

PERSONAL INFORMATION

Andreas Panagopoulos



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Sex Male | Date of birth 22/11/1966 | Nationality Greek

WORK EXPERIENCE

January 2015 - now

Researcher Grade A'-B'

Hellenic Agricultural Organisation (HAO)- General Directorate of Research, Soil and Water Resources Institute (ex Land Reclamation Institute) [Sindos industrial zone/Thessaloniki, GR57400, Greece]

- Project Management, Research
- Business or sector** R&D

December 2011-December 2014

Director/Researcher Grade B'

Hellenic Agricultural Organisation (HAO)- General Directorate of Research, Soil and Water Resources Institute (ex Land Reclamation Institute) [Sindos industrial zone/Thessaloniki, GR57400, Greece]

- Human Resources Management/Project Management
- Business or sector** R&D

October 2000-November 2011

Researcher Grades B'-C'-D'

National Agricultural Research Foundation - Land Reclamation Institute [Sindos industrial zone/Thessaloniki, GR57400, Greece]

- Research, Project Management
- Business or sector** R&D

October 1997-October 2000

Research Associate

Laboratory of Hydrogeology, Faculty of Mining and Metallurgical Engineering of the National Technical University of Athens

- Research, Laboratory Organisation
- Business or sector** R&Education

October 1997-October 2000
March 2011 – December 2012

Scientific Consultant

Various consultancy forms

- Scientific consultant on groundwater mathematical modelling, water resources monitoring, E.U. Directives implementation (WFD, GWDD, Nitrates Directive)
- Business or sector** Consultancy-Development works

October 1990-March 1991

Geologist (temporary contract)

Ministry of Agriculture-Directorate General of Land Reclamation, Directorate of Geology-Hydrology

- Data processing and archiving
- Business or sector** Services

EDUCATION AND TRAINING

July 2002

International summer school on direct application of Geothermal energy

UNESCO-IGA, Thessaloniki-Greece

- November 2000 **Seminar on web-based bibliographic databases**
National Documentation Centre, Athens-Greece
- July 1998 **Field Seminar on groundwater artificial recharge systems**
S.S. Papadopoulos & Associates, USA east coast
- September 1998 **Field Seminar on groundwater artificial recharge systems and management of coastal aquifers**
TISAR '98, Amsterdam
- July 2000 **Field Seminar on groundwater artificial recharge systems and management of coastal aquifers**
TISAR '98, Amsterdam
- October 1992 – February 1996 **Ph.D. Hydrogeology**
School of Earth Sciences-The University of Birmingham-UK
- October 1991 – September 1992 **M.Sc. Hydrogeology**
School of Earth Sciences-The University of Birmingham-UK
- October 1985 – September 1990 **B.Sc. Geology**
Department of Geology-National Kapodistrian University of Athens

PERSONAL SKILLS

Mother tongue(s) Greek

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C1	C2	C2
Full time PG studies abroad (in the U.K.).					

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user

Organisational / managerial skills Human resources management (3 years Director and 5 years Deputy Director of Land Reclamation Institute-National Agricultural Research Foundation), Project management (PM/PL of over 25 national-international R&D projects)

Research qualifications & interests Groundwater artificial recharge, water resources management, groundwater flow and pollution transport mathematical modelling, water bodies' status assessment, compilation-operation of water resources monitoring networks, chemical quality of groundwater, harmonisation of national legislation to European Directives

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient	Proficient	Proficient	Proficient	Proficient

Levels: Basic user - Independent user - Proficient user

Driving licence A, B

ADDITIONAL INFORMATION

Selected Research Projects (2000 onwards)

