



## CURRICULUM VITAE

### **Evangelos N. Keramaris, Lecturer**

University of Thessaly, School of Engineering, Department of Civil Engineering,  
Laboratory Hydromechanics of and Environmental Engineering  
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#### **1. Present Position**

Lecturer, Department of Civil Engineering, University of Thessaly with module “Experimental Hydraulics”. (FEK 804, Issue Γ, 26/06/2014). Member of Laboratory of Hydromechanics and Environmental Engineering (Director : Professor A. Liakopoulos).

#### **2. Education**

- 1989-1994 : Diploma of Aristotle University of Thessaloniki, Department of Civil Engineering, Division of Hydraulic and Environmental Engineering, **grade 7.36.**
- 1995-1996 : MSc Department of Civil Engineering, Division of Hydraulic and Environmental Engineering
- 1996-2001 : PhD, Department of Civil Engineering, Division of Hydraulic and Environmental Engineering, **grade 10.**

- August 2003 : Supervision of short course «Integrated River and Coastal Zone Management», 30<sup>th</sup> International Association of Hydraulic Research Congress, Thessaloniki, Greece.
- April 2015 : Supervision of workshop «2<sup>nd</sup> Workshop for the Fatigue of Materials Used in Vascular Surgery», Thessaloniki, Greece.

### **3. Other Skills**

- Excellent knowledge of graphics package Grapher
- Excellent knowledge Labview program
- Languages: English, Italian

### **4. Research Interests**

- Experimental Measurements (Hot-Film Anemometry, Particle Image Velocimetry)
- Flows in Porous Media
- Gravity Currents in Lock-Exchange Experiments
- Buoyant Jets in Open Channels and Tanks

### **5. Courses**

#### *Today*

Teaching of 3 courses in Department of Civil Engineering in University of Thessaly στο Τμήμα  
Specifically :

1. **Experimental Hydraulics** (8th Semester / from 2010-11)
2. **Environmental Fluid Mechanics** (9th Semester / from 2012-13)
3. **Unsteady Flows** (9th semester / from 2012-13)

#### *Past*

- From 01/10/1996 until 30/6/2000 : Assistant at laboratory exercises of a) « **Fluid Mechanics**» (3<sup>rd</sup> Semester) and b) «**Hydraulics**» (4<sup>th</sup> semester) for Civil Engineering Dept., Aristotle University of Thessaloniki.
- From 26/03/2002 until 12/07/2013 : Research Associate of Alexander Technological Educational Institute of Thessaloniki, Department of Civil Infrastructure Engineering, Division of Hydraulic and Environmental Engineering «**River Mechanics**» (7<sup>th</sup> Semester) theory and laboratory exercises.
- From 06/11/2003 until 12/07/2013 : Research Associate of Alexander Technological Educational Institute of Thessaloniki, Department of Civil Infrastructure Engineering, Division of Hydraulic

and Environmental Engineering «**Hydrology-Groundwater Hydraulics**» (4<sup>th</sup> semester) theory and laboratory exercises.

- From 16/03/2004 έως 21/02/2006 : Research Associate of Alexander Technological Educational Institute of Thessaloniki, Department of Civil Infrastructure Engineering, Division of Hydraulic and Environmental Engineering «**Water Supply**» (5<sup>th</sup> semester) theory.
- From 01/10/2007 until 12/07/2013 : Research Associate of Alexander Technological Educational Institute of Thessaloniki, Department of Civil Infrastructure Engineering, Division of Hydraulic and Environmental Engineering «**Hydraulics II**» (4<sup>th</sup> semester) theory and laboratory exercises.
- From 01/09/2010 until 02/07/2014 : Visiting Professor of University of Thessaly, Department of Civil Engineering, Division of Hydraulic and Environmental Engineering «**Experimental Hydraulics**» (8<sup>th</sup> semester).
- From 17/10/2012 02/07/2014 : Visiting Professor of University of Thessaly, Department of Civil Engineering, Division of Hydraulic and Environmental Engineering «**Unsteady Flows**» (9<sup>th</sup> semester).
- From 17/10/2012 02/07/2014 : Visiting Professor of University of Thessaly, Department of Civil Engineering, Division of Hydraulic and Environmental Engineering «**Environmental Fluid Mechanics**» (9<sup>th</sup> semester).
- From 01/03/2014 02/07/2014 : Visiting Professor of University of Thessaly, Department of Civil Engineering, Division of Hydraulic and Environmental Engineering «**Flows in Natural and Artificial Open Channels**» (8<sup>th</sup> semester).

