



[www.athena-innovation.gr](http://www.athena-innovation.gr)

Artemidos 6 & Epidavrou, 151 25 Maroussi, Greece



[www.globaqua-project.eu](http://www.globaqua-project.eu)

FP7 Grant Agreement no 603629

### 5<sup>th</sup> GLOBAQUA Training Course

**Economics of Sustainable Water Management in accordance to the Water Framework Directive (WFD), the Millennium Ecosystems Assessment (MEA) and Sustainable Development Goals of the UN Agenda 2030**

**19<sup>th</sup>-20<sup>th</sup> of February, 2018**

**Coordinator: Prof. Phoebe Koundouri**

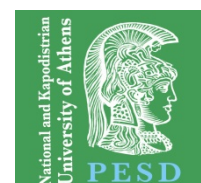
**Under the auspices of the UN SDSN Greece**



[www.unsdsn.gr](http://www.unsdsn.gr)



[www.icre8.eu](http://www.icre8.eu)



<http://pesd.econ.uoa.gr/>



### **Managing the effects of multiple stressors on aquatic ecosystems under water scarcity**

The main aim of GLOBAQUA is to achieve a better understanding of how current water management practices and policies could be improved by identifying their main drawbacks and alternatives. Freshwater systems are under threat by a variety of stressors (organic and inorganic pollution, cover change, water abstraction, land use, etc). The joint occurrence of many stressors (chemical, geomorphologic, biological) under water scarcity may produce novel and unfamiliar synergies and effects of unknown consequences. Therefore, it is crucial to understand deeply how water scarcity interacts with other stressors in freshwaters and to convey this information to managers, stakeholders and policymakers in order to minimize impacts, to adapt to oncoming changes, and to improve our management and policies. GLOBAQUA has assembled a multidisciplinary consortium in order to study the interaction of multiple stressors within the frame of strong pressure on water resources. GLOBAQUA assesses the effects of water scarcity on aquatic ecosystems by focusing on six river basins (Adige, Anglian, Ebro, Evrotas, Sava and Souss Massa). These basins encompass a rich set of socio-ecological conditions and a wide geographic coverage, and focus on a specific set of stressors to illustrate different management scenarios. The project started in February 2014 and will continue until January 2019.

Budget: 9,990,594.80 Euros

Project Coordinator: CSIC, Spain

ATHENA Coordinator: Prof. Phoebe Koundouri

Project Website: [www.globaqua-project.eu](http://www.globaqua-project.eu)

## 5<sup>th</sup> GLOBAQUA Training Course

### **Economics of Sustainable Water Management in accordance to the Water Framework Directive (WFD), the Millennium Ecosystems Assessment (MEA) and Sustainable Development Goals of the UN Agenda 2030**

**19<sup>th</sup>-20<sup>th</sup> of February, 2018**

#### **Description and Main Topics**

In February 2018 will take place the 5<sup>th</sup> GLOBAQUA training course on **Economics of Sustainable Water Management in accordance to the Water Framework Directive (WFD), the Millennium Ecosystems Assessment (MEA) and Sustainable Development Goals of UN Agenda 2030 on 19<sup>th</sup> & 20<sup>th</sup> of February 2018** at ATHENA Research and Innovation Information Technologies in Maroussi, Greece. The event will introduce the basic principles of resource economics related to water with focus on the Water Framework Directive and the Millennium Ecosystems Assessment. The topics covered include: Economic instruments for sustainable water management, market and non-market valuation techniques, uncertainty and risk implications for water management, political economy of freshwater and participatory approaches to water management. The training course will be under the auspices of the UN SDSN Greece ([www.unsdsn.gr](http://www.unsdsn.gr)) and will draw heavily on practical examples from the GLOBAQUA project and other water-related projects of ICRE8 ([www.icre8.eu](http://www.icre8.eu)), the UN SDSN Greece co-hosting institution. Participants will be able to understand in depth the economics of water management and implications for sustainable development with the help of the lecturers and application to case studies. The course will develop in morning and afternoon theory and application sessions, seminar and keynote lectures. The stepwise approach aims at ensuring that participants assimilate the basics of economics of sustainable water management.

#### **Target Groups**

The workshop is envisioned for postgraduate students, researchers at any stage in their professional career, as well as water professionals interested in the economics of freshwater management and sustainable development.

