

Associate Professor Konstantinos I. Vatalis

University of Western Macedonia Greece

Mineral Resources Engineering Department

1. PERSONAL DATA

Business address	University of Western Macedonia Mineral Resources Engineering Department, Koila campus GR-50100 Kozani, Greece
Phone	+30 2461068152
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2. EDUCATION

1986	Diploma of Geologist, Department of Geological Sciences, University of Palermo Italy. Thesis: “Nuovi dati sul complesso ofiolitico di Vourinos Grecia su basi combilative”
2004	Doctor of Environmental Mining Management, Department of Mining Engineering and Metallurgy, National Technical University of Athens, NTUA Greece Dissertation title: “Environmental mining management using GIS and quality assessment with indices development”

3. PROFESSIONAL and ACADEMIC STATUS

1990 - 1996	Self-employed as geologist in the well drilling construction sector
1996 - 1998	Planning and project management of Kozani’s Prefecture local Administration
1998 - 2000	Consulting service in the Kozani’s Prefecture, in the field of environmental mining and geotechnical projects
2000 - 2004	Designer and project manager of public and private works in the field of environmental protection.
2005- today	Ass. Professor at the University of Western Macedonia Kozani, Greece

4. RESEARCH INTERESTS

- Environmental impact assessment
- Environmental indices

- Sustainability strategies in mining sector
- Sustainable development in mining areas
- Innovation and green energy
- Low carbon economy and CO2
Just coal transition

5. RESEARCH PROJECTS

5a). As project research leader:

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| 2009 - 2015 | title: “Entrepreneurship and Innovation Unit of Western Macedonia Technological Education Institute”
ESPA 2007-2013, MIS 304325. |
| 2009 - 2015 | title: “Innovative beneficiation techniques for the fluid inclusions removal for the production of high purity quartz”.
ESPA 2007-2013, action ARCHIMIDIS III, MIS 383583
Education and Lifelong Learning. |
| 2018 - 2020 | title: “Development of geostatistical simulation model in the characterization of complex geological structures” (Decision No. 8/2019, project code 70296). |

5b). Main researcher in the following research projects:

1. 1993-1997. «Correlation measurements of spectrophotometers BREWER MARK IV 036 and study of the boundary layer in the basin Ptolemais Kozani Greece”. Scientific officer Prof. N. Stamnas, TEI of WM.
2. 2000-2002. “System analysis of environmental data management” N.T.U.A Athens Greece.
3. 1999 “Organization of remote sensing laboratory and GIS» TEI WM. Greece.
4. 2003-2004 Research Market of undergraduate degree programs of Environmental Geotechnology department, TEI WM.
5. 2004-2007. Main researcher of the Archimedes Environmental European project “Risk estimation of the polyfyto artificial lake and water quality assessment” TEI WM. 2007-2013
6. 2004-2007. Main researcher of the Archimedes Environmental European project “Rehabilitation of the lakeside area of the Kastoria city”. TEI WM. 2007-2013.
7. 2004-2007. Main researcher of the Archimedes Environmental European Project “Recovery of raw materials and energy of abandoned equipment in Western Macedonia Greece”. TEI WM., 2007-2013.

6. PUBLICATIONS

PhD Dissertation:

Konstantinos I. Vatalis (2004). Environmental mining management using GIS and quality assessment with indices development". National Technical University of Athens, Greece, 2004.

6A. Papers in Referred Journals

- A41.** Charalampides, G., **Vatalis, K.I.**, Baklavaridis, A., Karayannis, V., Benetis, N.P. (2020). Chemical and mineralogical analysis of high purity Quartz from new deposits in a Greek island for potential exploration. *EUREKA: Physics and Engineering*, 4, 29-37.
- A40.** **Vatalis, K.I.** (2017). Training sustainability through role playing in higher education. *Progress in Industrial Ecology, An International Journal*, 11(4), 361-372.
- A.39.** Sims, D.B., Hudson, A.C., Keller, J.E., **Vatalis, K.I.**, Modis, K.P. (2017). Trace element scavenging in dry wash surficial sediments in an arid region of Southern Nevada, USA. *Mine Water and the Environment*, 36, 124-132.
- A.38.** Manoliadis, O.G., **Vatalis, K.I.** (2016). Sustainability criteria for awarding construction contracts in Greece. *International journal of Sustainability Management and Information Technologies*, 2(2), 7-12.
- A.37.** Sims, D.B., Collumb, C.J., Hodge, V.F., **Vatalis, K.I.**, Valakas, G. (2016). Larrea tridentata uptake of trace metals in mine tailings within an arid region of Nevada, USA. *International journal of plant & soil science*, 9(5), 1-11.
- A.36.** Charalampides, G., **Vatalis, K.I.** (2015). Global production estimation of rare earth elements and their environmental impacts on soils. *Journal of Geoscience and Environment Protection*, (3), 66-73.
- A.35.** **Vatalis, K.I.**, Charalampides, G., Benetis, N.P. (2015). Market of high purity quartz innovative applications. *Procedia Economics and Finance*, 24, 734-742.
- A.34.** Mavridis D.G., **Vatalis, K.I.** (2015). Products and markets - The activities of the imperial guilds of Constantinople. *Procedia Economics and Finance*, 24, 376-385.

