

**LABORATORY OF ENVIRONMENTAL CHEMISTRY,
DEPARTMENT OF CHEMISTRY
NATIONAL AND KAPODISTRIAN UNIVERSITY OF ATHENS
(LEC-NKUA)**

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INTRODUCTION

The research entity of the Laboratory of Environmental Chemistry of the National and Kapodistrian University of Athens was created in 1982 as part of the Inorganic and Environmental Chemistry and Technology Division of the Chemistry Department but the current Director Prof. Scoullos was a founding member of the first Greek post-graduate course on Ocean Studies established in the University of Athens in 1982. The Laboratory of Environmental Chemistry has been an independent entity since 2003.

The permanent staff of LEC-NKUA comprises of:

Dr. Michael J. Scoullos (Prof. - Director)

Dr. Dimitrios Nikolelis (Prof.)

Dr. Manos Dassenakis (Assoc. Prof.)

Ms. Vassiliki Mantzara (M.Sc., Researcher)

Dr. Fotini Botsou (Researcher)

Dr. Sotirios Karavoltzos (Researcher)

Dr. Vassiliki Paraskevopoulou (Researcher)

Dr. Aikaterini Sakellari (Researcher)

Dr. Eleni Stathopoulou (Researcher)

Dr. Christina Zeri (Researcher at HCMR, Collaborative Scientist) ---

Dr P.A. Siskos (Em. Prof.)

Furthermore LEC maintains a permanent collaboration in research activities with the following staff of the Department of Chemistry:

Dr. Athanasios Valavanidis (Assoc.Prof.–Dept.of Chemistry/NKUA, Organic Chemistry)

Dr. Evangelos Bakeas (Lecturer – Dept. of Chemistry/NKUA, Analytical Chemistry)

Dr. Nikolaos Thomaidis (Lecturer – Dept. of Chemistry/NKUA, Analytical Chemistry)

And the following members of Departments of the School of Sciences

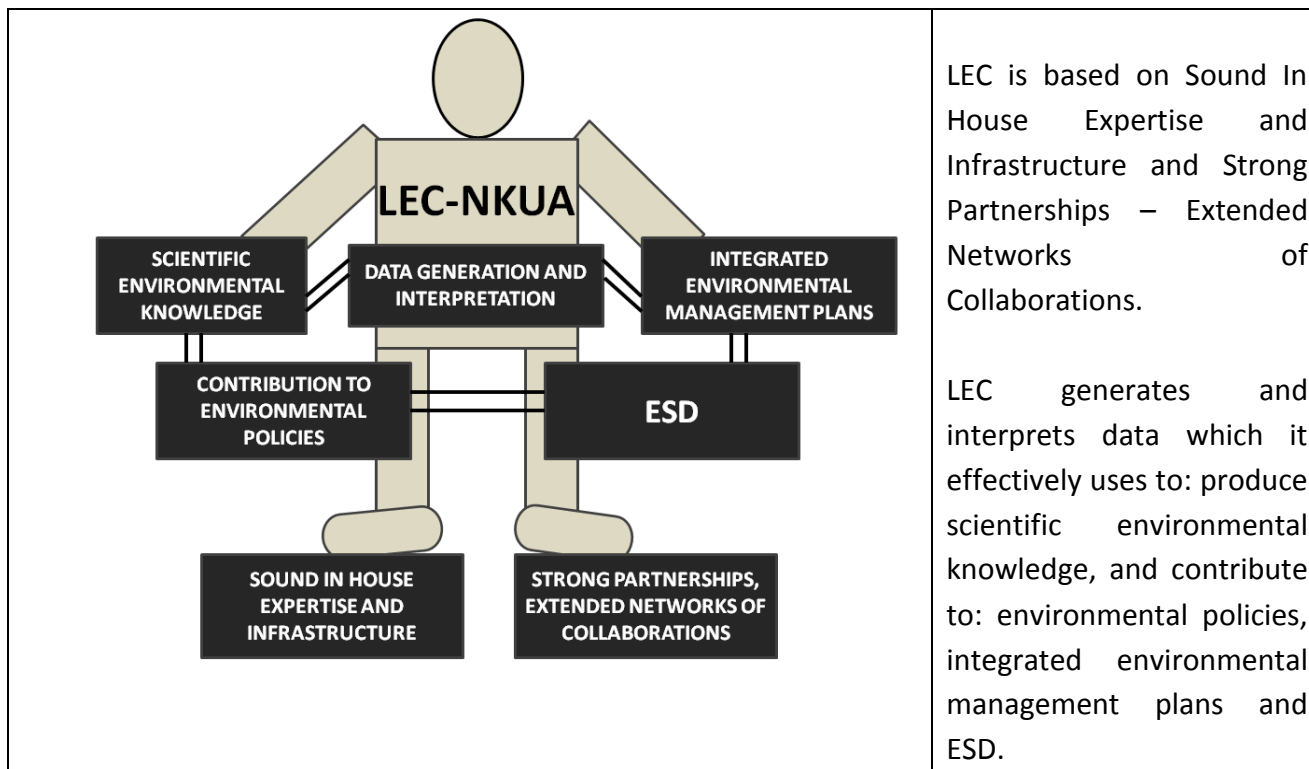
Dr. Vassilios Roussis (Prof. – Dept. of Pharmacy/NKUA, Pharmacognosy)