#### **Coordinator**

The course is coordinated by Prof. Phoebe Koundouri. Professor Dr. Phoebe Koundouri holds a PhD (2000), MSc (1996) and MPhil (1995) in Economics from the University of Cambridge (UK). She is Professor in Economic and Econometric Theory and Applications (with emphasis on Natural Resources, Energy and the Environment) at the School of Economics, Athens University of Economics and Business (Greece)

and the Founder and Scientific Director of the Research Laboratory: ReSEES: Research on Socio-Economic and Environmental Sustainability (<http://www.icre8.eu/resees>) at the same University. She is Visiting Senior Research Fellow at the CCCEP: Centre for Climate Change Economics and Policy ([www.cccep.ac.uk/people/](http://www.cccep.ac.uk/people/)), London School of Economics (UK). Phoebe Koundouri is the Founder and Scientific Director of the non-for-profit ICRE8: International Center for Research on the Environment and the Economy ([www.icre8.eu](http://www.icre8.eu)). ICRE8 is the host of the United Nations Sustainable Development Solutions Network (UNSDSN)-Greece ([www.unsdsn.gr](http://www.unsdsn.gr)) and Prof. Koundouri is the Co-Chair of UNSDSN-Greece. She has published 15 edited books and monographs, and more than 250 articles in academic journals and edited volumes. She is a highly cited academic author ranked in the top 1% of all female economists in the world. Since 1996, she has coordinated and/or participated in more than 60 research projects on natural resources management issues. She has organized a number of international conferences and supervised numerous PhD students, all of them now working in academia. Over the last two decades, Phoebe Koundouri has given keynote and public lectures all over the world, and received scholarships and prizes for academic excellence from various academic institutions and foundations.

### Registration and fees

Registration deadline: February 11th, 2018.

Please register here: <http://fleximeets.com/globaqua2017/>

Regular registration: 200 €. The fee will cover attendance to the course, coffee breaks and lunches during the course. Registration fee will be paid on site. Travel and subsistence costs are not covered.

### Agenda

Day 1 February 19th, 2018	
09.00-10:45	<b>Seminar lecture: Sustainable development goals, MEA and Agenda 2030- The case of integrated management of scarce resources with application to water</b>
	Presenter: Prof. Phoebe Koundouri
	Key words: Optimal, Integrated and Interdisciplinary Management of Water Resources; Efficient Allocation of Resources; Total Economic Value of Resources, Econometric Methods; Cost-Benefit Analysis and Investment Decisions; Economic and Social Instruments; Institutional Framework and Stakeholders Analysis; UN Development Goals, MEA
10.45-11.00	<b>Coffee break</b>
11.00-13.00	<b>Theory and application session I: Valuation of natural resources for sustainable development</b>
	Presenter: Dr. Emmanouil Tyllianakis
	Key words: Valuation Methods, Natural Resources, Water, Sustainability, Scarce Resources
13.00-14.00	<b>Lunch break</b>

<b>14.00-16.00</b>	<b>Theory and application session II: Non-market valuation methods-Choice &amp; Lab Experiments, Contingent valuation</b>
	Presenter: Dr Achilleas Vassilopoulos
	Keywords: Non-market Valuation, Experimental Economics, Contigent Valuation, Choice Experiments, Attributes, Levels
<b>16.00 -16.15</b>	<b>Coffee break</b>
<b>16.15-18.00</b>	<b>Keynote lecture: Long-term discounting and uncertainty</b>
	Presenter: Prof. Nikitas Pittis
	Key words: Uncertainty, Risk, Discount Rate, Social Preferences, Ambiguity, Risk Preferences, Decision Making
<b>Day 2 February 20th, 2018</b>	
<b>09.00-10.30</b>	<b>Keynote lecture: Sustainable water management under climate change</b>
	Presenter: Prof. Andreas Papandreou
	Key words: Sustainable Management of Natural Resources, Climate Change, National and International Initiatives, Economic Policy
<b>10.30-10.45</b>	<b>Coffee break</b>
<b>10.45-12.15</b>	<b>Theory and application session III: Benefit transfer methods</b>
	Presenter: Dr. Stella Tsani
	Key words: Non-market Valuation, Ecosystem Services, Benefit Transfer, Policy Site, Validation
<b>12.15-13.45</b>	<b>Theory and application session IV: From Value to Prices-Translating Water Values in Water Prices</b>
	Presenter: Prof. Roy Brower
	Key words: Water Pricing, Payments for Watershed Services
<b>13.45-14.45</b>	<b>Lunch break</b>
<b>14.45-16.15</b>	<b>Theory and application session V: Participatory approaches to Ecosystem Services valuation</b>
	Presenter: Dr. Ebum Akinsete
	Key words: Stakeholder Participation, Citizen Engagement, Joint Valuation Methods
<b>16.15-16.30</b>	<b>Coffee break</b>
<b>16.30-18.00</b>	<b>Seminar lecture: Systems thinking in water management</b>
	Presenter: Prof. Nick Voulvoulis
	Key words: Environmental Management, Sustainable Development, Environmental Services, Systems Thinking, Science Based Policy Recommendations, Policy Formulation

