



Food and Agriculture
Organization of the
United Nations

PROGRAMME

AQUA TEAM for SUSTAINABLE DEVELOPMENT

8-19 May 2023

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ITALY

Ministry of Foreign Affairs
and International Cooperation



Mountain Partnership



Roma
Italia
EXPO 2030

World Expo 2030
Candidate



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Background

The two-week course **Aqua Team for Sustainable Development** will be held online on 8-19 May 2023, offering two lectures per day in English by high-level speakers from 15.00 to 17.30 CEST. It will be conducted by the Mountain Partnership Secretariat, supported by the University of Turin - DISAFA.

In the first week (8-12 May) the training will cover academic and institutional subjects (governance and regulations, controls, sanitation and ecosystems). The second week (15-19 May) will be focused on investments and private sector, with companies presenting their business skills for the management of desalination, fish farming and irrigation.

The webinar will be an opportunity for both learning and networking, with the aim of exchanging ideas and facilitating possible partnerships. Interested parties can make proposals for further contacts, clarifying what type of partner they are looking for, by writing to dgcs.environment@esteri.it.

Agenda

May 2023

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Monday

Opening

15.00-16.10 CET

Vittorio Colizzi

University of Rome "Tor Vergata"

Access to WASH: Safe water, sanitation, and hygiene

16.20-17.30 CET

Valentina Fuscoletti

Istituto Superiore di Sanità - Water quality and health division

Water quality, hygiene and health: the institutional governance

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Tuesday

15.00-16.10 CET

Daniel Viviroli

University of Zurich

The key challenges for water availability

16.20-17.30 CET

Hans Schreier

University of British Columbia

Water, food and environment nexus

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Wednesday

15.00-16.10 CET

Luca Lucentini

Istituto Superiore di Sanità - Water quality and health division

National legal framework and standards for WASH

16.20-17.30 CET

Nicola Colombo

University of Turin - PNRR Ecosistema NODES

Water quality in mountain areas under changing cryospheric conditions

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Thursday

15.00-16.10 CET

Deo Raj Gurung

Aga Khan Agency for Habitat

Integrating risk management and resilience into planning and protecting water infrastructure and resources

16.20-17.30 CET

Giuseppe Scarascia

University of Tuscia

Interactions of water cycle with forest ecosystems and agro-forestry

Agenda

May 2023

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Friday

15.00-16.10 CET **Filippo Verre**
Foundation AB AQUA
Industrial desalination as a tool to solve urban water crises: the "Saudi approach" applied to the South African case

16.20-17.30 CET **Hugo Mantilla Meluk**
University of Quindio
Water in the Central Andes of Colombia, building trans-sectoral and trans-disciplinary capacities for water governance

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Monday

15.00-16.10 CET **Baldassare Fronte**
University of Pisa
The role of aquaculture for food security and sustainable development

16.20-17.30 CET **Paolo Sertoli**
Italian Agency for Development Cooperation - AICS - Maputo Regional Office
Water management: the Italian Development Cooperation approach

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Tuesday

15.00-16.10 CET **Paolo Sertoli**
Italian Agency for Development Cooperation - AICS - Maputo Regional Office
New and sustainable irrigation techniques for agricultural, civil, non-conventional uses (saline and waste water) - case studies

16.20-17.30 CET **Luca Lucentini and Valentina Fuscoletti**
Istituto Superiore di Sanità - Water quality and health division
Desalination and health risk

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Wednesday

15.00-16.10 CET **Roberto Bausani**
AQUA ITALIA/Anima Confindustria - Italian Association of Water Treatment Manufacturers
The role of reverse osmosis desalination for a sustainable water future

16.20-17.30 CET **Cristian Carboni**
AQUA ITALIA/Anima Confindustria - Italian Association of Water Treatment Manufacturers
Traditional and emerging water disinfection technologies: challenges and solutions

Agenda

May 2023

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Thursday

Andrea Fabris

Association of Italian Fish Farmers

15.00-16.10 CET

Manlio Palei

Veterinary Team, Friuli Venezia Giulia Region

Guidelines for the development of sustainable fish farming with a view to producing seafood according to the principles of food safety and food security

16.20-17.30 CET

Oliver Martini

Owner of Valle Ca'Zuliani fish farms and member of API Board

Development of fish farming in wetlands, estuarine areas and lagoons: fish production for local populations and provision of ecosystem services

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Friday

15.00-16.10 CET

Andrea Fabris and colleagues

Association of Italian Fish Farmers

Improve water and energy efficiency in fish farms

16.20-17.30 CET

Livio Spadavecchia

Ministry of Foreign Affairs and International Cooperation -
Department of Development Cooperation, Italy

Closing and the way forward



#AquaTeam2023

AQUA TEAM for SUSTAINABLE DEVELOPMENT

Facilitators

Rosalaura Romeo



Rosalaura Romeo is a national of Italy and holds a M.Sc. in Agriculture. She works at FAO and devoted a large part of her career to the sustainable development of mountain regions. Currently she is the interim Coordinator of the Mountain Partnership Secretariat hosted at FAO's Headquarters.

