



**TECHNICAL UNIVERSITY OF CRETE**  
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## Resume of



**Nikolaos P. Nikolaidis, Ph.D., P.E., QEP**  
Professor and Director of the  
Laboratory of Hydrogeochemical Engineering and Remediation of  
Soils

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## Resume of

# Nikolaos P. Nikolaidis

Revised: May 2022

**Birthdate:** 12/25/58

### Education:

Ph.D.	1987	University of Iowa, Civil and Environmental Engineering
M.S.	1984	University of Iowa, Civil and Environmental Engineering
B.S.	1982	University of Iowa, Civil and Environmental Engineering
Diploma	1980	School of Higher Engineering Technology, Athens, Greece

### Experience:

2013-2017	Deputy Rector for Finance, Planning and Development, TUC
2010-2011	Visiting Scholar, Joint Research Centre-Institute for Environment and Sustainability, Rural, Water and Ecosystem Resources Unit
2008-2010	Director, Environmental Engineering Graduate Program, TUC
2008-2010	Vice Head, Environmental Engineering, TUC
2006-	Professor, Environmental Engineering, Technical University of Crete
2002-2006	Assoc. Professor, Environmental Engineering, Techn. Univer. of Crete
2000-2002	Professor, Depart. of Civil Engineering, Univ. of Connecticut
1998-1999	Director, Environmental Engineering Program, Univ. of Connecticut
1996	Int. Director, Environmental Engin. Program, Univ. of Connecticut
1995	Visiting Scientist, Joint Research Centre, European Union, Ispra, Italy
1994-2000	Associate Professor, Depart. of Civil Engineering, Univ. of Connecticut
1990-1992	Assistant Director, Environ. Res. Institute, Univ. of Connecticut
1990-1992	Coordinator, Environmental Engineering Program, Univ. of Connecticut
1988-1994	Assistant Professor, Depart. of Civil Engineering, Univ. of Connecticut
1987-1988	Research Associate, University of Iowa
1986	Instructor, Kirkwood Community College, Cedar Rapids, Iowa
1982-1987	Research Assistant, University of Iowa

### Professional Societies:

American Society of Civil Engineers (ASCE)  
American Chemical Society (ACS)  
American Geophysical Union (AGU)  
American Water Resources Association (AWRA)  
National Ground Water Association (NGWA)  
X.E. Civil Engineering Honor Society

### Areas of Interest: *"Hydrogeochemical Engineering and Remediation of Soils"*

Soil fertility and soil structure dynamics  
Assessment and remediation of heavy metal contaminated sites  
Deterministic and stochastic modeling of water quality problems including:  
Dynamic modeling of soil structure

C/N/P cycles in soils and freshwaters  
Water quality modeling - watershed studies  
Climate change impacts modeling  
Fate and transport of heavy metals in the environment  
Non-point source pollution of nutrients  
Acidic deposition and eutrophication  
Surface water pollution

#### Honors or Distinctions:

First Prize, WPCF Student Paper Competition, 1987  
Co-organizer of the Acid Precipitation Specialty Conference, May 19-20, 1987, Hartford, CT  
Member of WPCF's Research Committee, 1988-1991  
Member of the Advisory Council for the Center for Environmental Health, Univ. of Connecticut, 1989-1991  
Member of the Technical Committee for the Institute of Water Resources, Univ. of Connecticut, 1989-1992  
Chair on Global Climate Change Session in the 1990 SETAC Annual Meeting, Nov. 11-15, Washington, DC  
Vice-Chairman of the WPCF's Air and Water Interaction Committee, 1990 - 1992  
Invited panelist/reviewer for the review of the level 1 activities of the Global  
Climate Research Program - U.S. Environmental Protection Agency -  
Environmental Research Lab - Corvallis, OR.  
Invited Member of the "Scientific Watershed Evaluation Team", Coastal  
America Project, Sea Grant Advisory Program, U.S. Environmental  
Protection Agency, July, 1991- August, 1992  
Invited Participant to the Workshop on "Reducing Uncertainty in Mass  
Balance Models of Toxics in The Great Lakes - Lake Ontario Case Study", State University of New  
York at Buffalo, Feb. 3-5, 1992  
Co-organizer of "Connecticut's Unfinished Agenda on Water Quality"  
Conference, Ramada Inn, Meriden, Connecticut, Feb. 25, 1992  
Co-organizer of the "First Annual Long Island Sound Research Fund  
Symposium", Bishop Center, UConn, May 28, 1992  
Association of Environmental Engineering Professors  
Member of the Computer Software Manual Committee  
American Water Resources Association, 1993-1996  
Board of Directors (Connecticut) of the New England Section  
State of Connecticut, Department of Environmental Protection  
Member of Technical Advisory Committee on Soil cleanup criteria for the protection of  
groundwater quality  
Co-organizer, 1995 Annual Conference of the New England Section of the American Water Resources Association  
on "Nonpoint Source Pollution in New England", University of Connecticut, Nov. 17, 1995  
National Acid Precipitation Assessment Program - Member of Review Panel of the 1996 Assessment  
Who's Who in Science and Engineering, 3rd Edition (Marquis Who's Who)  
Associate Editor of Ground Water Journal, 1995-1998  
Member of the Technical Advisory Group - Technical Guidance Document for Site  
Investigations and Demonstration of Compliance with the Remediation Standard Regulations  
Member of the Scientific Council of the National Centre for Marine Research, Athens, Greece (Appointed by  
Minister of Development, Mrs. V. Papandreou)  
Member of the Executive Committee of the Environmental Research Institute, Univ. of Connecticut  
Member of the Watershed Modeling Steering Committee, Connecticut Dept. of Environ. Prot.  
Conference Organizer, 31<sup>st</sup> Mid-Atlantic Industrial and Hazardous Waste Conference, Storrs, CT., June 20-23, 1999  
(with C. Erkey and B. Smets)

**Patent No.** US 6,387,276 B1  
**Title:** "Immobilization of inorganic arsenic species using iron".

**Date Issued: May 14, 2002**

**Professional Engineer, State of Iowa, #14225.  
Qualified Environmental Professional, #04980025.**

**1999 Klewin, Inc. Award for Excellence in Teaching**

**1999 LIDA Foundation Award for Excellence in Graduate Research Direction**

**1st Prize Innovative Technology Award, Connecticut Innovative Inc. 2000**

**Technical Chamber of Greece, Environmental Engineer License #88940**

**2020 Award for Excellence in Research, Technical University of Crete**

**2000 -Member of Editorial Board of the Journal "Mediterranean Marine Science"**

**Organizer of the 8<sup>th</sup> International Conference on the Protection and Restoration of the Environment,  
July 2006, Chania, Greece**

**The LIFE05 Project EnviFriendly was selected to be BEST-OF-THE-BEST of LIFE for 2010**

<https://orcid.org/0000-0002-6223-7519>  
[Scopus Author ID: 55400853300](#)

### Summary Publication Record

Journal Peer-Reviewed Publications:	(Last 10 years = 85	/ Total =154)
Peer-Reviewed Paper Proceedings:	(Last 10 years = 52	/ Total =107)
Conference Proceedings - Editor:	(Last 10 years = 0	/ Total =2)
Books:	(Last 10 years = 0	/ Total =1)
Book Chapter:	(Last 10 years = 5	/ Total =14)
Total:	(Last 10 years = 142	/ Total =278)
Dissertation and Thesis:	(Last 10 years = 0	/ Total =2)
Presentations:	(Last 10 years = 48	/ Total =149)

### Summary Funding Record

Funding from European and Greek Sources
56 research programs with total funding 7.300.000 €
Funding from USA Sources
24 research programs with total funding \$2.500.000

### Summary Graduate Advising

PhD Degree Awarded =	12
PhD Degree In progress =	1
M.S. Degree =	35 (18 US + 17 Greece)
Diploma Thesis =	48
Total =	94

### Summary Citation Report (Google Scholar Citations)

Citations	6123 (May 2022) 2873 since 2017
H-Index	48 31 since 2017
H10-Index	126 85 since 2017

