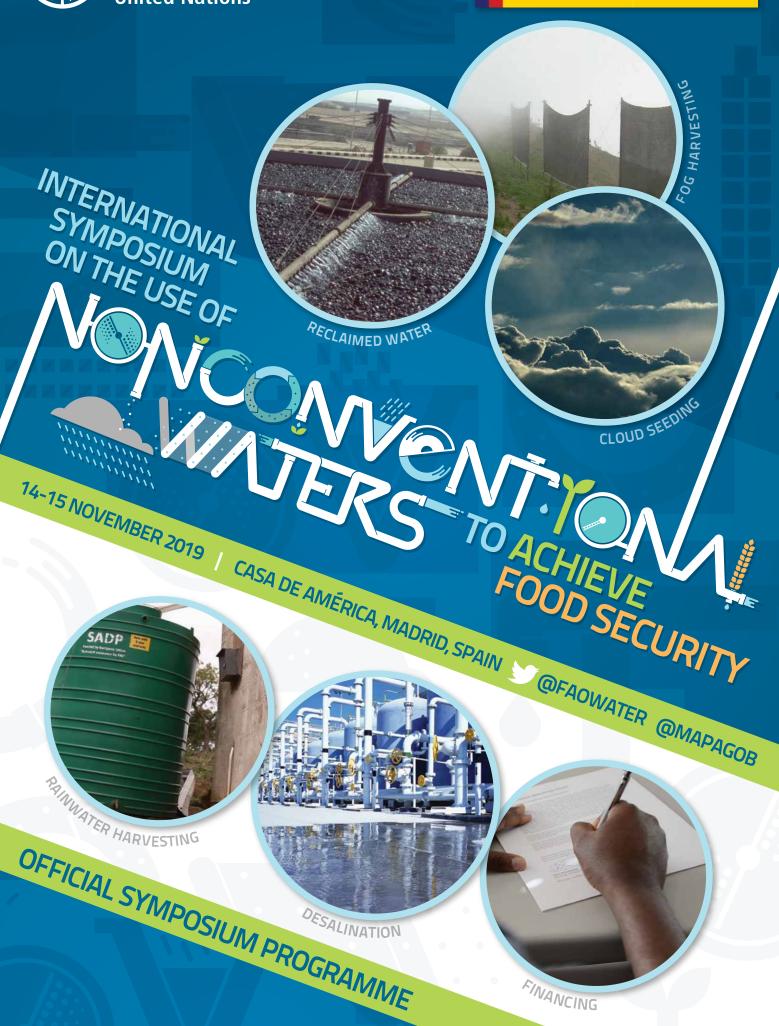




FINANCING



INTERNATIONAL SYMPOSIUM ON THE USE OF NONCONVENTIONAL WATERS

The Food and Agriculture Organization of the United Nations (FAO) and the Government of Spain are co-hosting the International Symposium on the Use of Non-Conventional Waters for Achieving Food Security in Casa de América, Madrid, Spain, on November 14 and 15, 2019.

During the event, we will share experiences on reclaimed wastewater, desalinated water, and rainwater, to fog and cloud harvesting. The event presents an opportunity to discuss new mechanisms of collaboration between businesses, technology suppliers, government and other stakeholders to accelerate the needed transitions in the water and agri-food sector. During the event, we will also share the government policy incentives as well as regulatory and financing changes to enable adoption of technology innovations to achieve the Sustainable Development SDGs.

PROGRAMME COMMITTEE

CHAIR OF COMMITTEE

Sasha Koo-Oshima, Deputy Director, Land and Water Division, FAO

ORGANIZING TEAM (In alphabetical order by last name)

CO-CHAIRS

Enrique Yeves

Marta Cimas Hernando, Deputy Director of International Relations and EU Affairs, MAPA María Fernández Sanz, Deputy Director Irrigation and Rural Infrastructures, MAPA