- A.33.** Charalampides, G., **Vatalis, K.I.**, Baklavaridis, A., Benetis, N.P. (2015). Rare earth elements: industrial applications and economic dependency of Europe. *Procedia Economics and Finance*, 24, 126-135.
- A.32.** Mavridis, S.C., **Vatalis, K.I.** (2015). Investment in construction and economic growth in Greece. *Procedia Economics and Finance*, 24, 386-394.
- A.31.** Sims, D.B., Hudson, A.C., Keller, J.E., **Vatalis, K.I.**, Modis, K.P. (2015). Trace element scavenging in dry wash surficial sediments in an arid region of Southern Nevada, USA. *Mine Water and the Environment*, DOI 10.1007/s10230-015-0379-8.
- A.30.** Charalampides, G., Arvanitidis, N., **Vatalis, K.I.**, Platias, S., Savvidis, S. (2014). Non-energy raw materials in Greece: A tool for sustainable development. *Journal of Environmental Protection and Ecology*, 15(2), 580-588.
- A.29.** **Vatalis, K.I.**, Charalampides, G., Platias, S. (2014). CCS Ready innovative technologies in coal-fired power plants as an effective tool for a Greek low carbon energy policy. *Procedia Economics and Finance*, 14, 634 - 643.
- A.28.** Platias, S., **Vatalis, K.I.**, Charalampides, G. (2014). Suitability of quartz sands for different industrial applications. *Procedia Economics and Finance*, 14, 491 – 498.
- A.27.** **Vatalis, K.I.**, Charalampides, G., Platias, S., Benetis, N.P. (2014). Market developments and industrial innovative applications of high purity quartz refines. *Procedia Economics and Finance*, 14, 624-633.
- A.26.** Mavridis D.G., **Vatalis, K.I.** (2014). Best and bad practices - The imperial guilds of Constantinople. *Procedia Economics and Finance*, 14, 425-434.
- A.25.** Charalampides, G., **Vatalis, K.I.**, Platias, S. (2014). The contribution of industrial minerals to sustainable recovery of Greek economy. *Procedia Economics and Finance*, 14, 128-136.

- A.24.** Modis, K., **Vatalis, K.I.** (2014). Assessing the risk of soil pollution around an industrialized mining region using a geostatistical approach. *Soil and Sediment Contamination* 23, 63-75.
- A.23.** **Vatalis, K.I.**, Manoliadis, O., Charalampides, G., Platias, S., Savvidis, S. (2013). Sustainability components affecting decisions for green building projects. *Procedia Economics and Finance* 5, 747-756.
- A.22.** Platias, S., **Vatalis, K.I.**, Charalabidis, G. (2013). Innovative processing techniques for the production of a critical raw material the high purity quartz. *Procedia Economics and Finance* 5, 597- 604.
- A.21.** Charalampides, G., Arvanitidis, N., **Vatalis, K.I.**, Platias, S. (2013). Sustainability perspectives in Greece as reflected by mineral deposits exploitation. *Procedia Economics and Finance* 5, 143 -151.
- A.20.** Mavridis, D.G., **Vatalis, K.I.** (2013). Entrepreneurial aspects in east Roman empire - The imperial kommerkiarioi as quasi-entrepreneurs. *Procedia Economics and Finance* 5, 552-561.
- A.19.** Modis, K., **Vatalis, K.I.**, Sachanidis, Ch. (2013). Spatiotemporal risk assessment of soil pollution in a lignite mining region, using BME approach. *Int. Journal of Coal Geology.* 112 (1), 173–179.
- A.18.** **Vatalis, K.I.**, Manoliadis, O.G., Mavridis D.G. (2012). Project performance indicators as an innovative tool for identifying sustainability perspectives in green public procurement. *Procedia Economics and Finance.* 1, 276-285.
- A.17.** Mavridis D.G., **Vatalis, K.I.** (2012). Intellectual capital accounting indicators. *Procedia Economics and Finance,* 1, 401-410.
- A.16.** **Vatalis, K.I.**, Laaksonen, A., Charalampides, G., Benetis, N.P. (2012). Intermediate technologies towards low-carbon economy. The Greek zeolite CCS outlook into the EU commitments. *Renewable & Sustainable Energy Reviews* 16, 3391-3400.
- A.15.** **Vatalis, K.I.**, Modis, K., Pavloudakis, F., Sachanidis, Ch. (2011). Environmental associations of heavy and trace elements concentrations in