**Journal Peer-Reviewed Publications:**

1. Shaojun Qiu; Huiyi Yang; Shuiqing Zhang; Shaomin Huang; Shicheng Zhao; Xingpeng Xu; Wei Zhou; Ying Zhao; Na Yan; Nikolaos Nikolaidis; Peter Christie; Steven A Banwart, 2021. Predicting carbon storage in arable soils combining field measurements, aggregate turnover modeling and climate scenarios, CATENA (In Review).
2. Petousi, I., G. Daskalakis, M.S. Fountoulakis, D. Lydakis, N. P. Nikolaidis, L. Fletcher, E.I. Stentiford, T. Manios. 2021. Application of reclaimed water for cultivation of ‘Crimson seedless’ grapevines, Irrigation Science, (In Review).
3. Yameogo, Jérôme; Panakoulia, Sotiria; Kontronakis, Manolis; Somoda, Iréné; Nikolaidis, Nikolaos; Lykke, Anne Mette; Axelsen, Jørgen, 2021. Simulation of the long-term impact of soil restoration techniques on carbon content and structure of water stable aggregates in West Africa, Journal of Land Degradation and Development (In Review)
4. Nikolaidis NP, G Phillips, S Poikane, G Várбірó, F Bouraoui, A Malagó, MA. Lilli, 2022. Nutrient Targets for Good Ecological Status, Gap Analysis, and Policy Implications, Science of the Total Environment, 813, 20 March, 2022, 151898, <https://doi.org/10.1016/j.scitotenv.2021.151898>.
5. Sullivan, PL; Billings, S; Hirmas, D; Li, L; Zhang, X; Ziegler, S; Murenbeeld, K; Ajami, H; Guthrie, A; Singha, K; Gimenez, D; Duro, A; Moreno, V; Flores, A; Cueva, A; Koop, ; Aronson, EL; Barnard, HR; Keen, RM; Nemes, A; Nikolaidis, NP; Nippert, JB; Richter, D; Robinson, DA; Sadayappan, K; Souza, LFT de; Unruh, M; Wen, H, 2022. Embracing the dynamic nature of soil structure: A key paradigm shift for illuminating the role of life in critical zones of the Anthropocene, Earth Science Reviews, 225 (2022) 103873. <https://doi.org/10.1016/j.earscirev.2021.103873>
6. Paranychanakis NV, G. Giannakis, D. Moraetis, V. A. Tzanakakis, N. Nikolaidis, 2021. Crop has a strong effect on soil carbon sequestration in semi-arid environments, Sustainability 13, 13278. <https://doi.org/10.3390/su132313278>.
7. Skoulikidis N. T., N.P. Nikolaidis, A. Panagopoulos, M. Fischer-Kowalski, S. Zogaris, P. Petridis, V. Pisinaras, D. Efstathiou, T. Petanidou, N. Michalopoulos, M. Mimikou, 2021. The LTER-Greece environmental observatory network: Design and initial achievements, WATER, 2021, 13, 2971. <https://doi.org/10.3390/w13212971>
8. Xuan Yu, Zexuan Xu, Daniel Moraetis, Nikolaos P. Nikolaidis, Frank W. Schwatz, Yu Zhang, Lele Shu, Christopher Duffy, Bingjun Liu 2021. Capturing hotspots of fresh submarine groundwater discharge using a couple surface-subsurface model, Journal of Hydrology, 598, 126356. <https://doi.org/10.1016/j.jhydrol.2021.126356>
9. Josette Garnier, Gilles Billen, Luis Lassaletta Olga Vigiak, Nikolaos P Nikolaidis and Bruna Grizzetti 2021. Hydromorphology of coastal zone and structure of watershed agro-food system are main determinants of coastal eutrophication, *Environ. Res. Lett.* 16 (2021) 023005 <https://doi.org/10.1088/1748-9326/abc777>
10. Lilli, M., Efstathiou, D., Moraetis, D., Schuite, J., Nerantzaki, S.D., Nikolaidis, N.P., 2020. Linking geomorphology with hydrologic and geochemical processes at Koiliaris Critical Zone Observatory, *Water* 2020, 12, 2474; doi:10.3390/w12092474.
11. Kolokotsa D., Lill A.A., Lilli M.A. and Nikolaidis N.P., 2020. On the impact of Nature-Based Solutions on Citizen’s health and well being, Energy and Buildings, 229, 110527. <https://doi.org/10.1016/j.enbuild.2020.110527>

12. Nerantzaki, S., Nikolaidis, NP, 2020. The response of three Mediterranean karstic springs to drought and the impact of climate change, *Journal of Hydrology*, 591, 125296.
13. Maria A. Lilli, Sofia Nerantzaki, Christos Riziotis, Manolis Kotronakis, Dionissis Efstathiou, Dimitris Kontakos, Petros Lymberakis, Manolis Avramakis, Antonis Tsakirakis, Konstantinos Protopapadakis and Nikolaos P. Nikolaidis, 2020. Vision-based decision-making methodology for riparian forest restoration and flood protection using Nature-based solutions, *Sustainability*, 12, 3305; <https://doi.org/10.3390/su12083305>
14. Nerantzaki, S., Nikolaidis, NP., Hristopoulos D., 2020. Estimation of the uncertainty of climate change hydrologic predictions at the Koiliaris Critical Zone Observatory, *Science of the Total Environment*, 717 (2020) 137131
15. Androniki Papafilippaki, Nikolaos P. Nikolaidis, 2020. Comparative study of wild and cultivated populations of *Cichorium spinosum*: The influence of soil and organic matter addition, *Scientia Horticulturae* 261 (2020) 108942, <https://doi.org/10.1016/j.scienta.2019.108942>
16. Martin Musche; Mihai Adamescu; Per Angelstam; Sven Bacher; Jaana Bäck; Heather Buss; Christopher Duffy; Giovanna Flaim; Jerome Gaillardet; George Giannakis; Peter Haase; Luboš Halada; Daniel Kissling; Lars Lundin; Giorgio Matteucci; Henning Meesenburg; Don Monteith; Nikolaos Nikolaidis; Tanja Pipan; Petr Pyšek; Ed Rowe; David Roy; Andrew Sier; Ulrike Tappeiner; Montserrat Vilà; Timothy White; Martin Zobel; Stefan Klotz, 2019. Research questions to facilitate the future development of European long-term ecosystem research infrastructures: a horizon scanning exercise, *Journal of Environmental Management*, 250, 15 November 2019, 109479, <https://doi.org/10.1016/j.jenvman.2019.109479>
17. Yu X, D Moraetis, N. P. Nikolaidis, B. Li, Ch Duffy, and B. Liu, 2019. A coupled surface-subsurface hydrological model to assess groundwater flood risk spatially and temporally, *Environmental Modeling and Software*, 114, 129-139.
18. Nerantzaki, S., Efstathiou, D., Giannakis, G., Kritsotakis, M., Grillakis, M., Koutroulis, A., Tsanis, I., Nikolaidis, NP., 2019. Climate Change Impact on the Hydrologic Budget of a large Mediterranean island, *Hydrological Science Journal*, 64 (10) 1190- 1203 <https://doi.org/10.1080/02626667.2019.1630741>
19. Andrianaki M., J. Shrestha, F. Kobierska, N.P. Nikolaidis and S.M. Bernasconi. 2019. Assessment of SWAT spatial and temporal transferability for a high-altitude glacierized catchment, *Hydrol. Earth Syst. Sci.*, 23, 3219–3232, 2019 <https://doi.org/10.5194/hess-23-3219-2019>
20. Demetropoulou L., M. A. Lilli, I. Petousi, T. Nikolaou, M. Fountoulakis, M. Kritsotakis, S. Panakoulia, G. V. Giannakis, Th. Manios, N. P. Nikolaidis, 2019. Innovative methodology for the prioritization of the Program of Measures for integrated water resources management of the Region of Crete, Greece, *Science of the Total Environment* 672 (2019) 61–70
21. Banwart S.A., N. P. Nikolaidis, Y-G Zhu, C. L. Peacock, and D. L. Sparks, 2019. Soil Functions: Connecting Earth's Critical Zone, *Annu. Rev. Earth and Planet. Sci.*, 47:333-59.
22. Jón Örvar G. Jónsson, Brynhildur Davidsdottir, Nikolaos Nikolaidis, Georgios Giannakis, 2019. Tools for sustainable soil management and agricultural intensification: Soil ecosystem services, EROI and economic analysis, *Ecological Economics*, 157, 109-119.
23. Lilli, M.A., N.P. Nikolaidis, G.P Karatzas, N. Kalogerakis, 2019 Identifying the controlling mechanism of geogenic origin chromium release in soils, *Journal of Hazardous Materials* 366, 169–176.