Dr. Serafim Poulos (Assist. Prof. – Dept. of Geology/NKUA, Geomorphology)

Dr. Artemis Nikolaidou (Assoc. Prof. – Dept. of Biology/NKUA, Zoology)

Dr. Andriani Pantazidou (Assist. Prof. – Dept. of Biology/NKUA, Botany)

At this point 4 PhD and 20 MSc students are part of LEC-NKUA.



LEC-NKUA scientific and technical potential is based on the high expertise of the staff in certain domains of research and technology as well as on equipment facilities of advanced technology providing opportunities for several research activities of different fields. Focusing on environmental chemistry the perspective of the Laboratory includes an integrated and holistic approach of the environment, which has contributed to its very high reputation and the efficient handling of a large number of various types of programs and projects of nearly all aspects of environmental science, technology, management and education.

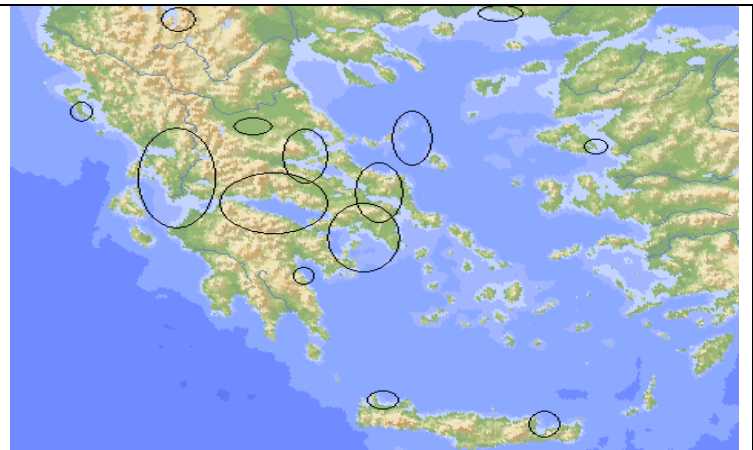
The Laboratory of Environmental Chemistry has a long-term experience in environmental matters and environmental analytical techniques and is accredited according to ISO/EN 17025. Its research activity and programs are related to the following major directions:

- Investigation of the chemistry of aqueous systems, including surface and ground waters, as well as coastal and generally marine waters and sediments. This research tasks focuses on the circulation, chemical behaviour and distribution of heavy metals, nutrients and organic pollutants. Of particular importance is also the study of the different forms (speciation) under which various elements occur in natural systems and which are responsible for their biological activity and impact, as well as the study of the transfer of pollutants from the land to the sea (e.g. estuaries).
- Research related to the chemistry of the atmospheric environment, including the determination of the concentrations and the distributions of various pollutants in aerosols
- Research on the isolation, determination-characterization and/or study of properties of various chemical substances originating from aquatic organisms
- Environmental management studies for aqueous and marine ecosystems
- Application of anti-polluting technologies, study of sewage treatment plant and solid wastes recycling facilities and their products, studies of environmental impact and determination of environmental limitations in industrial sectors
- Ecotoxicological studies related to the toxicity of free radicals in ecosystems as well as bioaccumulation studies in organisms and foodstuffs
- Investigation of the environmental impacts of coastal aquaculture in eastern Mediterranean coasts
- Study – validation on environmental analytical techniques

Research activities are carried out in the framework of environmental programs both at national and international levels. Progress elaborated is characteristically reflected in LEC-NKUA statistics: the number of PhD (27), MSc's (139), peer-reviewed research publications (169), University publications/books (24), Environmental education publications (70), Monographs/books (13), Publications in Conference Proceedings (>250), produced since the beginning of LEC-NKUA research activities. Significant is the contribution of the cooperation, in which the laboratory participates, with several local and international institutes. Through these collaborations effective transfer of know-how is achieved. The major research programs of the laboratory are based on the following scientific topics:

- Marine pollution in waters and sediments and particularly in coastal areas of limited circulation
- Chemical oceanography in pelagic areas
- Aquaculture-marine environment
- Study of specific "microenvironments"
- Determination of heavy metals in environmental matrices
- Determination of PAHs and PCBs in various environmental samples

Figure 2
Areas in Greece studied by
LEC-NKUA



COLLABORATIONS WITH OTHER INSTITUTES

National Institutes

Universities
Hellenic Centre for Marine Research (H.C.M.R.)
General State Chemical Laboratory
“Democritus” Research Centre
National Agricultural Research Foundation
(N.AG.RE.F.)

