

I.

PERSONAL INFORMATION

Name: Gratziou Maria – Evridiki
Address: Department of Civil Engineering, Democritus University of
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Dr. Rural / Surveying Engineering and Sanitary Engineering
Professor: Department of Civil Engineering, Democritus University of Thrace,

II. ACADEMIC BACKGROUND AND EDUCATION TRAINING

- 1975: Degree of Rural and Surveying Engineering, Aristotle University of Thessaloniki, Greece.
 - 1989: Master of Sanitary Engineering, Department of Sanitary Engineering, National School of Public Health, Athens.
 - 1998: PhD - Thesis title: “*Functions for the Municipal Wastewater Treatment Plants Cost Evaluation*”, Department of Civil Engineering, Democritus University of Thrace.
- 2012-2013: Training and Research, Center of Water Research (Director: Professor Jörg Imberger) of Western Australia University on ELCOM and CAEDYM (3D Hydrodynamic Models).

Seminars attended

- 2017 *21ST CENTURY: THE CENTURY OF WARS OVER WATER?* Hellenic Institute of International Relations (Ram Aviram), Feb. 2017 (Duration 4 days).
- 2009 *Membrane technologies for alternative water resources*, MBR-Network, Research and Technology Centre of Thessaloniki (CERTH) March, 2009 (Duration 12 hours).
- 2007 *Wastewater Sludge Management*, National Technical University of Athens, 11/5/2007, (Duration 12 hours)
- 2006 *Advances in stirring and aeration of wastewater treatment plant*, by ABS, Athens, (Duration 12 hours)
- 2003 *Environmental Fluid Mechanics, Management of Large Lakes, Environmental importance of Internal Waves in a Stratified*

- Rotating, Fluid-Non-Periodic Internal Motions* (Duration 18 hours) by Professor Iörg Imberger, Democritus University of Thrace.
- 2003 *Wastewater Treatment* (Duration 10 hours) by Dr. A.J.Adeoye, Democritus University of Thrace.
 - 2003 *Training in GIS*, by MARATHON DATA, November, Democritus University of Thrace (Duration 20 hours).
 - 2002 *Health and Safety for Workers*, by the Hellenic Institute for Occupational Health and Safety, Alexandroupolis, November 2002 (Duration 20 hours).
 - 2001 *Training in a Remote Sensing model*, Fundamentals and Advancing of ERDAS Imagine, by ERDAS Imagine, Athens, June 2001 (Duration 40 hours).
 - 1993 *Training in GIS*, by Laboratory of Photogrammetry, National Technical University of Athens, Engineering Continuing Education December, 1993, (Duration 10 days)
 - 1991 *Environmental Engineering and Economics*, by Ministry of Environment, Spatial Planning and Public works, Balkan Regional Seminar, Athens, February 1991 (Duration 2 days).
 - 1990 *Treatment and Use of Sewage Sludge and Liquid Agricultural wastes*, by EU, Athens, March 1990, (Duration 4 days).
 - 1985 *Data Analysis, Methods of MCA*, by Spring International School, Technical University of Crete, Chania, March 1985 (Duration 5 days).
 - 1984 *Design of Municipal Wastewater Treatment Plants*, NTUA, Department of Sanitary Engineering, 17-21 September, Athens 1984 (Duration 5 days)
 - 1984 *Pollutants Behavior and Risk into water bodies*, by NTUA-EPA-MIT, Laboratory of Hydraulics, 22-30 May, Athens 1984 (Duration 9 days).
 - 1980 *Civil Engineering System Analysis*, Democritus University of Thrace, Xanthi, October-November 1980 (Duration 2 months).

III. SCIENTIFIC ORGANIZATIONS MEMBER

- Hellenic Hydrotechnical Association (E.Y.E.).
- Hellenic Committee for Water Resources Management (E.E.Δ.Y.Π.).
- European Water Resources Association (E.W.R.A.).
- International Association on Water Quality (IAWQ).
- International Water Association (IWA).

IV. ACADEMIC AND EDUCATIONAL ACTIVITIES

On 12/12/2016 homophonous election as Professor, Hydraulic Sector, Department of Civil Engineering, Democritus University of Thrace.

Academic field: "*Technical and Economic Analysis and Management of Environment Protection Projects – focus on Wastewater Treatment Projects*". (ΦΕΚ 467/23-5-2017 T.TPITO).