Sarigiol ground water coal basin area. *Advances in the Research of Aquatic Environment. Environmental Earth Sciences* 3(2), 401-408.

- A.14. Vatalis, K.I.,** Manoliadis, O.G., Charalampides, G. (2011). Assessment of the economic benefits from sustainable construction in Greece. *Int. Journal of Sustainable Development & World Ecology* 18(5), 377-383.
- A.13. Vatalis, K.I. (2010).** Evaluation of sustainability by a population living near fossil fuel resources in Northwestern Greece. *Journal of Environmental Management, JEMA* 91(12), 2581-2589.
- A.12. Modis, K., Vatalis, K.,** Papantonopoulos, G., Sachanidis, Ch. (2010). Uncertainty management of a hydrogeological data set in a Greek lignite basin, using BME. *Stochastic Environmental Research and Risk Assessment, SERRA* 24(1), 47-56.
- A.11. Vatalis, K.I.,** Charalampides, G., Manoliadis, O., Akrotos, C., Asvesta, A. (2008). Water quality assessment of the polyfyto lake in Western Macedonia Greece. *Journal of Environmental Protection and Ecology* 9(3), 540-549.
- A.10. Vatalis, K.I.,** Kaliampakos, D.C. (2006). An overall index of environmental quality in coal mining areas and energy facilities. *Environmental Management*, 38(6), 1031-1045.
- A.9. Manoliadis, O.G., Vatalis, K.I. (2003).** An environmental impact assessment decision analysis system for irrigation systems. *Global Nest: The International Journal*, 5(2), 65-70.
- A.8. Vatalis, K.,** Manoliadis, O. (2002). A two level multicriteria DSS for landfill site selection using GIS: case study in Western Macedonia, Greece. *Journal of Geographic Information and Decision Analysis, GIDA* 6(1), 49-56.
- A.7. Charalampides, G., Triantafylloy, A., Vatalis, K.,** Vosniakos, K.F. (2002). Air pollution effects as recorded by mineral particulate analysis. *Journal of Environmental Protection and Ecology* 3(2), 335-344.
- A.6. Triantafyllou, A., Manoliadis, O., Baronos, A., Zuburtikudis, I., Vatalis, K.** Charalampidis, G. (2002). Application of an uniform ambient index for air

quality management in West Macedonia Greece. *Journal of Environmental Protection and Ecology*, 3(2), 261-268.

- A.5.** Triantafyllou, A., Vosniakos, K., Volis, N., Maloutas, L., Patra, A., **Vatalis, K.**, Coucouliatas, D. (2002). Air quality in urban area in Western Macedonia region, Greece. *Journal of Environmental Protection and Ecology*, 3(1), 46-52.
- A.4.** Savvidis, S., **Vatalis, K.**, Kargiotis, E., Charalampidis, G., Zissopoulos, D. (2001). Der einfluss des Schaumssystems auf die selektivitat des flotationsprozesses bei der zinnsteinflotation. ISSN 1335-17888. *Acta Montanistica Slovaca*, 6(2), 159-166.
- A.3.** Triantafyllou, A., Zuburtikoudis, J., Manoliadis, O., **Vatalis, K.**, Vosniakos, F. (2001). Some observations on ABL structure in complex terrain. *Journal of Environmental Protection and Ecology*, 2(1), 42-48.
- A.2.** Savvidis, S., **Vatalis, K.**, Kargiotis, E., Charalampidis, G., Zissopoulos, D., (2001). Die geochemie des ursprungsmagmas und die chromiterzbildung im Vourinos ophiolith komplex, Nord Griechenland. *Mineralia Slovaca*, 33(2), 103-110.
- A.1.** Charalampides, G., Aberg, G., Triantafylloy, A., **Vatalis, K.** (2000). The natural isotopes as tracers in environmental studies. *Journal of Environmental Protection and Ecology*, 1(1), 10-16.

