

Conference Programme and Invitation to Register

2nd INTERNATIONAL CONFERENCE ON WATER ECONOMICS, STATISTICS, AND FINANCE

**Alexandroupolis, Thrace, Greece
3-5 July 2009**

**Organised by
IWA, Specialist Group on Statistics and Economics
Department of Environmental Engineering, Democritus University
of Thrace
Department of Economics, University of Crete**

Under the Aegis and Sponsorship of

- Technical Chamber of Greece
- Prefecture of Evros
- Prefectural Local Authority of Rodopi-Evros
- Region of Eastern Macedonia-Thrace

**July 2009
Alexandroupolis, Greece**

ORGANIZERS



Specialist Group
Statistics and
Economics



DEMOCRITUS UNIVERSITY OF THRACE
DEPARTMENT OF ENVIRONMENTAL ENGINEERING



UNIVERSITY OF CRETE
DEPARTMENT OF ECONOMICS

UNDER THE AEGIS AND SPONSORSHIP OF



DEMOCRITUS UNIVERSITY OF THRACE
RESEARCH COMMITTEE OF THE SPECIAL ACCOUNT



TECHNICAL CHAMBER OF GREECE



PREFECTURE OF EVROS



PREFECTURAL LOCAL AUTHORITY OF RODOPI-EVROS



REGION OF EAST MACEDONIA - THRACE

INTRODUCTION

The conference has been planned by the IWA Statistics and Economics Specialist Group with the co-operation and sponsorship of the Department of Environmental Engineering, Democritus University of Thrace, the Department of Economics of the University of Crete and IWA.

Access to water and sanitation and sustainable management of water resources are key issues in the world today, and have for some time been a focus of the IWA Statistics & Economics Specialist Group. In addition to this, the International Water Association, representing the views of the global network of water professionals, has as one of its pivotal aims the exchange of scientific and professional experiences of academics and practical water industry managers. This conference is intended to make a major contribution to the transfer of knowledge from research to practice covering the entire water cycle, ultimately influencing major policy decisions.

OBJECTIVES

The conference is aimed at specialists interested in economics, statistics, and financing of water and sanitation. The event is expected to be a great opportunity for the participants to share information and experiences on both fundamental and practical issues. Aspects of water resources, water supply and wastewater treatment projects will be considered on issues that will include economic, cost/benefits, feasibility analysis, as well as funding possibilities and practices.

PARALLEL CONFERENCE

A parallel conference will be organized at the same venue by the Specialist Group on Strategic Asset Management entitled “*Asset Management of Medium and Small Wastewater Utilities*”.

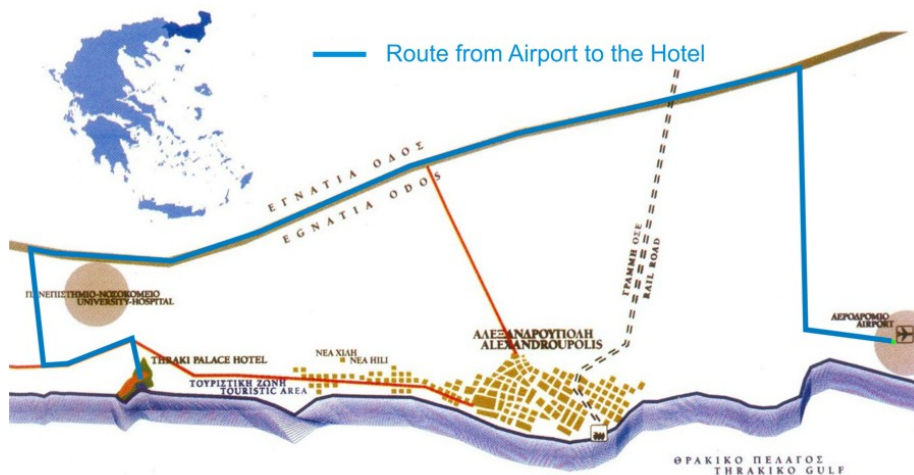
CONFERENCE VENUE

The Conference will take place in the Conference Center of the “Thraki Palace Hotel”, located within a short distance (4 Km) from the city center of Alexandroupolis, Thraki, Greece from July 3 to 4, 2009. Telephone: +30 25510 - 89100, , Fax: +30 25510 – 89119, thraki@thrakipalace.gr. Presentations will take place in “DIMOKRITOS1” and “DIMOKRITOS2” Rooms, while poster displays and coffee breaks will be held in the “FOYER APOLLO”.

