

FANI SAKELLARIADOU

Curriculum Vitae

I. Correspondence

Dept of Maritime Studies, University of Piraeus
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II. Personal

Born in Athens. Resident of Athens. Mother of two children.

III. Current Position:

- Professor in Geochemical Oceanography, Dept of Maritime Studies, University of Piraeus, Greece.
- Director of the Oceanography and Marine Geochemistry Laboratory, Dept of Maritime Studies, University of Piraeus, Greece.
- Director of the MSc course "Sustainability and Quality in Marine Industry", Dept of Maritime Studies, University of Piraeus, Greece.
- Titular Member and Project Coordinator at Division VI, Chemistry and the Environment of the International Union of Pure and Applied Chemistry, a member of the International Council of Scientific Unions.
- Chairwoman of the Scientific Supervisory Board of the Zanneio Experimental High School, Piraeus, Greece.

IV. Previous positions

- Head of the Maritime Studies Dept, University of Piraeus, Greece (2014-2018).
- Member of the University of Piraeus Senate Board (2014-2018).
- University departmental coordinator for the Erasmus+ programme (2013-2018).

V. Education:

1. Ph.D. in Marine Geochemistry (Applied Geochemistry Research Group, Royal School of Mines, Imperial College, University of London, U.K., 1983-1987).
2. MPhil in Oceanography (University of Athens, GR., 1981-1984).
3. Diploma of Imperial College (D.I.C.) in Organic Synthesis, (Imperial College, University of London, U.K., 1981-1983).
4. BSC in Chemistry (Dept of Chemistry, University of Athens, GR., 1976-1981).

VI. Main research interests

- Geochemical studies in marine sediments and more specifically about heavy metals, dissolved organic carbon and humic material (using mainly ICP-MS, FT-IR spectroscopy, Uv-Vis spectroscopy, fluorescence spectroscopy).
- Marine placer deposits.

- Sea-bed mining.
- Pollutant studies in harbor sediments.
- Micro-plastics in the marine environment
- Sustainable development/management of the coastal zone.
- Environmental impacts of shipping.
- Marine geospatial planning.
- Blue growth.

VII. Publications

Sakellariadou F and Antivachis D, 2019. Assessment of the effect of a devastating fire on terrestrial soil and coastal marine sediment in East Attica, Greece. *Submitted to the 47th IUPAC World Chemistry Congress*, 5-12 July, Paris, Fr.

Sakellariadou F and Papavasileiou K, 2018. Placer mineral concentrations in the N.E Aegean continental shelf and its economic perspectives. *The Geological Society, GSL Marine Minerals: A New Resource for the 21st Century*. 31 Oct. – 1 Nov. 2018, London, U.K.

Sakellariadou F and Antivachis D, 2018. Optical properties of DOM in Koumoundourou lake. *12th Hellenic Symposium of Oceanography and Fisheries*, 30/5-3/6, Corfu, Gr.

Sakellariadou F and Sarris G, 2018. Future and complexities of arctic shipping. *12th Hellenic Symposium of Oceanography and Fisheries*, 30/5-3/6, Corfu, Gr.

Kostopoulou E and Sakellariadou F, 2018. Linking coastal spatial planning and DPSIR frameworks for the conservation of marine natural resources. *12th Hellenic Symposium of Oceanography and Fisheries*, 30/5-3/6, Corfu, Gr.

Sakellariadou F and Antivachis D, 2018. Spectroscopic studies of dissolved organic matter in a heavily modified Mediterranean and ancient coastal lake. *Environ Earth Sci* 77: 272. <https://doi.org/10.1007/s12665-018-7446-y>

Sakellariadou F and Antivachis D, 2018. ICOMGG Geochemical evaluation of metal content and fluorescent characterization of Dissolved Organic Matter in lake sediments. *World Academy of Science, Engineering and Technology, International Journal of Marine and Environmental Sciences*, 12(3), *20th International Conference on Oceanography, Marine Geology and Geochemistry*, 22 – 23/3 2018, Singapore. <http://waset.org/pdf/books/?id=86326&pageNumber=124>

Sakellariadou F, 2017. Geospatial quantification of pollutant loads in Piraeus port and the surrounding area, Greece. *Fresenius Environmental Bulletin*, vol. 26, No 1/2017, 177-182.