6.B. Papers in Conference Proceedings

- B.26.** **Vatalis, K.**, Sideri, D., Seferli, S., Modis, K. (2020). Environmental implications of the anthropogenic factor in areas of intense agricultural activity. *4th International Conference on Quantitative, Social, Biomedical & Economic Issues*. ICQSBEI 10-11 July 2020, Athens Greece. ISBN: 978-618-82980-4-0 ISSN: 2623-4777, p. 213-218.
- B.25.** Σακκαλή Α., Βατάλης Κ. (2019). Διερεύνηση ατυχημάτων από τις κτιριακές υποδομές στις σχολικές μονάδες της Δευτεροβάθμιας Εκπαίδευσης Π.Ε.

Κοζάνης. 2^ο Συνέδριο για την υγεία και την ασφάλεια στην εργασία.
ΕΛΙΝΥΑΕ 18-19 Νοεμβρίου 2019, Αθήνα.

<https://elinyaecongress.gr/wp-content/uploads/2020/01/PA53.pdf>

- B.24.** Charalampides, G., Liana, A., **Vatalis, K.**, Benetis, N-P. (2017). Elemental and phase characterization of quartz samples from Meliti Florina, Greece. Innovative Manufacturing Engineering & Energy Int. Conference, 112, 10013, May 25-26 Iasi, Romania. DOI:10.1051/mateconf/201711210013.
- B.23.** Βατάλης, Κ.Ι., Μπούτσκου, Λ.Γ. (2017). Διερεύνηση ενσωμάτωσης Τεχνολογιών Πληροφορίας και Επικοινωνιών, στην εκπαίδευση ενηλίκων. 11^ο Πανελλήνιο Επιστημονικό Συνέδριο Χημικής Μηχανικής, Μοχλός Καινοτομίας και Ανάπτυξης. 25-27 Μαΐου 2017, Θεσσαλονίκη.
- B.22.** Βατάλης, Κ.Ι., Καμπούρη, Σ.Σ. (2017). Το παίγνιο ρόλων ως εργαλείο καινοτόμου διδακτικής μεθοδολογίας της αειφορίας στο ακαδημαϊκό περιβάλλον της τριτοβάθμιας εκπαίδευσης. 11ο Πανελλήνιο Επιστημονικό Συνέδριο Χημικής Μηχανικής, Μοχλός Καινοτομίας και Ανάπτυξης. 25-27 Μαΐου 2017, Θεσσαλονίκη.
- B.21.** Charalampides, G., **Vatalis, K.**, Karayannis, V., Baklavaridis, A. (2016). Environmental defects and economic impact on global market of rare earth metals. 20th Innovative Manufacturing Engineering and Energy Conference, IManEE. IOP, Materials Science and Engineering, 1-6. DOI:10.1088/1757-899X/161/1/012069.
- B.20.** **Vatalis, K.I.**, Μανωλιάδης, Ο., Χαραλαμπίδης, Γ. (2015). Ενεργειακή και περιβαλλοντική αξιοποίηση καινοτόμων συμπυκνωμάτων χαλαζία σε δομικές εφαρμογές. Πρακτικά 2^{ου} Περιβαλλοντικού Συνεδρίου Θεσσαλίας, 26-28 September 2015, Skiathos-Greece, p. 170-176. ISBN: 978-960-6865-90-9.
- B.19.** Sims, D.B., Hudson, A.C., Keller, J.E., **Vatalis, K.I.**, Modis, K., Hooda, P.S. (2015). Trace Element transport and Associated Desert Varnish in a Dry Ephemeral Wash Containing former Metals Mining. The 29th Annual Desert Symposium, April 17-20, 2015 at the Desert Studies Center, Zzyzx, California State, CA.
- B.18.** Charalampides, G., **Vatalis, K.I.**, Benetis, P.N., Karayannis, V. (2012). Stable isotopes detection assessment for manmade pollution. *I^o*

Περιβαλλοντικό Συνέδριο Θεσσαλίας 8-10 Σεπτεμβρίου 2012, 234-240, Σκιάθος.