REGISTRATION FEES

Standard registration fee for both conferences is 650 €, and 550 € for IWA members. Student registration fee is 310 €. The conference fee covers attendance, morning and afternoon teas/coffees, on site lunches for 3 days, welcome reception and conference gala dinner. Conference gala dinner is not included in the reduced student fee.

Conference preprint books, programme, information pack and access to presentations will be given for both conferences.



LANGUAGE

The official language of the Conference is English for all presentations and discussions.

PUBLICATIONS

All papers from the platform and poster sessions are printed in two books of about 750 pages. These books will be handed out to the participants at the registration desk and are included in the registration fee. Additional copies may be ordered. Papers that, after thorough refereeing and editing, meet the high quality standards of IWA, will be published in the following IWA Journals: Water Science and Technology, Water Science and Technology: Water Supply, Water Practice & Technology and Water Utility Management International.

OTHER ACTIVITIES AND SOCIAL PROGRAMME

- On Thursday, July 2, a welcome event will be organised at 21:00 at Thraki Palace Hotel. Includes drinks and a light buffet dinner
- On Friday, July 3, a Gala Diner will be organised at 21:00 at Thraki Palace Hotel.
- On Saturday, July 4, a bus tour will be organised at 15:00. Participants and accompanying persons will be transferred to different areas of Evros region and then will be left down town for an independent walk, or be returned to the hotel. This tour is included in the conference fee.

ORGANIZING COMMITTEE

Bastrup Jens, Danish Water and Wastewater Association, Denmark

Metaxas Socrates, Water Board of Lemesos, Cyprus

Paranychanakis Nikolaos, Technical University of Crete, Greece

Parena Renato, Societa Metropolitana Acque Torino Spa, Italy

Petrakis Emmanuel, University of Crete, Greece

Renard Nicolas, Veolia (Vivendi Water), France

Smeets Ed, Tilburgsche Waterleiding Maatschappij (TWM), The Netherlands

Theuretzbacher-Fritz Heimo, Graz University of Technology, Austria

Troquet Ingrid, Waterleiding Maatschappij Limburg (WML), The Netherlands

Tsagarakis Konstantinos (Chair person), Democritus University of Thrace, Greece

SCIENTIFIC COMMITTEE

Bartoszczuk Pawel, Warsaw School of Economics, Poland
 Dinar Ariel, University of California, Riverside, USA
 Economopoulos Alexander, Technical University of Crete, Greece
 Förster Jürgen, Eurostat, Luxembourg
 Franceys Richard, Cranfield University, UK
 Gaudin Sylvestre, Department of Economics, Oberlin College, USA
 Gemitzi Alexandra, Democritus University of Thrace, Greece
 Genius Margarita, University of Crete, Greece
 Georgantzis Nikolaos, University of Cyprus, Cyprus
 Gürlük Serkan, Uludag University, Turkey
 Hanley Nick, University of Stirling, UK
 Hernandez-Sancho Francesc, University of Valencia, Spain
 Kampas Athanasios, Agricultural University of Athens, Greece
 Kleiner Yehuda, National Research Council of Canada, Canada
 Koundouri Phoebe, Athens University of Economics and Business, Greece
 Latinopoulos Pericles, Aristotle University of Thessaloniki, Greece
 Maurer Max, Swiss Federal Institute of Aquatic Science and Technology (Eawag), Switzerland
 Nauges Celine, LERNA - Toulouse School of Economics, France
 Netanyahu Sinaia, Tahal Consulting Engineers, Israel
 Nikolaou Ioannis, Democritus University of Thrace, Greece
 Paranychanakis Nikolaos, Technical University of Crete, Greece
 Petalas Christos, Democritus University of Thrace, Greece
 Petrakis Emmanuel, University of Crete, Greece
 Raffensperger John, University of Canterbury, New Zealand
 Raggi Meri, University of Bologna, Italy
 Rozakis Stelios, Agricultural University of Athens, Greece
 Sanclemente Roman Carles, Grupo AGBAR, Spain
 Sauer Johannes, Imperial College London, UK
 Smeets Ed, Tilburgsche Waterleiding Maatschappij (TWM), The Netherlands
 Theuretzbacher-Fritz Heimo, Graz University of Technology, Austria
 Troquet Ingrid, Waterleiding Maatschappij Limburg (WML), The Netherlands
 Tsarakis, Konstantinos, Democritus University of Thrace, Greece
 Tsihrintzis Vassilios, Democritus University of Thrace, Greece
 Tsiotas George, University of Crete, Greece
 Wang Wen, Hohai University, China
 Ziegler Andreas, University of Zurich, Switzerland