IV-1. Teaching Experience– Training - Publications

A. Department of civil Engineering,

1. Courses which were taught for the:

Graduate Level

- ❑ 1999 – 2011: Construction Equipment and Construction Site Management (12 years).
- ❑ 2001- Present: Wastewater Treatment Plants
- ❑ 2003-Present: Natural Wastewater Treatment Systems - Sanitary Engineering
- ❑ 2009-Present: Water Resources Management
- ❑ 2014-2017: Engineering Hydrology (4 years).
- ❑ 2017- Present: Environmental & Water Policies

Postgraduate Level

- ❑ 2001- Present: Design of Wastewater Treatment Plants
- ❑ 2016- Present: Water Resources Management and Water Systems Reclamation

2. Course Training Assistant

Supervision of the Diploma Theses and the tutorial and laboratorial exercises along with occasionally teaching:

- ❑ 1978-1983: Road Construction I and Pavements (5 years).
- ❑ 1983-1984: Engineering Economics and Construction Management (1 year).
- ❑ 1987-1991: Environmental Management (4 years).
- ❑ 1992-1998: Environmental Management I (6 years).
- ❑ 1992-1998: Environmental Management II (6 years).

- 1993-1999: Construction Equipment and Construction Site Management (6 years).

3. PhD Theses

1. **Supervisor** of PhD thesis of Dr. Maria Chalatsi, MSc Civil Engineer & Environmental Engineer, entitled “Contribution to the simulation of qualitative characteristics of Stabilization Ponds in Northern Greece”. Presented in 2014, Department of Civil Engineering, Democritus University of Thrace.
2. **Member of the Advisory Committee** (three-members) of PhD thesis of Dr. Manolia Andredaki, MSc Civil Engineer, entitled “Effect of reservoirs materials sediment accumulation to coastal erosion - The example of Nestos River”. Presented in 2014, Department of Civil Engineering, Democritus University of Thrace
3. **Member of the Advisory Committee** (three-members) of PhD thesis of Dr. Marina Tsalkatidou, MSc Chemical Engineer, entitled “Design simulations study of waste stabilization ponds and combined wastewater treatment plant using waste stabilization ponds and constructed wetlands”. Presented in 2010, Department of Civil Engineering, Democritus University of Thrace.
4. **Member of the 7-members Selection Board** of PhD thesis of Dr. A. Kapagianidis, Environmental Engineer, entitled “Biological Removal of Phosphorus with simultaneous denitrification in a two activated sludge system treating municipal wastewater”. Presented in 2010, Department of Environmental Engineering, Democritus University of Thrace.
5. **Member of the 7-members Selection Board** of PhD thesis of Dr. Sofia Bakopoulou, entitled “Exploiting of alternative water resources in Greece: The case of the recovery and reuse of waste water” Presented in 2009, Department of Planning and Regional Development, University of Thessaly.

4. Master Theses- Graduate diploma theses

Supervisor of many (i) Postgraduate theses under the auspices of the Interdepartmental postgraduate program “Hydraulic Engineering”, Departments of Civil Engineering and Environmental Engineering, Democritus University of Thrace and (ii) Graduate diploma theses, Departments of Civil Engineering, Democritus University of Thrace.

5. Publications for educational purposes (DUTH publications) (*in Greek*)

BOOKS

- “Construction Equipment and Construction Site Management”, Co-author Prof. D. Panagiotakopoulos, (2004), pages 430.
- “Natural Wastewater Treatment Systems and Principles of Sanitary Engineering”, Co-author Prof. N. Kotsovinos, (2004), pages 440.
- “Wastewater Treatment Plants”, Co-author Prof. N. Kotsovinos, (2005), pages 386.

NOTES

- “Wastewater Treatment Plants”, (2004), pages 125.
- “Water Resources Management”, (2015), pages 114.