	Maki Abdourahman	Land and Water Officer, Sub Regional Office for North Africa, FAO
	Marina Alvarez Fernández	Head of International Relations – FAO, MAPA
	María Felicia Arnal	Water and Climate Change Consultant, Land and Water Division, FAO
	Ines Beernaerts	Land and Water Officer, Sub Regional Office for Meso-America, FAO
i	René Castro Salazar	Assistant Director General, Climate, Biodiversity, Land and Water Department, FAO
,	Rosa Collado Conde	Senior Adviser, Directorate Rural Development, Innovation and Forest Policy Directorate, MAPA
	Marlos De Souza	Senior Officer, Land and Water Division, FAO
	Maryse Finka	Office Assistant, Land and Water Division, FAO
	Manuel Flores Ruíz	WASAG Consultant, Land and Water Division, FAO
	Antonio Flores Lorenzo	Spanish Permanent Representative to FAO
	Patricia Mejías Moreno	Land and Water Officer, Land and Water Division, FAO
	Yo Nishimura	Associate Professional Officer, Land and Water Division, FAO
	Patricia Pascau	Communications Expert, Information Office for Spain and Andorra, FAO Spain
	Ana Pellicer Vázquez	Program Manager, Casa de América
	Sofia Ramirez Fonda	Office Assistant, Land and Water Division, FAO
	Guadalupe Rubio Pinillos	Technical Director, Directorate Rural Development, Innovation and Forest Policy Directorate. MAPA

Head of Information Office for Spain and Andorra, FAO Spain

MESSAGE FROM THE FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS - FAO

Freshwater scarcity already affects every continent, and it is expected to intensify over time due to an increase in demand from all water users and a rise in population. There is a growing need for targeted investments in water and energy efficient infrastructures. Additional factors of climate change and erratic rainfall patterns will pose risks to agriculture with impacts on food security in water scarce regions.

The global water community at large supports efforts in water-scarce countries and communities to go beyond conventional water resources and plan for nonconventional water resources to augment supply. This support stems from the objective to narrow the water demand-supply gap; and to achieve Sustainable Development Goals (SDGs) SDG1, SDG2, SDG3, SDG6, SDG7, SDG9, SDG13 and SDG14, calling collectively for achieving zero hunger and for achieving clean water and sanitation for all by the year 2030.

The water sector is in a pivotal moment, and finding innovative solutions is key to meeting food and water security!

Our gratitude is extended to all the participants, the speakers, the Programme Committee, the Ministry of Agriculture, Fisheries and Food (MAPA), and FAO's Land and Water Team in the steadfast contribution to the joint endeavors of this highly anticipated event.

We look forward to your fruitful contribution to this Symposium,



René Castro Salazar Assistant Director General, Climate, Biodiversity, Land and Water Department FAO



Sasha Koo-Oshima
Deputy Director,
Land and Water Division
Head of Water
FAO



MESSAGE FROM THE MINISTRY OF AGRICULTURE, FISHERIES AND

FOOD OF SPAIN - MAPA

Water is life. The International Symposium on the Use of Nonconventional Waters to Achieve Food Security is a unique opportunity to share Spanish wide experience on nonconventional water management. Irrigation systems represent 60-70 percent of water withdrawals in Spain. Considering the need to meet food demand from global population growth, we must strive for a sustainable use of this natural resource while contributing to the goals and targets of UN Agenda 2030.





MESSAGE FROM THE GLOBAL FRAMEWORK ON WATER SCARCITY IN AGRICULTURE - WASAG

WASAG global partnership aims at delivering concrete outcomes towards the goal for addressing water scarcity through six partner-led Working Groups focusing on: water and migration, drought preparedness, financing mechanisms, water and nutrition, sustainable agricultural water use and bio saline agriculture. Non-conventional sources of water are critically important as part of the solution to address water scarcity. For WASAG, the International Symposium on the Use of Nonconventional Water to Achieve Food Security will be an important step forward in our quest to deal with water scarcity.



Torkil Jonch Clausen Chair, WASAG

MESSAGE FROM THE INTERNATIONAL WATER ASSOCIATION - IWA



Kalanityh Vairavamoorthy
Executive Director,
IWA

We are dealing with a system of systems and hence we need systems-based responses – something the IWA supports and pursues. Sound management of water, and the attainment of end goals such as the universal access to safe water and sanitation, can only be achieved with broad institutional progress and the efforts of all relevant stakeholders. Reuse of wastewater can supplement agricultural supplies directly, as a non-conventional water resource, or indirectly ease pressure on sources used by agriculture by reducing the demand of other sectors.