## **6. Research Projects**

### *Participating in research Projects*

- 04/10/1994 έως 12/11/1994: Worked as an External Expert (contracted) in a research project implemented by the Civil Engineering Dept. of the Aristotle University of Thessaloniki (financed by the Water Utility of Thessaloniki - OYTH) in the field of hydraulic and environmental engineering entitled «Public poll by OYTH on the Public's reaction regarding drinking water supply and water issues in general».
- 01/01/1999 – 31/03/1999: Worked under an employment contract in a research project entitled «Upgrading the civil engineering Studies by introducing of modern methods and tools of education» implemented by the Civil Engineering Dept. of the Aristotle University of Thessaloniki.
- 10/04/2013-31/08/2015: Worked as a Staff member in the research project "Archimedes III – research groups in Alexander TEI of Thessaloniki» MIS 383572 code «education and lifelong

learning» [Sub-project 33 entitled «Optimum design of the communication of lateral harbor with main flow. Application to small ports and Fishponds»].

### Research Projects Proposals

1) Project proposal submitted to the operational programme "Education and Lifelong Learning" of the Ministry of education, in axis 04 under call: 184 entitled proposed Act: "Developing artificial intelligence System for the design and Study of the flood protection works" and Budget: 180,000 euros. Role on the project: Project Manager and vice Coordinator.

2) Project proposal submitted to under the context of the European Economic Area financial mechanism period 2009-2014, program GR02--integrated management GR02 Marine and inland waters: increased knowledge and awareness regarding the protection and management of Hydrosystems posing environmental problems or loss of biodiversity, entitled:" WATERGAIN"--increasing knowledge and awareness on aquatic ecosystems of southeastern Thessaly. Role on the project: Project Team Member.

## **7. Publications**

- *in International Journals: 13*
- *in Greek Journals: 2*
- *in Greek Special Issues: 1*
- *in International Conferences: 15*
- *in Greek Conferences: 14*

### **A) Publications in International Journals (13)**

**A.1.** Prinos P., Sofialidis D., **Keramaris E.**, (2003) «Turbulent Flow Over and Within a Porous Bed», *Hydraulic Engineering*, ASCE, 129(9): 720-733, ASCE.  
[http://dx.doi.org/10.1061/\(ASCE\)0733-9429\(2003\)129:9\(720\)](http://dx.doi.org/10.1061/(ASCE)0733-9429(2003)129:9(720))

**A.2.** **Keramaris E.**, Prinos P., (2009) «Flow Characteristics in Open Channels with Permeable Bed», *Porous Media*, Begell House, 12 (2): 155-165. **DOI: 10.1615/JPorMedia.v12.i2**

**A.3.** **Keramaris E.**, (2010) «Comparison between different porous bed (porous filter and rods bundle) in open channels», *Porous Media*, Begell House, 13(2): 183-193.  
**DOI: 10.1615/JPorMedia.v13.i2.80**

**A.4.** Pechlivanidis G., **Keramaris E.**, Pechlivanidis I., Samaras G., (2012) «Measurements of Turbulent Characteristics in an Open Channel Using PIV (Particle Image Velocimetry)», *Global NEST*, 14(3): 378-385.

**A.5. Keramaris E.,** (2012) «The Impact of Vegetation on the Characteristics of the Flow in an Inclined Open Channel using the PIV Method», *Water Resources and Ocean Science*, Science Publishing Group, 1(1): 1-8. **DOI:** [10.11648/j.wors.20120101.11](https://doi.org/10.11648/j.wors.20120101.11)

**A.6. Keramaris E.,** Pechlivanilis G., (2013) «PIV Measurements Over a Permeable and an Impermeable Bed», *Porous Media*, Begell House, 16(1): 21-28. **DOI:** [10.1615/JPorMedia.v16.i1.30](https://doi.org/10.1615/JPorMedia.v16.i1.30)

**A.7. Savvidis Y., Zafiriou S., Keramaris E.,** (2013) «Energy Production form Sea Waves and Currents», *Environmental Protection and Ecology*, BENA, 14(3): 922-932.