ONLINE NOTES on e-class of the Democritus University of Thrace

B. Additional Teaching Activities other than those of DUTH

- 2017 Feb. : Academy of lifelong learning (Region of Eastern Macedonia and Thrace and Democritus University of Thrace) Topics: Wastewater Treatment Plants- State of Art
- 2013 March: During the period of her sabbatical, she carried out seminars as lecturer at the Center of Water Research, Western Australia University (Director: Professor Jorg Imberger). Topics: “Wastewater management by multi-criteria analysis”.
- In Seminars of Hellenic Productivity Centre
 - 1991 Oct.-Nov.: Seminar entitle “Biomass and Energy Conserving”, Lectures: a) Water Pollution b) Wastewater Management c) Wastewater Disinfection
 - 1992 Mar.-Apr. : Seminar entitled “Application of Biotechnology in Agricultural Crops”, Lecture: Exploiting of Urban Wastewater in Crops.
 - 1993 March : Seminar entitled "Environmental Education and Benefits of recycling", Lecture: Composting and Applications.

IV-2. Research Activities - Participation in Research Projects

She was an active member of the Scientific Team of the following research programs:

As a leader of the following projects:

1. «*Current Trends in Municipal Wastewater Management*», (2000-2001).
2. «*Construction Equipments for Earthmoving Contractors and Control Systems*», (2001-2002).
3. «*Operational Problems of Wastewater Treatment Plants*», (2002 – 2010).
4. «*Redesign and reconstruction of a building with bioclimatic design principle*», (2010-2011).
5. «*Study of hydrodynamic and qualitative characteristics of wastewater stabilization ponds using a 3D simulation model*», (2014- 2015).
6. «*Potential Risks in wastewater treatment plants and protection guidelines*», (2013-2016).

As an active member of the Scientific Team for the following projects:

7. «*Research on the traffic volume of National Road Kavala-Xanthi*», (1978).
8. «*Sewage Treatment Plants: Economies of Scale, Strategic Planning*», Emporiki Bank, (1988-1990).
9. «*Possibilities and Processes Waste Recovery (Kavala-Xanthi-Rodopi)*», (1990-1993).
10. «*Environmental impact study of the Sanitary Waste Landfill - Prefecture of Xanthi*», Waste Management Association - Prefecture of Xanthi Department, (1992).
11. «*Investment Evaluation of Municipal Wastewater Treatment Plants*», (1999).
12. «*Sanitation of rainwater and Municipalities and Communities wastewater Pref. of Xanthi - Perspectives*» (2000-2001).
13. «*Computer Centre of Civil Engineering Department Support*», (2001-2002).
14. «*Online teaching and Computing Centre of Civil Engineering Department support*», (2002-2003).

IV-3. Research Activities / Scientific Publications

IV -3.1. PhD Thesis

M.Gratziou, «*Functions for the Municipal Wastewater Treatment Plants Cost Evaluation*», Department of Civil Engineering, Democritus University of Thrace, Xanthi, September, 1998.

IV -3. 2. Postgraduate Thesis

M.Gratziou, “*Chlorination of municipal wastewater*”, Master Thesis, Department of Sanitary Engineering, National School of Public Health, Athens, September 1989.

IV-3.3. Selected Articles

Maria Gratzou, (2017), «*Nitrogen removal kinetic in wastewater stabilization pond systems in Greece*», *Desalination and Water Treatment*, 63: 318–326

M.Gratziou and M.Chalatsi, (2017), «*Sludge distribution and annual accumulation rate in wastewater stabilization ponds in Northern Greece regions*», *Desalination and Water Treatment*, 63 (2017) 308–317.

M. Gratzou, K. Kopasakis and M. Chalatsi, (2016), «*Study of the Hydrodynamic Characteristics of a Mediterranean Stabilization Ponds System Using a 3D Hydrodynamic Model*», *European water*, 53 pp. 55-70

Maria Gratzou and Maria Chalatsi, (2016), «*Kinetics of COD in Wastewater Stabilization Ponds in Northern Greece*», *Water Utility Journal*, 14:19-27.

M. Gratzou, (2016), «*Kinetic models’ evaluation of phosphorus removal in wastewater stabilization ponds under Mediteranian conditions*», *Fresenius Environmental Bulletin* (has been accepted for publication).

M. Gratzou and M.Chalatsi, (2016), «*Nutrient removal from domestic wastewater by stabilization ponds in Northern Greece*», *Fresenius Environmental Bulletin* (has been accepted for publication).