SCIENTIFIC AND SOCIAL PROGRAMME

THURSDAY, 02 JULY 2009

18.00 – 21.00 Registration (Thraki Palace Hotel)
 21.00 – 23.00 Welcome Reception (Thraki Palace Hotel)

FRIDAY, 03 JULY 2009

08.00 – 09.00 Registration
 09.00 – 10.00 Welcoming Addresses (“DIMOKRITOS 1” Room), in common with the “*Asset Management of Medium and Small Wastewater Utilities*” conference.
 10.00 – 11.20 Keynote Presentations (“DIMOKRITOS 1” Room), in common with the “*Asset Management of Medium and Small Wastewater Utilities*” conference.
 11.20 – 11.50 Coffee Break ☹
 11.50 – 13.50 Session 1 (“DIMOKRITOS 2” Room)
 Session 3 (“DIMOKRITOS 1” Room)
 13.50 – 14.50 Lunch Break ☹
 14.50 – 15.30 Viewing of Posters
 15.30 – 16.50 Session 2 (“DIMOKRITOS 2” Room)
 Session 3 (“DIMOKRITOS 1” Room)
 16.50 – 17.20 Coffee Break ☹
 17.20 – 19.00 Session 5 (“DIMOKRITOS 2” Room)
 21.00 – 23.00 Gala Dinner 🍷

SATURDAY, 04 JULY 2009

09.00 – 11.00 Keynote Presentations (“DIMOKRITOS 1” Room)
 11.00 – 11.30 Coffee Break ☹
 11.30 – 13.30 Session 1 (“DIMOKRITOS 2” Room)
 Session 3 (“DIMOKRITOS 1” Room)
 13.30 – 15.00 Lunch Break ☹
 15.00 – 21.00 Bus tour in the region 🚌

SUNDAY, 05 JULY 2009

09.00 – 09.20 Session 1 (“DIMOKRITOS 2” Room)
 Session 3 (“DIMOKRITOS 1” Room)
 09.20 – 11.00 Session 4 (“DIMOKRITOS 1” Room)
 Session 1 (“DIMOKRITOS 2” Room)
 11.00 – 11.30 Coffee Break ☹
 11.30 – 13.10 Session 4 (“DIMOKRITOS 1” Room)
 Session 1 (“DIMOKRITOS 2” Room)
 Session 2 (“DIMOKRITOS 2” Room)
 13.10 - 14.40 Lunch Break ☹
 14.40 - 15.20 Session 4 (“DIMOKRITOS 1” Room)
 14.40 - 15.40 Session 2 (“DIMOKRITOS 2” Room)
 15.40 - 16.20 CLOSURE (“DIMOKRITOS 1” Room).

DESCRIPTION OF SESSIONS

Session 1: Water Economics
 Session 2: Statistics and Benchmarking
 Session 3: Optimal Water Resources Management
 Session 4: Engineering Cost Analysis
 Session 5: Short Papers

PROGRAMME - PRESENTATIONS

THURSDAY, 02 JULY 2009

18.00 – 21.00	Registration
21.00 – 23.00	Welcome Reception

FRIDAY, 03 JULY 2009

"DIMOKRITOS 1" Room

KEYNOTE PRESENTATIONS

Chair: V.A. Tsihrintzis and S. Renzetti

08.00 – 09.00	Registration
09.00 – 10.00	Welcoming Addresses
10.00 – 10.40	Climate Change and Water Resource Management: Tradeoffs and Opportunities in the Field of International Water (Keynote: "2 nd International Conference on Water Economics, Statistics and Finance") <i>A. Dinar (USA)</i>
10.40 – 11.20	Is Strategic Asset Management Applicable to Small and Medium Utilities? (Keynote: "Asset Management of Medium and Small Wastewater Utilities") <i>H. Alegre (Portugal)</i>
11.20 – 11.50	Coffee Break ☹

"DIMOKRITOS 1" Room (in parallel with "DIMOKRITOS 2")

Session 3

OPTIMAL WATER RESOURCES MANAGEMENT

Chair: C. Petalas and M. Pulido-Velazquez

11.50 – 12.10	Artificial Intelligence Methodologies Used for the Solutions of Environmental Water Resources Management Problems <i>M.P. Papadopoulou, I.K. Nikolos, G.P. Karatzas, G. Kyritsakas (Greece)</i>
---------------	--