Sakellariadou F, 2017. Invited introductory speech to the special session "The southern coasts of Attica, two months after the sinking of the Aghia Zoni II", *7th National Conference "Management and Improvement of coastal zones"*, 22/11/2017. Athens.

Sakellariadou F, 2017. 17th NAVIGATOR 2017 – The Shipping Decision Makers Forum. HELLAS LIBERTY, Piraeus 03/11/2017

Kostopoulou E and Sakellariadou F, 2017. The relation of coastal spatial planning and blue growth and the resolution of the arising conflicts in a coastal area. *Maritime Transportation and Harvesting of Sea Resources. IMAM 2017, International Maritime Association of the Mediterranean*, 9-11 October 2017, Lisbon, Portugal.

Sakellariadou F and Antivachis D, 2017. Geochemical studies in a heavily modified Mediterranean coastal lake. *MESAEP*, 4-6 October 2017, Rome, Italy.

Sakellariadou, F, 2017. Fluoroscopic characterization of the aqueous extracts of DOM in a coastal, urban lake. *23rd International Symposium on Environmental Biogeochemistry*, Palm Cove, Cairns, 25-29 Sept 2017.

Sakellariadou F, 2017. Environmental issues of shipping industry. *Meeting "Ports, Shipping, Logistics and Economic Development"* organized by The International Propeller Clubs with the scientific partnership of SRM, Piraeus 24-25th April 2017.

Sakellariadou, F., 2017. Humification Index values of the dissolved organic matter extracted from sediment samples collected from the shoreline of Koumoundourou lake. *PANGAEA* <https://doi.org/10.1594/PANGAEA.880168>

Sakellariadou F, 2016. Geochemical study of the mobile metal fraction and the fluorescent properties of dissolved organic matter present in marine sediments from the Messiniakos gulf at the southern part of Greece. *Regional Studies in Marine Science*. Reference RSMA132, DOI INFORMATION: 10.1016/j.rsma.2016.05.002, available online: 12 May 2016.

Sakellariadou F, 2016. Seatropolis and blue growth. Proceedings of the 7th Hellenic Conference on Port works. 28/11-1/12/ 2016. Athens, Gr.

Sakellariadou F, 2016. Geochemical investigations in ports. *International Conference on Coasts, Ports and Marine Structures*. 31/10—2/11 2016, Tehran, Iran.

Sakellariadou F, 2016. Geospatial assessment of the pollutant load trend in a coastal marine area. *13th International Conference on Protection and Restoration of the Environment*, 3-8/7, 2016, Mykonos island, Greece.

Sakellariadou F, 2015. Geospatial quantification of pollutant loads in ports. *18th International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region. MESAEP*, September 26-30, Crete, Greece.

Sakellariadou F, 2015. Maritime pollutants in shipping and commercial European ports based on relevant physical and biogeochemical environmental parameters (IUPAC Technical Report). *Pure and Applied Chemistry*, 87 (11-12), pp.1151–1166, ISSN (Online) 1365-3075, ISSN (Print) 0033-4545, DOI:10.1515/pac-2014-0804.

Sakellariadou F, and Kostopoulou E, 2015. Marine ecotourism from the perspective of blue growth. *7th iConEc Conference Competitiveness and Stability in the Knowledge-based Economy*, March 20-21, Craiova, Romania.

Sakellariadou F, 2014. Geochemical and Statistical Studies in Regard to Placer Mineral Exploration in the Continental Shelf. *BIT's 3rd Annual World Congress of Ocean-2014 (WCO-2014)*, Dalian, China, 16-18 October.

Sakellariadou F, 2014. The concept of marine ecotourism: Case study in a Mediterranean island. *The International Journal of Climate Change: Impacts and Responses*. Volume 5, 2014, www.on-climate.com, ISSN 1835-7156

Sakellariadou F, 2014. The concept of marine ecotourism: Case study in a Mediterranean island. *Sixth International Conference on Climate Change: Impacts and Responses and the Climate Change: Impacts and Responses knowledge community*, University of Iceland, Reykjavik, 27-28 June 2014.