M.Gratziou and M.Chalatsi, (2016), «*Efficiency of stabilization pond systems in Northern Greece on phosphorus removal*», *Water Utility Journal*

M. Chalatsi and **M. Gratzou**, (2015), «*Efficiency and design parameters of waste stabilization ponds in North-East Greece*», *Desalination and Water Treatment*, 56 (5) pp. 1240-1247.

M. Gratziou and M. Chalatsi, (2015), «*BOD₅ removal kinetics of a stabilization pond system in Northern Greece*», 14th International Conference on Environmental Science and Technology Cest 2015, Rhodes-Greece, 3 -5 September 2015, (ed.T.D. Lekkas - Proceedings No 00623).

M. Gratziou and M. Chalatsi, (2015), «*Nitrogen removal from domestic wastewater by stabilization ponds treatment under Mediterranean conditions*», 4th International conference on Environmental Management, Engineering, Planning and Economics, Mykonos- Greece, June 14-18, 2015, (ed. A. Kungolos, K.Aravosis, C.Laspidou, P.Samaras, K.W.Schramm – Proceedings CD, Book of Abstracts pp. 152).

M. Gratziou and M. Chalatsi, (2015), «*Sludge accumulation and characteristics in wastewater stabilization pond system in Vamvakofito-Northern Greece*», 14th International Conference on Environmental Science and Technology Cest 2015, Rhodes-Greece, 3-5 September 2015, (ed.T.D. Lekkas - Proceedings No 00622).

M. Gratziou and M. Chalatsi (2015), «*Sludge accumulation in facultative and maturation wastewater stabilization pond systems under Mediterranean climatic conditions*», 4th International conference on Environmental Management, Engineering, Planning and Economics, Mykonos- Greece, June 14-18, 2015, CEMEPE 2015 & SETOCOX (ed.A.Kungolos, K.Aravosis, C.Laspidou, P.Samaras, K.W.Schramm - Proceedings p.p. 322-329).

Gratziou M. and Chalatsi M. (2015), «*COD and TSS removal reaction rate constants of wastewater stabilization pond systems in N. Greece*», 1st International Scientific Conference on Sustainable Solutions to Wastewater Management: Maximizing the Impact of Territorial Cooperation, June 19-21, Kavala, Greece 2015 (Proceedings CD of the WASTEnet - ed. Democritus University of Thrace, paper No 47).

Gratziou M., Kopasakis K. and Chalatsi M., (2015), «*The hydrodynamic characteristics of the Vamvakofito stabilization ponds system*», 1st International Scientific Conference on Sustainable Solutions to Wastewater Management: Maximizing the Impact of Territorial Cooperation, June 19-21, Kavala, Greece 2015, (Proceedings CD of the WASTEnet - ed. Democritus University of Thrace, paper No 46).

M. Tsalkatidou, **M. Gratziou**, N. Kotsovinos, (2013), «*Septage treatment using a combined waste stabilization ponds - vertical flow constructed wetland system*», Desalination and Water Treatment, 51(13-15), pp.3011-3017

M. Gratziou, P. Chrisochoidou, (2013), «*Cost analysis of wastewater nitrogen removal in Greece*», Fresenius Environmental Bulletin, 22(7b) pp.2117-2123

M. Gratziou, M. Chalatsi, (2013), «*Use of waste stabilization ponds' systems in Mediterranean Europe*», Desalination and Water Treatment, 51(13-15), pp.3018-3025

M. Gratziou, M. Tsalkatidou and E. Savvanidou, (2013), «*Sludge production for various conventional wastewater treatment plants*», 4th International conference on

Environmental Management, Engineering, Planning and Economics, Mykonos-Greece, June 24-28, 2013. CEMEPE&SETOCOX (ed.A.Kungolos, A.Karagiannidis, K.Aravosis, P.Samaras, K.W.Schramm - Proceedings p.p. 373-378).

M. Gratziou, M. Tsalkatidou and E. Savvanidou, (2012), «*Cost and energy consumption functions for various conventional wastewater treatment plants*», 3d International Symposium on Green Chemistry for Environment, Health and Development, Skiathos- Greece, October 3-5, 2012, (Proceedings No P244- Book of Abstracts pp. 184).