24. Galliou F., N. Markakis, M.S. Fountoulakis, N. Nikolaidis and T. Manios: 2018. Production of organic fertilizer from olive mill wastewater by combining solar greenhouse drying and composting, *Waste Management*, 75, 305–311.
25. Udias, A., Pastori, M., Malago, A., Vigiak, O., Nikolaidis, N.P., and Bouraoui, F. 2018. Identifying efficient agricultural irrigation strategies in Crete, *Science of the Total Environment*, 633 (2018) 271–284.
26. Tzanakakis V.A., A. Apostolakis, N, P. Nikolaidis, N.V. Paranychianakis, 2018. Ammonia oxidizing archaea do not respond to ammonium or urea supply in an alkaline soil, *Applied Soil Ecology*, 132, 194–198.
27. Morianou, G.G., Kourgialas, N.N., Karatzas, G.P. and Nikolaidis, N.P. 2018. Assessing hydro-morphological changes in Mediterranean stream using curvilinear grid modeling approach - climate change impacts, *Earth Sci Inform*, <https://doi.org/10.1007/s12145-017-0326-2>
28. Olga Vigiak, Stefanie Lutz, Angeliki Mentzafou, Gabriele Chiogna; Ye Tuo; Bruno Majone, Hylke Beck, Ad de Roo, Anna Malagó, Fayçal Bouraoui, Rohini Kumar, Luis Samaniego, Ralf Merz, Christos Gamvroudis, Nikolaos Skoulidakis, Nikolaos Nikolaidis; Alberto Bellin, Vincenç Acuña, Nataša Mori, Ralf Ludwig, Alberto Pistocchi, 2018. Uncertainty of modelled flow regime for flow-ecological assessment in Southern Europe, *Science of the Total Environment*, 615, 1028–1047
29. Petousi, I. Fountoulakis, M., Papadaki, A., Sabathianakis, I., Daskalakis, G., Nikolaidis, N. & Manios, T. (2017). Assessment of Water Management measures through SWOT Analysis : The case of Crete Island , Greece. *International Journal of Environmental Science*, 2, 59-622.
30. Morianou, G.G., N. N. Kourgialas, G. P. Karatzas, N. P. Nikolaidis, 2017. River flow and sediment transport simulation based on a curvilinear and rectilinear grid modelling approach – a comparison study, *Water Science and Technology - Water Supply*, 17 (5) 1325-1334; DOI: 10.2166/ws.2017.031
31. Hasapis D., N. Savvakis, Th. Tsoutsos, K. Kalaitzakis, S. Psychis, N. P. Nikolaidis, 2017. Design of large scale prosuming in Universities The solar energy vision for the TUC campus, *Energy and Buildings*, 141, 39-55.
32. Gamvroudis C., Z. Dokou, N. P. Nikolaidis, G. P. Karatzas, 2017. Impacts of surface and groundwater variability response to future climate change scenarios in a large Mediterranean watershed, *Environmental Earth Sciences*, 76: 385. doi:10.1007/s12665-017-6721-7
33. Apostolakis A., S. Panakoulia, N P. Nikolaidis, N V. Paranychianakis, 2017. Shifts in soil structure and soil organic matter in a chronosequence of set-aside fields, *Soil & Tillage Research*, 174, 113-119
34. Lilli M., E. Syranidou, A. Palliou, N. P. Nikolaidis, G.P. Karatzas, N. Kalogerakis, 2017. Assessing the impact of geogenic chromium uptake by carrots (*Daucus carota*), *Environmental Research*, 152, pp. 96-101.
35. Andrianaki, M., Bernasconi, S.M., **Nikolaidis, N.P.**, 2017. Quantifying the Incipient Development of Soil Structure and Functions Within a Glacial Forefield Chronosequence, In: *Quantifying and Managing Soil Functions in Earth’s Critical Zone: Combining Experimentation and Mathematical Modelling*, *Advances in Agronomy* volume 142 pp. 215-239 (edited by Donald L. Sparks and Steven A. Banwart). Elsevier, Amsterdam <http://dx.doi.org/10.1016/bs.agron.2016.10.013>.
36. Panakoulia S.K., N.P. Nikolaidis, N.V. Paranychianakis, M. Menon, J. Schiefer, G.J. Lair, P. Kram, S.A. Banwart, 2017. Factors Controlling Soil Structure Dynamics and Carbon Sequestration Across Different Climatic and Lithological Conditions, In: *Quantifying and Managing Soil Functions in Earth’s Critical Zone: Combining Experimentation and Mathematical Modelling*, *Advances in Agronomy* volume 142 pp. 241-276 (edited by Donald L. Sparks and Steven A. Banwart). Elsevier, Amsterdam <http://dx.doi.org/10.1016/bs.agron.2016.10.008>.



37. Giannakis, G.V., N.P. Nikolaidis, J. Valstar, E.C. Rowe, K. Moirogiorgou, E. Kotronakis, N.V. Paranychianakis, S. Rousseva, F.E. Stamati, S.A. Banwart, 2017. Integrated Critical Zone Model (1D-ICZ): A Tool for Dynamic Simulation of Soil Functions and Soil Structure, , In: Quantifying and Managing Soil Functions in Earth's Critical Zone: Combining Experimentation and Mathematical Modelling, Advances in Agronomy volume 142 pp. 277-314 (edited by Donald L. Sparks and Steven A. Banwart). Elsevier, Amsterdam <http://dx.doi.org/10.1016/bs.agron.2016.10.009>.
38. Kotronakis, E., Giannakis, G.V., N.P. Nikolaidis, E.C. Rowe, J. Valstar, N.V. Paranychianakis, S.A. Banwart, 2017. Modeling the Impact of Carbon Amendments on Soil Ecosystem Functions Using the 1D-ICZ Model, In: Quantifying and Managing Soil Functions in Earth's Critical Zone: Combining Experimentation and Mathematical Modelling, Advances in Agronomy volume 142 pp. 277-314 (edited by Donald L. Sparks and Steven A. Banwart). Elsevier, Amsterdam <http://dx.doi.org/10.1016/bs.agron.2016.10.010>.
39. Orvar, J., B. Davidsdottir and N.P. Nikolaidis, 2017. Valuation of Soil Ecosystem Services, In: Quantifying and Managing Soil Functions in Earth's Critical Zone: Combining Experimentation and Mathematical Modelling, Advances in Agronomy volume 142 pp.354-384 (edited by Donald L. Sparks and Steven A. Banwart). Elsevier, Amsterdam <http://dx.doi.org/10.1016/bs.agron.2016.10.0XX>.
40. Li, N., M.-Y. You, B. Zhang, X.-Z. Han, S.K. Panakoulia, Y.-R. Yuan, K. Liu, Y.-F. Qiao, W.-X. Zou, N.P. Nikolaidis and S.A. Banwart, 2017. Modeling Soil Aggregation at the Early Pedogenesis Stage from the Parent Material of a Mollisol Under Different Agricultural Practices, In: Quantifying and Managing Soil Functions in Earth's Critical Zone: Combining Experimentation and Mathematical Modelling, Advances in Agronomy volume 142 pp. XXX-XXX (edited by Donald L. Sparks and Steven A. Banwart). Elsevier, Amsterdam <http://dx.doi.org/10.1016/bs.agron.2016.10.0XX>.
41. Banwart, S.A., S. Bernasconi, W. Blum, D. Maia de Souza, F. Chabaux, C. Duffy, M. Kercheva, P. Kram, G. Lair, L. Lundin, M. Menon, N.P. Nikolaidis, M. Novak, P. Panagos, K V Ragnarsdottir, D. Robinson, S. Rousseva, P. de Ruiter, P. van Gaans, L. Weng, T. White, B. Zhang, 2017. Soil Functions in Earth's Critical Zone – key results and conclusions, , In: Quantifying and Managing Soil Functions in Earth's Critical Zone: Combining Experimentation and Mathematical Modelling, Advances in Agronomy volume 142 pp. XXX-XXX (edited by Donald L. Sparks and Steven A. Banwart). Elsevier, Amsterdam <http://dx.doi.org/10.1016/bs.agron.2016.10.0XX>.
42. Rousseva, S., M. Kercheva, T. Shishkov, G.J. Lair, N. Nikolaidis, D. Moraetis, P. Krám, S. Bernasconi, W. Blum, M. Menon and S.A. Banwart, 2017. *Soil Water Characteristics of European SoilTrEC Critical Zone Observatories*, In: Quantifying and Managing Soil Functions in Earth's Critical Zone: Combining Experimentation and Mathematical Modelling, Advances in Agronomy volume 142 pp. XXX-XXX (edited by Donald L. Sparks and Steven A. Banwart). Elsevier, Amsterdam <http://dx.doi.org/10.1016/bs.agron.2016.10.0XX>.
43. Nerantzaki Sofia D., Georgios V. Giannakis, Nikolaos P. Nikolaidis, Ierotheos Zacharias, George P. Karatzas, Ioannis A. Sibetheros, 2016. Assessing the impact of climate change on sediment loads in a large Mediterranean watershed, *Soil Science Journal*, 181 (7), pp306-314.
44. Moussoulis, E; Zacharias, I, **Nikolaidis, N.P.** 2016. Water balance assessment, hydrological, rainfall-runoff, hydraulic and sediment transport modeling in Upper Acheloos River catchment, *Desalination and Water Treatment*, 57 (25) pp 11540-11549, doi: 10.1080/19443994.2015.1102769 .
45. Malago, A., D. Efstathiou, F. Bouraoui, N.P. Nikolaidis, M. Franchini, G. Bidoglio and M. Kritsotakis, 2016. Regional scale hydrologic modeling of a karst-dominant geomorphology: the case study of the island of Crete, *Journal of Hydrology*, 540, 64-81.

