

**EVANGELIA D. FARSIROTOU**

*Associate Professor TEI of Thessaly*

*Dr Civil Engineer A.U.TH.*

*MSc Hydraulic Engineering D.U.TH.*

**CIRRICULUM VITAE**

**LARISSA, APRIL 2018**

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## PERSONAL DATA

Name : **Evangelia**  
Last Name: **Farsirotou**  
Father's name : Dimitrios  
Date of Birth : 29 October 1973  
Marital status: Married with two children  
Position: Associate Professor TEI of Thessaly / Dr Civil Engineer  
Scientific area: Hydrodynamic and Flood Prevention Works  
Home Address : Kiprou 97, Larissa  
Technological Educational Institute of Larissa  
Faculty of Applied Sciences  
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## 1. EDUCATION

### 1.1 EDUCATION –SCIENTIFIC EXPERTISE

- 1.1.1** June 1996 –March 2000 **Doctoral Thesis** in the Faculty of Engineering, Department of Civil Engineering, Aristotle University of Thessaloniki.  
**Degree: "Excellent"**.  
The title of the doctoral thesis is: "Numerical and experimental simulation of erosion in rivers" and it is related to the scientific area of Hydrodynamic and Flood Prevention Works.
- 1.1.2** Academic year 1998 – 1999 **Master** in the Department of Civil Engineering/Fluid Mechanics/Hydraulics Division, Democritus University of Thrace, with the title: "Hydraulic Engineering".
- 1.1.3** Academic year 1996 – 1997 Postgraduate program studies in the Department of Civil Engineering/ Environmental and Hydraulics Division, Aristotle University of Thessaloniki.
- 1.1.4** 1991-June 1996 **Diploma of Civil Engineer**, Faculty of Engineering, Department of Civil Engineering, Aristotle University of Thessaloniki.

Degree: Very Good. Graduate project: "Sediment transport".

1.1.5 1991

Graduation from the 3rd General Lyceum of Volos with "Excellent" and succeed to the Faculty of Engineering at the Aristotle University of Thessaloniki, Department of Civil Engineering, with Panhellenic examinations (first choice).

## 1.2 FOREIGN LANGUAGES

1.2.1 1989 Diplome d'etudes Superieures de la langue francaise  
Teaching adequacy. Excellent knowledge.

1.2.2 1988 **Lower.** Very good knowledge.

## 1.3 PC KNOWLEDGE

- Fortran Power Station
- Windows, Office, AutoCAD and GIS. UNIX system, Grapher, Surfer, Origin, Tecplot and Plotmtv.
- HEC-RAS hydrodynamic model simulation (1D and 2D) and HEC-HMS model.
- Computational Fluid Dynamics model FLUENT and Flow 3D.

## 2. PROFESSIONAL EXPERIENCE

### 2.1 PROFESSIONAL WORK

2.1.1 September 2009-today **Associate Professor** in the Department of Civil Engineering, Faculty of Applied Sciences, Technological Educational Institute of Thessaly.

Research area: **"Hydrodynamic and Flood Prevention Works"**

2.1.2 March 2002 - September 2009 Dr Civil Engineer in the Ministry of Interior, Region of Thessaly, Volos  
Supervisor of Public Hydraulic Works Studies, Environmental Impact Studies and supervisor of Public Hydraulic Works (Construction) in the Region of Thessaly.

2.1.3 January 2000 – March 2002 Dr Civil Engineer in the Ministry of Interior, Region of Thessaly, Larissa.  
Supervisor of Public Hydraulic Works Studies, Environmental Impact Studies and supervisor of Public Hydraulic Works

- 2.1.4      October 1996      (Construction) in the Region of Thessaly.  
Licence to practice profession (Technical Chamber of Greece).