N.Kotsovinos, **Gratziou M.**, M.Tsalkatidou, (2011), «*Applying the virtual water concept at regional level - the cases of the Prefectures of Xanthi and Rhodope, Greece*», Desalination and Water Treatment, 33(1-3), pp.14-21

M.Gratziou and M.Tsalkatidou, (2010), «*Cost analysis and evaluation of conventional urban wastewater treatment plants*», 3^d International Conference on Small and Decentralized Water and Wastewater Treatment Plants, Skiathos-Greece, May 14-16, 2010, (Proceedings pp 439-446)

Μ.Γκράτζιου και Ε. Κελεσιδης, (2010), «*Κόστος μονάδων επεξεργασίας λυμάτων με βιολογική και βιολογική-χημική απομάκρυνση φωσφόρου*», 3^d International Conference on Small and Decentralized Water and Wastewater Treatment Plants, Skiathos-Greece, May 14-16, 2010, (Proceedings pp 447-452)

Tsalkatidou M., **Gratziou M.**, Kotsovinos N., (2009), «*Combined stabilization ponds-constructed wetland system*», Desalination, **253**, pp, 1-10

M. Gratziou, M. Halatsi, K.Skordas, (2009), «*Qualitative characteristics of three waste stabilization ponds in North East Greece*», 7th International Conference on Water Conservancy and Risk Reduction Under Climate Instability-EWRA, Limassol-Cyprus, June25-27, 2009, (Proceedings pp 793-800)

M.Gratziou, Th.Menelaou, A.P.Vavatsikos, (2009), «*Wastewater Management in Nicosia province-Cyprus with the use of Multi-Criteria Methods*», 7th International Conference on Water Conservancy and Risk Reduction Under Climate Instability-EWRA, Limassol-Cyprus, June25-27, 2009, (Proceedings pp 825-832)

M. Gratziou, A. Vavatsikos, M. Tsalkatidou, (2009), «*Multicriteria Evaluation of Alternative Wastewater Treatment Processes: the Topiros Municipality (Greece) Example*», 1nd International Conference on Asset Management of Medium and Small Wastewater Utilities- IWA, Alexandroupolis, Greece, 3-4 July, 2009, (Proceedings pp 107-115).

K.P.Anagnostopoulos, **M.Gratziou** and A.P.Vavatsikos, (2007), «*Using the Fuzzy Analytic Hierarchy Process for selecting wastewater facilities at Prefecture level*», European Water, 19/20: 15-24

K.P.Anagnostopoulos, **M.Gratziou**, A.P. Vavatsikos, (2006), «*Natural Systems for wastewater treatment site selection Using GIS and Fuzzy AHP*», 8^o International

Conference on Protection and Restoration of the Environment, July 3-7. Chania-Greece, 2006, (Proceedings 211-212- CD pp.106-114).

N.E.Kotsovinos, **M.Gratziou**, M. Tsalkatidou, (2006), «*Economic Evaluation of small capacity Sewage Processing Units*», Global Nest Journal, **8** (1) pp 52-60

M.Gratziou, M.Andreadaki, M.Tsalkatidou, (2006), «*Water demand and rates policy in provincial cities in Greece*», European Water, 15/16: 33-44

K.Anagnostopoulos, **M.Gratziou**, & A. Vavatsikos, (2005), «*Evaluation of Wastewater Facilities Scenarios with the use of AHP Multicriteria Method*», 9th International Conference on Environmental Science and Technology, Rodos-Greece, 1-3 September 2005, (Vol B. pp 39, C.D. Proceedings No 39-44)

M.Gratziou, S.Ekonomou, M.Tsalkatidou, (2005), «*Cost Analysis and Evaluation of Urban Sewage Processing Units*», Water Science and Technology: Water Supply Journal. **15** (1), pp135-142

M.Gratziou & M.Tsalkatidou,(2005), «*Economic evaluation of small capacity domestic wastewater processing units in provincial or rural area*», 2nd International Conference Sustainable Planning and Development 2005, WIT, Bologna, Italy, 12-14 September 2005 (Proceedings vol I. pp. 555-564).

K.Anagnostopoulos, **M.Gratziou**, & A. Vavatsikos, (2005), «*Multicriteria Evaluation of Alternative Wastewater Treatment Process at Municipality Level*», 2nd International Conference Sustainable Planning and Development 2005, WIT, Bologna, Italy, 12-14 September 2005, (Proceedings vol I. pp. 535-544).