46. Dokou, Z., V. Karagiorgi, G. P. Karatzas, N. P. Nikolaidis, N. Kalogerakis, 2016. Large scale groundwater flow and hexavalent chromium transport modeling under current and future climatic conditions: The case of Asopos River Basin, *Environ Sci Pollut Res*, 23 (6) pp. 5307-5321. DOI 10.1007/s11356-015-5771-1
47. Varouchakis, E. A., G. V. Giannakis, M. A. Lilli, E. Ioannidou, N. P. Nikolaidis, and G. P. Karatzas, 2016. Development of a statistical tool for the estimation of riverbank erosion probability, *Soil (EGU)*, 2, 1–11.
48. Van Leeuwen, J.P., D. Moraetis, G. Lair, J. Bloem, **N. P. Nikolaidis**, L. Hemerik, P.C. de Ruiter, 2015. Ecological soil quality affected by land use and management on semi-arid Crete, *SOIL Discuss.*, 2, 187-215, doi:10.5194/soild-2-187-2015, 2015
49. Papafilippaki A., Paranychianakis N. and **Nikolaidis N.P.**, 2015. Effects of soil type and municipal solid waste compost as soil amendment on *Cichorium spinosum* (stamnagathi) growth, *Scientia Horticulturae*, 195, 195–205.
50. Tzoraki O. I. Karaouzas, L. Patrolecco, N. Skoulikidis and N. P. Nikolaidis, 2015. Polycyclic Aromatic Hydrocarbons (PAHs) and Heavy Metal Occurrence in Bed Sediments of a Temporary River, *Water, Air, & Soil Pollution*, Volume 226, Issue 12 (doi:10.1007/s11270-015-2671-4)
51. Dokou Z., V Karagiorgi, G. P. Karatzas, N. P. Nikolaidis, N. Kalogerakis, 2015. Large scale groundwater flow and hexavalent chromium transport modeling under current and future climatic conditions: the case of Asopos River Basin, *Environ Sci Pollut Res*, DOI 10.1007/s11356-015-5771-1
52. Petousi, I, Fountoulakis, M.S, Saru, M-L., Nikolaidis, N., Fletcher, L., Stentiford, E.I., Manios, T. 2015. Effects of reclaimed wastewater irrigation on olive (*Olea europaea* L. cv. 'Koroneiki') trees, *Agricultural Water Management*, 160, 33–40.
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9. Nikolaidis, N.P., H. Heng, R. Semagin, and J. Clausen, 1996. Nonpoint Source Studies of Nutrients in Glaciated Soils of Connecticut: Volume I: Executive Summary, Volume II: Nutrient Dynamics in Base Flow and Episodic Runoff in a Multi-Land Use Watershed, Volume III: Modeling of the Hydrochemical Response of a Watershed to Nutrient Loadings. Technical Report ERI-96.03, Environmental Research Institute, The University of Connecticut, Storrs, CT
10. J. Lackovic, Nikolaidis, N.P., P. Chheda and R. Carley, 1996. An Evaluation of Batch Leaching Procedures for Heavy Metal Mobility Estimates From Soils. Technical Report ERI-96.04, Environmental Research Institute, The University of Connecticut, Storrs, CT
11. Nikolaidis, N.P., K. Guillard, P. Chheda, J. Lackovic, and R. Carley. 1996. Biosolids utilization evaluation program: Nitrogen study results. Technical Report ERI-96.02, Environmental Research Institute, University of Connecticut, Storrs, CT.
12. Nikolaidis, N.P., J. Lackovic, and P. Chheda. 1996. Biosolids utilization evaluation program: Heavy metal study results. Technical Report, Environmental Research Institute, University of Connecticut, Storrs, CT.
13. Hu, H-L, Nikolaidis, N.P., Grasso, D., 1996. Inhibition of Nickel Precipitation by Gluconate: Kinetic Studies. Technical Report ERI-96.01, Environmental Research Institute, University of Connecticut, Storrs, CT.
14. Hu, H-L, and Nikolaidis, N.P., 1995. Development of treatment techniques for maximizing the recovery of nickel from metal finishing wastewaters. Technical Report ERI-95.03, Environmental Research Institute, University of Connecticut, Storrs, CT.
15. Mattuck, R., and Nikolaidis, N.P., 1994. The Role of Wetlands in the Immobilization of Chromium Contamination. Technical Report ERI-94.05, Environmental Research Institute, University of Connecticut, Storrs, CT.
16. Nikolaidis, N.P. and Anderson, M.S. 1994. Development of a Framework for Chemical Speciation Based Water Quality Criteria for Copper, Final Report, Contract No.14-08-0001-62009, US Geological Survey, Washington, D.C.
17. Heng, H. and Nikolaidis, N.P., 1994. Nonpoint Source Studies of Nutrients in Glaciated Soils of Connecticut: Modeling Studies, Volume I: Watershed - Nutrient Transport and Transformation (Watershed - NTT) Model Development, Technical Report submitted to, Department of Environmental Protection, Long Island Sound Office, Hartford, CT.
18. Semagin, R., Nikolaidis, N.P., and Heng, H. 1994. Nonpoint Source Studies of Nutrients in Glaciated Soils of Connecticut: Field Studies, Technical Report submitted to, Department of Environmental Protection, Long Island Sound Office, Hartford, CT.