## 2.2 PARTICIPATION IN RESEARCH PORGRAMS

- 2.2.1      January 1994 -      Research Assistant  
December 1994:      Department of Civil Engineering, Aristotle University of  
Thessaloniki.  
Research project: “Hydrodynamic and Biogeochemical  
outflows in the Cretan sea: Aegean Sea, Eastern Mediterranean  
gulf”.
- 2.2.2      March 1998 - May      Research Assistant  
1998:                      Department of Civil Engineering, Aristotle University of  
Thessaloniki.  
Research project: “Modeling of renewal rates and water  
quality of enclosed med basins”.
- 2.2.3      1/9/2003-              Participation in the research project: “Reformation- upgrade  
30/6/2004              and modernization of the Undergraduate Studies of the  
Department of Infrastructure Engineering/T.E.I. of Larissa” in  
order to develop educational material for the course:  
“Hydrodynamic and Flood Prevention Works” .
- 2.2.4      2013-2015              Participation as a member of the Main Research Group in the  
Project AGROCLIMA (11SYN\_3\_1913) that is funded by the  
Action “Cooperation 2011-2015” of the Operational  
Programme "Competitiveness and Entrepreneurship” co-funded  
by the European Regional Development Fund (ERDF) and the  
General Secretariat for Research and Technology (Hellenic  
Ministry of Education) titled: “Water resources management of  
coastal agricultural environments-resilience of climate change  
impacts”.
- 2.2.5      2013-2015              Participation as a member of the Main Research Group in the  
Project THALES-DAPHNE (MIS: 375908) of the Operational  
Programme: “Education and lifelong learning, 2007-2013” of  
the Hellenic Ministry of Education and Religious Affairs,  
Culture and Sports co-funded by the European Union and the  
Greek Government, titled: “Investigation of the effects of  
climate change on river delta areas. Application to Pinios river  
delta plain.

## 2.3 TEACHING EXPERIENCE

- 2.3.1** 2009- today Technological Educational Institute of Thessaly,  
Department of Civil Engineering  
**Teaching undergraduate courses:**
- Hydraulics I
  - Hydraulics II
  - Regulations of Rivers and Streams –Flood Prevention Works
  - Hydrodynamic works-Dams (Theory and Laboratory)
  - Computation of Hydraulic works (Theory και Laboratory)
- Excellent evaluation of the educational process by the students.
- The average rating of Mrs. Evangelia Farsiotou is 4.40 with an excellent 5.0.*
- 2.3.2** 2015-today Technological Educational Institute of Thessaly, Department of Civil Engineering.  
**Teaching in the Postgraduate Studies titled: “Advanced Environmental Management Technologies in Engineering Works”.**  
Teaching courses:
- Environmental Management of Natural Rivers
  - Flood Protection and Sustainable Development
- 2.3.3** 2010-2015 Teaching in the **Postgraduate Studies** titled: «Management of Hydrometeorological Hazards» of the Department of Civil Engineering at the University of Thessaly.
- Teaching Course:
- Planning for HydroHazard Prevention and Management
- 2.3.4** 2000-2012 **Lecturer, University of Thessaly, Department of Civil Engineering** with convention (P.D. 407/80).  
Teaching courses:
- Regulations of Rivers and Streams
  - Environmental Fluid Mechanics
- 2.3.5** 2001-2009 Teacher with convention. Department of Infrastructure Engineering, School of Technological Applications, Technological Educational Institute of Larissa  
Teaching course:  
Hydrodynamic and Flood Prevention Works
- 2.3.6** 1997-1999 Teaching Assistant  
Department of Civil Engineering, Aristotle University of Thessaloniki  
Teaching courses:

- River Mechanics I,
- River Mechanics II
- Hydraulic Works I,
- Hydraulic Works II