M.Gratziou, (2003), «*Alternative Choices of Wastewater Management in Thrace*», 2nd International Conference on Ecological Protection of the Planet Earth Bio-Environment and Bio-Culture, June, 2003, Sofia, Bulgaria, Proceedings pp.303-308.

M.Gratziou, (2002), «*Ante Appraisal Methods of Municipal Wastewater Treatment Plants Investments*», 3rd International Forum on Integrated Water Management, March, 2002, Athens, Proceeding, pp.412-417

M.Gratziou, (2002), «*Air Quality Alteration in a Greek Town*», 8^o International Conference on Urban Transport and the Environment in the 21st Century, 2002, WIT press, Urban Transport VIII, pp. 533-542

M.Gratziou, (2002), «*Analysis of Wastewater Treatment Plant Cost*», 5th International Conference on Water Resources Management in the ERA of Transition, European Water Resources Management Association, September, 2002, Athens, Proceeding, pp. 529-537.

M.Gratziou, (2001), «*Alternative Choices of Wastewater Treatment in Rural Areas*», IWA 2nd International Conference on Efficient Water Management, October, 2001, Berlin, Preprints Abstract book pp. 227, CD- P005

Ch. Gratziou, K.Katsouyanni, **M. Gratziou** et al, (2001), «*Air Pollution Short Term Effects on respiratory Health oh Children living in Athens*», 7th International

Conference on Environmental Science and Technology, September, 2001, Syros, Proceeding, Vol 1, pp.291-297.

M. Gratziou, K. P. Anagnostopoulos, (2000), «*Construction Cost Estimation Functions for Reed Beds*», IWA 1st International Conference, Small Wastewater Treatment Plants, July, 2000, Paris, CD F2287.

M. Gratziou, K. P. Anagnostopoulos, (2000), «*Cost-Benefit analysis for waste water treatment plants*», International Conference on Protection and Restoration of the Environment, July, 2000, Thassos, Proceedings, pp Vol 2, pp.1181-1186.

Panagiotakopoulos D., V. Aivaliotis, **M. Gratziou**, (1993) «*The Greek Experience on Recovery from Solid Wastes (Eastern Macedonia and Thrace)*», The 2nd International Symposium on Computation and Energy Recovery from M.S.W., Palermo, Italy, March, Proceedings pp 169-178.

Aivaliotis V., T.Yiannakopoulou, **M.Gratziou**, D. Panagiotakopoulos, (1991), «*Economies of Scale and Strategic Planning for Municipal Waste Treatment Plants in Greece*», Construction Management and Economics, vol.9, pp 553-564.

IV-3.5. Articles in Scientific Volumes

Ydrogaia, Honorary Volume in honor of Professor Ch.D.Tzimopoulos, AUTH, (2009), **M.Gratziou**, M.Chalatsi, M.Tsalkatidou, N.Kotsovinos, "*Natural wastewater treatment systems in Northern Greece*", (pp. 365- 376).

New Developments in the Civil Engineering Research, Honorary Volume in honor of retired faculty members of Civil Engineering Department, DUTH in academic year 2014-15, (2015), **M.Gratziou**, M.Chalatsi, "Total suspended solids removal from municipal wastewater by stabilization ponds systems in Northern Greece", (pp. 199- 212).

IV-3.6. Articles in Day Conference Proceedings

"**The Residential Problem**", Hellenic Technical Chamber, Volos, February, (1987). **M.Gratziou**, "Mechanisms for Property Provision in Greece and their Benchmarking", (pp. 55-67).

"**Decentralized Wastewater Processing Systems Management**", Hellenic Central Municipalities Union, Hellenic Technical Chamber, Municipality of Karditsa, Plastira Lake, 14-15 October, (2005), **M. Gratziou**, "Small Capacity Wastewater Treatment Systems Evaluation" (pp. 16-34).

"**New Developments in the Civil Engineering Research**", Department of Civil Engineering, DUTH, (2015), **M.Gratziou**, M.Chalatsi, "Total suspended solids

removal from municipal wastewater by stabilization ponds systems in Northern Greece", (pp. 199- 212).

IV-3.7. Technical Magazines

CONTEMPORARY TECHNICAL REVIEW, (2005), **M.Gratziou**, "Small Capacity Wastewater Treatment Systems Evaluation ", No. 164, December 2005.