19. Scherer, M.M., and Nikolaidis, N.P., 1994. Equilibrium Studies of Chromate Adsorption on Glacio-Fluvial Aquifer Sediments, Technical Report ERI-94.02, Environmental Research Institute, University of Connecticut, Storrs, CT.
20. Asikainen, J.M., and Nikolaidis, N.P., 1993. Redox Capacity Analysis and Heavy Metal Sequential Extraction for Site Assessment of Subsurface Contamination, ERI Report ERI-93.05, Environmental Research Institute, University of Connecticut, Storrs, CT.
21. Nikolaidis, N.P. , Heng, H., Shen, H., and Hu, H., 1993. Nutrient Transport and Transformation Model: Version 1.0. ERI Report ERI-93.03, Environmental Research Institute, University of Connecticut, Storrs, CT.
22. Miller, D.R. and Nikolaidis, N.P. 1993. The Long Island Sound Atmospheric Deposition Project, Report submitted to the Connecticut Department of Environmental Protection, Grant No. CWF-225-R, State of Connecticut, Hartford, CT.
23. Shen, H. and Nikolaidis, N.P., 1992. User's Manual for Chromium Model - Version 1.0 (CrM-UZ and CrM-GW), ERI Report ERI-92.01, Environmental Research Institute, University of Connecticut, Storrs, CT.
24. Nikolaidis, N.P. and Shen, H., 1992. Modeling of the Fate and Transport of Chromium in the Environment, ERI Report ERI-92.02, Environmental Research Institute, University of Connecticut, Storrs, CT.
25. Miller, D. R., Nikolaidis, N.P., Carley, R, Chen, H. Geigert, M., Heitert, J.,and Tarbox, S. 1991. Quality Assurance Plan for Measurement of Atmospheric Dry Deposition to Long Island Sound, ERI Report No. 91-06, Environmental Research Institute, University of Connecticut, Storrs, CT.
26. Mukhopadhyay, N., Bendel, R.B., Nikolaidis, N.P., and Chattopadhyay, 1991. Efficient Sequential Sampling Strategies for Long-Term Environmental Monitoring. Report to Institute for Environmental Health, University of Connecticut, Storrs, CT.
27. Geigert, M.A., Miller D.R., and Nikolaidis, N.P. 1991. Estimated Dry Deposition to a Hardwood Forest in North Central Connecticut. Report to the Dry Deposition Project, Environmental Research Institute, University of Connecticut, Storrs, CT.
28. Schnoor, J.L., Georgakakos, K.P., Lee, S., Nikolaidis, N.P., and Rajaram, H., 1990. Lakes Resources at Risk to Acidification in the Northeastern United States: Direct-Delayed Response Project. Final Report, Cooperative Agreement CR-812329, U.S. EPA, ERL, Corvallis, Oregon.
29. Nikolaidis, N.P., Nikolaidis, V.S., and Schnoor, J.L. 1989. Assessment of Episodic Acidification in the Sierra Nevada, California. Final Report, Contract No. A732-036, California Air Resources Board, Sacramento, CA.
30. Nikolaidis, N.P. 1987. Criteria for Calibration of the DDRP Watersheds Using the ETD Model. Civil and Environmental Engineering, Univ. of Iowa, Technical Note No. CEE-ARRG-87.01.
31. Nikolaidis, N.P. and Schnoor, J.L. 1987. Comparison of the Short and Long-Term Responses of the DDRP Special Interest Watersheds Using the ETD Model. Civil and Environmental Engineering, Univ. of Iowa, Technical Note No. CEE-ARRG-87.02.
32. Nikolaidis, N.P. 1986. Estimation of Daily Potential Evaporation. Civil and Environmental Engineering, Univ. of Iowa, Technical Report No. CEE-ARRG-86.02.
33. Nikolaidis, N.P., Georgakakos, K.P., Schnoor, J.L. 1986. Modeling Short and Long Term Impacts of Acid Precipitation Using the Enhanced Trickle-Down Model: Lake Woods Case Study. Civil and Environmental Engineering, Univ. of Iowa, Technical Report No. CEE-ARRG-86.03.

34. Nikolaidis, N.P., Schnoor, J.L., Georgakakos, K.P. 1986. Modeling Short and Long Term Impacts of Acid Precipitation Using the Enhanced Trickle-Down Model: Lake Panther Case Study. Civil and Environmental Engineering, Univ. of Iowa, Technical Report No. CEE-ARRG-86.04.
35. Nikolaidis, N.P., Schnoor, J.L., Georgakakos, K.P. 1986. Modeling Short and Long Term Impacts of Acid Precipitation Using the Enhanced Trickle-Down Model: Clear Pond Case Study. Civil and Environmental Engineering, Univ. of Iowa, Technical Report No. CEE-ARRG-86.05.
36. Nikolaidis, N.P., Rajaram, H., Schnoor, J.L. and Georgakakos, K.P. 1986. Enhanced Trickle-Down Model Description. Civil and Environmental Engineering, Univ. of Iowa, Technical Report No. CEE-ARRG-86.01.
37. Nikolaidis, N.P., Nayar, N. and Valentine, R.L. 1983. Activated Carbon Adsorption Research: Application and Verification of the Homogeneous Surface Diffusion Model for a High Molecular Weight Compound. Univ. of Iowa technical report.

**Funded Research:**

▪ **Εκτελούμενα Ερευνητικά Προγράμματα στην Ελλάδα**

1. **LENSES – PRIMA** – Learning and action alliances for Nexus Environments in an uncertain future, 1/5/2021 – 30/4/2024, Principal Investigator: Nikolaos Nikolaidis, Funding: PRIMA 2020 – 246.000 €
2. **eLTER-PLUS** - European long-term ecosystem, critical zone and socio-ecological systems research infrastructure – PLUS (Ευρωπαϊκή ερευνητική υποδομή για μακροχρόνια έρευνα οικοσυστημάτων, κρίσιμης ζώνης και κοινωνικά-οικονομικά συστήματα PLUS), 1/2/2020 -31/1/2025, Principal Investigator: Nikolaos Nikolaidis, Funding: H2020-INFRAIA 01-2018-2019 - 217731 €
3. **eLTER-PPP** - eLTER Preparatory Phase Project (eLTER Πρόγραμμα Φάσης προετοιμασίας), 1/2/2020 - 31/1/2025, Principal Investigator: Nikolaos Nikolaidis, Funding: H2020-INFRAIA 02-2019-2020 - 64500 €
4. **WaysTUP** - Value chains for disruptive transformation of urban biowaste into biobased products in the city context (Αλυσίδες αξίας για την διασπαστική μετάλλαξη των αστικών βιολογικών αποβλήτων σε προϊόντα βιολογικής προέλευσης στο πλαίσιο της πόλης), 1/9/2019 – 31/8/2023, Principal Investigator: Nikolaos Nikolaidis, Funding: H2020-SFS-2018-1 - 425625 €.
5. **NBS Koiliaris** – Integrated study for the protection of the riparian forest and flood control of Koiliaris River (Ερευνητικό έργο για την ολοκληρωμένη προστασία του παρόχθιου δάσους και την αντιπλημμυρική προστασία του ποταμού Κοιλιάρη), 1/8/2018-31/7/2020, Principal Investigator: Nikolaos Nikolaidis, Funding: Region of Crete – 180000 €.
6. **ELVALHALKOR** - Support to SYGAPEZ for in-situ remediation, 1/7/2016-30/6/2022, ELVAL 310.000 €
7. **Advance-eLTER** - Advancing the European Long-Term Ecosystem, critical zone and socio-ecological Research Infrastructure towards ESFRI, 1/1/2017 - 31/12/2017, H2020-INFRADEV-02-2016 - 15.000 €
8. **ThinkNATURE** - Development of a multi-stakeholder dialogue platform and Think tank to promote innovation with Nature based solutions, 1/12/2016 - 30/11/2019, H2020-SC5-10-2016 - 488.125 €
9. **Aquaman** - Innovative solutions to climate change adaptation and governance in the water management of the Region of Crete 1/1/2016 - 28/2/2017, European Economic Area -435.000 €
10. **eLTER** - European Long-Term Ecosystem and socio-ecological Research Infrastructure 1/6/2015 - 31/5/2019, H2020-INFRAIA-2014-2015 - 177.406 €
11. **Hellenic Ministry of Environment** - Water Resources Management Plan of Crete, 1/3/2013 - 31/12/2014, - **45.000 € + VAT**
12. LIFE2011 -CHARMS - Chromium in Asopos groundwater system: Remediation technologies and measures 1/9/2011 - 31/8/2015, LIFE-Environment (with NTUA) - 295,269 € (with Kalogerakis and Karatzas)
13. LIFE 2011 -CONDENSE - The CONDENSE managing system: Production of novel fertilizers from manure and olive mill wastewater, 1/9/2011 - 31/8/2015, LIFE-Environment - 119,538 € (with Kalogerakis)
14. THALIS - CYBERSENSORS - High frequency monitoring system for integrated water resources management of rivers , 1/10/2011 - 31/8/2015, Hellenic Ministry of Education - 600,000 €
15. HERAKLEITOS - EFSTATHIOU - Integrated Intelligent Environmental Monitoring Systems 1/1/2011 - 31/12/2014 Hellenic Ministry of Education - 45,000 €