## 2.4 POSITIONS OF RESPONSIBILITY

<b>2.4.1</b>	2015-today	<b>Director of the Graduate Program</b> « <b>Advanced Environmental Management Technologies in Engineering Works</b> » of the Department of Civil Engineering at the Technological Educational Institute of Thessaly.
<b>2.4.2</b>	29-10-2015 until 31-8-2018	Member of Postgraduate Studies Committee of TEI of Thessaly
<b>2.4.3</b>	2013-today	Quality Assurance System Manager at the Department of Civil Engineering T.E. and Chairman of the Internal Evaluation Group (OEMA) of the Department.
<b>2.4.4</b>	November 2017- today	Scientific Director of the "Higher Education Practice" Program and Chairman of the Exercise Supervision Committee at the Department of Civil Engineering T.E..
<b>2.4.5</b>	1-9-2010 until 31-8-2012 & 8/9/2014-today	Vice Head of the Department of Civil Engineering T.E., Technological Educational Institute of Thessaly.
<b>2.4.6</b>	2015-2017	Member of MODIP TEI of Thessaly and participation in the external evaluation process of TEI / Thessaly  Quality Assurance System Manager in two Departments of Faculty as a member of MODIP
<b>2.4.7</b>	1/1/2013- 31/08//2014	Head of the Department of Civil Engineering T.E., Technological Educational Institute of Thessaly.
<b>2.4.8</b>	2013-2014	Vice Dean of the Faculty, Faculty of Applied Sciences, Technological Educational Institute of Thessaly

### 3. SCIENTIFIC ACTIVITY

#### 3.1 SELECTED PUBLICATIONS IN INTERNATIONAL PEER –REVIEWED JOURNALS

**3.1.1 Evangelia D. Farsirotou**, Johannes V. Soulis and Vassilios D. Dermissis, "A Numerical Method for Two-Dimensional Bed Morphology Calculations", International Journal of Computational Fluid Dynamics, Taylor & Francis, 2002, Vol. 16 (3), pp. 187-200.

<http://www.tandfonline.com/doi/abs/10.1080/10618560290034654>

**3.1.2 Evangelia D. Farsirotou**, Vassilios D. Dermissis and Johannes V. Soulis, "Test Case for Bed Morphology Computations", International Journal of Computational Methods in Sciences and Engineering, IOS Press, 2007, Vol. 7 (2), pp. 105-131.

<https://content.iospress.com/articles/journal-of-computational-methods-in-sciences-and-engineering/jcm00187>

**3.1.3 Evangelia D. Farsirotou** and Spiridon I. Kotsopoulos, "Free-Surface Flow Over River Bottom Sill: Experimental and Numerical Study", International Journal of Environmental Process, DOI 10.1007/s40710-015-0090-6, 30 August 2015, Springer, pp. S133-S139.

<https://link.springer.com/article/10.1007/s40710-015-0090-6>

**3.1.4 E. Farsirotou** and N. Xafoulis, "An experimental study of local scour depth around bridge abutments", International Journal of New Technology and Research, vol 3(9), 2017, pp. 01-10.

[https://www.ijntr.org/download\\_data/IJNTR03090028.pdf](https://www.ijntr.org/download_data/IJNTR03090028.pdf)

**3.1.5 E. Farsirotou** and N. Xafoulis, "Numerical simulation of scour depth variation around vertical wall abutments", World Journal of Research and Review, ISSN: 2455-3956, vol 5(6), 2017, pp. 25-30.

[https://www.wjrr.org/download\\_data/WJRR0506006.pdf](https://www.wjrr.org/download_data/WJRR0506006.pdf)

**3.1.6 Evangelia D. Farsirotou**, "Two-Dimensional numerical simulation of bed level variation around vertical wall abutments", International Journal of Engineering Research and Science, ISSN: 2395-6992, vol 4(11), 2018, pp. 1-9.

<http://www.ijer.com/Paper-January-2018/IJOER-JAN-2018-1.pdf>

**3.1.7 Evangelia Farsirotou** and Athanasios Blantas, "Hydrodynamic numerical simulation and flood risk assessment in a natural river", *International Journal of New Technology and Research*, ISSN:2454-4116, vol 4(2), 2018, pp. 34-41.