- 12.10 – 12.30 Agricultural Costs Due to Saltwater Intrusion in South Rhodope Coastal Aquifer
E. Galazoulas, C. Petalas, A. Gemitzi (Greece)
- 12.30 – 12.50 Cost-effectiveness Analysis of Agricultural Measures of the EU Water Framework Directive: a Regional Model for the Beerze and Reusel River Basin in the Netherlands
T. Reinhard (The Netherlands)
- 12.50 – 13.10 Economic Tools for Selecting a Programme of Measures to Meet the WFD Standards. Application to the Serpis River Basin, Spain
M. Pulido-Velazquez, F. Hernandez-Sancho, J. Ferrer-Polo, J.I. Latorre (Spain)
- 13.10 – 13.30 The Implementation of the Economic Aspects the Water Framework Directive Under Data Limitations: A Rapid Appraisal Approach
P. Koundouri, Y. Kountouris, K. Remoundou (Greece)
- 13.30 – 13.50 Genetic Algorithm and Its Application in Statistical Analysis of Flood Flows
Y. Hassanzadeh, V. Nourani, A. Abdi (Iran)
- 13.50 – 14.50 Launch Break ☪
- 14.50 – 15.30 Viewing of Posters

Session 3 (cont.)

OPTIMAL WATER RESOURCES MANAGEMENT

Chair: Y. Hassanzadeh and M. Mazzola

- 15.30 – 15.50 A Simulation/Optimization Model for Selecting Infrastructure Alternatives in Complex Water Resources Systems
C. Arena, M.R. Mazzola, G. Scordo (Italy)
- 15.50 – 16.10 Time Series Based Irrigation Water Demand Forecasting Using a Genetically Evolved Neural Network
C. Ucenic (Romania), G. Atsalakis (Greece)
- 16.10 – 16.30 The Need for Appropriate Economic Incentives in Groundwater Management: Application to a Rural Area in Greece
D. Latinopoulos (Greece)
- 16.30 – 16.50 A Real Options Analysis of Singapore Water Supply System
S. Zhang, V. Babovic (Singapore)
- 16.50 – 17.20 Coffee Break ☪

“DIMOKRITOS 2” Room (in parallel with “DIMOKRITOS 1”)
Session 1
WATER ECONOMICS

Chair: A. Protopappas and M. Raggi

- | | |
|---------------|---|
| 11.50 – 12.10 | Self-selection Bias and Manufacturing Firms’ Demand for Water Recirculation
<i>J. Bruneau, S. Renzetti, M. Villeneuve (Canada)</i> |
| 12.10 – 12.30 | Residential Water Demand in Portugal: Checking for Efficiency-Based Justifications for Increasing Block Tariffs
<i>H. Monteiro (Portugal)</i> |
| 12.30 – 12.50 | Substitution Possibilities for Water in the South African Mining Industry
<i>T. Linz (Germany)</i> |
| 12.50 – 13.10 | How do Markets Manage Water Resources? An Experiment
<i>A. Garcia-Gallego (Spain), N. Georgantzis (Cyprus, Spain), P. Kujal (Spain)</i> |
| 13.10 – 13.30 | Choosing Filtered and Bottled Water Over Tap: An Examination of Motivations for Water Consumption Choices in Canada
<i>D. Dupont, W. Adamowicz (Canada), A. Krupnick (USA)</i> |
| 13.30 – 13.50 | The Performance of Water Utilities in Jordan
<i>T. Al-Assa’d (Jordan), J. Sauer (UK)</i> |
| 13.50 – 14.50 | Lunch Break ☪ |
| 14.50 – 15.30 | Viewing of Posters |

Session 1 (cont.)
WATER ECONOMICS

Chair: J. Pires and U. Yetis

- | | |
|---------------|---|
| 15.30 – 15.50 | Are the Gains from a Groundwater Management Policy so Low?
<i>E. Martin (France)</i> |
| 15.50 – 16.10 | Economic Value of Industrial Water in Korea
<i>G.H. Kim, C.S. Yi, G.D. Yeo, M.P. Shim (Korea)</i> |
| 16.10 – 16.30 | Estimation of a Cost Function for the Portuguese Water and Wastewater Industry
<i>H. Monteiro (Portugal)</i> |
| 16.30 – 16.50 | Analysis of Project Optimality by Economic Evaluation
<i>C. Yi, J. Lee, M. Shim (Korea)</i> |
| 16.50 – 17.20 | Coffee Break ☶ |