### Short bios of presenters

**Dr. Ebum Akinsete** is an Associate Lecturer at the School of Applied Social Studies, Robert Gordon University (Aberdeen), and Senior Partner with Nigerian-based consultancy GEN Sustainable Solutions. With a BSc (Hons) in Architectural Technology, MSc in Project Management and PhD in Urban Regeneration and Sustainable Communities, she has several years of both industrial and academic experience in Europe, Asia and Africa; collaborating with governmental agencies,

NGOs, aid organizations, academic institutions, the private sector and local communities. Her main areas of interest are sustainable development, urban regeneration, SDG policy and implementation, community development, climate change mitigation, transition management, renewable energy, stakeholder participation, participatory planning, evaluation and impact assessment for sustainability, and sustainability in developing nations.

**Prof. Roy Brouwer** is Executive Director of the Water Institute and Professor of Economics at the University of Waterloo, Canada. He is visiting Professor at the Swiss Federal Institute of Aquatic Science and Technology (Eawag) in Zürich, member of the External Advisory Board of the Vienna Technical University Doctoral Program on Water Resource Systems and Editor-in-Chief of the journal *Water Resources and Economics*. Before joining the University of Waterloo in 2016, he was head of the department Environmental Economics at the Vrije Universiteit in Amsterdam.

**Prof. Andreas Papandreou** is a Professor in the Economics Department of the National and Kapodistrian University of Athens. He has 26 years of academic experience in various Universities. His work spans the fields of environmental, institutional, political and welfare economics. Among his publications are *Externality and Institutions* (1998) published by OUP. He is the Director of the Political Economy of Sustainable Development Lab (PESD), and Research Associate of the International Center of Research on the Environment and the Economy (ICRE8).

**Prof. Nikitas Pittis** is Full Professor in Financial Econometrics at the Department of Banking and Financial Management of the University of Piraeus, since 2004. He is also member of the Board of Directors of Eurobank EFG Asset Management Investment Firm. He holds a PhD in Econometrics from Birkbeck College of the University of London (UK). He was Associate Professor at the University of Piraeus (2000-2003), as well as Associate Professor and Assistant Professor at the Department of Economics of the University of Cyprus (1996-2000). He has taught economics and econometrics at the London School of Economics of the University of London (1989-1991) and at the Swiss Federal Institute of Technology, Zurich (1993). He has worked as an economist in the research department of UBS in Zurich (1992-1993) and as a senior research associate at the National Institute of Economic and Social Research in London (1991-1992). He was also member of the Board of Economic Advisors at the Ministry of Economics and Finance of the Greek Government (2004-2006).

**Dr. Stella Tsani** holds a PhD in Economics and Business from the University of Reading, UK. She heads the Department of Energy, Economic Policy and Regional Cooperation at the International Centre for Research on the Environment and the Economy. She is also adjunct Assistant Professor at the Athens University of Economics and Business. She obtained her BSc degree in Economics from the National and Kapodistrian University of Athens, Greece and her MA degree in Business and Management in Emerging Markets from the University of Reading, UK. Her research interests focus on resource economics, energy, development, political economy, and socio-economic analysis. She has led research in projects funded by

the European Commission (FP7, Horizon 2020) and various Directorates (DGENV, DGENER), the World Bank, Revenue Watch Institute USA, etc. She has worked for the Centre for Euro Asian studies in the UK, Europrism in Cyprus, the Public Finance Monitoring Centre in Azerbaijan, the Bank of Greece, the Institute of Energy for South East Europe and the E3MLab at the National Technical University of Athens in Greece. She has published in leading peer-reviewed journals including: Economics Letters, Resources Policy, Energy Economics, Economic Systems, etc.

