

PROF. ANASTASIOS I. STAMOU

Detailed Curriculum Vitae

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CONTENTS

1.	PERSONAL DATA	4
2.	RESEARCH EXPERIENCE	5
2.1	General	5
2.2	Main areas of research	5
2.3	Research projects as project leader	6
2.4	Development of software	10
3.	PUBLICATIONS	11
3.1	General	11
3.2	Publications in international journals	11
3.3	Publications in University journals	19
3.4	Books	19
3.5	Chapters in Books	20
3.6	Publications in International and National Conferences	20
3.7	Editor of Conference Proceedings	35
3.8	Publications, posters etc. in International Conferences and workshops	35
3.9	Disertations	36
3.10	Citations	37
4.	TEACHING EXPERIENCE	38
4.1	General	38
4.2	Undergraduate courses	39
4.3	Postgraduate courses	39
4.4	Postgraduate seminars	40
4.5	Current teaching - Academic year 2016-2017	41
5.	CONSULTING EXPERIENCE	42
5.1	General	42
5.2	Main consulting milestones	42
5.3	Indicative projects	43

6.	<i>OTHER INFORMATION</i>	47
6.1	Academic activities	47
6.2	Member of professional societies and associations	47
6.3	Reviewer	47
6.3.1	International journals	47
6.3.2	Conferences of Scientific Organisations	48
6.3.3	Research projects, reports and books	48
6.4	Member of scientific committees of Conferences	49
6.5	Knowledge of foreign languages	50

1. PERSONAL DATA



Professor Anastasios I. Stamou

Dipl Eng NTUA, MSc, DIC, PhD

School of Civil Engineering,
Department of Water Resources and Environmental Engineering,
National Technical University of Athens (NTUA)

Title	Professor in “Computational Methods in Environmental Fluid Mechanics and in the Design of Environmental Hydraulic Works”.
Posisitons held	<ul style="list-style-type: none"> • Director of the Department of Water Resources and Environmental Engineering (2012-2013, 2022-2023). • Director of the Laboratory of Applied Hydraulics of the NTUA (2011-2012, 2016-2022). • Director of the MSc course “Water Resources Science and Technology” of the NTUA (2016-2022). • Appointment as August-Wilhelm Scheer Visiting Professor 2017 and Honorary Fellow of TUM Institute for Advanced Study (2017). • Visiting professor at the Technical University of Munich (2013-2015); "Agenda Lehre - Gastprofessuren (WS2013/14)" and DAAD ‘Gastdozenten - Programm’ (SS2013 and WS2014/2015). • Vice Dean of the School of Civil Engineering (2008-2013). • Director of the MSc course “Environmental Design of Infrastructure Works” of the Hellenic Open University (2011-2013). • Vice Chair of the Leadership Team of the IAHR (2022-).
Experience	Continuous 35-years experience of teaching, research and consulting in the development and application of mathematical models in applied hydraulics, sewage treatment, environmental fluid mechanics and water management.
Studies	Dr. Civil Eng. (NTUA), Dipl. Rural and Surveying Eng. (NTUA) with postgraduate studies in the Imperial College of Science and Technology and the University of Karlsruhe.
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2. RESEARCH EXPERIENCE

2.1 General

- Project leader (PL) of 39 research projects.
- Participation as researcher in another 20 projects.

2.2 Main areas of research

Development and application of 1-D, 2-D, depth averaged and 3-D mathematical models, including Computational Fluid Dynamics (CFD) models, for the following:

- 3-D flows in complex hydraulic works (transitions, weirs etc.).
- Hydrodynamic behaviour and efficiency of water and wastewater treatment units.
 - Settling tanks.
 - Biological reactors.
 - Chlorination tanks.
- Hydrodynamic circulation and water quality-pollution (e.g. de-oxygenation, eutrophication) in surface waters (rivers, lakes, coastal waters, fisheries-aquacultures etc.).
- Application of integrated models within the Water Framework Directive.
 - Integrated models (hydrological-hydrodynamic-water quality-biological).
 - Interactions between surface waters and groundwaters and between internal, transitional and coastal waters.
 - Optimisation of monitoring networks.
- Thermal pollution in coastal areas.
 - Environmental impacts.
 - Optimization of the location of inlet and outlet water works in electricity generation stations.
- Marine dredging.
 - Environmental impacts.
 - Sediment transport and bed level change.
 - Refiling time of dredge pits.
- Water renewal in semi-enclosed coastal areas.
 - Flushing culverts.
 - Water renewal time and dissolved oxygen transfer.
- Dam breaks.
 - Propagation of waves.
 - Propagation of suspended loads.
- Modeling of air pollution in the surroundings of Sewage Treatment Plants.
- Thermal conditions and comfort (air flow, temperature and quality fields) in indoor environments (buildings, offices, stadiums, museums, theaters, amphitheatres etc.).
- Calibration and application of commercial codes: QUAL1E, HECRAS, CFX, FLOW3D, PHOENICS, DAMBRK, BREACH, FLDWAV, MIKE11 and others.

2.3 Research projects as project leader

- 2022-2024 General Secretariat of Research and Technology (GSRT), General Secretariat of Research and Technology (GSRT). Ministry for Development and Investments. NATIONAL NETWORK FOR CLIMATE CHANGE AND ITS IMPACTS (Phase 2). <https://climpact.gr/main/>
- 2019-2022 General Secretariat of Research and Technology (GSRT), General Secretariat of Research and Technology (GSRT). Ministry for Development and Investments. NATIONAL NETWORK FOR CLIMATE CHANGE AND ITS IMPACTS (NN_CLIMPACT). <https://climpact.gr/main/>
- 2020-2022 Technical University of Munich (TUM) & DAAD: German Academic Exchange Service, WaTerResources Management for Climate Change AdapTation (TRITON). <https://triton.wasser.tum.de/>
- 2020-2022 National Technical University of Athens, EFFECTS OF VEGETATION ON RIVER HYDRAULICS AND HABITAT SUITABILITY (VEGGIE). PEVE (Program For Basic Research) 2020.
- 2021-2022 ASPROFOS Engineering, EAST-MED POSEIDON Natural Gas Pipeline - Modeling of Oil Pollution Dispersion, Sediment Diffusion and Underwater Noise (EAST-MED-OSUN).
- 2020-2023 Operational Programme “Competitiveness, Entrepreneurship and Innovation” (EPAnEK) 2014-2020, NSRF 2014 -2020 (National Strategic Reference Framework), DEVELOPMENT OF A SMART PLATFORM FOR THE HOLISTIC MANAGEMENT OF THE WATER & ENERGY NEXUS IN ISLAND REGIONS (DARWEN).
- 2019-2022 Hellenic Foundation for Research & Innovation (H.F.R.I.), Scholarships to PhD Candidates, OPTIMIZATION OF THE WATER-ENERGY NEXUS MANAGEMENT FOR ISLANDS USING MATHEMATICAL SIMULATION TECHNIQUES, PhD student: G. Tzanes.
- 2018-2021 Strengthening Human Resources Research Potential via Doctorate Research (MIS-5000432), of the Operational Programme “Human Resources Development, Education and Lifelong Learning”, implemented by the State Scholarships Foundation (IKY), MATHEMATICAL MODELLING OF FISH BEHAVIOR IN AREAS WITH FISH-PASSES, PhD student: G. Mitsopoulos.
- 2019-2021 Athens Water Supply and Sewerage Company, EYDAP SA, OPTIMUM DESIGN OF THE CONTROL SYSTEM AND MONITORING OF THE HYDRAULIC BEHAVIOUR OF THE DIVERSION WORKS (TO THE CENTRAL SEWER) AND WATER QUALITY IN THE STREAM PROFITIS DANIIL.