**A.8. Pechlivanidis G., Keramaris E., Pechlivanidis I.,** (2015) «Experimental Study of the Effects of Permeable Bed (Grass Vegetation and Gravel Bed) on the Turbulent Flow Using Particle Image Velocimetry», *Turbulence*, Taylor and Francis, 16(1): 1-16. **DOI:** [10.1080/14685248.2014.946605](https://doi.org/10.1080/14685248.2014.946605)

**A.9. Pechlivanidis G., Keramaris E., Pechlivanidis I., Samaras G.,** (2015) «Shear Stress Estimation at the Linear Zone Over Impermeable and Permeable Bed in Open Channels», *Desalination and Water Treatment*, Taylor and Francis, 54(8):2181-2189. **DOI:** [10.1080/19443994.2014.933622](https://doi.org/10.1080/19443994.2014.933622)

**A.10. Keramaris E.,** (2015), «Effects of Inclined Impermeable Bed on the Turbulent Characteristics of the Flow using Particle Image Velocimetry», *Turbulence*, Taylor and Francis, 16(6): 540-554. **DOI:** [10.1080/14685248.2015.1016163](https://doi.org/10.1080/14685248.2015.1016163)

**A.11. Keramaris E.,** Pechlivanilis G., (2015), «The influence of transition from vegetation to gravel bed and vice versa in open channels using the PIV Method», *Water Utility*, EWRA Publishing, (10): 37-43.

**A.12. Keramaris E.,** Pechlivanidis G., Pechlivanidis I., (2015), «The different impact of a half-separated gravel and vegetated bed in open channels», *Environmental Processes*, Springer, **DOI:** [10.1007/s40710-015-0103-5](https://doi.org/10.1007/s40710-015-0103-5)

**A.13. Keramaris E.\*,** Prinos P., (2015), «Gravity Currents in a Vegetated Valley of Trapezoidal Shape», *Applied Fluid Mechanics*, IUT Publisher, accepted for publication.

## **B) Publications in Greek Journals (2)**

**B.1. Keramaris E.,** Prinos P., (2006), «Measurement of Discharge with Permeable Broad-Crested Weirs», *Hydrotehnika*, Volume 16, 73-82.

**B.2. Keramaris E.\*,** Prinos P., (2009), «Hot-Film Measurements of Turbulent Flow in an Open Channel with a Permeable Bed», *Hydrotehnika*, 18-19, 3-20.

## **Γ) Publications in Greek Special Issues (1)**

**Γ.1. Keramaris E.\*,** (2014) «Experimental studies of turbulent flow over permeable and impermeable bed», *Advances in Civil Engineering Research, A Collection of Articles on the*

Occasion of the Twentieth Anniversary of the Founding of the Civil Engineering Department, University of Thessaly, 187-198.

#### **Α) Publications in International Conferences (15)**

**Α.1.** Prinos P., **Keramaris E.**, (1998) «Characteristics of Turbulent Flow over a Porous Bed», Proc. of 3<sup>rd</sup> International Conference on Hydrosience and Engineering (ICHE), (full paper available in CD-ROM), Cottbus/Berlin, Germany, September 1998.

**Α.2.** **Keramaris E.**, Prinos P., (2003) «Measurements and Instrumentation in Hydraulic Research», Proc. of 30<sup>th</sup> International Association of Hydraulic Research Congress (IAHR), Theme E, 211-215, Thessaloniki, Greece, August 2003.

**Α.3.** **Keramaris E.**, Prinos P., (2007) «Turbulent flow in an open channel with vegetation», Proc. of 32<sup>th</sup> International Association of Hydraulic Research Congress (IAHR), (Abstract pag.164), (full paper available in CD-ROM), Venice, Italia, July 2007.

**Α.4.** **Keramaris E.**, Prinos P., (2008) «Gravity currents over a vegetated bed», Proc. of International Conference on Fluvial Hydraulics, RiverFlow 2008, 1, 305-310, Cesme-Izmir, Turkey, September 2008.

**Α.5.** **Keramaris E.**, (2008) «Study of distribution time of rainfalls in Greece», Proc. of 8<sup>th</sup> International Hydrogeological Congress, 2, 525-534, Athens, Greece, October 2008.

**Α.6.** **Keramaris E.**, Prinos P., (2009) «Lock-Exchange Experiments : Effect of Vegetation Drag on Gravity Currents», Proc. of 33<sup>th</sup> International Association of Hydraulic Research Congress (IAHR), 1491-1496, Vancouver, Canada, August 2009.

**Α.7.** **Keramaris E.**, Prinos P., (2010) «Gravity Currents in a Valley of Trapezoidal Shape», Proc. of International Conference on Fluvial Hydraulics, RiverFlow 2010, 599-604, Braunschweig, Germany, September 2010.

**Α.8.** Pechlivanidis G., **Keramaris E.**, Pechlivanidis I., Samaras G., (2012) «Measuring the Vorticity Above Vegetated Bed Using PIV Technique», Proc. of International Conference Protection and Restoration of the Environment XI, (Abstract pag.125), (full paper available in CD-ROM), Thessaloniki, July 2012.

**Α.9.** Pechlivanidis G., **Keramaris E.**, Samaras G., (2013) «Estimating of the Shear Stress in Turbulent Boundary Layers in an Open Channel», (full paper available in CD-ROM, paper EMC\_p152), 1<sup>st</sup> EWAs-MED international Conference, Thessaloniki, Greece, April 2013.