Sakellariadou F, 2014. Task Group Chair. Management of maritime pollutants in shipping and commercial European ports based on relevant physical and biogeochemical environmental parameters. *Chemistry International*, vol. 36, issue 2 (Mar 2014), pp. 20-2, ISSN 1365-2192.

Steyl I, Sakellariadou F & Bray S, 2013. "Quantification of Pollution levels in harbour Sediments –a GeoSpatial Perspective", Tahoka Press, p. 122.

Sakellariadou F, 2013. Current technologies for the marine biofouling control. *ICABE*, 2-4 October, New York, USA.

Sakellariadou F, 2013. Application of geochemical and statistical approach to assess metal contamination in marine sediments. *Goldschmidt 2013*, 25-30 August 2013, Florence, Italy, *Mineralogical magazine*, vol. 77, n. 5, p. 2116.

Sakellariadou F, 2013. The use of multivariate and geostatistical analysis for the evaluation of quality of coastal marine environment. *CIESM 2013*, 28 October – 1 November 2013, Marseille, France.

Sakellariadou F, 2013. Evaluation of anthropogenic pollution in harbor areas. *International Journal of Maritime, Trade and Economic Issues*, Vol. 1, Issue 1, pp. 71-80.

Sakellariadou F, 2012. Management of Maritime Pollutants in European Ports. *Chemistry International, IUPAC*, vol.34, No 1.

Sakellariadou F, 2012. Evaluation of anthropogenic pollution in harbor areas. International Conference on Applied Business and Economics, *ICABE 2012*, 11-13 October 2012, Nicosia, Cyprus.

Sakellariadou F, 2012. Tools for the geospatial assessment of pollutant loads in ports and harbors as well as the respective environmental impacts. *THALATTA 2012*, 22-23 September 2012, Santorini, Gr. (in Greek)

Sakellariadou F, 2012. Spectroscopic studies on sedimentary organic material. *Goldschmidt 2012*, 24-30 June 2012, Montreal, Canada.

Sakellariadou F, 2012. Studies of the DOM aqueous extracts from coastal marine sediments. *European Geosciences Union, General Assembly 2012*, 22-27 April 2012. Vienna, Austria.

Sakellariadou F, 2012. The carbon footprint of a car travelling from Athens to Venice. *10^o Hellenic Symposium on Oceanography and Fisheries*, 7-11 May 2012, Athens.

Sakellariadou F, 2012. Heavy metal and dissolved organic matter studies in Piraeus port sediments. *International Journal of Oceans and Oceanography (IJOO)*, vol. 6(1), pp. 27-43.

Sakellariadou F, 2011. Application of agglomerative hierarchical clustering on metal content data sets of Piraeus and Lavrio port sediments. *16th International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region (MESAEP)*, 24-27 September 2011, Ioannina, Greece.

Vournazou A-M and Sakellariadou F, 2011. The total cost of the use of antifouling coatings on ships/ hulls: a case study. *16th International Symposium on*

Environmental Pollution and its Impact on Life in the Mediterranean Region (MESAEP), 24-27 September 2011, Ioannina, Greece.

Sakellariadou F, 2011. Geochemical studies in Piraeus port sediments, Greece. Goldschmidt 2011, 14-19/8/2011, Prague, *Mineralogical Magazine, Journal of Mineral Sciences*, p.1783.

Sakellariadou F, 2011. Fluorescence characterization of organic matter released from Messiniakos gulf sediments, SW Peloponnese, Gr. *V International Conference on Integrated Management of Coastal Zones, CARICOSTAS 2011*, "Integration for the sustainability of coastal ecosystems", 11-13/5/2011, Santiago, Cuba.

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Sakellariadou F and Senesi N, 2010. Fluorescence characterization of organic matter released from Piraeus port sediments., *Ocean Carbon and Biogeochemistry Workshop*, Scripps Institution of Oceanography, 19-22 July, La Jolla, CA, USA.

Sakellariadou F and Haralambides L, 2010. Cd, Ni and Pb vertical distribution in sediment cores from the Elefsis gulf (Attiki-Greece). *Fresenius Environmental Bulletin*, vol. 19 (9), 1848-1853.

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Sakellariadou F, 2010. Climate change and maritime industry. *Proceedings of the 39th CIESM Congress*, 10-14/5/2010, Venice, Italy.