- (2019-2022) Salinization of critical groundwater reserves in coastal Mediterranean areas: Identification, risk assessment and sustainable management with the use of integrated modelling and smart ICT tools – PRIMA, Role: WP leader
- (2018-2021) Recovery of olive oil by-products through bio/hydro chars production for agricultural soil fertilization and environment preservation-FERTICHAR - ARIMNET 2, Role: Research team member
- (2017-2023) Monitoring of the quantity and quality of water resources in implementation of the Water Framework Directive-Hellenic Special Secretariat for Water-Structural Funds, Role: WP leader
- (2016-) Development and operation of the Agia environmental monitoring station in central Greece – HAO R&D, GR section of the ILTER network Role: Co-chair of the GR-ILTER management committee
- (2015-2020) Promoting water efficiency and supporting the shift towards a climate resilient agriculture in Mediterranean countries – LIFE14 CCA/GR/000389 AGROCLIMAWATER, Role: research team member
- (2012-2017) Introduction of new olive crop management practices focused on climate change mitigation and adaptation - LIFE11 ENV/GR/942 OLIVE-CLIMA, Role: research team member
- (2013-2015) Study of potential impacts of climate change on river estuaries. Case study of River Pinios delta, Thessaly-central Greece-DAPHNE-Hellenic General Secretariat for Research and Technology, Role: research team member
- (2012-2015) Monitoring of the quantity and quality of water resources in implementation of the Water Framework Directive-Hellenic Special Secretariat for Water-Structural Funds, Role: Scientific Responsible
- (2013-2015) Water resources management at agricultural coastal environments-adaptation to climate change impacts-AGROCLIMA-National Operational Program for Competitiveness, Role: head of the HAO scientific team
- (2014-2018) International virtual topic-network on modelling and management of catchments in Mediterranean basin-Julich Research Center. Role: head of the Greek scientific team
- (2014-2016) Monitoring networks design and sampling campaign for the study of residues of FENAMIPHOS and its metagolites in the groundwaters of Greece-AMVAC. Role: Scientific responsible
- (2012-2014) Monitoring networks design and sampling campaign for the study of residues of FLUOMETURON and its metagolites in the groundwaters of Greece-AGAND & GREENFARM. Role: Scientific responsible
- (2011-2012) Integrated modelling and management of nitrogen pollution in selected Greek and German catchment areas – Programme for the promotion of the exchange and the scientific cooperation between Greece and Germany IKYDA2011, Role: head of the Greek scientific team
- (2010-2014) Establishment of Impact Assessment Procedure as a tool for the sustainability of agro-ecosystem: The case of Mediterranean olives – LIFE09 ENV/GR/000302 SAGE 10, Role: Scientific responsible HAO-LRI (former NAGREF-LRI)
- (2009-2012) Strategic plan for the adaptation and application of the principles for the sustainable use of pesticides in a vulnerable ecosystem - LIFE07 ENV/GR/0000266 EcoPest, Role: Scientific responsible NAGREF-LRI
- (2009-2012) Soil sustainable management in a Mediterranean River basin on the European soil thematic strategy - LIFE07 ENV/GR/000278 SoS, Role: Research team member
- (2010-2011) Study of the chemical quality of irrigation waters (surface and ground water) at basin scale in the regions of Macedonia-Thrace and Thessaly – Hellenic Ministry of Rural Development and Food, Role: Scientific responsible NAGREF-LRI
- (2007-2009) Study for the evaluation of cost of irrigation water at river Pinios basin (Tirnavor sub-basin) - Hellenic Ministry of Rural Development and Food, Role: Scientific responsible NAGREF-LRI
- (2009-2009) Study of possible measures to upgrade and improve the collective irrigation network at the municipality of Nigrita – Municipality of Nigrita, Role: Research team member
- (2007-2008) Development and implementation of a common monitoring system of groundwater of Strymon river basin – INTERREG III A Greece-Bulgaria, Role: Scientific responsible NAGREF-LRI
- (2005-2008) Residues of soil fumigant 1,3-dichloropropene and its related compounds in the groundwater – Greece 2005-2007: monitoring networks design and sampling campaign – DOW AgroSciences, Role: Scientific responsible
- (2003-2007) Implementation of management measures at the Agras wetland - LIFE03 NAT/GR/000092, Role: Head of research team
- (2003-2007) Development of a methodology for monitoring and protection of water resources at basin scale. Implementation in the river Gallikos basin, Prefecture of Kilikis – General Secretariat for Research and Technology, Role: deputy scientific responsible
- (2002-2007) Feasibility of ASR groundwater artificial recharge at the wider region of Tumba (Prefecture of Kilikis), Prefectural Authority of Kilikis, Role: scientific responsible