“DIMOKRITOS 2” Room

Session 5

SHORT PAPERS

Chair: M. Genius and I. Nikolaou

- 17.20 – 19.00 Study for Characterizing Urban Water Demand from Multi-Family Buildings in the City of São Paulo – Brazil
D.C. Sanchez, O.M. Gonçalves, R.T.A. Prado (Brazil)
- Financing Water and Sanitation in Low-income Urban Areas
V. Muyeba (Zambia)
- Valuing and Valuation of Water in Jordan
M. Shatanawi, S. Naber (Jordan)
- Data Availability for Calculating the IWA Performance Indicators for Wastewater Services for an Austrian Town (Population 25,000)
T. Ertl, N. Weissenbacher, F. Kretschmer (Austria)
- Integrated Hydrologic-Economic Analysis to Support Water Resources Planning in the Western Macedonia Water District, Greece
L. Bensasson (Greece), N. Riegels, R. Jensen (Denmark), D. Economides, S. Bannou (Greece), P. Bauer-Gottwein (Denmark)
- Statistics on Water and Wastewater Sectors from European Countries
A. Angelakis, N. Paranychanakis (Greece)
- Optimal Small Hydropower Plants in Energy Distributors of Urban Water Supply Networks
A. Stergiopoulou, V. Stergiopoulos (Greece)
- The Paradox of Water Consumption and Tarification
J. Hammenecker (Belgium)
- Water Tariff Policy in Xanthi Municipality, Greece
C. Petridis, M. Tsagkaraki, K. Davididou, I.S. Aspioti, A. Chrisikopoulou (Greece)
- Experiences with Performance Measurement and Benchmarking in Sewage Disposal
A. Bäumer (Germany)
- Effective Awareness for Domestic Water Saving
K.M. Keramitsoglou (Greece)
- A River Sanitation Interdisciplinary Scheme as a Mean to Achieve an Integrated Water Management: the Case of Lerma River in La Piedad, Michoacan and Santa Ana Pacueco, Guanajuato; Mexico
H.R. Guerrero-Garcia-Rojas, J.C.O. Avalos (Mexico)
- GENESIS, an Integrated Research Project to Support Groundwater Systems Management
B. Kløve (Norway)

Hydro-economic Modelling of Groundwater Management and the GWD-WFD. Application to the Jucar Case Study in the EU GENESIS Project

M. Pulido-Velazquez, S. Peña-Haro, C. Llopis-Albert, J. Andreu, D. Pulido (Spain)

Genesis Project – AUEB Contribution, WP 6: Groundwater Systems Management: Scenarios, Risk Assessment, Cost-efficient Measures and Legal Aspects

P. Koundouri, Y. Kountouris, K. Remoundou (Greece)

Investigation of the Impacts of Climate and Land Use Changes on Groundwater Dependent Ecosystems; the Vosvosis Case Study (Thrace, Greece)

A. Gemitzi, C. Akratos, C. Petalas (Greece)

Water resources management and economic parameters of the cross-border hydrological basin of Nestos River

T. Mimides, A. Kouretzi, K. Pylarinou, K. Mandalaka (Greece)

21:00 – 23.00 Gala Dinner

SATURDAY, 04 JULY 2009

“DIMOKRITOS 1” Room

Keynote Presentations

Chair: A. Dinar and S. Rapsomanikis

- | | |
|---------------|--|
| 09.00 – 09.40 | Cost Modelling and Economical Efficiency in Wastewater Treatment Processes (Keynote: “2 nd International Conference on Water Economics, Statistics and Finance”)
<i>F. Hernandez-Sancho, R. Sala-Garrido (Spain)</i> |
| 09.40 – 10.20 | Environmental Cost-Benefit Analysis and Water Quality Management (Keynote: “2 nd International Conference on Water Economics, Statistics and Finance”)
<i>N. Hanley (UK)</i> |
| 10.20 – 11.00 | European Water Statistics (Keynote: “2 nd International Conference on Water Economics, Statistics and Finance”)
<i>J. Förster (Luxemburg)</i> |
| 11.00 – 11.30 | Coffee Break ☹ |

“DIMOKRITOS 1” Room (in parallel with “DIMOKRITOS 2”)
Session 3 (cont.)
OPTIMAL WATER RESOURCES MANAGEMENT

Chair: G. Oron and H. Theuretzbacher-Fritz

- | | |
|---------------|--|
| 11.30 – 11.50 | Maximizing the Water Wealth in a National Water Sector:
Simulating to a Firm with Debt
<i>E. Braude, Z. Sinuani-Stern, G. Oron (Israel)</i> |
| 11.50 – 12.10 | Applying the Virtual Water Concept at Regional Level: The
Prefecture of Xanthi (Greece) Example
<i>N. Kotsovinos, M. Gratziou, M. Tsalkatidou (Greece)</i> |
| 12.10 – 12.30 | Estimation of the Virtual Water Trade Between Two Spanish
Regions: Castilla-la Mancha and Murcia
<i>Á. De Miguel, E. García, I. De Buestamante (Spain)</i> |
| 12.30 – 12.50 | Matching Users’ Rights to Available Ground Water with a Smart
Market
<i>J. Raffensperger (New Zealand)</i> |
| 12.50 – 13.10 | A Hybrid Approach for Municipalities Water Management
Decision-Making
<i>P. Kemanetzis, I.E. Nikolaou, E. Grigoroudis, K.P. Tsagarakis
(Greece)</i> |
| 13.10 – 13.30 | Influence of Household Socioeconomic Region and Resident Type
on End Use Water Consumption Levels
<i>R. Willis, R.A. Stewart, K.Panuwatwanich, P. Williams (Australia)</i> |
| 13.30 – 15.00 | Lunch Break 🕒 |
| 15.00 – 21.00 | Buss region tour 🚌 |

