongibe, Dubla Tracy and Emily Kongla	Ocean and water bodies protection	Cameroon
62	Antidius Raphael	Ecology for Sustainable Water Resources Management and Climate Change Adaptation: A need for Intensive Youth Mobilization	Tanzania
9	Llata Palomero	Flooding prevention at Balearic Islands, Spain	Spain
Session Q&A and discussion			

# Emerging water challenges since COVID-19

## DAY 2

### ROOM 1 (11:00 - 11:30 CET)

APRIL 7 2022

Keynote speaker: Drizz Ouazar, Mohammed V University Morocco

### SESSION 2 ROOM 1 (11:30 - 13:00 CET)

**THEME 4: Management of groundwater resources, the "invisible" water**  
 Chair Mentor: Colombani N. Università Politecnica delle Marche, Italy  
 Chair Mentor: Voudouris K., Aristotle University of Thessaloniki, Greece  
 OC member: Karpouzou D.

no	Authors	Title	Country
6	Clara Estrela-Segrelles, Jenifer Pérez-Salvador, Siro Cabedo-Martí, Ana Fito-Burgalat, José Ramón Jiménez Salas and Ignacio Sangüesa Roger	Improvement of the drinking water supply guarantee in the province of Castellón (Spain)	Spain
51	Stylianou Voudouris	Contribution to rational groundwater management in Korinthia Prefecture, South Greece	Greece
53	Sibianka Lepuri and Aikaterini Lyra	Analytical Hierarchy Process (AHP) in Aquifer Vulnerability Assessment using the DRASTIC method in Almyros, Greece	Greece
23	Vasileios Giannopoulos, Emmanuel Andreadakis, Emmanuel Skourtsos and Christos Filis	Hydrogeological model of North-eastern Attica	Greece
32	Chinche Sylvie Belengf, Tuekam Kayo Raoul Polycarpe and Zebaze Togouet Serge Hubert	Impact of physicochemical parameters on biodiversity and groundwater quality in Tiko, Cameroon	Cameroon
56	Elena Del Gaudio, Stefania Stevenazzi and Daniela Ducci	Design and application of an open-source 3D/4D geo-database: the case study of the Volturno Plain in Southern Italy	Italy
45	Kwikiriza Benon and Tushabomwe Brian	Groundwater Monitoring: The importance of long term data	Uganda
64	Nerantzis Kazakis	Strategies to mitigate the phenomenon of Groundwater depletion in the Mediterranean region	Greece
Session Q&A and discussion			

### SESSION 1 ROOM 1 (15:00-16:00 CET)

**THEME 3: RESILIENCE OF SOCIETIES AND DIGITAL COMMUNICATION AND COOPERATION**  
 Chair Mentor: Emma Weisbord (Royal HaskoningDHV) The Netherlands  
 Chair Mentor: Eva Fenrich, Esslingen University of Applied Sciences, Germany  
 OC member: D. Latinopoulos

no	Authors	Title	Country
5	Angelos Alamanos, Phoebe Koundouri, Lydia Papadaki and Tatiana Pliakou	Digital management of irrigation water and agriculture: Transparency and accountability towards resilience and sustainable development	Ireland
11	Łukasz Przyborowski and Anna Maria Łoboda	Local water monitoring activities as inclusive, modern ecological education - Poland perspective and proposal.	Poland
36	Bunmi Deborah Millennial-Oriagbo	Society Resilience and "digital" communication and cooperation to reduce Global "Emerging water Challenges since COVID-19"	Nigeria
63	Sabrina Farah Salsabilla	Building Infiltration Well: How Does Digital Solution Help?	Indonesia
Session Q&A and discussion			

### SESSION 4 ROOM 1 (13:15 - 14:45 CET)

**THEME 4: Water related disasters and Climate Change**  
 Chair Mentor: Cybelle Braga, Federal Institute of Paraiba Brazil  
 Chair Mentor: Carlos Galvao, Campina Grande, Brazil  
 OC member: Elpida Kolokytha

no	Authors	Title	Country
20	Nilusha Perera	Hydrological modelling (Soil Water Analysis Tool) in Water-related disasters and climate crisis: A review	Sri Lanka
25	Samuel Akande, Olamide Oni and Nelson Adeyemi	Modelling the Climate Change and Land Use impacts on Land-Water-Energy Nexus over Nigerian Hydropower Generation	Nigeria
29	Mowmita Taher and Naem A.S.M Julker Naem	Trends in climate variables and their effect on water requirement for tea cultivation in the northeast region.	Bangladesh
43	Emanuela Kiri	Analysis of water levels fluctuations in Prespa and Ohrid Lakes (period 2010-2021)	Albania
49	Dariana Isamel Avila Velasquez, Manuel Augusto Pulido Velázquez and Héctor Macián Sorribes	Improvement of water management for irrigation in Mediterranean basins combining remote sensing, weather forecasting, and artificial intelligence.	Spain
39	Andre Dani Mawardi, Chandra Oktavianus Debatara and Pretty Luci Lumbanraja	Water-Food-Health Nexus for Better Understanding on Relationship of Covid-19 and Water Productivity: Simulated Case Study on Sugarcane	Indonesia
2	Pauline Lokidor	Modelling nature-based solutions to control flooding in Kibera slum, Nairobi, Kenya	Kenya
Session Q&A and discussion			

### SESSION 1 ROOM 1 (16:15-17:15 CET)

**WASH Trainig For Young Professionals\***  
 Coordinator: Philip Kruse  
 Coordinator : Karishma Assodani

### SESSION 2 ROOM 1 (17:30-18:30 CET)

**WASH Trainig For Young Professionals\***  
 Coordinator: Philip Kruse  
 Coordinator : Karishma Assodani

\*The training has been prepared by Action Against Hunger France in cooperation with the Youth Delegates to the World Water Council, UNESCO IHP and the World Water Council.

# Emerging water challenges since COVID-19

## DAY 2

### ROOM 1 (11:00 - 11:30 CET)

APRIL 7 2022

Keynote speaker: Drizz Ouazar, Mohammed V University Morocco

### SESSION 2 ROOM 1 (11:30 - 13:00 CET)

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Session Q&A and discussion			

### SESSION 4 ROOM 1 (13:15 - 14:45 CET)

**THEME 4: Water related disasters and Climate Change**  
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 Chair Mentor: Carlos Galvao, Campina Grande, Brazil  
 OC member: Elpida Kolokytha

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**WASH Trainig For Young Professionals\***  
 Coordinator: Philip Kruse  
 Coordinator : Karishma Assodani

### SESSION 2 ROOM 1 (17:30-18:30 CET)

**WASH Trainig For Young Professionals\***  
 Coordinator: Philip Kruse  
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# Emerging water challenges since COVID-19

## DAY 3

April 8

### ROOM 1 (12:30-13:00 CET)

**Key Responses from World Water Forum 9**  
Karisma Asoodani Young Delegate, Asia , World Water Forum

### ROOM 1 (13:00-15:30 CET)

**THEME 2: The water “job” system in the Meta COVID-19 era**  
Chair: Elpida Kolokytha, Micheal Nones , Philip Kruse, Karishma Asoodani

#### Expert’s Roundtable

**The water “job” system in the Meta COVID-19 era**

**Phoebe Koundouri** Athens University of Economy and Business, Greece  
**Josh Newton** Josh Water Jobs, Independent consultant, USA  
**Suzana Montenegro**, Federal University of Pernambuco, CEO of Water Agency of Pernambuco, Brazil

### ROOM 1 (15:30-16:00 CET)

Closing remarks