- 2018-2021 National Technical University of Athens, DEVELOPMENT OF AN INTEGRATED ECO-HYDRULICS MATHEMATICAL MODEL.
- 2015-2017 IKYDA 2016, DAAD-IKY; DEVELOPMENT OF AN INTEGRATED MATHEMATICAL MODEL FOR THE DESIGN OF FISH-PASSES IN SMALL HYDROELECTRIC POWER PLANTS; <https://www.daad.de/de/suche/?q=ikyda>
- 2013-2015 Athens Water Supply and Sewerage Company, EYDAP SA (<http://www.eydap.gr/>). IMPROVING THE EFFICIENCY OF SETTLING TANKS OF THE WATER TREATMENT PLANT OF EYDAP SA IN AHARNES USING MATHEMATICAL MODELS.
- 2011-2013 Athens Water Supply and Sewerage Company, EYDAP SA (<http://www.eydap.gr/>). IMPROVING THE EFFICIENCY OF SETTLING TANKS OF THE WATER TREATMENT PLANT OF EYDAP SA IN AHARNES USING CONTEMPORARY COAGULANTS AND MATHEMATICAL MODELS.
- 2010-2013 HERAKLITUS. NUMERICAL AND EXPERIMENTAL INVESTIGATION OF BRINE DISCHARGE FROM DESALINATION PLANTS TO COASTAL REGIONS (NAIADES).
- 2010-2012 General Secretariat of Research and Technology (GSRT). RISK ASSESSMENT OF OIL SPILL ACCIDENTS IN REGIONAL SEAS. Joint research and technology programme with Turkey - Bogazici University, Department of Civil Engineering.
- 2009-2011 National Technical University of Athens, Program for Basic Research. COMPUTATIONAL RESEARCH OF THE INFLUENCE OF THE VEGETATION ON THE FLOW DURING FLOODS EVENTS.
- 2008-2009 IRON THERMOELECTRIKI SA. STUDY OF THE CONDITIONS IN THE COASTAL AREA OF THE ENERGY PRODUCTION CENTER OF MANDOUDI IN EVIA, Greece.
- 2007-2008 GMMSA LARCO (<http://www.larco.gr>). STUDY OF THE FLOW AND SETTLING CONDITIONS IN THE SETTLING TANK FOR THE METALLURGICAL SLAG ORIGINATING FROM THE ELECTRIC FURNACES OF THE METALLURGICAL PLANT OF LARYMNA (LARCO SA) WITH THE USE OF CFD MODELS, 62/2327/00.
- 2005-2007 General Secretariat of Research and Technology (GSRT). Joint research and technology programme with Italy (National Research Council-CNR, Istituto dell'Ambiente Marino Costiero-IAMC, Sezione di Messina). DETERMINATION OF THE INTERACTIONS BETWEEN AQUACULTURES AND THE SEA ENVIRONMENT WITH MATHEMATICAL MODELS (DIASEMO), 61/1743/00.
- 2006-2008 National Technical University of Athens, Program for Basic Research. OXYGEN TRANSFER THROUGH WAVES IN COASTAL STRUCTURES VIA FLUSHING CULVERTS, 65/1514/00.

- 2005-2008 General Secretariat of Research and Technology (GSRT), PENED 2003. INTEGRATED MATHEMATICAL MODELS OF WATER SYSTEMS, 61/1612/00.
- 2006-2008 MICHANIKI Group of Companies (<http://www.michaniki.gr/sitenew/index.cfm>). STUDY OF THREE TECHNICAL WORKS OF DIAKONIARIS STREAM IN PATRAS, GREECE USING PHYSICAL AND MATHEMATICAL MODELS, 62/2107/00.
- 2006-2007 Public Power Corporation SA (<http://www.dei.gr/>). STUDY OF THE CIRCULATION OF THE COOLING WATERS ORIGINATING FROM THE ELECTRICAL ENERGY PRODUCTION UNITS OF PPC SA IN THE COASTAL AREA OF ALIVERI (Extension), 62/2037/01.
- 2006-2007 Public Power Corporation SA (<http://www.dei.gr/>). STUDY OF THE CIRCULATION OF THE COOLING WATERS ORIGINATING FROM THE ELECTRICAL ENERGY PRODUCTION UNITS OF PPC SA IN THE COASTAL AREA OF ALIVERI, 62/2037/00.
- 2004-2006 General Secretariat of Research and Technology (GSRT), Joint research and technology programme with Serbia (University of Belgrade, Faculty of Civil Engineering). DEVELOPMENT OF A METHODOLOGY FOR URBAN STREAM WATER QUALITY MANAGEMENT USING MATHEMATICAL MODELS, 61/1545/00.
- 2004-2006 Public Power Corporation SA (<http://www.dei.gr/>). INVESTIGATION OF THE FLOOD WAVE PROPAGATION IN CASE OF FAILURE OF THE DAM OF AGIA USING MATHEMATICAL MODELS, 62/1850/00.
- 2004-2006 Municipality of Philothei (<http://www.philothei.gr/>). INVESTIGATION AND ABATMENT OF THE STABILITY PROBLEMS OF THE BANKS AND BED OF THE STREAM OF PHILOTHEI USING MATHEMATICAL MODELS AND MODERN ENVIRONMENTAL METHODS, 62/1802/00.
- 2003-2004 Ministry of Culture, General Secretariat for the Olympic Games "Athens 2004". DETERMINATION AND IMPROVEMENT OF THE INDOOR ENVIRONMENT CONDITIONS OF THE OLYMPIC INSTALLATIONS OA 2004 WITH THE USE OF COMPUTATIONAL FLUID DYNAMICS MODELS, 61/1477/00.
- 2003-2004 Procter & Gamble (http://www.pg.com/en_US/index.jhtml). INVESTIGATION OF THE BEHAVIOR OF THE KANDOO TOILET WIPES WITH EMPHASIS ON THEIR FLUSHABILITY CHARACTERISTICS, 62/1683/00.
- 2003-2005 General Secretariat of Research and Technology (GSRT), 02 PRAKSE 99. DEVELOPMENT AND PROMOTION OF A HYDRO-INFORMATICS SOFTWARE FOR THE MANAGEMENT OF SURFACE WATERS, 61/1466/00.

- 2002-2004 General Secretariat of Research and Technology (GSRT), Joint research and technology programme with Gr. Britain (University of Cardiff). DEVELOPMENT AND APPLICATION OF AN INTEGRATED HYDRO-INFORMATICS SOFTWARE TOOL (IHST) FOR FLOW AND POLLUTANT INTERACTIONS BETWEEN THE COASTAL ZONE AND NEIGHBORING WETLANDS, 61/1373/00.
- 2001-2002 Athens Water Supply and Sewerage Company, EYDAP SA (<http://www.eydap.gr/>). OPTIMISATION OF THE HYDRAULIC DESIGN OF THE WATER TANKS OF EYDAP SA WITH THE USE OF MATHEMATICAL MODELS-APPLICATION IN THE TANK OF AGIOS STEFANOS, 62/1384/01.
- 2001-2002 Athens Water Supply and Sewerage Company, EYDAP SA (<http://www.eydap.gr/>). OPTIMISATION OF THE HYDRAULIC DESIGN OF THE WATER TANKS OF EYDAP SA WITH THE USE OF MATHEMATICAL MODELS-APPLICATION IN THE TANK OF NEA TERPSITHEA, 62/1384/00.
- 1999-2002 Athens Water Supply and Sewerage Company, EYDAP SA (<http://www.eydap.gr/>). OPTIMISATION OF THE HYDRAULIC DESIGN OF THE WATER TANKS OF EYDAP SA WITH THE USE OF MATHEMATICAL MODELS, 62/1182/00.
- 1998-2001 General Secretariat of Research and Technology (GSRT), Joint research and technology programme with Slovenia (University of Ljubljana, Faculty of Civil and Geodetic Engineering). DEVELOPMENT OF A THREE-DIMENSIONAL POLLUTANT MODEL AND ITS APPLICATION TO THE ADRIATIC AND IONION SEAS, 61/1134/00.
- 1997-2002 General Secretariat of Research and Technology (GSRT), Joint research and technology programme with Romania (Institute of Applied Mathematics, Romanian Academy). ANALYTICAL AND NUMERICAL MODELLING OF COMPLEX POLLUTANT TRANSPORT PHENOMENA IN SURFACE WATERS, 61/1025/00.
- 1997-1998 Kruger A.S. – A. Zacharopoulos AS. MATHEMATICAL MODELING OF OXIDATION DITCHES, 62/0878/00.
- 1996-1998 General Secretariat of Research and Technology (GSRT), Joint research programme of the with Gr. Britain (University of Cardiff). MATHEMATICAL MODELLING OF FLOW AND WATER QUALITY IN MARINAS AND COASTAL REGIONS, 61/0900/00.
- 1994-1996 General Secretariat of Research and Technology (GSRT), PENED 91. DEVELOPMENT, APPLICATION AND EVALUATION OF A MATHEMATICAL MODEL FOR THE PREDICTION OF WATER POLLUTION IN SURFACE WATERS, 61/0628/00.