16. HERAKLEITOS-PAPAFILIPAKI - Agricultural soil improvement using heavy metal containing compost from municipal solid wastes: Impacts on vegetables 1/1/2011 - 31/12/2014 Hellenic Ministry of Education - 45,000 €
17. EOX-DEDISA – Improving the Reclamation and Reuse of the Organic Fraction of Municipal Solid Wastes in Agricultural and Environmental Applications European Economic Space and Ministry of Economy (50-50%), Total 2,200,000 € - TUC Funding 260,000 €
18. EOX-KKK – Innovation Centre of Crete, European Economic Space and Ministry of Economy (50-50%), Total 1,800,000 € - Nikolaidis Funding 120,000 €
19. WFD-Chania – Integrated Water Management Plan for Keritis and Koiliaris River Basins, Region of Crete, 60,000 €
20. DEYA-Chania, 11/2009 – 2/2010 DEYAX 16,500 €
21. SoilTrec – Soil Transformations in European Catchments, 12/2009 – 11/2014 EU-FP7, Total funding 7,000,000 € - TUC Funding 705,400 €
22. HELLAS GOLD – Modeling of groundwater flow and geochemical transport of Mavres Petres and Mantem Lakkos Mines 12/2008 – 6/2009 Hellas Gold SA 59,500 €
23. CHROME – Sustainable management of water resources, Oropos Municipality – Study of the extent of hexavalent chromium contamination 6/2008 – 12/2008, Oropos Municipality, 33,300
24. AQUA – Sustainable management of water resources, Afantou Municipality, Rhodes, 7/2008- 4/2009, DEYAA – Afantou, 35,700 €
25. MIRAGE, Mediterranean Intermittent River Management, 1/2008 -12/2011, EU– FP7 Project, 226,812 €
26. SoilCritZone– Soil sustainability in Europe as deduced from investigation of the Critical Zone, 8/2007 – 7/2009, EU– FP6 Project SSA, 133,800 €
27. AquaTrain – Geogenic chemicals in groundwaters and soils: Research Training Network, 1/2007 -12/2010, EU– Marie Curie Research Training Network (FP6 Project), 193,490 €
28. Environmental Friendly Technologies for Rural Development, 12/1/05 – 30/4/09, E.U. – LIFE Environment, Συνολική Χρηματοδότηση 2,3 εκ. € - \$362,000 (TUC).
29. Water Resources CyberManagement of temporary Rivers, 1/1/06 – 31/12/07, Υπουργείο Ανάπτυξης – ΓΓΕΤ (Συνεργασία με ΗΠΑ), \$74,500
30. tempPonds- Hydrogeochemistry of Mediterranean Temporary Ponds 1/4/05 – 31/7/06 LIFE-NATURE (Subcontract to NCMR), 30.000 €
31. tempQsim, Temporal Waters Modeling, 1/11/02 – 30/4/06, EU – 5<sup>th</sup> Framework, 107.000 €
32. ΗΡΑΚΛΕΙΤΟΣ – Αποκατάσταση υδάτων και ρυπασμένων εδαφών από αρσενικό με χρήση ριζισμάτων σιδήρου: Διερεύνηση διεργασιών. 8/11/02 – 31/12/06 Υπουργείο Παιδείας, 35.200 €
33. Greek-Hungarian Collaboration on Arsenic Technologies, 1/7/02-30/6/04 Υπουργείο Ανάπτυξης - ΓΓΕΤ, 9.000 €

34. ΕΠΕΑΕΚ – Αναμόρφωση Προπτυχιακού Προγράμματος Σουδών ΜΗΠΕΡ 1/4/02 – 31/12/05 Υπουργείο Παιδείας, 305.400 € ΕΚΤ και 49.800 € ΕΤΠΑ
35. EUROCAT, Development of DPSIR Framework of Analysis, 1/1/2001- 31/12/2003, EU – 5<sup>th</sup> Framework, 140.000 € (With NCMR)
36. JRC-ISPRA, Application of the Water Framework Directive , 1/1/2001 – 31/12/2002, EU – JRC-ISPRA, 78.000 € (With NCMR)
37. Acheloos River Project, 1/1/2000 – 31/12/2001 Hellenic Ministry of Agriculture, 140.000 € (With NCMR)

Στα 18 χρόνια στο Πολυτεχνείο, ο Dr. Νικολαΐδης ήταν επιστημονικός υπεύθυνος σε 32 ερευνητικά προγράμματα με ύψος χρηματοδότησης της έρευνας του ιδίου περίπου 5.600.000 € .

▪ **Εκτελεσθέντα Προγράμματα στις ΗΠΑ**

1. Demonstration of the arsenic remediation technology in Bangladesh, 6/1/00 - 5/31/05, National Institute of Health and Environmental Services (Columbia University), \$150,000.
2. Environmental sampling and analysis at Sikorsky , Stratford, CT, 6/15/98 -5/31/01, SIKORSKY, United Technologies Corporation, \$281,145
3. Characterization of arsenic contamination in the Winthrop Landfill and groundwater, 9/1/98- 5/31/00, United Technologies Corporation, \$67,000
4. A portable method to determine chloride concentration on roadway pavement,9/1/98 – 8/31/00, New England Transportation Consortium, \$212,739 (with N. Garrick)
5. Contribution of copper-based architectural material to copper concentrations and toxicity in stormwater runoff, 3/1/98-1/1/2001, International Copper Association and Copper Development Association, \$319,213
6. Long-term pilot scale demonstration of the AsRT technology for in-situ remediation of arsenic contaminated groundwater, 2/1/98 - 1/31/2000, United Technology Corporation, \$45,000
7. Hydraulic characterization of the groundwater aquifer at National Chromium, Inc., 6/1/97 - 5/31/99, Department of Energy (MIT), \$68,000
8. Development of a novel technology for in-situ immobilization of inorganic arsenic species using zero valence metals and dissolved inorganic chemicals, 1/1/97 - 5/31/98, Critical Technologies Program, United Technologies Corporation, and APEX Environmental Inc., \$125,800
9. Evaluation of the extent and mobility of arsenic at the vicinity of the Winthrop landfill, 7/1/95 - 11/30/96, United Technologies Corporation, \$45,000 (with R.J. Carley)
10. Biosolids utilization evaluation program, 8/1/94 - 7/31/95, Camp Dresser & McKee Inc., \$162,650, (with R.J. Carley).
11. Measurement of environmental mobility of heavy metals in unsaturated soils, 3/1/94 - 2/28/95, CT Department of Environmental Protection, \$121,640, (with R.J. Carley).
12. Measurement of environmental mobility of heavy metals in soils: Winthrop Landfill, Maine Case study, 5/1/94 - 4/30/95, United Technologies Corporation, \$50,000, (with R.J. Carley).

13. Nonpoint source studies of nutrients in glaciated soils of Connecticut, Extension grant 4/1/1994-3/31/1995, Connecticut Department of Environmental Protection, \$61,887, (with J. Clausen)
14. Development of treatment techniques for maximizing the recovery of nickel from metal finishing wastewaters, /1/93-9/30/94, EPA's Pollution Prevention Research and Development Center, \$17,000, (with S. Suib)
15. Development of a framework for chemical speciation based water quality criteria for various heavy metals, 9/1/93-8/31/94, U.S. Geological Survey, \$20,025
16. Effectiveness of wetlands in immobilizing chromium contamination, 7/1/93-6/30/94, Industrial Affiliates Program, Environmental Research Institute, \$18,000
17. Nonpoint source studies of nutrients in glaciated soils of Connecticut, 7/1/1991-3/31/1994, Connecticut Department of Environmental Protection, \$131,163, (with J. Clausen and D.R. Miller)
18. Groundwater transport studies of chromium contamination in glaciated soils in Connecticut, 7/1/1991, 6/30/1994, Connecticut Department of Environmental Protection, \$66,000, (with G. Robbins, and J. Fenton)
19. Modeling the fate and transport of chromium in the unsaturated zone of Connecticut soils, 9/1/1990-8/31/1991, Connecticut Department of Environmental Protection, \$18,861
20. Measurement of atmospheric dry deposition to Long Island Sound, 7/1/1990-6/30/1992, Connecticut Department of Environmental Protection, \$140,287 + \$180,440 (two year extension 1992-1994)
21. Study of northcentral Connecticut snowpack and associated meltwaters aquatic impacts, 1/4/88 - 31/8/89 Environmental Research Institute, \$17,400
22. Study of atmospheric deposition in the Broad Brook Experimental Watershed, 1/4/88 - 31/8/89, Environmental Research Institute, \$19,000 (with D. Miller and J.D. Lin)
23. Evaluation of the ETD Freshwater Acidification Model, 1/5/88 - 30/4/89, Battelle Pacific Northwest Laboratories, \$10,000
24. Assessment of freshwater acidification in the Sierra Nevada Range of California, 1/8/87 - 31/5/89, California Air Resources Board, \$100,000 (with J.L. Schnoor, and K.P. Georgakakos)

Συνολικά, ήταν υπεύθυνος σε 24 ερευνητικά προγράμματα στις Η.Π.Α. με ύψος χρηματοδότησης περισσότερο από δύομιση εκατομμύρια δολάρια.