“DIMOKRITOS 2” Room (in parallel with “DIMOKRITOS 1”)
Session 1 (cont.)
WATER ECONOMICS

Chair: N. Hanley and F. Hernandez-Sancho

- | | |
|---------------|---|
| 11.30 – 11.50 | Determining the Optimal Investment Plan for Water Utilities: The
Case of Three Valleys Water
<i>S. Reid, A. Chalak (UK), J. Hecht (USA)</i> |
| 11.50 – 12.10 | A Choice Experiments Approach Towards Evaluating Household
Perception of Environmental and Resource Costs Attached to
Water Scarcity
<i>L. Sardonini, M. Raggi, D. Ronchi, D. Viaggi (Italy)</i> |

- 12.10 – 12.30 The Role of Restrictions in Urban Water Management: Reflections from the Australian Drought
J. Chong (Australia)
- 12.30 – 12.50 Application of the Contingent Valuation Method in A Developing Country: A Case Study of the Yusufeli Dam in Northeast Turkey
E. Alp, U. Yetis (Turkey)
- 12.50 – 13.10 Household Preferences and Willingness to Pay for Water Services in the Middle Olifants River Basin of South Africa
J. Kloos (Germany)
- 13.10 – 13.30 Valuation of the Use and Nonuse Attributes of Cournas Lake in Greece
M. Genius, K.P. Tsagarakis (Greece)
- 13.30 – 14.40 Lunch Break ☺
- 15.00 – 21.00 Bus tour in the region 🚌

SUNDAY, 05 JULY 2009

“DIMOKRITOS 1” Room (in parallel with “DIMOKRITOS 2”)

Session 3 (cont.)

OPTIMAL WATER RESOURCES MANAGEMENT

Chair: M. Maurer and C. Sanclemente

- 09.00 – 09.20 The Unequal Geographical Expansion of Water Privatization: Global and European Perspectives
S. Gialis, A. Loukas, N. Mylopoulos (Greece)

Session 4

ENGINEERING COST ANALYSIS

- 09.20 – 09.40 Factors Affecting Economy of Scale in Combined Sewer Systems
M. Maurer, M. Wolfram, H. Anja (Switzerland)
- 09.40 – 10.00 Estimating the Costs of Collective Treatment of Wastewater: the Case of Walloon Region (Belgium)
T. Dogot, Y. Xanthoulis, D. Xanthoulis (Belgium)
- 10.00 – 10.20 Financing Small Towns Water Supply in Ghana
C.A. Braimah, R. Franceys
- 10.20 – 10.40 Cost Recovery of Wastewater Reuse and Intersectoral Water Transfer Between Rural and Urban Areas – a FAO Economic Wastewater Study
I. Heinz (Germany), M. Salgot (Spain), S. Koo-Oshima (Italy)

- 10.40 – 11.00 Assessing Water Economics, Impacts and Cost Benefit Analysis for Management and Development of Water Infrastructures Investment Plans, by Philippe Wind (Singapore)
P. Wind (Singapore)
- 11.00 – 11.30 Coffee Break ☕

Session 4 (cont.)

ENGINEERING COST ANALYSIS

Chair: I. Heinz and M. Shibuga

- 11.30 – 11.50 Integrating Quality and Cost of Surface Raw Water: Upper and Middle Vaal Water Management Areas, South Africa (58)
B. Dzwauro, F.A.O. Otieno (South Africa)
- 11.50 – 12.10 Estimation of Water Quality Improvement Benefit Using Replacement Cost Approach in Korea (56)
K. Yeo, C. Yi, G. Kim, M. Shim (Korea)
- 12.10 – 12.30 Assessment of the Best Available Wastewater Management Techniques for a Textile Mill: Cost and Benefit Analysis (18)
B. Dogan, M. Kerestecioglu, U. Yetis (Turkey)
- 12.30 – 12.50 Level of Service Based on Economic Analysis (3)
K. Kerri (USA)
- 12.50 – 13.10 Cost Efficiency and Tariffs in the Urban Water Systems: An Empirical Approach for Spain (92)
F. Hernandez-Sancho, R. Sala-Garrido, S. Del Saz-Salazar (Spain)
- 13.10 – 14.40 Lunch Break 🍽️

Session 4 (cont.)