AGENDA

Thursday, 14 November 2019

PLENARY AND TECHNICAL SESSIONS

ENTRANCE BY CALLE MARQUÉS DEL DUERO, 2

ENTRAINCE BY	CALLE MARQUES DEL DUERO, 2
Time	Title
9:00 - 9:30	REGISTRATION Anfiteatro de Casa de América
9:30 - 10:30	OPENING CEREMONY
	 Plenary Room: Anfiteatro de Casa de América (EN-SPA-FR interpretation available) Master of Ceremony: Mr Enrique Yeves, Head of Information Office for Spain and Andorra, FAO Welcome remarks Mr René Castro de Salazar, Assistant Director-General, Climate, Biodiversity, Land and Water Department, FAO Ms Danielle Gaillard Picher, Vice Chair of the Global Framework on Water Scarcity in Agriculture (WASAG)/ Director of Policy and Programs, World Water Council (WWC) Ms Aina Calvo Sastre, Director, Spanish Agency of International Cooperation (AECID), Spain Ms María Dolores Ocaña Madrid, Under-Secretary General, Ministry of Agriculture, Fisheries and Food (MAPA), Spain Keynotes Mr Kalanithy Vairavamoorthy, Executive Director, International Water Association (IWA) Ms Cristina Gallach, High Commissioner of the Spanish Government for the 2030
	Agenda
	Closing of Opening Ceremony (and announcement of next Session start time)
10:30 - 11:00	NETWORKING COFFEE BREAK FOR PARTICIPANTS (GROUP PICTURE IN THE GARDEN)
11:00 - 12:30	TECHNICAL SESSION 1 – ACHIEVING THE SDGS
	Plenary Room: Anfiteatro de Casa de América (EN-SPA-FR interpretation available)
	Title: "How to make it happen"
	Chair: Ms Sasha Koo-Oshima , Deputy-Director, Land & Water Division, FAO
	Panel for setting the scene on Finance, Policy and Technology: • Mr Shony Goldberger, Head of the Jerusalem District, Ministry of Environment, Israel
	Mr Claudio Bacigalupi, International Cooperation and Development Unit –
	Environment, Natural Resources, Water, European Commission (EC)
	Ms Teresa Navarro, Director of Water and Sustainability, University of Murcia, Spain Ms Hoba Abmed Water Resources and Irrigation Specialist, World Rapk
	 Ms Heba Ahmed, Water Resources and Irrigation Specialist, World Bank Mr Oriol Bellot, Head of Projects Department, Suez Agriculture
	Ms Valeria Silvestri, Water Management and Rural infrastructure Expert, International
	Fund for Agriculture Development (IFAD)
	Ms Maria Lahore, Principal Executive, Development Bank of Latin America (CAF)
	Questions and Answers Wrap-up by the Chair
	Rapporteur: Mr Francesc Hernández , Professor in Water Economics, University of Valencia