[https://www.ijntr.org/download\\_data/IJNTR04020020.pdf](https://www.ijntr.org/download_data/IJNTR04020020.pdf)

## **3.2 SELECTED PUBLICATIONS IN INTERNATIONAL PEER-REVIEWED CONFERENCES PROCEEDINGS**

**3.2.1 E. D. Farsirotou**, J.V. Soulis and V. D. Dermissis, "A Numerical Algorithm for Bed Morphology Equations", *International Conference on European River Development, 16-18 April 1998, Budapest, Hungary*.

**3.2.2 J. V. Soulis**, **E. D. Farsirotou** and V. D. Dermissis, " Bed Formation Due to Floods", *International Conference on Protection and Restoration of the Environment IV, 1-4 July 1998, Sani, Halkidiki, Greece*.

**3.2.3 E. D. Farsirotou**, J.V. Soulis and V. D. Dermissis, "Two - Dimensional, Multi - Grid, Viscous, Free Surface Flow Calculation", *International Conference on Hydraulic Engineering Software, HYDROSOFT 98, 16-18 September 1998, Como, Italy*.

**3.2.4 E. D. Farsirotou**, J.V. Soulis and V. D. Dermissis, "Hydrodynamic modeling of flow around bridge piers", *International Conference on Hydraulic Engineering Software, HYDROSOFT 2000, 12-14 June 2000, Lisbon, Portugal*.

**3.2.5 E. D. Farsirotou**, V. D. Dermissis, J.V. Soulis, "Comparison of bed load equations for scour around bridge abutments", *International Conference on Protection and Restoration of the Environment V, 1-4 July 2000, Thassos, Greece, pp. 363-370*.

**3.2.6 E. D. Farsirotou**, J. V. Soulis, V. D. Dermissis, "Comparison of 2-d and 1-d modeling of non-uniform flow in rivers", *6<sup>th</sup> International Conference on Protection and Restoration of the Environment, 1-5 July 2002, Skiathos Island, Greece, pp. 311-317*.

**3.2.7 E. D. Farsirotou**, J. V. Soulis, V. D. Dermissis, "Numerical Simulation of Two-Layered, Unsteady, Stratified Flow", *International Conference of Computational Methods in Sciences and Engineering 2004 (ICCMSE 2004), 19-23 November 2004, Athens, Greece, pp. 177-180*.

- 3.2.8 E. D. Farsirotou**, J. V. Soulis, V. D. Dermissis, "Numerical simulation of scouring around bridge piers ", *8<sup>th</sup> International Conference on Protection and Restoration of the Environment*, 3-7 July 2006, Chania, Greece.
- 3.2.9 Farsirotou E.D.**, J.V. Soulis and P.G. Lokkas, "Numerical modeling of river bed evolution in abrupt hydraulic changes", *6<sup>th</sup> International Symposium on Environmental Hydraulics*, 23-25 June, 2010, Athens, Greece, Taylor & Francis Group. London, ISBN 978-0-415-58475-3, pp. 311-315.
- 3.2.10 Evangelia D. Farsirotou**, Athanasios J. Klonidis, Johannes V. Soulis, "Three-dimensional numerical simulation of supercritical flow in expansion channel", *13<sup>th</sup> International Conference on Applied Mathematics and Computational Methods in Engineering*, July 16-19, 2013, Rhodes (Rodos) Island, Greece, ISBN: 978-1-61804-200-2, pp. 272-275.
- 3.2.11 E. Farsirotou**, D. Kasiteropoulou and D. Stamatopoulou, "Experimental investigation of fluid flow in horizontal pipes system of various cross-section geometries", *8<sup>th</sup> International Conference on Experimental Fluid Mechanics 2013*, 19-22 November 2013, Kutna Hora, Czech Republic, EPJ Web of Conferences, Volume 67, 2014.
- 3.2.12 E. Farsirotou**, S. Kotsopoulos, N. Xafoulis and G. Sanatsios, "Experimental investigation of non-uniform flow in rivers", *Proceedings of the 12<sup>th</sup> International Conference on Protection and Restoration of the Environment*, June 29 – July 3, 2014, Skiathos island, Greece, ISBN 978-960-88490-6-8, pp. 873-880.
- 3.2.13 S. Kotsopoulos**, P. Nastos, G. Ghionis, K. Lazogiannis, S. Poulos, I. Alexiou, A. Panagopoulos, **E. Farsirotou**, N. Alamanis, "Evaporation and evapotranspiration estimates under present and future climate conditions", *Proceedings of the 12<sup>th</sup> International Conference on Protection and Restoration of the Environment*, June 29 – July 3, 2014, Skiathos island, Greece, ISBN 978-960-88490-6-8, pp. 91-97.
- 3.2.14 K. Lazogiannis**, V. Paraskevopoulou, S. Poulos, X. Teou, S. Kotsopoulos, **E. Farsirotou**, G. Ghionis, I. Matiatos, A. Panagopoulos, D. E. Sifnioti, D. I. Giannouli, K. Tsanakas, M. Dassenakis, P.G. Drakopoulos, F. Botsou, I. Alexiou and J.D. Alexopoulos, "Seasonal variation of water discharge and suspended sediment concentration of the Pinios River (Thessaly) during the hydrological year 2012/13", *Proceedings of the 12<sup>th</sup> International Conference on Protection and Restoration of the*