(2005-2006) Background criteria for the identification of groundwater thresholds - FP6 006538 (SSPI), Role: scientific team member

(2004-2004) Compilation of the national Action Plan in the framework of 676/91/EC Directive, for the assessment of the deterioration level of irrigation water quality at the designated vulnerable areas of Imathia and Pella basins – Hellenic Ministry of Agriculture, Role: Responsible of specific actions

(2000-2003) Water resources management of the Municipality of Moudros region, Lemnos island – Regional Authority of northern Aegean, Role: Responsible of specific actions

(2001-2002) Compilation of the national Action Plan in the framework of 676/91/EC Directive, for the assessment of the deterioration level of irrigation water quality at the designated vulnerable areas of Thessaloniki-Kilkis, Serres-Drama and Arta-Preveza basins – Hellenic Ministry of Agriculture, Role: Responsible of specific actions

(1999-2002) Groundwater management of coastal karstic aquifers - COST 621, Role: WP leader

(1999-2001) Study of the soil and water resources status of Phillipi peatland – Hellenic Ministry of Agriculture, Role: Responsible of specific actions

(1999-2001) Additional environmental actions in the framework of 2078/92/EEC Directive – Study of the natural resources and the factors that affect the yield and the qualitative characteristics of crops in Thessaly - Hellenic Ministry of Agriculture, Role: Responsible of specific actions

(1999-2000) Study for the location of appropriate sites for deposition of high risk waste in abandoned quarries and mines – Hellenic Ministry for Public Works and the Environment, Role: Project coordinator

(1999-2000) Compilation of the national Action Plan in the framework of 676/91/EC Directive, for the assessment of the deterioration level of irrigation water quality at the designated vulnerable areas of Kopaida, Argolida, Thessaly and Pinios Ilias basins – Hellenic Ministry of Agriculture, Role: Responsible of specific actions

(1999-2000) Assessment of current status of groundwater resources at the Lavrion Technological and Cultural Park. Monitoring system and decontamination experiments – National Technical University of Athens, Role: Project coordinator

(1998-2000) Evaluation and management of water resources of Sarigioli basin – Prefectural Authority of Kozani, Role: Responsible of specific actions

Key Consultancy Works (2000 onwards)

(2019) Ad hoc expert support services on surface and ground water related issues directly or indirectly linked to the TAP construction within the Hellenic territory TAP, Role: Project manager

(2016) Capacity Building support to Turkey on groundwater management - EUROPAID -, NIRAS IC Sp, Role: NKE on Pressure-Impact analyses, Data gaps assessment and management.

(2016-2017) Review of water resources management plans in the river basins of the Water Districts of Thessaly, Epirous and western Greece in the framework of the WFD, in accordance to the national Act 3199/2003, Perleros Consultancy, Role: review and implementation of methodology for the assessment of groundwater systems in the river basins of Thessaly Districts.

(2011-2012) Technical Assistance for the implementation of Nitrate Directive – National programme for Turkey 2007 under the instrument for Pre-Accession Assistance (IPA), Vakakis Int. S.A., Role: NKE on nitrate vulnerable zones designation

(2011-2011) Compilation of water resources management plans in the river basins of the Water Districts of Thessaly, Epirous and western Greece in the framework of the WFD, in accordance to the national Act 3199/2003, Perleros Consultancy, Role: development of methodology for the assessment of groundwater systems and implementation in the river basins of Thessaly Districts.