## Graduate Advising

### Technical University of Crete

#### PhD Degree

1. Tyrovola Konstantina, 2006
2. Tzoraki Ourania, 2007
3. Stamati Foteini, 2012
4. Papafilipaki Androniki, (2015)
5. Gamvroudis Christos, (2016)
6. Kotronakis Manolis, (2018)
7. Lilli Maria, (2018)
8. Nerantzaki Sofia (2020)
9. Efstathiou Dionissis, (expected 2003)

#### M.S. Degree

1. Xatzitheoharous Kostas, 2005
2. Stamati Foteini, 2006
3. Paliatziki Athanasia, 2006
4. Peroulaki Elpida, 2006
5. Andrianaki Maria, 2007
6. Valta Katerina, 2008
7. Vozinaki Eirini, 2009
8. Gamvroudis Christos, 2009
9. Kalogerakou Vicki 2009
10. Lilli Maria, 2011
11. Kassiotaki Eliza, 2011
12. Christodoulou Andri, (2012)
13. Grammatikakis Giorgos, (2012)
14. Fraggia Tassoula, (2012)
15. Nerantzaki Sofia 2014
16. Panakoulia Sotiria 2014
17. Poulou Maria 2020

#### Διπλωματικές

1. Κατερίνα Τσιτωνάκη, 2002
2. Δέσποινα Θεοδωροπούλου, 2002
3. Γιάννης Μαρκόνης, 2003
4. Νίκη Φραγγεσκάκη, 2003
5. Ευθυμία Τσολάκη, 2003
6. Γεώργιος Καλλιάνης, 2003
7. Κώστας Χαηθεοχάρους, 2003
8. Φωτεινή Σταμάτη, 2004
9. Αθανασία Παλιατζίκη, 2004
10. Ελπίδα Περουλάκη, 2004
11. Μαργαρίτα Τζάλη, 2004
12. Ασπασία Σκουλίδη, 2004
13. Αμαλία Κοκκινάκη, 2005
14. Κωνσταντίνα Γεωργακοπούλου, 2005
15. Θεοδοσία Φουντούλη, 2005
16. Ελένη Καλογιάννη, 2006
17. Βαγγέλης Βουτσής, 2006
18. Ιφιγένεια Καπιτανίδου, 2006
19. Θωμάς Νικολακάκης, 2006

20. Ανδρέας Κωτούλας, 2006
21. Βασίλης Γιαννακόπουλος, 2007
22. Εύη Κουσέρη, 2007
23. Λένα Κορδολαίμη, 2007
24. Χριστίνα Γιώτη, 2008
25. Νίκος Χαλκιάς, 2008
26. Κώστας Καραμπουρνιώτης, 2008
27. Βαγγέλης Κουτρομπίνας, 2008
28. Αντρέας Νικολιδάκης, 2008
29. Σταύρος Ναυροζίδης, 2008
30. Άντρη Χριστοδούλου, 2008
31. Magdali Maria, 2012
32. Kaliakatsou Tzina, 2012
33. Vavlas Nikos, 2013
34. Gountanis Grygoris, 2013
35. Aldakos Theodoros, 2014
36. Kontogiorgos Giannis 2014
37. Dimitriou Alexandros 2015
38. Kouri Amaryllis 2015
39. Papageorgaki Margarita 2016
40. Papadaki Sofia 2017
41. Topalogliou Aggeliki 2018
42. Dimitra Pappa, 2018
43. Eleni Kritidou, 2019
44. Ioulia kKoroptsenko, 2021
45. Antonia Maragkaki 2021
46. Panos Valakos 2021

## Technical University of Crete

### Undergraduate Courses

1. Εφαρμογές στα Περιβαλλοντικά Μοντέλα (7<sup>ο</sup> Εξάμηνο)
2. Διαχείριση Υδατικών Πόρων (8<sup>ο</sup> Εξάμηνο)
3. Εισαγωγή στην Επιστήμη του Μηχανικού Περιβάλλοντος (1<sup>ο</sup> Εξάμηνο-Συνδιδασκαλία με Χ. Τσούτσο)

### Graduate Courses

1. Εισαγωγή στα περιβαλλοντικά Μοντέλα (Συνδιδασκαλία με Ν. Παρανυχιανάκη)
2. Ειδικά Θέματα Περιβαλλοντικής Χημείας (Συνδιδασκαλία με Ε. Ψυλλάκη)
3. Integrated Water Resources Management – Summer Training Course (Οργάνωση μαθήματος και συνδιδασκαλία με άλλα μέλη ΔΕΠ)

## University of Connecticut

### Master's Degree Advising (with thesis):

Total completed:            Major advisor=18            Associate advisor=17

### Ph.D. Advising:

Total completed :            Major advisor=4            Associate advisor=12

## List of Advisees With Thesis Option

### Thesis Completed

1. *Zafar Hyder, M.S.*, Spring of 1989



- Thesis Title: A study of northcentral Connecticut snowpack and associated meltwaters aquatic impacts
2. *Christopher Ecsedy, M.S.*, Spring of 1990  
Thesis Title: Modeling the effects of global climatic variability on freshwater watersheds
  3. *Hsien-Lun Hu, M.S.*, Spring of 1991  
Thesis Title: Global climate change studies: The role of input uncertainty on the hydrologic response of freshwater watersheds
  4. *Jay Asikainen, M.S.*, Spring of 1993  
Thesis Title: Redox capacity analysis and heavy metal sequential extraction for site assessment of subsurface contamination
  5. *Michelle Scherer, M.S.*, Spring of 1994  
Thesis Title: Equilibrium studies of chromate adsorption on glacio-fluvial aquifer Sediments
  6. *Hsiu-Min Chen, M.S.*, Spring of 1994  
Thesis Title: Estimation of wet and dry nitrogen and phosphorous atmospheric loading to the Long Island Sound
  7. *Mike Anderson, M.S.*, Spring of 1994  
Thesis Title: Copper speciation in the Quinnipiac river
  8. *Kay Saldi, M.S.*, Summer of 1994  
Thesis Title: Nitrogen transport to an agricultural stream
  9. *Rosemary Mattuck, M.S.*, Summer of 1994  
Thesis Title: The role of wetlands in the immobilization of chromium contamination
  10. *Randy Semagin, M.S.*, Spring 1996  
Thesis Title: Base flow and episodic variability of nutrients in a mixed land use watershed
  11. *Huiying Shen, Ph.D.*, Spring of 1996  
Thesis Title: Modeling of multicomponent transport in groundwater and its application to chromium system
  12. *Hock Heng, Ph.D.*, Spring of 1996  
Thesis Title: Modeling of the hydrochemical response of a watershed to nutrient loadings
  13. *Hsien-Lun Hu, Ph.D.*, Spring of 1996  
Thesis Title: Inhibition of nickel precipitation by gluconate: Kinetic considerations
  14. *Jeff Lacovic, M.S.*, Spring of 1996  
Thesis Title: An evaluation of batch leaching procedures for heavy metal mobility estimates from soils
  15. *Terry Nelson, M.S.*, Spring of 1996  
Thesis Title: Modeling toxic heavy metals in the Naugatuck river
  17. *Lucas Hellerich, M.S.*, Summer of 1999
  18. *Rony Bruel, M.S.*, Spring of 1999

Thesis Title: Evaluation of remedial alternatives of Lead from Shooting Range soil.