Title
LUNCH BREAK
TECHNICAL SESSION 2 – NONCONVENTIONAL WATER & FOOD SECURITY
Plenary Room: Anfiteatro de Casa de América
Title: "The Untapped opportunities"
Chair: Mr Marlos de Souza, Senior Officer, Land and Water Division, FAO
Thematic Presentations • Ms Aslihan Kerc, Chair, Global Wastewater Initiative, Turkish Water Institute (SUEN)
 Mr Wang Yaosheng, Professor, Institute of Environment and Sustainable
Development in Agriculture, Chinese Academy of Agricultural Science (CAAS)
 Mr Ahmed Uleimat, ASG for Labs and Quality Affairs, Water Authority, Ministry of Water and Irrigation, Jordan
 Ms Natalia Carbonell, Technical Manager, State Society of Agricultural Infrastructure,
MAPA, Spain
Ms Akissa Bahri, Former Director, African Water Facility (AWF), Tunisia Ma Akissa Bahri, Former Director, African Water Facility (AWF), Tunisia
 Mr Andrés del Campo García, President, National Federation of Irrigators' Communities (FENACORE), Spain
Questions and Answers
Wrap-up by the Chair
Rapporteur: Mr James D. Oster, Department of Environmental Sciences,
University of California
NETWORKING COFFEE BREAK
PARALLEL SESSION 1.1 – DESALINATION
Room: Sala Simón Bolívar
Title: "Advancing Desalination: reducing energy consumption and environmental footprint"
Chair: Mr Kalanithy Vairavamoorthy , Executive Director, International Water Association (IWA)
Thematic Presentations
 Mr Zaidan AbuZuhry, WASH Officer, Seawater Desalination Plant Project, Nations Children's Fund (UNICEF)
 Mr Antonio Borrero, Director, Africa and Europe, Water Deparment, Abengoa, Spain
 Mr Nicholas Sloane, Director, Resolve Marine Group, Cape Town, South Africa
Mr Nikolay Voutchkov, DTRI and Saline Water Conversion Cooperation, Saudi Arabia
 Mr Domingo Zarzo Martínez, Technical and Innovation Manager, SACYR Water Services, Spain
·
 Ms Dionysia Lyra, International Centre on Biosaline Agriculture (ICBA), United Arab
Emirates
•
Emirates

Time	Title
16:00 - 17:30	PARALLEL SESSION 1.2 – FIT FOR PURPOSE WATER REUSE
	Plenary Room: Anfiteatro de Casa de América
	Title: "Accelerating implementation"
	Chair: Ms Birguy Lamizana-Diallo , Programme Officer, Wastewater Initiative, UN Environment
	Thematic Presentations
	 Mr Enrique Fernández Escalante, Tragsa Group/International Association of Hydrogeologists (IAH), Spain
	 Mr James D. Oster, Department of Environmental Sciences, University of California
	 Mr Javier Mateo-Sagasta, Coordinator-Water Quality, International Water Management Institute (IWMI)
	 Mr Redouane Choukr-Allah, Professor at IAV Hassan II Agadir, Morocco
	 Mr Falk Momber, Planning Officer, Water, Wastewater and Waste Management, GIZ, Germany
	 Ms Ana Allende Prieto, Senior Researcher, Center of Edaphology and Applied Biology- Superior Council of Scientific Investigation (CEBAS-CSIC), Spain
	Facilitated panel discussion / Questions and Answers
	Wrap-up by the Chair
	Rapporteur: Mr Nikolay Voutchkov , DTRI and Saline Water Conversion Cooperation, Saudi Arabia
17:30 - 19:30	CULTURAL EVENT – BUS MADRID CITY TOUR (2h approx.)

Friday, 15 November 2019

PLENARY AND TECHNICAL SESSIONS

ENTRANCE BY CALLE MARQUÉS DEL DUERO, 2 (MARQUÉS DEL DUERO STREET, 2)

Time	Title
8:30 - 9:00	REGISTRATION
9:00 - 10:30	TECHNICAL SESSION 3 – TECHNOLOGY & INNOVATION
	Plenary Room: Anfiteatro de Casa de América
	Title: "Scaling up technology and innovation"
	Chair: Mr Vladimir Smakhtin , Director, United Nations University Institute for Water Environment and Health (UNU- INWEH)
	Thematic Presentations
	 Mr Manuel Pulido-Velazquez, Professor, Water Resources Engineering, Polytechnic University of Valencia, Spain
	Mr Maxim Pasik, Executive Chairman, Watergen
	Mr Chee Meng Pang, Chief Engineering & Technology Officer, Singapure PUB
	Mr Ali Abshaev, ANTIGRAD:
	 Mr Manzoor Qadir, Assistant Director, UNU-INWEH
	Facilitated panel discussion / Questions and Answers
	Wrap-up by the Chair
	Rapporteur: Ms Dionysia Lyra , International Centre on Biosaline Agriculture (ICBA), United Arab Emirates
10:30 - 11:00	NETWORKING COFFEE BREAK