*Environment, June 29 – July 3, 2014, Skiathos island, Greece, ISBN 978-960-88490-6-8, pp. 325-331.*

**3.2.15** S. Kotsopoulos, P. Nastos, K. Lazogiannis, I. Alexiou, S. Poulos, A. Ilias, A. Panagopoulos, G. Ghionis, I. Matiatos, V. Pisinaras, E. Farsirotou, N. Alamanis, G. Arampatzis, G. Kakagiannis, "Crop water requirements under present and future weather conditions", *Proceedings of the 10th International Congress of the Hellenic Geographical Society, 22-24 October 2014, Thessaloniki, Greece, pp. 1118–1129.*

**3.2.16** S. Kotsopoulos, P. Nastos, K. Lazogiannis, S. Poulos, A. Ilias, A. Panagopoulos, G. Ghionis, I. Matiatos, V. Pisinaras, **E. Farsirotou**, N. Alamanis, "Evaporation, evapotranspiration and crop water requirements under present and future climate conditions at Pinios delta plain", *Proceedings of the 14th International Conference on Environmental Science and Technology, Rhodes, Greece, 3-5 September 2015, pp. 961-965.*

#### **4. REVIEWER IN INTERNATIONAL JOURNALS AND CONFERENCES**

4.1 EWRA Journal European Water (Οκτώβριος 2015).

4.2 Physical Science International Journal (Φεβρουάριος 2018).

4.3 12th International Conference on Protection and Restoration of the Environment, June 29 – July 3, 2014, Skiathos island, Greece.

#### **5. RESEARCH INTERESTS**

Computational fluid dynamics in free-surface flows.

In the scientific area of Hydrodynamic and Flood Prevention Works, and generally in river hydraulics, development of numerical simulation models with finite volume method and finite difference method in order to simulate hydrodynamic and sediment transport parameters in natural rivers, water surface and bed level variation and erosion and deposition in rivers.

Experimental laboratory simulation of hydrodynamic parameters, sediment transport and erosion and deposition conditions.

## **6. PROFESSIONAL PARTICIPATIONS**

Member of Hellenic Hydro-technical Union (E.Y.E.) (2000).

Member of Technical Chamber of Greece (1996).

Member of Hellenic Union of Civil Engineers (1996).

## **7. AWARDS**

IKY scholarship for graduate studies at the Department of Civil Engineering of the Aristotle University of Thessaloniki during the academic year 1995-1996.

Prize from the Technical Chamber of Greece for the performance in studies at the Department of Civil Engineering of the Aristotle University of Thessaloniki in the academic year 1995-1996