2.4 Development of software

- 1-D hydrodynamic model for rivers and estuaries (FLOW-1D).
- 1-D water quality model for rivers and estuaries (QUAL-1D).
- 1-D flood propagation model in rivers due to dam break. Explicit scheme (FROM-1D).
- 2-D flood propagation model in rivers due to dam break. Explicit scheme (FROM-2D).
- 1-D flood propagation model in rivers due to dam break. Implicit scheme (RISH-1D).
- Dynamic 1-D integrated hydrodynamic-water quality in 1-D river. Implicit schemes (RISH/RISQ-1D).
- 3-D hydrodynamic model in coastal areas (FLOW-3DL). Wind driven and tidal driven circulation.
- 3-D water quality model in coastal areas (QUAL-3DL).
 - Organic pollution and eutrophication (QUAL-3DL-POL).
 - Thermal pollution (QUAL-3DL-THERM).
 - Sediment transport and bed level change (QUAL-3DL-SAND).
- 3-D integrated-hydrodynamic model for the interaction of surface waters and groundwater.
- 3-D integrated-water quality model for the interaction of surface waters and groundwater.
- 2-D model for rectangular settling tanks (TEACH-SET).
- 1-D model for circular settling tanks (TEACH-SET).
- Eutrophication model in lakes and reservoirs (MERES).
- Hydraulic model for the equal distribution of flow over side weir in channel of variable width.
- EXCEL model for the design of sewage treatment units.
- EXCEL model for the hydraulic design of sewage treatment units.
- EXCEL model for the estimation of construction cost of sewage treatment units.

3. PUBLICATIONS

3.1 General

Author of

- 95 papers in refereed journals,
- 4 books,
- 6 chapters in books,
- Over 150 publications in national and international conference proceedings,
- over 100 other publications, and
- over 300 technical reports of engineering studies and research projects.

Editor of 5 Conference Proceedings.

3.2 Publications in international journals

- 1.1 I Chamatidis, G Tzanes, D Istrati, ND Lagaros, A Stamou (2023). Short-Term Forecasting of Rainfall Using Sequentially Deep LSTM Networks: A Case Study on a Semi-Arid Region, *Environmental Sciences Proceedings* 26 (1), 157; <https://doi.org/10.3390/environsciproc2023026157>
- 1.2 WJ Wang, F Zhao, A Mavrommatis, G Christodoulou, A Stamou, FC Jia (2023). Velocity distribution characteristics for rigid vegetation model with spherical canopy: An analytical study adopting multiple mathematical methods, *Journal of Hydrology* 620, 129376; DOI:10.1016/j.jhydrol.2023.129376.
- 1.3 PEZ Makatounis, AI Stamou, NP Ventikos (2023). Modeling the Agia Zoni II tanker oil spill in Saronic Gulf, Greece, *Marine Pollution Bulletin* 194, 115275; DOI: [10.1016/j.marpolbul.2023.115275](https://doi.org/10.1016/j.marpolbul.2023.115275)
- 1.4 G Tzanes, C Papapostolou, M Gymnopoulos, J Kaldellis, A Stamou (2023). Evaluation of the Performance Gains in Short-Term Water Consumption Forecasting by Feature Engineering via a Fuzzy Clustering Algorithm in the Context of Data Scarcity, *Environmental Sciences Proceedings* 26 (1), 105; <https://doi.org/10.3390/environsciproc2023026105>
- 1.5 G Tzanes, D Zafirakis, C Makropoulos, JK Kaldellis, AI Stamou (2023). Energy vulnerability and the exercise of a data-driven analysis protocol: A comparative assessment on power generation aspects for the non-interconnected islands of Greece, *Energy Policy* 177, 113515; DOI: 10.1016/j.enpol.2023.113515
- 1.6 Mitsopoulos G., Panagiotatou E., Sant V., Bloutsos A., Baltas E., Diakakis M., Lekkas E., Stamou A. I. (2022). Optimizing the Performance of Coupled 1D/2D Hydrodynamic Models for Early Warning of Flash Floods, *Water* 2022, 14(15), 2356; <https://doi.org/10.3390/w14152356>
- 1.7 C Theodoropoulos, G Vagenas, I Katsogiannou, K Gritzalis, A Stamou (2022). Towards i5 Ecohydraulics: Field Determination of Manning's Roughness Coefficient, Drag Force, and

Macroinvertebrate Habitat Suitability for Various Stream Vegetation Types, *Water* 14 (22), 3727; <https://doi.org/10.3390/w14223727>

- 1.8 Mitsopoulos G., Diakakis M., Panagiotatou E., Sant V., Bloutsos A., Lekkas E., Baltas E., Al Stamou A. I. (2022). How would an extreme flood have behaved if flood protection works were built? the case of the disastrous flash flood of November 2017 in Mandra, Attica, Greece, *Urban Water Journal* 19 (9), 911-921. <https://doi.org/10.1080/1573062X.2022.2103002>
- 1.9 G Mitsopoulos, M Diakakis, A Bloutsos, E Lekkas, E Baltas, A Stamou (2022). The Effect of Flood Protection Works on Flood Risk, *Water* 14 (23), 3936; <https://doi.org/10.3390/w14233936>
- 1.10 Theodoropoulos C., Karaouzas I. and Stamou A. (2021). Environmental Flows as a Proactive Tool to Mitigate the Impacts of Climate Warming on Freshwater Macroinvertebrates, *Water* 13 (18), 2586. <https://doi.org/10.3390/w13182586>
- 1.11 Mitsopoulos G., Theodoropoulos C., Papadaki C., Dimitriou E., Santos J. M., Zogaris S., Stamou A. (2020). Model-based ecological optimization of vertical slot fishways using macroinvertebrates and multispecies fish indicators, *Ecological Engineering* 158, 106081. <https://doi.org/10.1016/j.ecoleng.2020.106081>.
- 1.12 Theodoropoulos C., Stamou A., Vardakas L., Papadaki Ch., Dimitriou E., Skoulikidis N., Kalogianni E. (2020). River restoration is prone to failure unless pre-optimized within a mechanistic ecological framework | Insights from a model-based case study. *Water Research* 173,115550. <https://doi.org/10.1016/j.watres.2020.115550>
- 1.13 Stamou A., Noutsopoulos C., Kuhlmann A. & Rutschmann P. (2019). How can we link teaching with research in our engineering courses? The case of an ecological modelling course in two European Universities, *European Journal of Engineering Education*, <https://doi.org/10.1080/03043797.2019.1620174>
- 1.14 Gkesouli A. and Stamou A. (2019). A CFD modeling procedure to assess the effect of wind in settling tanks, *Journal of Hydroinformatics*, 21 (1), 123-135. <https://doi.org/10.2166/hydro.2018.048>
- 1.15 Theodoropoulos C., Skoulikidis N., Stamou A., Dimitriou E. (2018). Spatiotemporal Variation in Benthic-Invertebrates-Based Physical Habitat Modelling: Can We Use Generic Instead of Local and Season-Specific Habitat Suitability Criteria? *Water*, 10, 1508; doi:10.3390/w10111508, <http://www.mdpi.com/2073-4441/10/11/1508/pdf>.
- 1.16 Theodoropoulos C., Georgalas S., Mamassis N., Stamou A., Rutschmann P., Skoulikidis N. (2018). Comparing environmental flow scenarios from hydrological methods, legislation guidelines and hydrodynamic habitat models downstream of the Marathon Dam (Attica, Greece). *Ecohydrology* e2019.