Time	Title	
11:00 - 12:30	TECHNICAL SESSION 4 – POLICIES & REGULATIONS	
	Plenary Room: Anfiteatro de Casa de América	
	Title: "Creating the enabling environment"	
	Chair: Ms Danielle Gaillard Picher , Vice-Chair, Global Framework on Water Scarcity in Agriculture (WASAG)	
	 Thematic Presentations Ms Edeltraud Guenther, Director, United Nations University - Institute for Integrated Management of Material Fluxes and of Resources (UNU-Flores), Germany Mr Eric Stevens, International Policy Analyst, Food and Drug Administration (USFDA), United States of America Mr Miquel Salgot, Department of Natural Products, Plant Biology and Soil Science, University of Barcelona (UB), Spain Ms Concepción Marcuello Olona, Technical Coordinator, General Water Directorate, Ministry for the Ecological Transition (MITECO), Spain 	
	 Mr Tom Soo, Executive Director, International Association for Hydro-Environment/ Member, Water Policy Group (WPG) 	
	Facilitated panel discussion / Questions and Answers	
	Wrap-up by the Chair	
12:30 - 14:00	Rapporteur: Mr Nicholas Sloane , Director, Resolve Marine Group, Cape Town, South Africa LUNCH BREAK	
14:00 - 15:00	MARKETPLACE	
	Meeting Room: Sala Borges	
	Facilitator: Ms Patricia Mejías Moreno, Land and Water Officer, FAO	
	Marketplace sessions are designed to give presenters a five-minute lightning talk to showcase their innovative methodology, solutions or technology. A stimulating discussion with participants follows.	
	 Mr Roy Tin, Chief Investment Officer, Stannum Capital Investments Mr Tomás Bujeda Rami, Commercial, Area Manager, ARPA, Spain 	
	 Mr Mbaruku Vyakweli, Head of Corporate Affairs, Nairobi City Water and Sewerage Company, Kenya 	
	Mr Mohamed Diatta, World Water Forum (WWF)	
	Mr Miguel Martinez Pérez, Operations Manager Mettech, Chile	
	Mr Manuel Flores, The Global Framework on Water Scarcity in Agriculture (WASAG)	
	Facilitator Wrap-Up	
	MARKETPLACE	
	Plenary Room: Anfiteatro de Casa de América	
	Facilitator: Mr Yo Nishimura , Associate Land and Water Officer, FAO	
	Marketplace sessions are designed to give presenters a five-minute lightning talk to showcase their innovative methodology, solutions or technology. A stimulating discussion with participants follows.	
	 Mr Ioannis Kalavrouziotis, Hellenic Open University, Greece Ms Yuhong Jiang, CEO, BRISEA Group, Inc. Mr Kevin Oduor Lunzalu, Young Professional Agricultural Development (YPARD) Mr Sandy Rodger, Chief Operations Officer, Toilet Board Coalition Mr Osama Hasan Abdulla Almasawi, Technical Services, Abu Dhabi Agriculture and Food Safety Authority 	
	Mr Marlos De Souza, Senior Officer, Land and Water Division, FAO	
	Facilitator Wrap-Up	

Time	Title
15:00 - 15:30	NETWORKING COFFEE BREAK
15:30 - 17:00	TECHNICAL SESSION 5 – FINANCING
	Plenary Room: Anfiteatro de Casa de América (EN-SPA-FR interpretation available)
	Title: "Investments and financial instruments in a circular economy"
	Chair: Mr Guillaume Gruère , Agriculture and Water Leader, Organisation for Economic Co-operation and Development (OECD)
	Thematic Presentations
	 Mr Francesc Hernández, Professor in Water Economics, University of Valencia Mr Octavi Quintana Trias, Director, Partnership for Research and Innovation in the Mediterranean Area (PRIMA)
	 Ms Valeria Silvestri, Senior Water Management and Rural Infrastructure Expert, International Fund For Agriculture Development (IFAD)
	 Ms Heba Ahmed, Water Resources and Irrigation Specialist, World Bank Mr Carlos Cosín, President, International Desalination Association (IDA)/ CEO, Almar Water Solutions
	Facilitated panel discussion / Questions and Answers Wrap-up by the Chair Rapporteur: Mr Ali Abshaev , ANTIGRAD
17:00 - 17:30	CLOSING CEREMONY
	Plenary Room: Anfiteatro de Casa de América (EN-SPA-FR interpretation available)
	Facilitator: Ms Sasha Koo-Oshima , Deputy-Director, Land & Water Division, FAO
	Announcement of the International Observatory on Unconventional Water and Energy Resources (Ms Danielle Gaillard Picher , Director of Policy and Programs (WWC)
	Remarks by the United Nations Major Group for Children and Youth (UNMGCY): Mr Vincent Lawson Body
	Key Messages from the Symposium Day 1 – Mr Marlos de Souza , Land and Water Senior Officer, FAO Day 2 – Ms Patricia Mejías , Land and Water Officer, FAO
	Closing remarks: Ms Isabel Bombal Díaz , Director General, Rural Development, Innovation and Forestry Directorate, Ministry of Agriculture, Fisheries and Food (MAPA), Spain