**Dr. Emmanouil Tyllianakis** is an Environmental Economist working for the Centre of Environment, Fisheries and Aquaculture Science (Cefas) in the UK focusing on ecosystems services valuation and environmental policy in projects across the UK and Commonwealth countries. He is also an associate at the Centre for Social and Economic Research on the Global Environment (CSERGE) at the University of East Anglia. His research interests revolve around environmental policy, environmental risk perceptions, applied microeconomics and coastal and marine ecosystems valuation. He holds a Ph.D. in Environmental Economics from the University of Patras, an MSc in Environmental Economics from the University of Manchester, and BSc in Economics from the University of Patras.

**Dr. Achilleas Vassilopoulos** received his undergraduate diploma in Agricultural Economics in 2008 and an MBA in Agribusiness management in 2010 from the Agricultural University of Athens (AUA), Greece. In 2011, after spending a semester at the University of Arkansas as a visiting scholar, he continued his studies in AUA pursuing a PhD in Consumer Behaviour (Microeconomics) which he completed in 2015. Dr. Vassilopoulos is currently a senior researcher at ICRE8 and Academic Manager of the Greek chapter of the United Nations Sustainable Development Solutions Network (SDSN Greece). He has worked as a consultant-economist for the Food and Agriculture Organization of the United Nations (FAO) and the Innovation and Entrepreneurship Unit of AUA. Also, he is or had been working for several EU projects. His research focuses on Experimental and Behavioural economics, Choice Experiments, Contingent Valuation and Agribusiness. His academic work has been published in journals such as Economic Modelling, Journal of Consumer Affairs, Economics Letters and others.

**Prof. Nick Voulvoulis** BSc (Hons) MSc DIC PhD DMS is a Professor of Environmental Technology at Imperial College's Centre for Environmental Policy. He is an international expert in environmental management, especially where science and engineering interface with public policy. His research focuses on environmental quality management, with a focus on environmental systems and processes across many areas and diverse sectors. He has graduated more than 20 PhD students and supervised the research of more than 200 MSc students, many of whom have gone on to take up leading positions in the field. He delivers high quality research, published in some of the top journals in the field. The underlying principle for the interdisciplinary nature of his research is the application of science to solve environmental problems and sustainability challenges, by empowering society through knowledge and innovation; in other words technology in its original meaning. Life-cycle assessment, multi-criteria analysis and risk assessment are some

of the tools he employs to explore the interactions and interdependencies between human and natural systems, to support business decision making, and policy formulation and implementation. Impacts to society, community participation in science and links between knowledge management and environmental behaviour are also important areas of his work.

## **Venue**

ATHENA Research and Innovation Information Technologies, Artemidos 6 & Epidavrou, 151 25 Maroussi, Greece

## **From the Airport to Athena Research and Innovation Center**

### *Train*

Athens International Airport ‘Eleftherios Venizelos’ is directly connected with most main airports in Europe. Detailed information about flights schedule can be found in airport’s webpage:

<http://www.aia.gr/traveler/>

The suburban railway (proastiakos) operates from 5:25 to 00:00 every day. The fastest way to reach Athena Research and Innovation Centre from the airport, is by getting on at the airport stop and getting off at Kifisias stop (direction towards Kiato).

### *Taxi*

Taxis are located right outside of the arrivals hall. The Athena Research and Innovation Center should take approximately 30 minutes approximately, subject to traffic conditions, and the fare should be around € 35.

A taxi fare from Kifisia to ATHENA is approximately 5,5 euros.

A taxi fare from Syntagma (Athens center) to ATHENA is approximately 9 euros.

### *Buses*

ATHENA is easily accessible by bus (frequent routes) from Kifissia suburb or Athens center.

## **Accommodation**

There is only one hotel in the office area (Marousi) and two small apartment hotels, all walking distance from ATHENA. Marousi is a suburb with some night life and shopping.