- 1.17 Theodoropoulos C., Skoulikidis N., Rutschmann P., Stamou A. (2018). Ecosystem-based environmental flow assessment in a Greek regulated river with the use of 2D hydrodynamic habitat modelling, *River Res Applic.*, 34:538–54, <https://doi.org/10.1002/rra.3284>.
- 1.18 Theodoropoulos C., Vourka A., Skoulikidis N., Rutschmann P., Stamou A. (2018). Evaluating the performance of habitat models for predicting the environmental flow requirements of benthic macroinvertebrates, *Journal of Ecohydraulics*, 1-15, <https://doi.org/10.1080/24705357.2018.1440360>.
- 1.19 Stamou A., Mitsopoulos G., Rutschmann P., Bui M-D. (2018). Verification of a 3D CFD model for vertical slot fish-passes, *Environmental Fluid Mechanics*, 1-27, <https://doi.org/10.1007/s10652-018-9602-z>.
- 1.20 Stamou A., Polydera A., Papadonikolaki G., Martinez-Capel F., Munoz-Mas R., Papadaki C., Zogaris S., Bui MD., Rutschmann P., Dimitriou E. (2018). Determination of environmental flows in rivers using an integrated hydrological-hydrodynamic-habitat modelling approach, *Journal of Environmental Management*, 209, 273-285, <https://doi.org/10.1016/j.jenvman.2017.12.038>.
- 1.21 Stamou A., (2018). The Disastrous Flash Flood of Mandra in Attica-Greece and now What?, *Civil Eng Res J*, 6, 1, doi: 10.19080/CERJ.2018.06.555677
- 1.22 Makatounis P. E., Skancke J., Florou E., Stamou A., Brandvik P. J. (2017). Management of oil spill contamination in the Gulf of Patras caused by an accidental subsea blowout, *Environmental Pollution*, 231, 578-588, <https://doi.org/10.1016/j.envpol.2017.08.076>.
- 1.23 Nikiforakis I.K., Stamou A.I. and Christodoulou G.C. (2017). Integrated modeling of single port brine discharges into unstratified stagnant ambient, *Environmental Fluid Mechanics*, 17 (2), 247-275, <https://doi.org/10.1007/s10652-016-9473-0>.
- 1.24 Theodoropoulos Ch., Vourka Aik., Stamou, A. I., Rutschmann P. and Skoulikidis N. (2017). Response of freshwater macroinvertebrates to rainfall-induced high flows - A hydroecological approach, *Ecological Indicators*, 73: 432-442, <https://doi.org/10.1016/j.ecolind.2016.10.011>.
- 1.25 Gkesouli A. and Stamou A. I. (2017). CFD modelling of wind effect on rectangular settling tanks of water treatment plants, *European Water*, 58: 61-67, http://www.ewra.net/ew/pdf/EW_2017_58_10.pdf.
- 1.26 Papadonikolaki G., Stamou A., Dimitriou E., Bui M.-D. and Rutschmann P. (2017). Comparison of two habitat modeling approaches for the determination of the ecological flow, *European Water*, 58: 301-305, http://www.ewra.net/ew/pdf/EW_2017_58_45.pdf.
- 1.27 Gkesouli A., Nitsa, M., Stamou A. I., Rutschmann, P. and Bui M. (2016). Modeling the effect of wind in rectangular settling tanks for water supply, *Desalination and Water Treatment*,

57 (54), 26345-26354,
<http://www.tandfonline.com/doi/full/10.1080/19443994.2016.1195290>.

- 1.28 Theodoropoulos C., Skoulikidis N. and Stamou A. (2016). Habfuzz: A tool to calculate the instream hydraulic habitat suitability using fuzzy logic and fuzzy Bayesian inference, *The Journal of Open Source Software*, 1(6), 82, <http://joss.theoj.org/papers/10.21105/joss.00082>.
- 1.29 Christodoulou G. C., Nikiforakis I. K., Diamantis T. D. and Stamou A. I. (2016). Near field dilution of a vertical dense jet impinging on a solid boundary, *Desalination and Water Treatment*, 57(11), 4898-4905, <https://doi.org/10.1080/19443994.2014.996775>
- 1.30 Giannoulis S., Gkesouli A., and Stamou A. I. (2015). Formulation, calibration and verification of a mathematical model for Kalamas river, Greece, *Mathematics in Engineering, Science and Aerospace*, 6 (4), 675-682.
- 1.31 Nikiforakis I. K., Stamou A. I. and Christodoulou G. C. (2015). A modified integral model for negatively buoyant jets in a stationary ambient, *Environmental Fluid Mechanics*, 15(5), 939-957, <https://doi.org/10.1007/s10652-014-9388-6>.
- 1.32 Stamou A. I. and Gkesouli A. (2015). Modeling settling tanks for water treatment using computational fluid dynamics, *Journal of Hydroinformatics*, 745-762, DOI: 10.2166/hydro.2015.069.
- 1.33 Spanoudaki K., Bockelmann-Evans B., Schaefer F., Kampanis N., Nanou-Giannarou Aik., Stamou A. and Falconer R. (2015). Experimental and numerical modelling of surface water-groundwater flow and pollution interactions under tidal forcing, *Geophysical Research Abstracts*, 17, EGU2015-14842-1.
- 1.34 Nikiforakis I. K. and Stamou A. I. (2015). "Integrated modelling for the discharge of brine from desalination plants into coastal waters", *Desalination and Water Treatment*, 53(12), 1-10.
- 1.35 Stamou A. and Papadonikolaki G. (2014). "Modeling the 3-D flow around a cylinder using the SAS hybrid model", *Global Nest Journal*, 16(5), pp. 901-918.
- 1.36 Papadonikolaki G., Altan Y.C., Stamou A.I., Otay E.N., Christodoulou G.C., Coptly N.K., Tsoukala V.K., Telli-Karakoc F., Papadopoulos A. (2014). "Risk assessment of oil spill accidents", *Global Nest Journal*, 16(4), pp. 743-752.
- 1.37 Stamou A. I. and Nikiforakis I. (2013). "Integrated modelling of single port, steady-state thermal discharges in unstratified coastal waters", *Environmental Fluid Mechanics*, 13 (4), 309-336.
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- 5.151 Stamou A. (1981). "Modelling of the Water Quality in Rivers -A Case of a River-borne Nitrate Concentration Model", Proceedings of International Conference on Environmental Pollution, Thessaloniki, Greece, 735-743.

3.7 Editor of Conference Proceedings

- 6.1 Christodoulou & Stamou (2010). Proceedings of the 6th International Symposium on Environmental Hydraulics, 23-25 June 2010, Environmental Hydraulics –Taylor & Francis Group, London. Volumes 1 and 2. ISBN 10: 0415584752 / 0-415-58475-2, ISBN 13: 9780415584753.
- 6.2 Markatos N., Stamou A., Beltrao J., Panagopoulos T., Helmis C., Stamatiou E., Hatzopoulou A. and Carlos Antunes M. D. (2007). Proceedings of the 3rd IASME/WSEAS International Conference on Energy, Environment, Systems and Sustainable Development, p.654, <http://worldses.org/books/>.
- 6.3 Christodoulou G., Stamou A. and Nanou Aik. (2000). Proceedings of the 8th Panellenic Conference of the Hellenic Hydrotechnical Society, Athens, Greece, April 2000 (in Greek).
- 6.4 Tsakiris G., Stamou A. and Mylopoulos I. (1999). Proceedings of the 4th National Conference of the Greek Committee for Water Resources Management entitled "Water Resources Management in Sensitive Areas, Volos, Greece, 1999 (in Greek).

3.8 Publications, posters etc. in International Conferences and workshops

- 7.1 Stamou, A. I., Mitsopoulos G., Rutschmann P., and Bui, M. (2016). "Determination of the 3-D hydrodynamic characteristics in vertical slot fish-ways using a Computational Fluid Dynamics model", *EcoSummit 2016 Ecological Sustainability: Engineering Change*, 29 August - 1 September 2016, Montpellier, France.
- 7.2 Spanoudaki K., Nanou A. and Stamou A. I. (2008). "3-D Modeling of River-Groundwater Interaction", *6th International Conference of EWRA "Sharing a common vision for our Water Resources"*, Menton, France.