TECHNICAL, (2005), **M.Gratziou**, S.Oikonomou, (2005), "Conventional Wastewater Treatment Plants Cost Evaluation", No. 213, May 2005, pp. 64-74.

IV-4. Administration in DUTH

A. Administrative Positions

2115-present: Director of the Hydraulic Engineering Sector

2016-present: Representative of the Democritus University in the Coordinating Committee of the Lifelong Learning Academy of the Eastern Macedonia and Thrace Region

B. Participation in Administration

2002-2005: Representative of the Civil Engineering Department in the DUTH Senate.

2005-2006: Deputy Representative of the Civil Engineering Department in the DUTH Senate.

2000-present: Member of the General Assembly, Department of Civil Engineering

2009-present: Member of the General Assembly, Sector of Hydraulic Engineering

2009-present: Member of the General Assembly, Postgraduate Program of Hydraulics engineering.

2000-2008: Member of the General Assembly, Sector of Mathematics, Project Management and General Courses.

C. Participation in Committees

1994- present: Participation in more than 30 Committees.

(Student affairs, Library issues, management of funds for educational needs, management of funds for the Department of Civil Engineering Computing Centre, writing of the Civil Engineering Department Curriculum, conducting draft competitions of all kinds of materials-articles-instruments for several projects, environmental School surroundings control, evaluating tenders for the supply of materials and consumables of several projects, Internal Evaluation of the Depart-

ment, Instruments and Materials Receiving, instrument orders, fire safety and laboratory maintenance issues, organizing anniversary or welcome events, etc.)

D. Participation in Faculty Elections

2007- present: Participation in various faculty Elections.

IV-5. Participation in Scientific/Technical Groups as DUTH representative

2003-2006: Consultant engineer of Topeiros Municipality

1994-1996: Environmental Group of Xanthi Prefecture

V. INTERNATIONAL JOURNALS REVIEWER

- ❑ Journal Desalination, Elsevier.
- ❑ Desalination and Water Treatment, Taylor and Francis.
- ❑ Water Science and Technology, IWA Publications.
- ❑ Fresenius Environmental Bulletin, Parlar Scientific Publications.

VI. CITATIONS

155 citations by other researchers:

Journals	Conference Proceedings	Books	PhD Theses	Master Theses	Technical Reports
81	12	7	25	28	2

Using the fuzzy analytic hierarchy process for selecting wastewater facilities at prefecture level (55 citations)

KP Anagnostopoulos, **M Gratziou**, AP Vavatsikos (2007) - European Water 19(20), pp. 15–24.

JOURNALS:

1. Golam Kabir, Rehan Sadiq and Solomon Tesfamariam, «A review of multi-criteria decision-making methods for infrastructure management» (2014), Structure and Infrastructure Engineering: Maintenance, Management, Life-Cycle Design and Performance , Volume 10, Issue 9, 2014.
2. A.R. Karimi, N. Mehrdadi, S.J. Hashemian, Gh.R. Nabi, Bidhendi, R. Tavakkoli – Moghaddam, (2011) «Using of the Fuzzy TOPSIS and Fuzzy AHP Methods