Staying in Kifissia suburb is a nice idea if you have visited Athens before, since it has a great nightlife and shopping area. Much greener than Marousi, you can also visit



Goulandri Museum of Natural History (<http://www.gnhm.gr/en/>), which also has a nice café.

### List of hotels

Name	Category	Location	Distance	Webpage	Cost (euros)
Civitel Hotel	****	near ATHENA	0,85 km, 10 minutes walk to ATHENA	<a href="http://www.civitel.gr">http://www.civitel.gr</a>	110-130
<a href="#">Urban Residence</a>		near ATHENA	2,3 km, 27 minutes walk to ATHENA	<a href="http://urbanresidence.gr/en/">http://urbanresidence.gr/en/</a>	120-140
<a href="#">Athens Habitat</a>		near ATHENA	0,65 km, 7 minutes walk to ATHENA	<a href="http://athenshabitat.gr/">http://athenshabitat.gr/</a>	90-110
The Y Hotel	****	Kifisia, Northern Suburb, to "Athena" by taxi	5,5 km from ATHENA	<a href="http://www.theyhotel.gr">http://www.theyhotel.gr</a>	120-140
Nafsika Coco-Mat Hotel	***	Kifisia, Northern Suburb, to "Athena" by taxi. Near "KAT" metro station	4,4 km from ATHENA	<a href="http://nafsika.coco-mat-hotels.com/">http://nafsika.coco-mat-hotels.com/</a>	120-190
Athens Way Hotel		located at 500 meters from "Panepistimio" metro station		<a href="http://www.athenswayhotel.gr/">http://www.athenswayhotel.gr/</a>	65-85

President Hotel	****	kifisias, kentro		<a href="http://president.gr">http://president.gr</a>	70-90
Airotel Stratos Vassilikos Hotel	****	Michalakopoulou, center		<a href="http://www.airotel.gr/en/Stratos-Vassilikos-793.htm">http://www.airotel.gr/en/Stratos-Vassilikos-793.htm</a>	70-90
Airotel Alexandros Hotel	****	Timoleonos Vassou 8, center		<a href="http://www.airotel.gr/el/Alexandros-Hotel-791.htm">http://www.airotel.gr/el/Alexandros-Hotel-791.htm</a>	70-90
Golden Age Hotel	****	Michalakopoulou, center		<a href="http://hotelgoldenage.com/">http://hotelgoldenage.com/</a>	70-90
Philippos	***	near Acropolis		<a href="http://www.philipposhotel.gr/main.php">http://www.philipposhotel.gr/main.php</a>	70-90
Titania	****	near Syntagma		<a href="http://www.titania.gr">http://www.titania.gr</a>	70-90
Amalia	****	near Syntagma		<a href="http://www.amaliahoteltens.gr">http://www.amaliahoteltens.gr</a>	90-110
Herodion	****	near Acropolis		<a href="http://www.herodion.gr">http://www.herodion.gr</a>	80-100
Electra	****	Center, Ermou		<a href="http://www.electrahotels.gr/electra-hotel-athens/the-hotel">http://www.electrahotels.gr/electra-hotel-athens/the-hotel</a>	90-110
Fresh	****	near Omonoia metro station		<a href="http://www.freshhotel.gr">http://www.freshhotel.gr</a>	90-110
Athens gate	****	near Acropolis		<a href="https://athensgate.reserve-online.net/about">https://athensgate.reserve-online.net/about</a>	100-120
Periscope	****	10 minutes' walk from Syntagma square and a 5 minutes' walk from Evangelismos Metro station,		<a href="http://www.yeshotels.gr">http://www.yeshotels.gr</a>	120-140

		center			
NJV Athens Plaza	*****	near Syntagma		<a href="http://www.njvathensplaza.gr/en">http://www.njvathensplaza.gr/en</a>	120-140
New Hotel	*****	located 200 meters from Synatgma square		<a href="http://newhotel.athenshotels.it/">http://newhotel.athenshotels.it/</a>	145-175

Learn more about:

Marousi: <https://en.wikipedia.org/wiki/Marousi>

Kifisia: <http://www.athensguide.com/kifissia/>

<https://en.wikipedia.org/wiki/Kifissia>