- 7.3 Efstratiadis A., Koutsoyiannis D., Hadjibiros K., Andreadakis A., Stamou A., Katsiri A., Sargentis G.-F., and Christofides A., (2003). "A Multicriteria Approach for the Sustainable Management Of The Plastiras Reservoir-Greece", *EGS-AGU-EUG Joint Assembly, Geophysical Research Abstracts*, Vol. 5, Nice, European Geophysical Society, American Geophysical Union.
- 7.4 Stamou A. I. (2005). "Modeling of the failure of Concrete Dams: General Principles, limitations and Challenges for Research", *NW-IALAD Workshop on Dam Safety and Integrity Assessment*, Athens, Greece.
- 7.5 Stamou A., Katsiris I. and Theodoridis G. (2003). Verification of a CFD model for indoor air flow, *European CFX Conference*, Garmisch-Partenkirchen, Germany.
- 7.6 Stamou A. I., Katsiris I. and Theodoridis G. (2002). "Numerical modeling of flow in chlorination tanks and coastal areas using CFX", *European CFX Conference*, Strasbourg, France.
- 7.7 Stamou A. I. (1999). "Mathematical Modelling of Flow and Water Quality in Settling Tanks", *The 7th Conference on Non-linear Analysis, Numerical Analysis, Applied Mathematics and Informatics*, Constanta-Eforie Nord, Romania.
- 7.8 Stamou A. I., Hatzigiannis I. G. and Bensasson L. (1996). "Modelling of Water Quality in Amvrakikos Gulf, Greece", *Water Quality International '96, 18th Biennial International Conference of the IAWQ*, Singapore, Poster P-EUT5, Coastal Pollution and Eutrophication, 49.
- 7.9 Stamou A. I. and Koler K. (1992). "Biological Nitrogen Removal Using the Alternating Ditch Process in the Sewage Treatment Plant of Kavala", *Greece, IAWPRC International Conference, Water Quality '92*, Washington D.C., Poster Session Theme 7: Nutrient Control and Removal.
- 7.10 Stamou A. I. (1988). "Using Laser Doppler Anemometry for the Measurement of Flow Velocities in a Model Water Tank", *1st International Conference on New Laser Technologies and Applications*, Greece, Olympia, 113.
- 7.11 Adams E. W., Rodi W. and Stamou A. I. (1987). "Experimental and Computational Study of Flow in an Asymmetric Sudden Expansion", *Proc. of the 6th Symposium on Turbulent Shear Flows*, Toulouse, France.
- 7.12 Guitonas A. G. and Stamou A. I. (1986). "A Design Approach for Land Application of Sludge as a Means for Improving Soil Quality", *International Symposium on Water Management for Agricultural Development*, Athens, 310-311.

3.9 Disertations

- 8.1 Stamou A. I. (1989). "Experimental and Analytical Investigation of the Hydrodynamic Behavior and Settling Characteristics of Settling Tanks", *PhD Thesis*, School of Civil

Engineering, Department of Water Resources, Hydraulic and Maritime Works, NTUA with cooperation of the University of Karlsruhe, p. 345.

- 8.2 Stamou A. I. (1980). "Water Quality Modelling in Rivers", *Master Thesis*, Imperial College, London, p. 166.
- 8.3 Stamou A. I. (1979). "Flow Geometry of a Vertical Buoyant Jet Striking a Concentric Disk", *Diploma Thesis*, NTUA, p.133.

3.10 Citations

Citations: 2360, h-index =25 based on: SCOPUS, Scholar Google and Web of Science-Thomson/ISI®; See for example

https://scholar.google.gr/citations?hl=en&user=a1aRc7wAAAAJ&view_op=list_works&sortby=pubdate

4. TEACHING EXPERIENCE

4.1 General

- NTUA (1988-). Undergraduate courses in the Schools of Civil Engineering, Chemical Engineering and Rural/Surveying Engineering: Fluid Mechanics, Applied Hydraulics, Transient Flow, Open Channel Flow, Computational Hydraulics, Experimental Hydraulics, Environmental Fluid Mechanics, Environmental Technology and Environmental Impacts.
- NTUA (1998-). Postgraduate courses in the Schools of Civil Engineering (1998-) and Chemical Engineering (2005-): Mathematical Modelling of Pollutant Transport and Water Quality, Coastal Processes and Coastal Management, Computational Methods in Hydromechanics, Environmental Hydraulics, Computational Methods in Hydrodynamics and Computational Methods for Pollutant Transport.
- University of Thessaly (1996-2006). Undergraduate course in the School of Civil Engineering: Mathematical Modelling of Pollution.
- Technical University of Munich TUM (2009-). Visiting Professor in TUM including Erasmus; see 4.3.
- Technical University of Munich TUM (2009-2013 and 2015-). School of Civil Engineering. MSc programme in “Environmental Engineering”. Courses: see above.
- Hellenic Military Geographical Service (2007-). School of Surveying Engineering. Course: Fluid Mechanics.
- Hellenic Open University. School of Science and Technology (2011-2014, 2015-). MSc programme in “Environmental Design of Infrastructure Works”. Course: Design of infrastructure works and environmental protection.
- Educate (2007-). National Technical University of Athens, University of Belgrade, Technical University of Civil Engineering of Bucharest and University of Ljubljana. International e-learning MSc programme in “Water Resources and Environmental Management”. Module WREM303: Integrated Water Resources Management.
- Tempus Programme of the E.E.C. (1992-1996). European Masters Degree Courses at the Sofia University, State Technical University of Saint Petersburg and the Technical University of Budapest. Courses: Wastewater Treatment and Management, Water Pollution Management, Water Quality Modelling and Control, Mathematical Modelling and its Application in Water Quality Management and Decision Making, and Water Quality Modelling, Water Quality and its Management.
- WHO/UNEP (2001-2009). Mediterranean Action Plan. Regional Training Courses for Trainers on Municipal Wastewater Treatment Plants Operation and Management in Damascus, Athens and Ankara.
- Postgraduate seminars (1987-2000). Technical Chamber of Greece, Various Greek Municipalities (ENVIREG, EUROFORM-REDIOVOC), NTUA, Greek Productivity Centre, Hellenic Company for the Development and Management, and others (1987-2000). Over 25 Courses and 400 teaching hours mainly on “Sewage treatment”.
- Supervision of theses. Supervision of over 100 diploma, postgraduate theses and doctoral theses in subjects related to flow and water quality modelling, wastewater treatment, environmental impact analyses, etc.

4.2 Undergraduate courses

- 1988- **National Technical University of Athens.** Schools of Civil Engineering and Rural/Surveying Engineering.
- Fluid Mechanics.
 - Applied Hydraulics.
 - Transient Flow.
 - Open Channel Flow.
 - Computational Hydraulics.
 - Experimental Hydraulics.
 - Environmental Fluid Mechanics.
 - Environmental Technology.
 - Environmental Impacts.
- 1996-2006 **University of Thessaly.** School of Civil Engineering.
- Mathematical Modelling of Pollution.
- 2007- **Hellenic Military Geographical Service.** School of Surveying Engineering.
- Fluid Mechanics.

4.3 Postgraduate courses

- 1998- **National Technical University of Athens.** School of Civil Engineering. MSc programme in “Water Resources Science and Technology”.
- Mathematical Modelling of Pollutant Transport and Water Quality.
 - Coastal Processes and Coastal Management.
 - Computational Methods in Hydromechanics.
 - Environmental Hydraulics.
- 2005- **National Technical University of Athens.** School of Chemical Engineering. MSc programme in “Computational Mechanics”.
- Computational Methods in Hydrodynamics.
 - Computational Methods for Pollutant Transport.
- 2013-2015 **Technical University of Munich (TUM).** School of Civil Engineering. Visiting Professor, Organization and teaching of 5 MSc courses: the first 4 courses have 3 ECTS and the fifth 6 ECTS.
- Environmental Hydrodynamic Modelling.
 - Ecological Modelling of Surface Waters.
 - Rapidly Varying Flows in Hydraulic Engineering.
 - Mathematical modelling of hydrodynamics and water quality in coastal regions.
 - Modelling of aquatic systems.
- 2009-2013 **Technical University of Munich (TUM).** School of Civil Engineering. Teaching via Erasmus the above-mentioned courses.
- 2015-

- 2011- **Hellenic Open University.** School of Science and Technology. MSc programme in “Environmental Design of Infrastructure Works”; http://www.eap.gr/pse_en.php.
- Design of infrastructure works and environmental protection (PSE60).
- 2010- **Educate. National Technical University of Athens, University of Belgrade, Technical University of Civil Engineering of Bucharest and University of Ljubljana.** International e-learning MSc programme in “Water Resources and Environmental Management”.
- Module WREM303: Integrated Water Resources Management.
- 1992-1996 **Tempus Programme of the E.E.C.**
- Water Pollution Management. European Masters Degree Course in Environmental Protection and Sustainable Development, at the Sofia University, Bulgaria (1996, 25 hours).
 - Wastewater Treatment and Management. European Masters Degree Course in Environmental Protection and Sustainable Development, at the Sofia University, Bulgaria (1995, 25 hours).
 - Water Pollution Management. European Masters Degree Course, at the State Technical University of Saint Petesburg, Russia (1995, 25 hours).
 - Water Quality Modeling and Control. European Masters Degree Course in Environmental Monitoring, Control and Health, at the Sofia University, Bulgaria (1993, 25 hours).
 - Mathematical Modeling and its Application in Water Quality Management and Decision Making. European Masters Degree Course in Environmental Science and Engineering at Budapest, Hungary (1993, 25 hours).
 - Water Quality Modeling, Water Quality and its Management. European master’s degree Course in Environmental Science and Engineering at Budapest, Hungary (1992, 25 hours).