SYMPOSIUM AND THE SUSTAINABLE DEVELOPMENT GOALS - SDGs

The Symposium supports the global water community's efforts to help water scarce countries find nonconventional water supply opportunities. More specifically, the Symposium aims to contribute to SDG1, SDG2, SDG3, SDG6, SDG7, SDG9, SDG13 and SDG14, calling respectively, for achieving zero hunger and for achieving clean water and sanitation for individuals by the year 2030.



M****

INTERNATIONAL SYMPOSIUM ON THE USE OF



PROGRAMME OVERVIEW



14-15 NOVEMBER 2019 MADRID, SPAIN

THURSDAY, 1	THURSDAY, 14 NOVEMBER 2019		FRIDAY, 15 NO	FRIDAY, 15 NOVEMBER 2019	
9:00 - 9:30	REGISTRATION Anfiteatro de Casa de América	asa de América	8:30 - 9:00	REGISTRATION Anfiteatro de Casa de América	asa de América
9:30 - 10:30	OPENING CEREMONY Plenary Room, Anfiteatro de Casa de América	a de América	9:00 - 10:30	TECHNICAL SESSION 3 – TECHNOLOGY & INNOVATION Plenary Room, Anfiteatro de Casa de América	JLOGY & INNOVATION a de América
10:40 - 11:00	NETWORKING COFFEE BREAK		10:30 - 11:00	NETWORKING COFFEE BREAK	
11.00–12.30	TECHNICAL SESSION 1 – ACHIEVING THE SDGs Plenary Room, Anfiteatro de Casa de América	ING THE SDGs a de América	11.00–12.30	TECHNICAL SESSION 4 – POLICIES & REGULATIONS Plenary Room, Anfiteatro de Casa de América	S & REGULATIONS a de América
12:30 - 14:00	LUNCH BREAK		12:30 - 14:00	LUNCH BREAK	
14:00 - 15:30	TECHNICAL SESSION 2 – NONCONVENTIONAL Plenary Room, Anfiteatro de Casa de América	TECHNICAL SESSION 2 – NONCONVENTIONAL WATER & FOOD SECURITY Plenary Room, Anfiteatro de Casa de América	14:00 - 15:00	MARKETPLACE Meeting Room: Sala Borges	MARKETPLACE Plenary Room, Anfiteatro
15:30 - 16:00	NETWORKING COFFEE BREAK				מב רמזמ מב אוויבורמ
			15:00 - 15:30	NETWORKING COFFEE BREAK	
16:00 - 17:30	PAKALLEL SESSION 1.1 DESALINATION Room: Sala Simón Bolívar	FIT FOR PURPOSE WATER REUSE Plenary Room: Anfiteatro	15:30 - 17:00	TECHNICAL SESSION 5 – FINANCING Plenary Room: Anfiteatro de Casa de América	ING a de América
		de casa de Amenca	06:21 00:21	CLOSING CEBEMONS	
17:30 - 19:30	CULTURAL EVENT – Bus Madrid City Tour (2h aprox.)	City Tour (2h aprox.)	06:71 - 00:71	Plenary Room: Anfiteatro de Casa de América	a de América