**Α.10.** **Keramaris E.**, Pechlivanidis G., (2013) «Comparison Between Permeable and Impermeable Bed in Inclined Open Channels», (full paper available in CD-ROM), ERCOFTAC Symposium on Unsteady Separation in Fluid-Structure Interaction, Mykonos, Greece, June 2013

**A.11. Keramaris E.,** Pechlivanidis G., Pechlivanidis I., Samaras G., (2013) «The Impact of Lateral Walls on the Velocity Profile in an Open Channel using the PIV Method», (full paper available in CD-ROM), 13<sup>th</sup> International Conference on Environmental Science and Technology (CEST 2013), Athens, Greece, September 2013.

**A.12. Keramaris E.,** Pechlivanidis G., Pechlivanidis I., (2014) «Effects of a half-separated (impermeable and permeable) bed on the velocity distribution in open channels», (Abstract pag.211), (full paper available in CD-ROM), Protection and Restoration of the Environment XII International Conference, Skiahtos, Greece, June–July 2014.

**A.13.** Pechlivanidis G., **Keramaris E.,** Pechlivanidis I., (2014) «Transition from permeable to impermeable beds and vice versa in open channels: Effects on the velocity distribution of turbulent flow», Proc. of the International Conference on Fluvial Hydraulics, RiverFlow 2014, 81-87, Lausanne, Switzerland, September 2014.

**A.14. Keramaris E.,** Pechlivanidis G., (2015) «The different impact of rods bundle in an inclined open channel in comparison with other permeable beds», Proc. of 13<sup>th</sup> International Conference on Fluid Mechanics and Aerodynamics (FMA 2015), 119-125, Salerno, Italy, June 2015.

**A.15.** Pechlivanidis G., **Keramaris E.,** Yannopoulos P., Pechlivanidis I., (2015) «Experimental Study of a Turbulent Buoyant Jet in Quiescent or Flowing Ambient Fluid», Proc. of 14<sup>th</sup> International Conference on Environmental Science and Technology, CEST 2015, 1-5, Rhodes, Greece, September 2015.

#### **E) Publicatons in Greek Conferences (14)**

**E.1.** Prinos P., **Keramaris E.,** (1997), «Turbulent flow in an open channel with a porous bed», Proc. of 7<sup>th</sup> National Conference of Hellenic Hydrotechnical Association, 318-325, Patra, October 1997.

**E.2. Keramaris E.,** Prinos P., (2006), «Stream Restoration : Practical Approach and Best Design», Proc. of 10<sup>th</sup> National Conference of Hellenic Hydrotechnical Association, 531-538, Xanthi, December 2006.

**E.3. Keramaris E.,** Prinos P., (2006), «Two-Dimensional Gravity Currents with High Density Difference», Proc. of 10<sup>th</sup> National Conference of Hellenic Hydrotechnical Association, 695-702, Xanthi, December 2006.

**E.4.** Thanasis G., **Keramaris E.,** Zagas T. (2007), «Forest Species for urban and periurban greening establishment according to climatic data», Proc. of 13<sup>th</sup> National Forestry Conference, 246-255, Kastoria, October 2007.

**E.5. Keramaris E.,** Prinos P., (2007), «Numerical Simulation of Floodway Determination», Proc. of 13<sup>th</sup> National Forestry Conference, 533-542, Kastoria, October 2007.