Haralambides L, Ladakis E and Sakellariadou F, 2010. The distribution of Fe and Mn in sediments from the Elefsis gulf (Greece). *Proceedings of the 39th CIESM Congress*, 10-14/5/2010, Venice, Italy.

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Sakellariadou F, D'Orazio V, Senesi N, 2009. Fluorescence characterisation of organic matter released from Messiniakos gulf sediments. *15th International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region (MESAEP)*, 7-11/10, 2009, Bari, Italy.

Ladakis M, Haralambides L and Sakellariadou F, 2009. Cd, Ni and Pb vertical distribution in sediment cores from the Elefsis Gulf (Attiki, Greece). *15th International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region (MESAEP)*, 7-11/10, 2009, Bari, Italy, p.170.

Sakellariadou F, 2009. Preliminary geochemical studies in sediments from the Messiniakos gulf (SW Peloponnese). *Proceedings of the 9th Hellenic Symposium of Oceanography and Fisheries*, 13-16 May 2009, 266-271, (in Greek).

Sakellariadou F, 2009. Environmentally sound port management. *Proceedings of the Silver Jubilee of the International Port Conference IPC 25 years in Seaports and Maritime Transport "Retrospectives and Perspectives*, 8-10 February, Alexandria – Egypt

Sakellariadou F, 2008. Environmental management of marinas with economic benefits. *Proceedings of the 4th Hellenic Conference "Coastal zone management and improvement"* organized by the Port Engineering Laboratory of the National Technical University of Athens, 23-28 September, Mytilini, (in Greek).

Haralambides L and Sakellariadou F, 2008. A pollutant dispersion model for the Piraeus, Lavrio and Rafina ports and the Elefsis gulf. *Fresenius Environmental Bulletin*, vol. 17, No 10a, 1607-1614.

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Sakellariadou F and Haralambides L, 2004. Metal Partitioning in Rafina port sediments. *Proceedings of the 20th International Annual Port Conference*, 11-13/1/2004, Alexandria – Egypt.

Sakellariadou F and Haralambides L, 2004. Lead, Zinc, Copper and Iron Partitioning Spatial Distribution in Lavrio port sediments. *Proceedings of the 37th CIESM Congress*, 7-11/6/2004, Barcelona, vol. 37, p. 239.

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VIII. Work experience

1. from 01/2011 - present: Professor in Geochemical Oceanography, Dept of Maritime Studies, University of Piraeus, 21 Gr. Lambraki and Distomou st, 18532 Piraeus (Greece).
2. 3/2012-6/2013: marine geochemist expert-consultant, Hydrex, Antwerpen, Belgium.
3. 11/2002 - 12/2010: Associate Professor in Oceanography, Dept of Maritime Studies, University of Piraeus, 40 Karaoli and Dimitriou st, 185 32 Piraeus (Greece).
4. 12/1996 - 11/2002: Assistant Professor in Oceanography, Dept of Maritime Studies, University of Piraeus, 40 Karaoli and Dimitriou st, 18532 Piraeus (Greece).
5. 11/1992 - 12/1996: Lecturer in Oceanography, Dept of Maritime Studies, University of Piraeus, 40 Karaoli and Dimitriou st, 18532 Piraeus (Greece).
6. 1990 – 1992: Researcher (in marine geochemical topics), Hellenic Centre for Marine Sciences, Anavyssos (Gr).
7. 1989 – 1990: National expert (in climatic change issues), European Union, DG XI, Brussels (Greece).
8. 1989 – 1990: Professor of Chemistry, Hellenic Air Force Academy, Dekelia (Greece).
9. 1987 – 1989: researcher (in atmospheric emissions and climatic change issues), National Technical University of Athens, Athens (Greece).

IX. European participation as national expert

1989-2003: national expert in EEC (CORINAIR expert group) in atmospheric emissions issues.

X. Member of scientific committees

1. The Hellenic Association of Chemists
2. The Hellenic Association of Oceanographers
3. Evaluator database EVAL-INCO

XI. Sabbatical

1/3/2009-31/8/2009: Dip. Biologia e Chimica Agroforestale e Ambientale, Facolta di Agraria, Universita di Bari, Italy

XII. Scientific papers reviewer in

1. Soil and Sediment Contamination. An International Journal
2. Fresenius Environmental Bulletin.
3. Environmental Monitoring and Assessment.