ENGINEERING COST ANALYSIS

Chair: I. Heinz and M. Shibuga

- 14.40 – 15.00 Planning Renewal of Water Mains While Considering Deterioration, Economies of Scale and Adjacent Infrastructure (95)
Y. Kleiner (Canada), A. Nafi (France), B. Rajani (Canada)
- 15.00 – 15.20 Decentralised versus Centralised Water Treatment: The Impact of Growth (82)
M. Maurer (Switzerland)

“DIMOKRITOS 2” Room (in parallel with “DIMOKRITOS 1”)
Session 1 (cont.)
WATER ECONOMICS

Chair: N. Georgantzis and V. Linderhof

- | | |
|---------------|--|
| 09.00 – 09.20 | Farmers’ Preferences for Wastewater Treatment Using Choice Experiments in Crete
<i>M. Genius, A.N. Menegaki, K.P. Tsagarakis (Greece)</i> |
| 09.20 – 09.40 | Does Improved Water Quality Increase the Value of Houses? An Internet Discrete Choice Experiment
<i>V. Linderhof, R. Brouwer, S. Hess (The Netherlands)</i> |
| 09.40 – 10.00 | Demand for Irrigation Water in Central Greece (Thessaly) Under Recent Agricultural and Water Policy Changes: Unravelling Conflicts and Synergies
<i>A. Kampas, A. Petsakos, S. Rozakis (Greece)</i> |
| 10.00 – 10.20 | Economic Assessment of Water as a Good for Public Consumption: the Case of Lerma River in La Piedad, Michoacan
<i>H. R. Guerrero-Garcia-Rojas, F. Gómez-Sántiz (Mexico)</i> |
| 10.20 – 10.40 | Estimation of Irrigation Water Demand in an Area of Northern Italy using Positive Mathematical Programming (PMP)
<i>D. Viaggi, M. Raggi (Italy)</i> |
| 10.40 – 11.00 | Modelling CAP-WFD Interactions and Cost-effectiveness of Measures to Reduce Nitrogen Pollution
<i>I. Mouratiadou, G. Russell, C. Topp (UK), K. Louhichi (France), D. Moran (UK)</i> |
| 11.00 – 11.30 | Coffee Break ☹ |

Session 1 (cont.)
WATER ECONOMICS

Chair: J. Förster and D. Peter

- | | |
|---------------|--|
| 11.30 – 11.50 | Assessing the Economic Viability of Alternative Water Resources and Policy Instruments in Water Scarce Regions: The Roles of Economic Valuation Cost – Benefit Analysis and Discounting
<i>E. Birol (USA), P. Koundouri, Y. Kountouris (Greece)</i> |
| 11.50 – 12.10 | Forests Adding Value to Water Quality in a Land Use Perspective
<i>J. Figuepron, S. Garcia, A. Stenger (France)</i> |
| 12.10 – 12.30 | Municipal Water Pricing
<i>P. Bartoszczuk (Poland)</i> |

Session 2
STATISTICS AND BENCHMARKING

- 12.30 – 12.50 Suggestions for the Optimal Implementation of Benchmarking
 Studies to the Water Supply Sector
R. Neunteufel (Austria)
- 12.50 – 13.10 Introducing Country-wide Benchmarking to The Water Supply
 Sector in Slovenia Linked with Cross-Border Comparisons with
 Austria and Bavaria
*H. Theuretzbacher-Fritz (Austria), J. Schielein, H. Kiesl
 (Germany), R. Neunteufel (Austria), J. Kölbl (Germany)*
- 13.10 – 14.40 Lunch Break ☕

Session 2 (cont.)
STATISTICS AND BENCHMARKING
 Chair: Ed. Smeets and K. Tsagarakis

- 14.40 – 15.00 Water Pricing Policies in Greece: is There a Common
 Understanding?
V. Kanakoudis, S. Tsitsifli (Greece)
- 15.00 – 15.20 The European Benchmarking Co-operation: Taking the Next Step
 on the Learning Curve
D. Peter (The Netherlands)
- 15.20 – 15.40 Regulation of Water and Wastewater Services: an International
 Comparison
R.C. Marques, P. Simões, J.S. Pires, J. Almeida (Portugal)

“DIMOKRITOS 2” Room (Cont.)