- E.6. Keramaris E.,** Prinos P., Galanidou A., Katogianni M., (2009), «Gravity Currents in a Bed with Vegetation of Rods Bumble», Proc. of 11<sup>th</sup> National Conference of Hellenic Hydrotechnical Association, 603-610, Volos, May 2009.
- E.7. Keramaris E.,** Prinos P., (2010), «Gravity Currents : Effect of Flexible and Inflexible Vegetation», Proc. of 7<sup>th</sup> National Conference «FLOW 2010, Phenomenon of Fluid flows», 233-241, Thessaloniki, November 2010.
- E.8. Keramaris E.,** Petikas I., (2011), «Movement of Gravity Currents in Mountainous Areas with Presence of Plants Species», Proc. of 15<sup>th</sup> National Forestry, (Abstract pag.81), (full paper available in CD-ROM), Karditsa, October 2011.
- E.9. Pechlivanidis G., Keramaris E.,** Pechlivanidis I., (2012), «Influence of Turbulent Characteristics of the Flow in Permeable and Impermeable Bed», Proc. of 12<sup>th</sup> National Conference of Hellenic Hydrotechnical Association, (Abstract pag.125), (full paper available in CD-ROM), Patra, October 2012.
- E.10. Keramaris E.,** Pechlivanidis G., (2012), «Modern Techniques of Measuring Flow Fluid (Particle Image Velocimetry Method)», Proc. of 8<sup>th</sup> National Conference «FLOW 2012, Phenomenon of Fluid flows», (Abstract pag.33-34), (full paper available in CD-ROM), Volos, November 2012.
- E.11. Keramaris E.,** Pechlivanidis G., Liakopoulos A., (2014), «Research Activities of the Department of Civil Engineering T.E. of Alexander Educational Institute of Thessaloniki and of the Department of Civil Engineering of University of Thessaly», Proc. of the 9<sup>th</sup> National Conference «FLOW 2014, Phenomenon of Fluid flows, 596-606, Athens, December 2014.
- E.12. G.I. Pechlivanidis, E. Keramaris,** Y. Savvidis, C. Koutitas, (2015) «Hydraulic Study of a Reservoir or Harbor Laterally to a Main Flow», accepted for presentation in 3<sup>th</sup> joint conference : 13<sup>th</sup> of Hellenic Hydrotechnical Association, 9<sup>th</sup> Hellenic Committee on Water Resources Management and 1<sup>st</sup> Hellenic Water Association «Integrated Management of Water Resources in new era», 10-12 December 2015, Athens, Greece.
- E.13. N. Michalolias, D. Kasiteropoulou, E. Keramaris,** A. Liakopoulos, (2015) «Computational Simulation of the Flow in an Open Channel With Natural Vegetation», accepted for presentation in 3<sup>th</sup> joint conference : 13<sup>th</sup> of Hellenic Hydrotechnical Association, 9<sup>th</sup> Hellenic Committee on Water Resources Management and 1<sup>st</sup> Hellenic Water Association «Integrated Management of Water Resources in new era», 10-12 December 2015, Athens, Greece.
- E.14. I. Karanis, I. Thanopoulos, E. Keramaris,** A. Liakopoulos, (2015) «Design of a Small Hydroelectric Project in Pineios River», accepted for presentation in 3<sup>th</sup> joint conference : 13<sup>th</sup> of Hellenic Hydrotechnical Association, 9<sup>th</sup> Hellenic Committee on Water Resources Management and



1<sup>st</sup> Hellenic Water Association «Integrated Management of Water Resources in new era», 10-12 December 2015, Athens, Greece

## **Z) Submitted Publications (5)**

**Z.1. Keramaris E.,** (2015) «The influence of different type of permeable bed (flexible vegetation and inflexible rods bundle) in gravity currents», submitted for review, Journal of Porous Media, Begell House.

**Z.2. Keramaris E,** Pechlivanidis G., (2015) «Inclined Open Channels : The Influence of Bed in Turbulent Characteristics of the Flow», submitted for review Notes on Numerical Fluid Mechanics and Multidisciplinary Design, Springer.

**Z.3. Keramaris E.,** (2015) «The influence of the kind of the permeable bed and channel width in inclined open channels» submitted for review, ISH Journal of Hydraulic Engineering, Taylor and Francis.

**Z.4. Keramaris E.,** (2015), «Turbulence structure in uniform inclined open channel flow over different rough porous beds», submitted for review, International Journal of Sediment Research, Elsevier.

**Z.5. Keramaris E.,** (2015), «Effects of different porous beds on turbulent characteristics in an open channel above the porous bed», submitted for review, Environmental Fluid Mechanics, Springer.

## **8. Identification of scientific work**

### *8.1. Citations*

In total 57 citations. Specifically:

50 citations in paper : Prinos P., Sofialidis D., Keramaris E., (2003) «Turbulent Flow Over and Within a Porous Bed», Journal of Hydraulic Engineering, 129(9), 720-733, ASCE.

1. Godfrey M.E., Mathisen P.P., (2004) «Mixing and Transport», Water Environment Research, 76(6), 2024-2105.
2. Silva R.A, De-Lemos M.J.S, (2004) «Escoamento turbulento em uma matriz porosa modelada como um arranjo infinito de hastes quadradas» Proceedings of the 10th Brazilian Congress of Thermal Sciences and Engineering -- ENCIT 2004 Braz. Soc. of Mechanical Sciences and Engineering -- ABCM, Rio de Janeiro, Brazil
3. Skogsberg K., (2005) «Seasonal Snow Storage for Space and Process Cooling», Doctoral Thesis, Lulea University of Technology, Sweden.
4. Silva R.A., De-Lemos M.J.S, (2005) «Effect of Medium Morphology on Laminar Flow in a Channel Partially Filled With a Porous Bed», Proceedings of COBEM 2005 18th International

Congress of Mechanical Engineering Copyright © 2005 by ABCM November, Ouro Preto, MG.