XIII. Research proposals evaluator

1. 2018-2020. Project Coordinator at Division VI, Chemistry and the Environment of the International Union of Pure and Applied Chemistry, a member of the International Council of Scientific Unions.
2. 2011: Black Sea ERA.NET
3. 2010: Ministry of Development, Operational programme "Competitiveness and entrepreneurship, ESPA 2007-2013, National Action scoped "Cooperation".

XIV. Task group chairman of research project

- Project entitled " Seabed mining and Blue growth: Exploring the potential of the marine mineral deposits as a sustainable source of Rare Earth Elements (MaREE)", 2019-2021, financially supported from the International Union of Pure and Applied Chemistry (IUPAC).
- Project entitled "Management of maritime pollutants in shipping and commercial European ports based on relevant physical and biogeochemical environmental parameters", 2011-2014, financially supported from the International Union of Pure and Applied Chemistry (IUPAC).

XV. Task group member of research project

- ✓ Project entitled "The Environment, Health and Food Safety Impact of Microplastics", 2019-2023, financially supported from the International Union of Pure and Applied Chemistry (IUPAC).

XVI. Experience in leading and management

- ❖ 2020 - Chairwoman of the Scientific Supervisory Board of the Zanneio Experimental High School, Piraeus, Greece.
- ❖ 2019 - now, Director of the MSc course "Sustainability and Quality in Marine Industry", Dept of Maritime Studies, University of Piraeus, Greece.
- ❖ 2016 – now, Director of the Oceanography and Marine Geochemistry Laboratory, Dept of Maritime Studies, University of Piraeus, Greece.
- ❖ 2014 - 2018, Head of the Maritime Studies Dept, University of Piraeus.
- ❖ 2014 - 2018, Member of the University of Piraeus Senate Board.
- ❖ 2013 – 2018, University departmental coordinator for the Erasmus+ programme.
- ❖ For a number of years, member of the Steering Committee of the MSc, Dept of Maritime Studies, University of Piraeus.
- ❖ For many years member of the Board of Directors of the Hellenic Oceanographic Union.

- ❖ For many years member of the Board of Directors of the Environmental NGO "Hellenic Association for the Protection of the Environment and the Cultural Heritage".
- ❖ Member of Scientific and Organizing Committees in a number of Scientific Conferences.

XVII. Member of Scientific Conferences Committees

Coordinator of a special session "Smart port-city for current and future needs". 8th Hellenic Conference on Port works. 28/11-1/12/ 2016. Athens, Gr.

- Scientific Committee member, International Conference on Applied Business and Economics, ICABE 2014, 23-25 October, Delphi, Greece.
- Scientific Committee Member, International Conference on Applied Business and Economics, ICABE 2013, 2-4 October, New York, USA.
- International Advisory Committee member, International Conference on Pure and Applied Chemistry ICPAC 2012, Chemistry: the Key for our Future, July 2-6, 2012, MAURITIUS.
- Organizing and Scientific Committee member, 2nd Annual International Symposium on Agricultural Research, 28-31 August 2009, Athens, Greece.
- Scientific Committee member, 15th International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region (MESAEP), 7-11/10, 2009, Bari, Italy.
- Organizing Committee member, 26TH EUROPEAN CONFERENCE – SEGHE 2008, "Health Implications of Environmental Contamination" SOCIETY OF ENVIRONMENTAL GEOCHEMISTRY AND HEALTH, Athens, Hellas, 31st March – 2nd April, 2008.
- Scientific Committee member, 1st Scientific Conference "Oceanographic Aspects for a Sustainable Mediterranean", organised by the European Federation of Marine Science and Technology Societies and the Hellenic Oceanographers Association. 27-29/9/2002, Athens.
- Scientific Committee member, 3rd International Conference on Maritime Engineering and Ports "Ports & Marinas 2002", organised by the Wessex Institute of Technology, U.K. 18-20 September 2002, Rhodes, Greece.
- Organizing Committee member, 8th FECS Conference on Chemistry and the Environment "Chemistry for a Sustainable World", organised by the Federation of the European Chemical Societies, the Association of Greek Chemists and the National and Kapodistrian University of Athens. 31/8-4/9/2002, Athens, Greece.