- 15.40 – 16.20 CLOSURE

TRAVEL

Alexandroupolis can be reached with the following means and ways:

- A direct flight from Athens to Alexandroupolis airport: you can choose among the various Greek flight companies: Aegean Airlines, Skyexpresss and Olympic Airlines. When you arrive to Alexandroupolis airport you can take a taxi for a few Euros to the conference venue or rent a car if you would like to be more independent. Public bus transport is also available. You will find various car rental companies in the arrivals lounge (AVIS, Europcar, Evros Car Rental, Hertz, Sixt).
- A flight from Athens to Kavala airport: Kavala airport is 1.5 h drive to Alexandroupolis. This airport is NOT recommended unless you plan to rent a car. This is because there is not public transport from the airport to a nearby town and the only mean to leave the airport is a car. A taxi to Alexandroupolis would cost about 110 €
- A flight from Athens to Thessaloniki (Salonica): Then take the bus or train to Alexandroupolis or rent a car. It takes about 3 hours drive from Thessaloniki to Alexandroupolis. This choice might be convenient only if you find a direct flight from your country to Thessaloniki. Otherwise Thessaloniki is a bit far from the conference venue, but if you take this choice, you are going to enjoy the route through the brand new, uncongested and safe "Egnatia" motorway. If you decide to drive to Alexandroupolis from Salonica, you will find the conference venue on the first Alexandroupolis motorway exit.
- Intercity (long distance) bus: This is an intercity bus called KTEL (Tel. +30 25510 26479), it connects Alexandroupolis with other towns. Thessaloniki - Alexandroupolis: 07:30-10:15-12:00-14:30-15:45-17:00 express (not on Saturday)-19:00-23:45 (5 hrs), Athens - Alexandroupolis: 17:00 (9 hrs)
- Radio Taxi phone number: 25510 33500, Local Bus Station: 25510 26479

OTHER PRACTICAL INFORMATION

Alexandroupolis is the capital of Evros prefecture. Evros is the Greek prefecture that constitutes the cross roads for three countries: Greece, Turkey and Bulgaria. Alexandroupolis is a seaside town with a population of 57,000. It has an airport serving domestic flights and a port connecting to various Aegean island destinations.

The nearest customs point and entrance to Turkey ("Kipi" customs point) is only 30 km away while the corresponding entrance to Bulgaria ("Ormenio" customs point) is 1.5 h. West of Alexandroupolis, 45 min drive is the city of Komotini (Rodopi prefecture) and 1.5 h the city of Xanthi.

Telephone: The town code is 25510. Phone calls can be made from OTE's office (Greek Telecommunication Organisation: 5 Kavyri St., 25510 26699-27699) and from public phone stands only with phone cards (Tilekarta, 4 €). Prepaid phone cards (Teledome, Vivodi, Smartalk, Talk Talk, Hronokarta, with prices from 3 € to 10 €) can

be bought at kiosks or mini markets, charge less and can be used from any fixed public or private tone phone. Calling home is cheaper from 10:00 pm- 6:00 am on the weekdays and from 3 pm at Saturday till 6 am Monday (Greek time). Transferred calls can be operated through the operator, by dialling 161. Telegrams can be sent from OTE's office and faxes from OTE, travel agencies and hotels. Useful phone numbers in Alexandroupoli: Emergency number 100, Tourist Police 25510 66200, Police Station 25510 37386, First aid 166, Hospital 25510 74000, Municipality 25510 64100.

Post office (ELTA): One office, at 42 Vasileos Alexandrou St. (main office) (Mon-Sat 8:00 am - 8:00 pm). Post code: 100 Rethymno. Letter boxes are painted yellow and can be found in the most central locations. Stamps can be bought from the post offices or from kiosks and shops selling postcards and foreign newspapers, with a small premium being charged, Tel: 25510 23122, Fax: 25510 23425

Medical treatment: There is a public hospital at 19 Dimitras St., (Tel. 25510 25772-6) and many private medical centres. There is always a pharmacy open from 8:00 am to 8:00 pm and another one from 8:00 pm to 8:00 am. Lists of these pharmacies, for each day, can be found on the window of any pharmacy.

CLIMATE

In July, days are warm (average high temperature above 26°C). Good prospects for swimming are realised. Sun glasses are helpful. High protection sun cream is essential but can be found in any shop after arrival.

CORRESPONDENCE

Correspondence regarding travel arrangements, hotel accommodation, taxis, and conference tours should be directed to:

Stefanakis Alexandros

Tel: + 30 6977 068 055, + 25410 79393

Fax: + 30 25410 79393, email: astefan@env.duth.gr