5. Goldstein R.J., Ibele W.E., Patankar S.V., Simon T.W, Kuehn T.H., Strykowski P.J., Tamma K.K., Heberlein J.V.R, Davidson J.H, Bischof J., Kulacki F.A., Kortshagen U., Garrick S., Srinivasan V., (2006) «Heat transfer-A review of 2003 literature», *International Journal of Heat and Mass Transfer*, 49(3-4), 451-534.
6. De Lemos M.J.S., Silva R.A., (2006) «Turbulent flow over a layer of a highly permeable medium simulated with a diffusion-jump model for the interface», *International Journal of Heat and Mass Transfer*, 49(3-4), 546-556.
7. Silva R.A., De Lemos M.J.S., (2006) «Escoamento turbulento macroscópico em um canal com um leito poroso formado por hastes solidas, Proceedings of the 11th Brazilian Congress of Thermal Sciences and Engineering -- ENCIT 2006 Braz. Soc. of Mechanical Sciences and Engineering -- ABCM, Curitiba, Brazil.
8. Ahsan M., Cotton M., Stansby P., (2006) «Flow over and within porous bed computed using a macroscopic formulation of a low-Reynolds-number  $k-\epsilon$  turbulence model», *International Ground Water Conference IAHR-GW*, 71-72, Toulouse, France, June 2006.
9. Chandesris M., (2006), «Modelisation des écoulements turbulents dans les milieux poreux et à l'interface avec un milieu libre», PhD Thesis, Université de Paris.
10. White B.L., (2006) «Momentum and mass transport by coherent structures in a shallow vegetated shear flow», PhD Thesis, Massachusetts Institute of Technology, Dept. of Civil and Environmental Engineering,
11. de Lemos M.J.S., (2006) «Turbulence in Porous Media», (Book).
12. Chan H.C., Leu J.M., Lai C.J., (2007) «Velocity and turbulence field around permeable structure: Comparisons between laboratory and numerical experiments», *Journal of Hydraulic Research*, 42(2), 216-226.
13. Chan H.C., Leu J.M., Lai C.J., Jia Y., (2007) «Turbulent flow over a channel with fluid-saturated porous bed», *Journal of Hydraulic Engineering*, 133(6), 610-617.
14. Cardenas M.B., Wilson J.L, (2007) «Dunes, turbulent eddies and interfacial exchange with permeable sediments», *Water Resources Research*, 43(8) : Art.No.WO8412.
15. Rosenweig R., Shavit U., (2007) «The laminar flow field at the interface of a Sierpinski carpet configuration», *Water Resources Research*, 43(10) : Art.No.W10492.
16. Chan H.C., Huang W.C., Leu J.M., Lai C.J., (2007) «Macroscopic modeling of turbulent flow over a porous medium», *International Journal of Heat and Fluid Flow* 28(5) : 1157-1166.
17. Wood B.D., (2007) «Inertial effects in dispersion in porous media», *Water Resources Research*, 43(12) : Art.No.W12S16.