(2003-2007) Development of systems and tools for the management of water resources of the Water Districts of western, northern and eastern Peloponnese, Perleros Consultancy, Role: Development of conceptual and numerical models of groundwater flow and pollution transport

(1999-2001) Integrated water resources management of the island of Crete, Perleros Consultancy, Role: Development of conceptual and numerical models of groundwater flow and pollution transport

Publications in Journals
(2000 onwards)

- Arampatzis, G., Hatzigiannakis, E., Pisinaras, V., Kourgialas, N., Psarras, G., Kinigopoulou, V., Panagopoulos, A., & Koubouris, G., 2018. Soil water content and olive tree yield responses to soil management, irrigation, and precipitation in a hilly Mediterranean area. *Journal of Water and Climate Change*, 9(4), 672-678.
- Arampatzis, G., Panagopoulos, A., Pisinaras, V., Tziritis, E., & Wendland, F., 2018. Identifying potential effects of climate change on the development of water resources in Pinios River Basin, Central Greece. *Applied Water Science*, 8(2), 51.
- Pisinaras, V., Panagopoulos, A., Herrmann, F., Bogena, H. R., Doulgeris, C., Ilias, A., Tziritis, E., & Wendland, F., 2018. Hydrologic and Geochemical Research at Pinios Hydrologic Observatory: Initial Results. *Vadose Zone Journal*, 17(1).
- Rahmati M., Weihermüller L., Vanderborght J., Pachepsky Y. A., Mao L., Sadeghi S. H., Moosavi N., Kheirfam H., Montzka C., ... , Arampatzis G., Hatzigiannakis E., Panagopoulos A., ... and Vereecken H., 2018. Development and analysis of the soil water infiltration global database. *Earth System Science Data*, vol. 10(3), 1237-1263.
- Arampatzis G., Hatzigiannakis E., Panagopoulos A., Karyoti A., Vrouchakis I. and Karyotis Th., 2018. Water scarcity and inputs of nutrients from irrigation in olive groves of Crete Island, Greece. *Journal of Plant Nutrition*, <http://www.tandfonline.com/action/showCitFormats?doi=10.1080/01904167.2018.1500589>
- Arampatzis G., Hatzigiannakis E., Pisinaras V., Kourgialas N., Psarras G., Kinigopoulou V., Panagopoulos A. and Koubouris G., 2018. Soil water content and olive tree yield responses to soil management, irrigation, and precipitation in a hilly Mediterranean area. *Journal of Water and Climate Change*, <https://doi.org/10.2166/wcc.2018.224>.
- Arampatzis G., Hatzigiannakis E., Kourgialas N., Psarras G., Kinigopoulou V., Panagopoulos A. and Koubouris G., 2018. Seasonal variation and implications of soil water content in the cultivation of olive trees. *Acta Horticulturae* Number 1199, 339-343.
- Karyotis K., Gulbahar N, Panagopoulos A. (2018) A two-dimensional nitrogen fertilization model for irrigated crops in Turkey, *Amer. Scient. Res. Journ. For engin. Tech. and Sciences*, 41:1, pp. 319-332