19. *Brian Boulanger, M.S.*, Spring of 2001

20. *Shelly Seymour, M.S.*, Spring of 2000

21. *Jing Chen, M.S.*, Spring of 2000

22. *Lucas Hellerich, PhD.*, Summer of 2003

#### Teaching Load at TUC: 3 courses/year

**Graduate Courses:** Modeling – Homogenization course  
Chemistry – Homogenization course  
Modeling of biogeochemical processes in the coastal zone  
Advanced topics in environmental chemistry

**Undegraduate Courses:** Introduction to environmental modeling  
Surface water system modeling

#### Teaching Load at UCONN: 3 courses/year

**Graduate Courses:** CE - 320 Wetland's Science and Engineering  
CE - 327 Numerical Analysis for Civil Engineers  
CE - 389 Chemical Transport Phenomena  
CE - 390 Environmental Chemistry - I  
CE - 405 Environmental Systems Modeling

**Undegraduate Courses:** CE - 267 Engineering Hydrology  
CE - 297 Fluid Mechanics  
CE - 294 Environmental Systems Analysis

#### Short Courses:

Grasso, D. and Nikolaidis, N.P., *Aquatic Chemistry*, The University of Connecticut, Bishop Center, September 23-24, 1991

Nikolaidis, N.P., *Fate and Transport of Heavy Metals in the Environment*, The University of Connecticut, Bishop Center, February 25-26, 1991

Nikolaidis, N.P., Clausen, J., and Barclay, J., *Wetlands: Regulations and Impacts Assessments*, The University of Connecticut, Bishop Center, August 26, 1991

Nikolaidis, N.P. and Robbins, G.A., *Heavy Metals: Site Assessment and Remediation*, The University of Connecticut, Bishop Center, March 2-3, 1992

Nikolaidis, N.P., *Modeling of Chromium Contamination*, Univof Connecticut, August 25, 1992

Nikolaidis, N.P., *Heavy Metal Site Assessment and Remediation*, Remediation short course for United Technologies Corporation, November 9-11, 1993

Nikolaidis, N.P. and Robbins, G.A., *Heavy Metals: Site Assessment and Remediation*, The University of Connecticut, Bishop Center, March 25-26, 1997

**Ad Hoc Reviews for Journals and Granting Agencies:**

U.S. Environmental Protection Agency

- Reviewer of Global Climate Change Research Program
- Proposal Reviewer of 1996 Grant Application Program
- Proposal Reviewer of 1997 Grant Application Program

U.S. Geological Survey - Reviewer of Proposal 105

National Science Foundation - Proposal Reviewer

New York State Center for Hazardous Waste Management - SUNY Buffalo

Connecticut Department of Environmental Protection - Review of the Intergover. Task Force on Monitoring Water Quality

National Acid Precipitation Assessment Program - Member of Review Panel of the 1996 Assessment, 1997 Final Review

*Journals*

- Environmental Science and Technology
- American Society of Civil Engineers - Environmental Division
- Research Journal of Water Environment Federation
- Water Resources Research
- Water Resources Bulletin
- Water, Air and Soil Pollution
- Aquatic Sciences
- Carbon 14 Journal
- Global Biogeochemical Cycles
- Journal of Soil and Water Conservation
- Ground Water
- Journal of Soil Contamination
- Hazardous Waste and Hazardous Materials
- Environmental Engineering Science

*Associate Editor of Ground Water Journal 1995 - 1998*

**University of Connecticut**

**1. Departmental Committees**

1. Promotion, Tenure and Reappointment Committee - 96-97 FY - Chairman
2. Promotion, Tenure and Reappointment Committee - 98-99 FY
3. CEE DEPARTMENT Executive Committee - 98-99
4. Undergraduate Affairs Committee
5. Prepare proposal for an Environmental Area of Concentration in
6. Civil Engineering 1991-1992
7. Organize Aquatic Research Center Proposal 1992-1993
8. Environmental Seminar 1988-1993
9. External Relations Committee 1992-1993
10. Curricula & Courses Committee 1989-1990
11. AAUP Liaison 1989-1990
12. Open House Committee 1989-1990
13. XE Faculty Advisor 1990-1993
14. Environmental Search Committee 1990-1991
15. Hydrology/Water Res. Search Committee 1990-1991

- 16. CEE Interim Head Search Committee 1996-1997
- 17. Hydrology/Water Res. Search Committee 1997-1998

**2. School of Engineering Committees:**

- 1. Environmental Engineering Field of Study
  - Director 1998 - 1999
    - Organized and passed BSE in Environmental Engineering
    - Implemented Minor in Environmental Engineering
    - Handled graduate affairs of the program
    - Prepared advertising material for graduate and undergraduate programs
    - Coordinated and implemented a web page for the Program
  - Environmental Engineering Field of Study Coordinator 1990-1992
  - Adm. Environmental Field of Study 1989-1990
  - Stirling Committee - member - establish direction of the program
  - Admissions committee - member - review of all applications
  - Curriculum committee - chair - review of the graduate program
  - NU Distinguished Professor Search Committee
- 2. Environmental Research Institute
  - Environmental Search Committee
  - Strategic Plan review committee
  - Executive Board Member 1996-present
  - ERI/DEP Research Council
  - ERI Executive Committee
  - Assistant Director
  - Executive Board Member
  - DEP/ERI Council
- 2. School of Engineering
  - Graduate Affairs Committee
  - Undergraduate Committee

**3. University Activities/Committees:**

- 1. Center for Environmental Health, Univ. of Connecticut
  - Advisory Board Member
  - Proposal Review
- 2. Institute of Water Resources, Univ. of Connecticut
  - Technical Committee Member
  - Proposal Review
- 3. Student Union Addition Committee - chair of the faculty subcommittee
- 4. Department of Marine Science - Chemical Oceanography Search Committee
- 5. Graduate School - Alternative Energy ad hoc Committee

*Consulting Services Provided by  
N. P. Nikolaidis*

- 1. Services Provided to: Mr. Raymond D'Argenio, West Hartford, Connecticut**  
Environmental Impact Assessment: Water Quality Effects on the Scotland Road Pond, Windham, Connecticut due to a proposed development, May 1988.
- 2. Services Provided to: Lakeville Campowners Association, Lakeville, Maine**  
Investigate the effects of forest clearcutting on the water quality of the lakes within the Lakeville area, March - July, 1990.
- 3. Services Provided to: Beck and Eldergill, Attorneys at Law, Manchester, CT**  
Review of the CTDEP permit for water diversion and NPDES permit for the Construction of the Mall at Buckland Hills, Manchester, CT, October, 1988.
- 4. Services Provided to: Department of Civil and Environmental Engineering, The University of Iowa**  
Modify a hydrologic and biogeochemical watershed model for the evaluation of the effects of acidic deposition to lakes in northeastern US, 1989-90.
- 5. Services Provided to: Oak Ridge National Laboratory, Environmental Division, Oak Ridge, Tennessee**  
Review of the program: "Comparison of Lake Acidification Models," 1989.
- 6. Services Provided to: Jackson, Harris and Burlingame, Attorneys at Law, Danielson, CT**  
Comparative Environmental Impacts Analysis of stream crossing Alternatives on the water quality and nature of a stream wetland, 1990.
- 7. Services Provided to: U. S. Environmental Protection Agency**  
Review of the level 1 activities of the Global Climate Research Program - Environmental Research Lab - Corvallis, OR.  
Member of the "Scientific Watershed Evaluation Team", Coastal America Project, Sea Grant Advisory Program, U.S. Environmental Protection Agency, July, 1991- August, 1992  
Reviewer of the workshop "Reducing Uncertainty in Mass Balance Models of Toxics in The Great Lakes - Lake Ontario Case Study", SUNY Buffalo, Feb. 3-5, 1992, Funded by EPA and the Great Lakes Research Program
- 8. Services Provided to: National Center for Marine Research, Athens, Greece**  
Design and execution of Zebra Mussels Disinfection Studies: Agrinio City Distribution System, Greece, 1989-1991.
- 9. Services Provided to: Apex Environmental, Inc., MD**  
Hazardous waste remediation, 1994.
- 10. Services Provided to: TRC, CT**  
Heavy metal modeling, 1994.

11. **Services Provided to: UTRC, CT**  
Heavy metal retraining course, 1993.
12. **Services Provided to: LandTech Remedial Inc., CT**  
Heavy metal site assessment and remediation short course, 1994.
13. **Services Provided to: Town of Granby, MA**  
Counseling the Board of Health on their Sanitary Landfill issues, 1994.
14. **Services Provided to: Environmental Risk Limited, CT**  
Heavy metal leaching studies, 1994.
15. **Services Provided to: National Chromium Inc., CT**  
Heavy metal leaching studies, 1996.
16. **Services Provided to: HRP Associates, Plainville, CT**  
Heavy metal leaching studies, 1998.
17. **Services Provided to: Baker Environmental, PA**  
Zinc remedial alternatives selection, 1999
18. **Services Provided to: Loureiro Engineering Associates, Plainville, CT**  
Zinc remedial alternatives selection, 1998