18. Tsujimoto G., Kakinoki T., Hamaura Y., Shigematsu T., Uno K., (2007), «A study on sediment transport inside and outside a permeable submerged breakwater with the Macroscopic turbulence model», *Journal of Coastal Research*, 50, 206-210.
19. De Novaes F.B., Silva R.A., (2007) «procedimento para estimar o valor da porosidade», XIV Congresso Nacional de Estudantes de Engenharia Mecânica, Universidade Federal de Uberlândia Faculdade de Engenharia Mecânica CREEM.
20. Pokrajac D., Manes C., (2008) «Interface between turbulent flows above and within rough porous walls», *Acta Geophysica*, 56(3), 824-844.
21. Aberle J., Koll K., Dittrich A., (2008) «Form induced stresses over rough gravel-beds», *Acta Geophysica*, 56(3), 584-600.
22. Leu J.M., Huang W-C., Chan H.C., (2008) Leu J.M., Chan H.C «Hydraulic characteristics of flow over a highly permeable porous structure», *Proceedings of the World Environmental and Water Resources Congress Honolulu, Hawaii, May 2008*.
23. Suga K., Nishiguchi S., (2009) «Computation of turbulent flows over porous/fluid interfaces», *Fluid Dynamics Research*, 41 (1) : Art. No. 012401.
24. Leu J.M., Chan H.C., Tu L-F., Jia Y., Wang S.Y., (2009) «Velocity distribution of non-Darcy flow in a porous medium», *Journal of Mechanics*, 25(1), 49-58.
25. Pagliara S., Lotti I., (2009) «Surface and subsurface flow through block ramps», *Journal of Irrigation and Drainage Engineering-ASCE*, 135(3), 366-374.
26. De Lemos M.J.S., (2009) «Turbulent flow around fluid-porous interfaces computed with a diffusion-jump model for k and epsilon transport equations», *Transport in Porous Media*, 78(3), 331-346.
27. Almaki W.S.J., Hamdan M.H., Kamel M.T., (2010) «Analysis of flow through layered porous media», 12<sup>th</sup> WSEAS International Conference on Mathematical Models, Computational Techniques and Intelligent Systems, MAMECTIS 10, 182-189.
28. Gualtieri C., (2010) «Numerical simulation of transition layer at a fluid-porous interface», *Modelling for Environment's Sake: Proceedings of the 5th Biennial Conference of the International Environmental Modelling and Software Society, iEMSs*, 1, 399-409.
29. Oliveira R., Silva R.A., (2010), «Simulação Numérica do Escoamento Turbulento em uma Estrutura Porosa Formada por um Arranjo Periódico de Hastes Cilíndricas», VI National Congress of Mechanical Engineering, Campina Grande – Paraíba - Brasil August 2010.
30. Swayne D.A, Yang W., Voinov A.A., Rizzoli A., Filatova T., (2010) «Numerical simulation of transition layer at a fluid-porous interface», *International Environmental Modelling and Software Society (iEMSs) 2010 International Congress on Environmental Modelling and Software Modelling for Environment's Sake, Fifth Biennial Meeting, Ottawa, Canada*.

31. Bledsoe B.P., Carney S.K., Anderson R.J., (2011) «Scale-dependent effects of bank vegetation on channel processes: Field data, computational fluid dynamics modeling and restoration design», Geophysical Monograph Series, 184, 151-165.
32. Zhang J., Dupont P., Hellou M., Benmezroua B., (2011) «3D numerical simulation of particle-fluid flow in open channels with a porous bed», WIT Transactions on Ecology and the Environment 145, 191-202.
33. D'Hueppe A., (2011) « Heat transfer modeling at an interface between a porous medium and a free region», PhD Thesis, Ecole Centrale Paris.
34. Dogan M.O., (2011), «Coupling of porous media flow with pipe flow», PhD Thesis, Institut für Wasserbau der Universität Stuttgart 2011.
35. Thomas L.P., Marino B.M., (2012) «Inertial Density Currents over Porous Media Limited by Different Lower Boundary Conditions», Journal of Hydraulic Engineering 138(2) , 133-142.
36. Nimvari M.E., Maerefat M., El-Hossaini M.K., (2012) «Numerical simulation of turbulent flow and heat transfer in a channel partially filled with a porous media», International Journal of Thermal Sciences 60, 131-141.
37. Elghanduri N.E, (2012) «CFD Analysis for Turbulent Flow within and over a Permeable Bed», American Journal of Fluid Dynamics, 2(5), 78-88.
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### 8.2. Reviewer of International Journals

- 1) Journal of Porous Media, Begell House, 2007-today.
- 2) International Journal of Heat and Fluid Flow, Elsevier, 2009-today.
- 3) Global Nest Journal, Global Nest, 2012-today.
- 4) Fresenius Environmental Bulletin, Parlar Scientific Publications, 2015-today.
- 5) Environmental Processes, Springer, 2015-today.
- 6) Desalination and Water Treatment, Taylor and Francis, 2015 today.
- 7) Environmental Earth Sciences, Springer, 2015-today
- 8) Journal of Hydraulic Engineering, Taylor and Francis, 2015-today.

### 9. Author of Theory and Laboratory Notes

- «**River Mechanics**» (**Laboratory Notes**), Notes for Alexander Technological Educational Institute of Thessaloniki, Department of Civil Infrastructure Engineering, Division of Hydraulic and Environmental Engineering, January 2007.
- «**Hydraulics II**» (**Theory Notes**), Notes for Alexander Technological Educational Institute of Thessaloniki, Department of Civil Infrastructure Engineering, Division of Hydraulic and Environmental Engineering, March 2008.
- «**Hydraulics II**» (**Laboratory Notes**), Notes for Alexander Technological Educational Institute of Thessaloniki, Department of Civil Infrastructure Engineering, Division of Hydraulic and Environmental Engineering, March 2008.

### 10. Administrative Experience at the University of Thessaly

- Supervisor of the students' practical training at the Civil Engineering Dept.
- Substitute Member of the Experts Committee for the technical evaluation of public tenders (Institution Managing Committee Decision 176/8-10-14).