- Hatzigiannakis E., Arampatzis G., Dalambakis P., Karyoti A., Tsitouras A., Vrouchakis I., Panagopoulos A., Karyotis Th., (2018) A practical method for mapping of pesticide loss risk in cultivated soils of Greece, *Amer. Scient. Res. Journ. for engin. Tech. and Sciences*, 48:1, pp. 104-114
- Panagopoulos, A., Herrmann, F., Pisinaras, V., & Wendland, F., 2017. Impact of climate change on irrigation need and groundwater resources in Pinios River Basin. *European Water*, 59, 91-98.
- Panagopoulos A., Karyoti A., Karyotis Th., Kasaci A., 2017, Water resources monitoring for the implementation of Nitrates Directive (91/676/EEC) in Turkey, *Amer. Scient. Res. Journ. for engin. Tech. and Sciences*, 35:1, pp. 332-341
- Panagopoulos A., Arampatzis G., Tziritis E., Pisinaras V., Herrmann F., Kunkel R., Wendland F., 2016. Assessment of climate change impact in the hydrological regime of River Pinios basin, central Greece. *Desalination and Water Treatment*, 57(5), 2256-2267.
- Hatzigiannakis E., Filintas A., Ilias A., Panagopoulos A., Arampatzis G., Hatzispyroglou I., 2016. Hydrological and rating curve modelling of Pinios River water flows in central Greece, for environmental and agricultural water resources management. *Desalination and Water Treatment*, 57 (25): 11639-11659
- Hatzigiannakis E., Pantelakis D., Hatzispyroglou I., Arampatzis G., Ilias A., Panagopoulos A., 2016. Discharge measurements and roughness coefficient estimation in a river. The case of Strymonas river in northern Greece. *J. Environ. Process.*, DOI 10.1007/s40710-015-0120-4
- Tziritis E., Arampatzis G., Hatzigiannakis E., Panoras G., Panoras A., Panagopoulos A., 2016. Quality characteristics and hydrogeochemistry of irrigation waters from three major olive groves in Greece. *Desalination and Water Treatment*, 57:11582-11591 DOI: 10.1080/19443994.2015.1057869
- Panagopoulos A., Arampatzis G., Kuhr P., Kunkel R., Tziritis E., Wendland F., 2015. Area-differentiated modelling of water balance in Pinios river basin, central Greece. *Global Nest*, 17:2, 221-235
- Konstantinou V, Arampatzis G, Panagopoulos A, Tziritis E., Voudouris K., 2015. Water Quality of the Vadose and Saturated Zone in Part of the Sedimentary Aquifer System of Kopais Basin-central Greece. *Austin J Hydrol.* 2(1): 1013
- Tziritis E., Panagopoulos A., Arampatzis G., 2014. Development of an operational index of water quality (PoS) as a versatile tool to assist groundwater resources management and strategic planning. *Journal of Hydrology*, 517: 339-350.
- Mattas Ch., Voudouris K., Panagopoulos A., 2014. Integrated Groundwater Resources Management Using the DPSIR Approach in a GIS Environment: A Case Study from the Gallikos River Basin, North Greece. *Water*, 6:1043-1068.
- Alexandridis T. K., Panagopoulos A., Galanis G., Alexiou I., Cherif I., Chemin Y., Stavrinou E., Bilas G., Zalidis G. C., 2014. Combining remotely sensed surface energy fluxes and GIS analysis of groundwater parameters for irrigation system assessment. *J. Irrig. Science*, 32:127-140.