4.4 Postgraduate seminars

- 2001-2009 **WHO: Mediterranean Action Plan.** Courses on “Sewage treatment”.
- «Regional Training Course for Trainers on Municipal Wastewater Treatment Plants Operation and Management», 20-24/7/2003, Damascus, Syria.
 - “Regional Training Course for Trainers on Municipal Wastewater Treatment Plants Operation and Management”, 12 hours, 2001, Athens.
 - «Regional Training Course for Trainers on Municipal Wastewater Treatment Plants Operation and Management», Ankara, Turkey.
- Attached: Training material and CD-rom presentation for the course “Train the Trainers – Municipal Wastewater Treatment Plant Operation and Management” (Volumes I, II and instruction for lecturers).*

- 1987-2000 **Technical Chamber of Greece, Various Greek Municipalities (ENVIREG, EUROFORM-REDIOVOC), NTUA, Greek Productivity Center, Hellenic Company for the Development and Management, and others.**
- Participation in more than 25 Courses and 400 teaching hours mainly on "Sewage treatment".
- 1991 **W.T.S.A.C. D.N.C. of I.A.W.P.R.C.,** Specialized seminar on "Advanced Technology in Large Sewage Treatment Plants", "Activated Sludge Plants in Greece", Cyprus.

4.5 Current teaching - Academic year 2016-2017

- TUM** **School of Civil Engineering** (Visiting Professor within ERASMUS).
- Environmental Hydrodynamic Modeling.
 - Ecological Modelling of Surface Waters.
 - Rapidly Varying Flows in Hydraulic Engineering.
 - Mathematical modelling of hydrodynamics and water quality in coastal regions.
 - Modelling of aquatic systems.
- NTUA** **School of Civil Engineering.**
- Applied Hydraulics.
 - Environmental Fluid Dynamics.
 - Computational Hydraulics.
- NTUA** **School of Civil Engineering. MSc programme in "Water Resources Science and Technology".**
- Mathematical Modelling of Pollutant Transport and Water Quality.
 - Computational Methods in Coastal Zone.
- NTUA** **School of Chemical Engineering. MSc programme in "Computational Mechanics".**
- Computational Methods in Hydrodynamics.
 - Computational Methods for Pollutant Transport.
- Hellenic Military School** **STEAMX.**
- Fluid Mechanics. Applied Hydraulics. Water supply and drainage works.
- Hellenic Open University**
- Design of infrastructure works and environmental protection (PSE60).

5. CONSULTING EXPERIENCE

5.1 General

Consultant and/or project manager (1982-) in projects/studies for:

- Ministries.
- Water Authorities.
- International Organisations (e.g.UNEP)
- Consulting Companies.
- Multinational Companies.
- Construction Companies
- Technical Chamber of Greece.

Participation in over 120 engineering projects and studies dealing with the following:

- Design of Sewage Treatment Plans.
- Development and application of mathematical models for
 - 3-D flows in complex hydraulic works.
 - Hydrodynamic behaviour and efficiency of water and wastewater treatment units.
 - Hydrodynamic circulation and water quality-pollution in surface waters (rivers, lakes, coastal waters, fisheries-aquacultures.
 - Propagation of waves, due to dam break.
- Water management, e.g. water supply, drainage, wastewater transportation, storm water protection, irrigation etc.
- Working groups.

5.2 Main consulting milestones

- | | |
|-----------|---|
| 1982- | Private consulting companies. Performance of over 100 studies on the design of Sewage Treatment Plans (STP), development and application of mathematical models and water management. |
| 1982- | Technical Chamber of Greece and Ministries. Participation in approximately 20 working groups regarding water management issues. |
| 2001-2010 | UNEP/MAP/MEDPOL/WHO. Performance of studies and preparation of technical reports mainly on wastewater treatment. <ul style="list-style-type: none">• Contingency plan in the Mediterranean for sanitation systems during extreme weather events (2010).• Plan of activities related to the environmental health risks in tourist establishments (2009).• Pilot study on the efficient application of the wastewater treatment documents for the preparation of National Action Plans (NAPs) (2007).• Collection, Treatment and Disposal of Municipal Wastewater in the Coastal Cities of the PERSGA Region with Population over 50,000 (2006).• Technical report on the Effects of Sewage Treatment Plants on the pollution status of the Mediterranean Sea (2006). |

- 1987-2000 Krueger AS, Athens, Greece. Project manager and consultant with participation in over 30 studies for the design, construction and operation of Sewage Treatment Plans (STP) in Greece.
- 1982-1983 OTME Engineering Consultants. Participation in the studies:
- Final Study of the Central Collector of the Sewerage Network of Thessaloniki.
 - Feasibility Study for the Treatment of Sewage and Industrial Wastewater of the Region of Larissa.
 - Final Study and Hydrology of the Sewerage Network of the Region of Piraeus.

5.3 Indicative projects

- 2008 ENVECO SA (http://www.enveco.gr/eng/menu_eng.htm). Thessalonica Port Authority SA. Environmental Impact Study for the modification of the environmental standards and terms. Development of a mathematical model for the study of the hydrodynamic behavior, the sediment transport and bed level change in the Gulf of Thessalonica in the region of dredge pits.
- 2007 Joint venture of HYDRODOMIKI LTD (<http://www.hydrodomiki.gr/>) and ADK CONSULTING ENGINEERING SA (<http://www.adk.net/>). Ministry of the Environment, Planning and Public Works. Application of a CFD model for the study of the hydrodynamics of a complex technical work (side overflow) in the river Xirias, Corinth, Greece.
- 2006-2007 UNEP/MAP/MED POL/WHO. (i) Pilot study on the efficient application of wastewater treatment documents for the preparation of National Action Plans (NAPs). (ii) Collection, treatment and disposal of municipal wastewater in the coastal cities of the PERSGA Region with population over 50,000. (iii) Technical report on the effects of STP on the pollution status of the Mediterranean Sea.
- 2006 EPEM Environmental Planning, Engineering and Management SA (<http://www.epem.gr/>). Mathematical modeling of the water quality of Pinios River.
- 2005 Procter & Gamble (http://www.pg.com/en_US/index.jhtml). Investigation of the behaviour of the C harmin toilet wipes with emphasis on their flushability characteristics.
- 2004 Associated Consulting Engineers (ACE) (<http://www.aceintl.net/>). (i) Mathematical modelling for Salman Bay development in S. Arabia. (i) Mathematical modelling for Durrat Alkhobar development area in S. Arabia. In co-operation with Prof. C. Memos.
- 2004 Sybilla LTD. Sewage Treatment Plant (STP) of Gevgelija (FYROM). Update of existing study and preparation of tender documents. Equivalent Population = 25,000. Activated Sludge - Extended Aeration with Biological Removal of Nitrogen. Consultant for the design of the STP and the disposal of the effluent.