Laura Russo

Laura Russo is a national of Italy and has a background in agriculture, forestry and international processes. She is a senior expert in the Mountain Partnership Secretariat and has worked at FAO in various capacities mainly on sustainable mountain development, forest policies, forests and livelihoods, and forest monitoring and assessment.



Lecturers

Vittorio Colizzi

Vittorio Colizzi is a Professor of Immunology & Pathology, and an Emeritus UNESCO Chair in Biotechnology and Bioethics at the University of Rome Tor Vergata. He is also the Dean Faculty of Sciences & Technology at Evangelic University of Cameroon, and the President of Eurobiopark. Additionally, he serves as the President of the LAGET International Scientific Council in N'Djamena, Chad, and is the Editor-in-Chief of the Journal Public Health in Africa.



Valentina Fuscoletti



Valentina Fuscoletti is a researcher at Istituto Superiore di Sanità (Italy's National Institute of Health) in the Environmental Health Department, specifically the Water Quality and Health section. She is also the coordinator of the national working group on microplastics in water for human consumption and the national Global Analysis and Assessment of Sanitation and Drinking-Water (GLAAS) working group. Valentina is a lecturer in national training courses and workshops on drinking water and health and has authored National Guidelines, including chemical analytical methods for drinking water monitoring and criteria for assessing and managing risks in the water supply chain.

Daniel Viviroli

Daniel Viviroli, PhD, is a research group leader and 'privatdozent' for physical geography and hydrology at the University of Zurich. His research focuses on water in mountain areas and related topics such as natural hazards, hydrological processes and changes in the Earth system.

He is an editor for the journal Hydrology and Earth System Sciences and a contributing author for two recent Intergovernmental Panel on Climate Change (IPCC) publications.



Lecturers

Hans Schreier

Hans Schreier is a Professor Emeritus at the University of British Columbia, Land and Food Systems Program in Vancouver, Canada, with a research focus on watershed management, land-water interactions, soil and water pollution, stormwater management and climate change. He conducted watershed studies in the Himalayan, Andean and Rocky Mountains. He served as Co-Leader of the Watershed Program of the Canadian Water Network National Centre of Excellence from 2003-2007 and was on the Water Advisory Panel for the Columbia Basin Trust from 2003-2011.



Luca Lucentini



Luca Lucentini is the Director of the Water Quality and Health Section at the Italian Institute of Health. He is an expert for the World Health Organization, the European Union and the United Nations in supporting water quality management, including developing regulations, risk analysis, training, research and surveillance. He is responsible for international cooperation programs in Europe, Africa and Asia and has authored over 100 peer-reviewed scientific publications.

Nicola Colombo

Nicola Colombo holds a PhD in Earth Sciences and Geography. He currently works at the University of Turin in Italy, specializing in hydrology and water chemistry.



Lecturers

Giuseppe Scarascia

Giuseppe E. Scarascia-Mugnozza, a graduate in Agricultural Sciences and Forest Science from the University of Bari in Italy, holds a PhD in Forest Ecology and Management from the University of Washington in the United States of America. He is a full professor of Silviculture and Forest Ecophysiology at the University of Tuscia-Viterbo, where he also teaches Urban Forestry. Giuseppe is involved in multiple projects on climate change adaptation and mitigation, including as Head of the Facility on BioCities and Urban Forests of the European Forest Institute in Rome. With over 250 scientific papers and books, his research focuses on Mediterranean forest ecosystems and climate change impacts on trees and forests.



Deo Raj Gurung



Deo Raj Gurung is the Chief Scientist at Aga Khan Agency for Habitat (AKAH), leading research and innovation in disaster risk management and habitat improvement. He has conducted research on the impact of climate change on glacial lakes while at the International Centre for Integrated Mountain Development (ICIMOD) in Nepal and has published several papers on cryosphere and natural hazards.