- Arampatzis G., Hatzigiannakis E., Evangelides C., Panagopoulos A., 2014. A handy irrigation management method through meteorological data. Case study in N. Greece. *Global Nest*, 16:2, 219-228
- Karyotis Th., Arampatzis G., Panagopoulos A., Hatzigiannakis E., Tziritis E., Karyoti K., Vrouchakis J., 2014. Nutrients, trace elements and water deficit in Greek soils cultivated with olive trees. *Int. J. Environmental Quality*, 13:09-20.
- Karyotis Th., Güçdemir I., Akgül S., Panagopoulos A., Karyoti C., Demir S. and Kasaci A., 2014. Nitrogen fertilization plans for the main crops of Turkey to mitigate nitrates pollution. *Eurasian Journal of Soil Science*, 3:13-24.
- Grigoriadis N., Panagopoulos A., Meliadis I., Spyroglou G., 2009. Habitat and hydrological–hydrochemical characteristics of the Agras wetland (Northern Greece). *Plant Biosystems*, v. 143, no 1, pp162-172.
- Teloglou I., Zissis S., Panagopoulos A., 2008. Water table fluctuation in aquifers overlying a semi-impervious layer due to transient recharge from a circular basin. *Journal of Hydrology*, v.348, pp.215-223.
- Terry A., Carter A., Humphrey R., Capri E., Grua B., Panagopoulos A., Pulido-Bosch A., Kennedy S., 2008. A monitoring programme for 1,3-dichloropropene and metabolites in groundwater in five EU countries. *Pest Management Science*, v. 64, no 9, pp923-932.
- Wendland F., Blum A., Costiers M., Gorova R., Griffioen J., Grima J., Hinsby K., Kunkel R., Marandi A., Melo T., Panagopoulos A., Pauwels H., Ruisi M., Traversa P., Vermooten J., Walraevens K., 2008. European aquifer typology: a practical framework for an overview of major groundwater composition at European scale. *Environmental Geology*, v.55, no 1, pp77-85.
- Mattas C., Soulios G., Panagopoulos A., Voudouris K., Panoras A., 2007. Hydrochemical characteristics of the Gallikos river water, Prefecture of Kilkis, Greece. *Global Nest*, v. 9, no 3, pp. 251-258.
- Karyotis Th., Panagopoulos A., Alexiou J., Pateras D., Argyropoulos G., Panoras A., 2006. Nitrates pollution in a vulnerable zone of Greece. *Communications in Biometry and Crop Science*, v. 1, no 2, pp. 72-78.
- Panoras A., Arampatzis G., Hatzigiannakis E., Ilias A., Panagopoulos A., Teloglou i., Matsi Th., Melitsi M., 2005. Assessment of the suitability of water resources for irrigation at the Prefecture of Pella, *Geotechnical Scientific Issues*, series 6, v. 16, no 2. [in Greek]
- Panagopoulos A., Panoras A., Matsi T., 2004. The role of the phreatic aquifer in the preservation of the Philippoi peatland, northern Greece. *Agricultural Engineering*, v. XLI, no 4, pp. 49-55
- Panagopoulos A., Metaxa E., 2004. A proposal for groundwater quality assessment. *Agricultural Engineering*, v. XLI, no 3, pp.40-44.
- Panoras A., Panagopoulos A., Vafiades P., 2004. Groundwater artificial recharge of the Edessaioi basin aquifer system, northern Greece, through irrigation wells. *Agricultural Engineering*, v. XLI, no 1, pp. 47-52.
- Voudouris K., Panagopoulos A., Koumantakis I., 2004. Nitrate pollution in the coastal aquifer system of the Korinthos Prefecture (Greece). *Global Nest*, v.6, no 1, pp.31-38.
- Karyotis Th., Panagopoulos A., Pateras D., Panoras A., Danalatos N., Angelakis C. Kosmas C., 2002. The Greek Action Plan for the mitigation of nitrates in water resources of the vulnerable district of Thessaly. *Journal of Mediterranean Ecology*, v.3, no 2-3, pp.77-83.
- Voudouris K., Panagopoulos A., Koumantakis J., 2000. Multivariate statistical analysis in the assessment of hydrochemistry of the northern Korinthia Prefecture alluvial aquifer system (Peloponnese, Greece). *Natural Resources Research*, v.9, no 2., pp135-143.