- B.17.** Modis, K., **Vatalis, K. (2011)**. Determination of the optimum spatiotemporal sampling density to map soil pollution in an intensive mining area. *3rd International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE 2011) & SECOTOX Conference*. 19-24 June 2011, Skiathos island, Greece.
- B.16.** **Vatalis, K.I.**, Platias, S., Platias, N., Charalampidis, G. (2010). Geochemical characterization and exploration of chromites in the Greek territory. Meeting of the Americas, 8-12 August 2010. Foz do Iguacu, Brazil.
- B.15.** Manoliadis, O., **Vatalis, K. (2010)**. Assessing the procurement process in Greece's construction projects. 5th Conference on Project Management PM-05, 29-31 May, p. 426-433 Heraklion Crete, Greece.
- B.14.** Modis, K., Papantonopoulos, G., **Vatalis, K.**, Sachanidis, Ch. (2009). Formulating a hydrogeological data set to fit the random field model. AMIREG 3rd International Conference. Assessing the Footprint of Resource Utilization and Hazardous Waste Management, Athens, Greece, pp 297-301.
- B.13.** Modis, K., Kolovos, A., **Vatalis, K. (2009)**. An application of spatiotemporal BME analysis to the estimation of rainfall in North-western Greece. Intern. Conference on Geoinformatics for Environmental Surveillance, STATGIS 2009, 17-19 June, Milos Island, Greece.
- B.12.** Panagopoulos, A., Stathaki, S., Vrouhakis, Y., Dalambakis, P., Vizantinopoulos, S., **Vatalis, K. (2008)**. Monitoring residues of fumigant 1,3-dichloropropene and its metabolites in groundwater's in Greece. Congress of the International Association of Hydrogeologists, IAH, 26 Oct -1 Nov. 2008. Toyama, Japan.
- B.11.** **Vatalis, K.I.**, Manoliadis, O.G. (2007). Assessment of the economic benefits of sustainable construction in Greece. International Conference Ecosummit. Ecological Complexity and Sustainability: Challenges and Opportunities for 21st Century's Ecology, May 22-27, 2007. Beijing, PR China.
- B.10.** **Vatalis, K.I.**, Charalampides, G. Manoliadis, O. Akratos, C., Asvesta, A. (2007). Sustainability indicators of Polyfyto lake in the region of Western Macedonia Greece. 1st International Conference on Environmental

Management, Engineering, Planning and Economics (CEMEPE) June, 24-28, Skiathos island, Greece.

- B.9.** Charalampides, G., **Vatalis, K.**, Manoliadis, O., Sachanidis, C., Tsihrintzis, V.A., Karantounias, G. (2005). Risk assessment in water resources management of polyfyto Lake in Western Macedonia, Greece. Proceedings of the 9th International conference on Environmental science and technology, B-110-115, Rhodes island, Greece.
- B.8.** **Vatalis, K.**, Χαραλαμπίδης, Γ., Καμπούρη, Σ., Μανωλιάδης, Ο. Τσιχριντζής, Β., Καραντούνιας, Γ. (2005). Μελέτη επικινδυνότητας νερών λίμνης Πολυφύτου στη λεκάνη απορροής του Αλιάκμονα, Νομού Κοζάνης. Πρακτικά 2^{ου} Περιβαλλοντικού Συνεδρίου Μακεδονίας, 8-12 Οκτωβρίου 2005. ISBN: 960-7380-09-6. Θεσσαλονίκη.
- B.7.** **Vatalis, K.**, Καλιαμπάκος, Δ., Καμπούρη, Σ., Δαμίγος, Δ., Λαμπράκης, Δ. (2005). Αποτίμηση ποιότητας περιβάλλοντος μέσω έρευνας κοινής γνώμης σε περιοχές με έντονη μεταλλευτική και βιομηχανική δραστηριότητα. Πρακτικά 2^{ου} Περιβαλλοντικού Συνεδρίου Μακεδονίας, 8-12 Οκτωβρίου 2005. ISBN: 960-7380-09-6. Θεσσαλονίκη.
- B.6.** Triantafyllou, A., Kiratzis, N., Voutsinas, M., Kiros, H., Evangelopoulos, V., **Vatalis, K.** (2003). Analysis of suspended particulate levels in an Industrial area of Greece over a multiyear period. 8th International Conference on Environmental Science and Technology, 8-10 September 2003, 798-805, Lemnos island, Greece.
- B.5.** Kargiotis, E., Gudulas, K., Chatsiavgustis, T., **Vatalis, K.**, Manoliadis, O. (2002). Impact of the ball – crusher grinding ball load and the number of revolutions on the selective grinding in the process of dressing of chromite – bearing soils of the Vourinos Ophiolite complex, West Macedonia – Greece. University of Mining and Geology “St. Ivan Rilski” vol 44-45, part III, Mechanization, electrification and automation in mines, Sofia, 2002, 33-35.
- B.4.** Manoliadis, O., Baronos, A., Tsolas, I., **Vatalis, K.** (2001). Environmental impact assessment of irrigation systems using sustainability indices. 7th Conference on environmental science and technology, 3-6, September 2001. Hermoupolis Syros, Greece.
- B.3.** Manoliadis, O., Baronos, A., **Vatalis, K.**, Charalampidis, G. (2001). Environmental impact assessment of deforestation in peak storm runoff