Gurung holds a Bachelor of Arts degree in Geology from Jadavpur University in Kolkata, India and a Master of Arts degree in Geomorphology from Tokyo Metropolitan University, Japan.

Filippo Verre

Filippo Verre is the co-founder and executive director of AB AQUA - Centro Studi Idrostrategici, the first Italian hydro-strategy think tank. He holds a PhD in international sciences-geopolitics from the University of Pisa and has completed postgraduate studies at Oxford and SIOI (Italian Society for International Organization). Filippo's research focuses on the geopolitics of water, Asian geo-economic structures and sub-Saharan and Middle Eastern political history.



Lecturers

Hugo Mantilla Meluk



Hugo Mantilla Meluk is the Director of the Center for Highland Studies (CEAM) and Coordinator of the Informatic Platform on Climate Services (PISCIS) at the University of Quindio in Colombia. He is a biologist focused on the interphase between biodiversity, health, and sustainable development. Hugo Mantilla Meluk is also a Professor at the University of Quindio, where he curates the Mammals Collection and serves as the Vice President of the Colombian Association of Zoologists, coordinating the Zoonosis and Climate Change Working Group.

Baldassare Fronte

Lecturer at the University of Pisa in Aquaculture; Research activities on fish farming (reproduction, breeding and nutrition) and Responsible of the Departmental “Zebrafish Facility”; Tutoring of BSc and MSc dissertations.



Paolo Sertoli



Paolo Sertoli holds a Bachelor of Science and two Master of Science degrees in Tropical Agriculture Engineering from universities in Italy and Portugal. He specializes in water resource management in agriculture and has taken several training courses and professional master programs at universities in the United Kingdom of Great Britain and Northern Ireland and Italy. He started working as a technical officer at the Istituto Agronomico per l’Oltremare (IAO) and later at the Italian Agency for Development Cooperation (AICS). In March 2022, he became Head of Office at the AICS Maputo Regional Office. Paolo has also lectured at the University of Florence and conducted field research in Africa and Central Asia, publishing scientific papers.

Lecturers

Roberto Bausani

Roberto Bausani is an Environmental Engineer, working at Culligan Italiana SpA since 2016. He specializes in the design, construction and management of drinking water plants, with a focus on technologies to remove micro-pollutants from water intended for human consumption.



Cristian Carboni



Cristian Carboni is the Innovative Disinfection Systems Manager at Aqua Italia/Anima Confindustria, with over 25 years of experience in management, research and technological innovation. He specializes in disinfection technologies for industries such as defense and food, as well as methods for testing microbial water quality.

As an Aqua Italia delegate to the Italian National Institute of Health and Ministry of Health, he helps revise regulations regarding materials and objects used in water systems. He is also an external expert for the European Commission, with expertise in the European Water Framework Directive, DWD, Sewage Sludge Directive and Bathing Water Directive.

Andrea Fabris

Andrea Fabris is the Director of the Italian Fish Farmers Association (API). He is involved in national-level working groups on aquaculture European Union regulations and implementation, and lectures in training courses organized by the Ministry of Health, universities and local veterinary authorities.

He has a degree in Veterinary Medicine from the University of Parma and specializations in aquatic species farming, hygiene, pathology and control of derivative products, as well as animal feeding from universities in Udine and Bologna.



Lecturers

Manlio Palei

Manlio Palei is the Director of the Prevention, Food Safety and Public Health Service in the Central Directorate for Health, Social Policy and Disability.

Manlio Palei is a Veterinary Medical Officer and the Director of the Prevention, Food Safety, and Public Veterinary Health Service at the Central Directorate for Health, Social Policy and Disability of the Friuli Venezia Giulia Autonomous Region. He obtained his degree in Veterinary Medicine from the University of Bologna.



Oliver Martini



Oliver Martini is the Sales Manager and son of the Valle Ca' Zuliani Società Agricola SRL's founder. The company created its place in the market over three decades ago when the population of two in-demand species of fish, the sea bass and sea bream, was diminishing due to poor conditions in the local lagoons.

Livio Spadavecchia

Counsellor Livio Spadavecchia is the Coordinator for Environment and Sustainable Development Issues at the Directorate General for Development Cooperation in the Italian Ministry of Foreign Affairs and International Cooperation. He is responsible for climate change, ecological transition and multi-stakeholder engagement, serving as the national focal point for issues related to combating climate drought and desertification. He has participated in the United Nations, Organisation for Economic Co-operation and Development and G20 meetings, and was recently elected Chair of the Steering Committee at the Mountain Partnership General Assembly in Aspen.