- 2003 Hydrosistima and Doxiadis Associates. Ministry of Agriculture. Study (mathematical modeling) of the flood wave propagation in case of failure of the dam of Kori-Giofiri in the island of Chios, Greece.
- 2003 Technical Chamber of Greece. Member of a Working Group for the "Required Actions for the Protection of the Environment in Greece: Evaluation and projection of the Decade 1993-2003".
- 2002 AIAS Engineering Ltd Engineering & Consulting Company (<http://www.aias.com.gr/>), THEMELIODOMI SA (<http://www.themeliodomi.gr/>), ELLINIKI TECHNODOMIKI TEB (<http://www.etae.com/>), ATHENA SA (<http://www.athena-sa.gr/greek/>), PASSAVANT MASCHINENTECHNIK GmbH (<http://www.ivaa.de/firmen/passavant-maschinentechnik-gmbh.1772.html>) and GIOVANNI PUTIGNANO & FIGLI SRL. Mathematical modeling of the secondary settling tanks of the STP of Psytalia (Athens).
- 2001-2002 Ministry of Environment, Planning and Public Works. Member of a Working Group for the implementation and application of the Water Frame Directive (2000/60/EU) in Greece".
- 1999-2000 Foundation "Leon Lemos". Development Center of the island of Inousses. Design of the sewerage system and STP of Inousses. Environmental Impact Study. Specialized Consultant (Expert) in subjects related to wastewater treatment processes and sewerage.
- 1998-2001 Joint Venture ENVECO SA and EPEM SA. Ministry of Economy and Finance. Consultant on the treatment and disposal of wastewater for the environmental projects and works within the Cohesion Fund.
- 1999 Municipal Waste Water Treatment Authority of Kavala. Evaluation of the measures for the abatement of the odor nuisances in the STP of Palio-Kavala. Consultant and Evaluator.
- 1997-1998 ENB Ltd (<http://www.enb.gr/>). Ministry of Environment, Town Planning and Public Works. Expert Services for the extension and completion of the Waste Water Treatment Plant in Thessalonica. Specialized consultant (expert) in subjects related to wastewater treatment processes.
- 1996-1998 Joint venture SPEED Development Consultants SA (<http://www.speed.gr/>) and others. Ministry of Economy and Finance. Business Environment Program (EPPER). Specialized consultant (expert) in subjects related to wastewater treatment processes.
- 1996 Joint venture HYDROELECTRIKI SA, HYDRODOMIKI LTD and OTME LTD. Athens Water Supply and Sewerage Company (EYDAP SA). Study of the sewerage and storm water networks in a series of municipalities in the prefecture of Easter Attica. Development and application of a mathematical model for the study of coastal circulation in the Southern Euvoikos Gulf.
- 1996 THEMELIODOMI SA and PASSAVANT MASCHINENTECHNIK GmbH. Ministry of Environment, Town Planning and Public Works. Final study and construction of phase B of the Wastewater Treatment Plant of Athens in Psytallia. Development and application of a mathematical model for the study of hydraulic behaviour and

- the efficiency of the secondary settling tanks of the Wastewater Treatment Plant of Athens in Psytallia.
- 1996 Consultants and Scientists: K. Pistrikas, A. Stamou and N. Papadopoulos. Ministry of Environment, Planning and Public Works. Secretariat of the Public Works. Direction of Irrigation and Drainage Works. Section of Technical Support. Environmental Impact Study for the storm water protection works in rivers Kalentzis, Lipsimos, Krambalis etc. in Thessaly. Main consultant and Project Manager of the Study.
- 1993-1995 Technical Chamber of Greece. Member of Working Groups for the following: (i) "Formulation of special technical specifications for the units of medium size STPs", (ii) "Study of Environmental Impacts from STPs", and (iii) "Formulation of Technical Specifications for Environmental Impact Studies".
- 1987-2000 I. Krueger A. S. and A. Zacharopoulos ATE. Consultant in the design of about 40 Sewage Treatment Plants (STP) in Greece. Project Manager of the Studies. General co-ordination of the projects. Performance of public health, hydraulic and other calculations. Participation in the Final Design and the operation of the STP.
- 1986 Epsilon International SA (<http://www.epsilon.gr/resources.htm>) and Krueger AS. Prefecture of Argolida. Sewerage Network and Biological Treatment of the Region of Nafplion. Preliminary Study. Project manager of the study. Responsible engineer for the collection of data and the design (public health and hydraulic calculations) of the STP.
- 1986 Zaharias - Bonazountas Tallos and Metcalf & Eddy International. Public Corporation of Water Supply and Sewerage of Heraklion, Crete. STP of the major area of Heraklion. Preliminary Study. Project manager of the study. Responsible engineer for the collection of data and the design (public health and hydraulic calculations) of the treatment plant. Performance of visits and co-operation in the central offices of Metcalf & Eddy International (Boston, USA).
- 1983 Ministry of Environment, Planning and Public Works. Participation in a working group responsible for the formulation of standards and guidelines for the design of STPs. More analytically for the following: (i) The performance of studies for the tender procedure of the STPs of Agios Nicolaos (Crete) and Lefkas. (ii) The formulation of Technical Specifications for the Civil, Mechanical and Electrical Works of STPs. (iii) The performance of Preliminary Studies of STPs of four communities in Viotia. (iv) The collection and revision of technical specifications for the materials of sewage pipes, used in STPs. (v) The examination of existing studies for STPs, aiming at the formulation of standardisation in the construction of STPs. (vi) The examination of the possibilities of Greek companies to produce electromechanical equipment for STPs. (vii) The collection of literature on the standardisation of equipment and physical processes of STPs.
- 1983 Thymio Papagiannis Associates (<http://www.tpa.gr/>). Prefecture of Larissa. Town Planning Study for the Tourist Development of the Eastern Coast of the Major Region of Larissa. Hydraulic Engineer, responsible for the preliminary design of the water supply and sewerage networks.

1982-1983 OTME LTD. Participation in the studies: (i) Final Study of the Central Collector of the Sewerage Network of Thessalonica, (ii) Feasibility Study for the Treatment of Sewage and Industrial Wastewater of the Region of Larissa and (iii) Final Study and Hydrology of the Sewerage Network of the Region of Piraeus.

6. OTHER INFORMATION

6.1 Academic activities

- 2009- Vice Dean of the Member of the School of Civil Engineering. Participation in various Committees and Assemblies.
- 2004- Member of the Steering Committee of the Interdepartmental Postgraduate Course "Water Resources Science and Technology" (2004-2008, 2011-).
- 2000- Member of the General Assembly of the School of Civil Engineering (2000-2002, 2003-2008, 2009-).
- 2004-2008 Coordinator of the Promotion Group of the Department of the Water Resources and Environmental Engineering.
- 1990- Member of the General Assembly of the Department of Water Resources and Environmental Engineering.
- 2000- Representative of the School of Civil Engineering in the Regional Council of the Ministry of Public Works in the Region of Attica.
- 2004-2009 Representative of the School of Civil Engineering in the Senate Committee of Basic Research.

6.2 Member of professional societies and associations

- Technical Chamber of Greece (TEE). Member of the permanent Committee for the Ecology and Environmental Protection (1992-). (<http://www.tee.gr>).
- International Water Association (IWA) (<http://www.iwahq.org/>).
- International Association for Hydraulic Research (IAHR) (<http://www.iahr.org/>).
- American Society of Civil Engineers (ASCE) (<http://pubs.asce.org/>).
- Greek Association for the Management of Water Resources. Gen. Secretary (1996-1999). (<http://waterinfo.gr/eedyp/>).
- Hellenic Hydrotechnical Society (EYE) (<http://web.auth.gr/eye/>).