### **11. Member in PhD Thesis Examination Committees**

1. Paschalidis, G., (2015). «Simulation of sediment discharge in a Watershed in the Downstream Dam Area», Thessaloniki, April 2015. Supervisor: Anagnostopoulos P., Professor.

### **12. Member of Committee of Diploma Thesis of Postgraduate Studies of Department of Civil Engineering of University of Thessaly**

1. Tsigardas S-I., (2015). "Recording and Analysis wastewater treatment Plant operation Problems (WWTP-waste water treatment) and Proposals of dissolution", Supervisor: Laspidou C., Assoc. Professor.
2. Tallarou M., (2015). "Techniques and technologies for rainwater harvesting and reuse" 2015 Supervisor: Kanakoudis V., Assoc. Professor.

### **13. Supervisor-Member of Diploma Thesis**

#### **13.1. Supervisor of Diploma Thesis at the Civil Infrastructure Engineering Dept. of the Alexander Educational Institute of Thessaloniki**

1. Dakou I., Pantelidou S., (2005) "Study of rainfall data from meteorological stations of Thessaloniki", September 2005.
2. Baroufa I., Papathanasiou P., (2006) "Pollution and quality of water resources of the Central Macedonia Water District", November 2006.
3. Mantziri I., Mousouli D., (2007) "Study of turbulent flow in an open channel with flexible vegetation bed", October 2007.
4. Balafas G., Saoulidis P., (2007) "Experimental study for the calculation of discharge coefficient and discharge capacity in an open channel with the presence of a weir", November 2007.
5. Argyriou E., Gogou C., (2008) "Experimental study for the evaluation of the effect of vegetation in an inclined channel (lock-exchange)", April 2008.
6. Maggos A., (2008) "Experimental study of Gravity Currents", June 2008.
7. Galanidou A., Katogianni M., (2008) "Effect of rods bundle in gravity currents», November 2008.
8. Martsos E., Papatzilakis P., (2009) "Data analysis of daily rainfalls», February 2009.
9. Karadimas N., Michailidis, P., (2009) "Effect of gravity currents in an open channel with vegetation bed", November 2009.

### 13.2. Supervisor of Diploma Thesis at Civil Engineering Dept. of University of Thessaly

1. Georgiou C., (2015). "Experimental study of turbulent buoyant jet within a still fluid" February 2015 (in progress).
2. Riris I., (2015). "Study of turbulent buoyant jet velocity within a moving fluid in an open channel with free surface". March 2015 (in progress).

### 13.3. Member of Committee of Diploma Thesis at Civil Engineering Dept. of University of Thessaly

1. Azariadi T., (2014). "Comparative Evaluation of river basin districts management plans in Greece under the water framework directive 2000/60/EC", Supervisor: Kanakoudis V., Assoc. Professor.
2. Michalolias N. (2014). "Study of fluid velocity in a channel with free surface under the existence of vegetation using computational fluid mechanics and application of results in flood protection". Supervisor: Liakopoulos A., Professor.
3. Sagia Z., (2015). "Investigation of the impact of groundwater temperature in dimensioning the geothermal open circuit system for domestic use», Supervisor: Kanakoudis V., Assoc. Professor
4. Mousadis i., (2015). "Evaluation of methods of valuation and recovery of the full cost of water in European Union countries". Supervisor: Kanakoudis V., Assoc. Professor.
5. Karanis I., (2015). "Design of a small hydroelectric project on the Pineios River. Supervisor: Liakopoulos A., Professor.
6. Korkana P., (2015). "Optimizing (DMAs) formation in drinking water networks using genetic algorithms and developing prototype algorithms". Supervisor: Kanakoudis V., Assoc. Professor.

## **14. Participation in Organizing Committees**

1. Member of the organizing committee of the Conference «Protection and Restoration of the Environment XII International Conference», June 29<sup>th</sup>–July 4<sup>rd</sup> 2014, Skiahtos, Greece.
2. Vice Chairman of the Conference «2nd EWaS International Conference: “Efficient & Sustainable Water Systems Management toward Worth Living Development”», June 1<sup>th</sup>–4<sup>rd</sup> 2016, Chania, Greece.

## **15. Additional Professional Experience**

- From 08/03/1995 until 02/07/2014 : Individual Civil Engineer
- From 01/01/2004 until 31/12/2013 : External Partner of Company «Hydroactotechniki»
- From 07/06/2007 until 31/12/2009 : External Partner of Company «IETOS»



## **16. General**

- Member of Technical Chamber of Greece since 1995.
- External Research Associate of Department of Civil Engineering (2002-2014).
- Member of Hellenic Hydrotechnical Association since 2007.