- for Wastewater Treatment process selection», *International Journal of Academic Research*, Vol.3.No.1. January, 2011, Part III.
3. R. Karimi, N. Mehrdadi, S. J. Hashemian, G. R. Nabi Bidhendi, R. Tavakkoli Moghaddam, (2011) «Selection of wastewater treatment process based on the analytical hierarchy process and fuzzy analytical hierarchy process, methods», *International Journal of Environmental Science & Technology*, March 2011, Volume 8, Issue 2, pp 267-280.
 4. Parviz Rezaei, Kamran Rezaie, Salman Nazari, Shirkouhi, Mohammad Reza Jamalizadeh Tajabadi, «Application of Fuzzy Multi - Criteria Decision Making Analysis for Evaluating and Selecting the Best Location for Construction of Underground Dam» (2013), *Acta Polytechnica Hungarica* Vol. 10, No. 7.
 5. Molinos-Senante, María; Hernández-Sancho, Francesc; Sala-Garrido, Ramón, (2012) «Economic feasibility study for new technological alternatives in wastewater treatment processes: a review», *Water Science & Technology*, Vol. 65 Issue 5, p p. 898-906.
 6. Çiğdem Sofyalıoğlu, Burak Kartal «The Selection of Global Supply Chain Risk Management Strategies by Using Fuzzy Analytical Hierarchy Process – A Case from Turkey», (2012), *Procedia - Social and Behavioral Sciences* Volume 58, 12 October 2012, Pages 1448–1457 and in 8th International Strategic Management Conference.
 7. Pradip P. Kalbar, Subhankar Karmakar, Shyam R. Asolekar (2013) «The influence of expert opinions on the selection of wastewater treatment alternatives: A group decision-making approach», *Journal of Environmental Management* Volume 128, 15 October 2013, Pages 844–851.
 8. Ali Reza Shahraki , Morteza Jamali Paghaleh, (2011) «Ranking the Voice of Customer with Fuzzy DEMATEL and Fuzzy AHP», *Indian Journal of Sci. and Technol.*, Volume 4, Issue 12, December 2011, pp.1763-1772.
 9. Manish Kumar Roy, Amitava Ray and Bal Bahadur Pradhan «Non-traditional machining process selection using integrated fuzzy AHP and QFD techniques: a customer perspective» (2014), *Production & Manufacturing Research: An Open Access Journal*, Volume 2, Issue 1 pages 530-549.
 10. Abbas Mahmoudabadi, Seyed Mohammad Seyedhosseini, «Time-risk trade-off of hazmat routing problem under emergency environment by using linguistic variables» , (2014) *International Journal of Advanced Operations Management* , Volume 6, Issue 2 .
 11. M. Ilangkumaran, V. Sasirekha, L. Anojkumar, G. Sakthivel, M. Boopathi Raja, T. Ruban Sundara Raj, CNS. Siddhartha, P. Nizamuddin, S. Praveen Kumar, (2013) "Optimization of wastewater treatment technology selection using hybrid MCDM", *Management of Environmental Quality: An International Journal*, Vol. 24 Iss: 5, pp. 619 – 641.
 12. M. Molinos-Senante, F. Hernandez-Sancho and R. Sala-Garrido, (2013) «Cost modeling for sludge and waste management from wastewater treatment plants: an empirical approach for Spain», *Desalination and Water Treatment* , Volume 51, Issue 28-30, 2013 , p.p. 5414-5420.
 13. María Elena Arce, Ángeles Saavedra, José L. Míguez, Enrique Granada, (2015), « The use of grey-based methods in multi-criteria decision analysis for the evaluation of sustainable energy systems: A review», *Renewable and Sustainable Energy Reviews*, Volume 47, p.p.924–932.

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3. K. Kopsalidou, (2011), «Wastewater Phosphorus Removal -Economic effects on wastewater treatment plants operation estimation using CapdetWorks software» Interdisciplinary Postgraduate Program "Hydraulic Engineering" DUTH.

VII. PROFESSIONAL EXPERIENCE AS ENGINEER **Designer, Supervisor, Technical Consultant**

- 1976 – 1977: **Designer and Supervisor** Engineer in an airport and highways projects in Derna and Boba, Libya, as engineer of IPIROTIKI Company.
- 1979 – 1982: **Designer** Engineer in road and highway projects, as engineer of MAKEDONIKI Company.
- 1989 – 1999: **Designer of Public Projects** (9 environmental impact studies, 1 study of a Wastewater Treatment Plant, 3 Regional planning and Transportation Studies, 13 road and highway Studies, 23 topographic surveys)
- 2002-2003: **Technical Consultant** in Hellenic Army.
- 2003-2006: **Technical Consultant** in Topiros Municipality
- 2009: **President** of Rodopi Mountains **Management Agency**

VIII.

SOCIAL ACTIVITIES

- 1994 – 1998: President of the trade union association of the Polytechnic School, Democritus University of Thrace
- 1990-present: She is very active in the cultural life of the city; she participates in lectures, theater seminars and performances, social contribution in collaboration with cultural organizations and institutions, such as the Lyceum Club of Greek Women, Xanthi Progressive Union, Academy of Thracian Art and NGOs-Soroptimist International-Club of Xanthi (elected President of Greek Soroptimist Union 2018-2020). She has written articles on environmental issues in the local newspapers. She has offered eager assistance on technical issues when was consulted (Topeiros Municipality, Prefecture of Xanthi, Rhodope Mountains Management Agency etc.).

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