studies. International Conference Forest Research: a challenge for an integrated European approach. August 27–1 September 2001, Thessaloniki, Greece.

- B.2.** Τριανταφύλλου, Α., Χαραλαμπίδης, Γ., Καραμάρκος, Ν., **Vatalis, K., (2000).** Εκπομπές αερίων ρύπων από τους λιγνιτικούς σταθμούς στον άξονα Σκοπίων-Πτολεμαΐδας-Κοζάνης: ένα σενάριο διασποράς. 1^ο Συνέδριο της Επιτροπής Οικονομικής Γεωλογίας, Ορυκτολογίας και Γεωχημείας: Ορυκτός Πλούτος και Περιβάλλον στη Δ.. Μακεδονία. 12-13 Φεβρουαρίου 2000 σελ. 439-451, Κοζάνη.
- B.1.** Triantafylloy, A., Zuburticudis, I., Manoliadis, O., **Vatalis, K., Vosniakos, F. (1999).** Measurement techniques in atmospheric boundary layer – an application in a large and broad mountain basin. 2nd Balkan Conference on Industrial pollution, 19-21 Nov. 1999. Sofia, Bulgaria.

C. Books

- C.1 Vatalis, K., Manoliadis O., Desiniotis, H. (2002).** «Environmental Geotechnology” ION, Publisher Athens, ISBN: 960-411-218-X. (in Greek).
- C.2. Vatalis, Konstantinos (2014).** Sustainable management - Environment impact assessment of engineering projects. ISBN: 978-960-99197-0-8. Athens 2014 (in Greek).
- C.3. Vatalis, Konstantinos (2007).** Job profile of Environmental Engineers in the labor market. (in Greek).
- <http://airlab.teikoz.gr/geope/downloads/jobprofileGEOPE.pdf>

7. EDUCATIONAL & ACADEMIC ACTIVITIES

a) **Undergraduate courses** at the Mineral Resources Engineering Department, of The University of Western Macedonia, Kozani Greece.

- Environmental impact assessment
- Environmental restoration after mining activities
- Environmental geotechnology
- Innovation a entrepreneurship
- Industrial rocks and minerals

- Environmental protection in mining works

7b. Postgraduate programs MSc (teaching)

b1) Postgraduate courses (MSc Program). “Petroleum oil and gas management and transportation” at the Mineral Resources Engineering Department, of University of Eastern Macedonia, Kozani Greece, in cooperation with Azerbaijan State Economic University.

- Safety and Environmental Impacts in Oil and Natural Gas Industry and Transportation. (2018- today).

b2) Postgraduate courses (MSc Program) in Hellenic Open University, HOU (Patras Greece)

- Engineering Project Management – Hellenic Open University, HOU Patra’s Greece (2016- today).

c. Referred journals Reviewer

Environmental pollution (Elsevier)

Landscape and Urban Planning (Elsevier)

Stochastic Environmental Research and Risk Assessment (Springer)

Clean Soil Air Water (Willey)

Low Carbon Economy (Scientific Research Publishing)