6.3 Reviewer

6.3.1 International journals

- Abstract and Applied Analysis (<http://www.hindawi.com/journals/aaa/contents/>).
- Aerosol and Air Quality Research (<http://aaqr.org/>).
- Applied Thermal Engineering (<http://www.elsevier.com/>).
- Building and Environment (<http://www.elsevier.com/>).
- Canadian Journal of Civil Eng. / Rev. Canadienne de génie civil (<http://pubs.nrc-cnrc.gc.ca/rp-ps/journalDetail.jsp?lang=eng&jcode=cjce>).
- Chemical Engineering and processing (<http://www.elsevier.com/>).
- Computers and Fluids (<http://www.elsevier.com/>).
- Energy and Buildings (<http://ees.elsevier.com/enb/>).
- Environmental Engineering Science (<http://www.liebertpub.com/products/product.aspx?pid=15>).
- Environmental Modeling & Assessment (<http://www.springerlink.com/>)

- Environmental Modelling & Software (<http://www.journals.elsevier.com/environmental-modelling-and-software/>).
- Environmental Science & Technology (<http://pubs.acs.org/journal/esthag>).
- Fresenius Environmental Bulletin (http://www.psp-parlar.de/feb_auswahl.asp).
- Global Nest the Int. J. (<http://www.gnest.org/Journal/journal.htm>), Member of the editorial panel.
- Journal of Applied Fluid Mechanics (<http://www.jafmonline.net>).
- Journal AWWA (American Water Works Association) (<http://www.awwa.org/publications/>)
- Journal of Coastal Research (<http://www.cerf-jcr.org/>).
- Journal of Engineering and Technology Research (JETR) (<http://www.academicjournals.org/jetr/index.htm>).
- Journal of Environmental Engineering, ASCE (<http://pubs.asce.org/journals/>).
- Journal of Hydraulic Engineering, ASCE (<http://pubs.asce.org/journals/>).
- Journal of Hydraulic Research, IAHR (<http://www.iahr.org/publications/>).
- Journal of Hydroinformatics, IAHR-IWA (<http://www.iahr.org/publications/>).
- Korean Journal of Chemical Engineering; <http://www.springerlink.com/content/120599/>.
- Proceedings of ICE, Water Management (<http://www.thomastelford.com/journals/>). Member of the editorial panel.
- Scientia Iranica; <http://www.scientiairanica.ir>.
- Separation Science and Technology (<http://www.tandf.co.uk/journals/titles/01496395.asp>).
- The Canadian Journal of Chemical Engineering
- Water Research (<http://www.elsevier.com/>).
- Water Science and Technology (<http://www.iwaponline.com/wst/>).
- Water Resources Management (<http://www.springerlink.com/>).

6.3.2 Conferences of Scientific Organisations

- Conferences of the IWA.
- Conferences of the IAHR.
- Conferences of the Global Nest (<http://www.gnest.org/conference.htm>).
- Conferences of the World Scientific and Engineering Academy and Society (WSEAS) (www.wseas.org).
- Conferences of the Wessex Institute of Technology (Conferences on Water Pollution).
- Conferences of the Hellenic Hydrotechnical Society (EYE).
- Conferences of the Greek Water Resources Association (ΕΕΔΥΠ).

6.3.3 Research projects, reports and books

- Basic research, programme of research in the field of technological development, Ministry for Science and Technological Development, Serbia.
- Research projects of the Engineering and Physical Sciences Research Council of Gr. Britain.
- Research projects of the Research Committee of the City University of Hong Kong.
- Research projects of the Georgian National Science Foundation (GNSF), Georgia.
- Research projects of the General Secretariat of Research and Technology, Greece.

- Books of the Hellenic Open University.
- Scientific Technical Report of the IAWQ: Ekama G. A., Barnard J. L., Guenther F. W., Krebs P., McCorquodale J. A., Parker D. S. and Wahlberg E. J. (2000). "Secondary settling tanks: Theory, modelling, design and operation", *Scientific and Technical Report* (6), IAWQ.

6.4 Member of scientific committees of Conferences

- 2008 9th INTERNATIONAL CONFERENCE ON THE PROTECTION AND RESTORATION OF THE ENVIRONMENT, KEFALONIA ISLAND, GREECE, 29 JUNE - 3 JULY, 2008.
2nd CONFERENCE ON SMALL AND DECENTRALIZED WATER AND WASTEWATER TREATMENT UNITS, SKIATHOS PALACE HOTEL, SKIATHOS ISLAND, MAY 2-4, 2008.
- 2007 3rd IASME/WSEAS INTERNATIONAL CONFERENCE ON ENERGY, ENVIRONMENT, ECOSYSTEMS AND SUSTAINABLE DEVELOPMENT (EEESD '07) AGIOS NIKOLAOS, CRETE ISLAND, GREECE, JULY 24-26, 2007.
10th CONFERENCE ON ENVIRONMENTAL SCIENCE AND TECHNOLOGY, KOS ISLAND, GREECE, 5-7 SEPTEMBER, 2007.
- 2006 IASME/WSEAS INTERNATIONAL CONFERENCE ON ENERGY, ENVIRONMENT, ECOSYSTEMS AND SUSTAINABLE DEVELOPMENT (EEESD '06) VOULIAGMENI, ATHENS, GREECE, JULY 11-13, 2006.
1st CONFERENCE ON SMALL AND DECENTRALIZED WATER AND WASTEWATER TREATMENT UNITS, PORTARIA-PILION, APRIL 8-9, 2006.
8th INTERNATIONAL CONFERENCE ON THE PROTECTION AND RESTORATION OF THE ENVIRONMENT, CRETE ISLAND, 2006.
- 2005 9th CONFERENCE ON ENVIRONMENTAL SCIENCE AND TECHNOLOGY, RODOS ISLAND, GREECE, 2005.
- 2004 7th INTERNATIONAL CONFERENCE ON THE PROTECTION AND RESTORATION OF THE ENVIRONMENT, CORFU ISLAND, 2004.
- 2003 8th CONFERENCE ON ENVIRONMENTAL SCIENCE AND TECHNOLOGY, LEMNOS ISLAND, GREECE, 8-10 SEPTEMBER 2003.
- 2002 5th INTERNATIONAL CONFERENCE ON WATER MANAGEMENT IN THE ERA OF TRANSITION, SEPTEMBER 4-8, ATHENS, GREECE, 2002.
HYDROINFORMATICS 2002, IAHR, CARDIFF, WALES, 2002.
- 2001 RIVER BASIN MANAGEMENT, CARDIFF, WALES, 2001.
7th CONFERENCE ON ENVIRONMENTAL SCIENCE AND TECHNOLOGY, HERMOUPOLIS, SYROS, GREECE, 3-6 SEPTEMBER, 2001.
- 2000 8th CONFERENCE OF THE GREEK HYDROTECHNICAL SOCIETY, ATHENS, 2000.
- 1999 5th INTERNATIONAL CONFERENCE ON WATER POLLUTION: MODELLING, MEASURING AND PREDICTION, LEMNOS, 1999.
6th CONFERENCE ON ENVIRONMENTAL SCIENCE AND TECHNOLOGY, PYTHAGORION, SAMOS, GREECE, 30 AUGUST-2 SEPTEMBER, 1999.
4th NATIONAL CONFERENCE OF THE HELLENIC WATER RESOURCES MANAGEMENT COMMITTEE, MANAGEMENT OF WATER RESOURCES IN SENSITIVE AREAS OF GREECE, VOLOS, GREECE, 1999.
- 1997 5th CONFERENCE ON ENVIRONMENTAL SCIENCE AND TECHNOLOGY, MOLYVOS, LESVOS, GREECE, 1-4 SEPTEMBER, 1997.

- 4th INTERNATIONAL CONFERENCE ON WATER POLLUTION: MODELLING, MEASURING AND PREDICTION, BLED, 1997.
- 3rd NATIONAL CONFERENCE OF THE HELLENIC WATER RESOURCES MANAGEMENT COMMITTEE, WATER RESOURCES MANAGEMENT IN COASTAL AREAS AND ISLANDS, SYROS ISLAND, GREECE, 1997.
- 1995 4th CONFERENCE ON ENVIRONMENTAL SCIENCE AND TECHNOLOGY, MOLYVOS, LESVOS, GREECE, 4-7 SEPTEMBER, 1995.
- 3rd INTERNATIONAL CONFERENCE ON WATER POLLUTION: MODELLING, MEASURING AND PREDICTION, PORTO CARRAS, 1995.
- 1993 3rd CONFERENCE ON ENVIRONMENTAL SCIENCE AND TECHNOLOGY, MOLYVOS, LESVOS, GREECE, 6-9 SEPTEMBER, 1993.
- 1991 2nd CONFERENCE ON ENVIRONMENTAL SCIENCE AND TECHNOLOGY, LESVOS, GREECE, 1991
- 1989 1st CONFERENCE ON ENVIRONMENTAL SCIENCE AND TECHNOLOGY, LESVOS, GREECE, 1989.
- 1986 INTERNATIONAL SYMPOSIUM ON BUOYANT FLOWS, ATHENS, SEPTEMBER 1-5, 1986, ATHENS, GREECE.

6.5 Knowledge of foreign languages

- English : Very Good (FCE-Cambridge, M.Sc.)
- German : Good (Mittelstufe, Goethe Institut, Athen).
- French : Fair.
- Spanish : Little.

Athens, 10 September 2023



Anastasios I. Stamou