Other published work

- 5 book/book chapters
- Over 120 papers in international Conferences
- Over 20 papers in national Conferences
- Over 90 presentations in abstract books of Int. Conferences
- Over 120 research project reports
- Over 50 development study reports

Active participation in Scientific Committees

(2014) Advisory Committee to the Hellenic General Secretariat for Research and Development on the identification of research priorities on environment and sustainable development, in the framework of the program period 2014-2020
 (2013) Member of the scientific consultants team of the intermediate management authority of the region of c. Macedonia-northern Greece, for the compilation of priority pillars and actions for the program period 2014-2020, in the sector of irrigation water management.
 (2013-now) Member of the Hellenic National Water Council, in the framework of the Water Framework Directive (2010-2012) Member of the executive office of the Hellenic Chapter of IAH
 (2011-2012) Member of the technical committee of the Hellenic Agriculture of Rural Development and Food on water resources
 (2007-2010) Member of the scientific committee of the Regional authority of C. Macedonia for monitoring the implementation of the action plan against groundwater nitrate pollution of agricultural origin at the designated vulnerable areas of Strimonas basin and the plain of Thessaloniki-Pella-Imathia
 (2001-2002) Member of the technical committee for the support of the project "Set-up and operation of a body for the rational use of water resources at Anthemountas basin" (inter-municipal cooperation EPTA), which was implemented by the collaborative action of local municipal authorities of Thermi-Vasilika-Mikra-Anthemountas, the regional authority of c. Macedonia and the development company Anatoliki
 (1999-2004) Member of the scientific team for the compilation of the national action plan in accordance to Directive 676/91/EC, on the assessment of the level of deterioration of irrigation water in agricultural regions

Other scientific activities

(2014-now) Member of editorial Advisory Board of European Countryside Journal
 (2009-2014) Independent evaluator of scientific project proposals & project reviewer for E.E. (FP) and Serbian Ministry of Science and Technological Development
 (2002-now) Scientific/organising committee member of national and international theme Conferences
 (2009-now) Reviewer in scientific journals

Selected Educational Activities
 (Invited Lectures, Seminars, Supervision) 2000 onwards

(2017) Invited lecture at Mendel Brno University on "Water resources monitoring"
 (2017) ABC/J EXPERT TALK 2017 International Comparison of Nitrogen Pollution of Water Resources & Management Strategies. Invited lectures on "Quality assessment of water resources in Greece (nitrogen and water quality: status and perspectives)", "Implementation of Nitrates Directive in Turkey: EC support, stages and current status"
 (2016) Capacity building support to Turkey on groundwater management. Series of presentations covering the theme
 (2014-2017) Aristotle University of Thessaloniki, Department of Geology, postgraduate programme on "Applied and Environmental Geology". Lecturing on "Applied Hydrogeology" and "Soil disposal of effluent and solid waste"
 (2008-2013) Aristotle University of Thessaloniki, interdepartmental programme of postgraduate studies titled "Ecological quality and water resources management at basin scale". Invited lecturer in the framework of the module "Simulation of alternative solutions. Assessment. Management at basin scale", on "hydrogeological simulations-groundwater resources management-case studies".
 (2012) Technical Assistance for the implementation of Nitrates Directive in Turkey-EuropAid Project. Presentation of results at the Turkish Ministry for Food, Agriculture and Livestock-Ankara: Designation of NVZs-Methodology, results, prospects. Seminar to Turkish executives of regional and central government-Thessaloniki: (a)Criteria and methodology for NVZ designation, (b) Data needed for NVZ designation in Turkey, (c) Introduction into Nitrate Zone Designation, (d) Steps involved in the designation of NVZs in Turkey
 (2012) European Commission, seminar-lectureship to DG Translation Unit (Brussels-Luxemburg), on "Water Protection and Management: Directives and perspectives, virtues and problems"
 (2006-2010) Technological Educational Institute of western Macedonia, School of Technological Applications, Department of Environmental Geotechnology. Lecturing and demonstration on hydrogeology.
 (2008) University of Belgrade-Faculty of Mining and Geology, Department of Hydrogeology. Invited lecturer on "Groundwater flow models: to model or not?".
 (2004) Technological Educational institute of Thessaloniki-School of Agricultural Technology, Farm Management Department, Programme SOCRATES IP: 210447-IC-3-2002-1-RO-ERASMUS-IPUC-1, SOCRATES IP Course "Sustainable agriculture and water resources". Invited lecturer on "Water resources deterioration and management in Greece"
 (2001-now) Scientific support and guidance of undergraduate, graduate and postgraduate applied training, graduate reports and postgraduate dissertations of students of the Aristotle University of Thessaloniki, the University of Aegean, the National Technical Universities of Athens & Thrace, the Technische Universitat Berlin.