International Organizations

GWP-MED
MIO-ECSDE
IUPAC
EFMS
UNEP-MAP

International Institutes

European Environment Agency
(EEA)
Ruder Boskovic Institute of Zagreb
Univ. of Liverpool
Univ. of Dresden
PAP/RAC
Agricultural University of Carthagen,
Spain
Marine Environmental Laboratory
of Monaco
Bulgarian Academy of Science,
Institute of Inorganic Chemistry

EDUCATIONAL ACTIVITIES

A major part of the work of the Laboratory of Environmental Chemistry is devoted to its educational activities focused both on undergraduate and post graduate courses offered within the Chemistry Department and the School of Sciences of the University of Athens.

Undergraduate Course - Chemistry Department

Courses offered: Environmental Chemistry (6th Semester - obligatory)
Atmospheric Chemistry (7th Semester – by choice)
Chemical Oceanography (7th Semester – by choice)
Ecotoxicology (8th Semester – by choice)
Chemistry - Management of Aquatic Environment (8th
Semester – by choice)

Post Graduate Courses

A) Inter-Departmental Post-Graduate Course on Oceanography.

The Laboratory is responsible for the section of Chemical Oceanography

Courses offered: General Chemical Oceanography

Marine Chemical Pollution

Analytical Chemical Oceanography

Special Chapters of Chemical Oceanography

Methodology-Compilation of Results in Chemical Oceanography

Management of the Marine Environment

Marine Resources and Technology

B) Post-Graduate Course of Chemistry Department: Chemistry and Technology of the Environment

Courses offered: Chemistry of Aquatic Systems

Atmospheric Chemistry

Ecology - Ecotoxicology

Environmental Technology

Energy Production

C) Post-Graduate Course on Education for Environment and Sustainable Development within the Inter-University Post Graduate course on Science (Chemistry) Education.

The post graduate courses aim at the training of young scientists in order to become specialized in the study, management and protection of the environment, in order to be capable of contributing to the development of the environmental science and of covering the demand both locally and internationally.

AVAILABLE EQUIPMENT AND INFRASTRUCTURE

Rooms – Laboratories

- Students Laboratory with 48 working places 200 m²
- 4 rooms specially designed for specific analytical determinations and installation of the appropriate instrumentation exceeding 200 m
- Office space for the permanent staff and post graduate Students
- Storing rooms
- Clean room
- Teaching class (48 places)

Scientific Equipment

- Varian, SpectrAA-200 Flame Atomic Absorption Spectrometer with Vapour Generator Accessory 77.
- Varian, SpectrAA-640Z Graphite Furnace Atomic Absorption Spectrometer with GTA-100 Furnace and Zeeman background correction
- Polarographer Ecochemie μ -AUTOLAB
- Varian, Saturn-2000 Gas Chromatographer-Mass Spectroscopy
- HPLC 600 Controller, Waters with PDA 996 detector and fluorescence 474 detector
- Shimadzu TOC-5000 carbon analyzer with an SSM-5000 sampler
- Bran+Luebbe, continuous flow nutrient auto analyzer
- VELP, UDK-30 automatic distillator
- Yellow Springs Instruments, Model 63 portable submersible conductivity meter
- Yellow Springs Instruments Model 550 A oxygen meter
- ORION-231 pH meter
- CEM MARS-5X microwave digester
- Varian, Cary-1E double beam spectrophotometer
- Bartington susceptibility meter MS1
- Fluxgate magnetometer Minispin, Molspin LTD
- Infiltrax-100 sampling system, in situ pump
- Water and sediment sampler of various kinds (Hydro bios, Makereth, Go Flo)
- AQUA 16, system for CTD and D.O. measurements
- Lyophilizator Lab Congo
- Thermal desorption unit
- Soxhlet extraction devices
- Ultra-sound baths
- Purification and isolation systems for semi-volatile organic compounds with columns of liquid/solid chromatography

MAIN RESEARCH PROGRAMMES

- Horizon 2020 Capacity Building Mediterranean Environment Programme (2009-2012), Team Leader –Co-ordinator Prof. M. Scoullos)
- Combination of chemical analytical measurements and remote sensing techniques for coastal water monitoring. The cases of Eastern Mediterranean and Black Sea (2007-2009, Funding: IUPAC, Co-ordinator Assoc. Prof. M. Dassenakis)
- Investigation of the environmental state of the gulf of Souda (2007-2008, Funding: Municipality of Souda, Team leaders: Assoc. Prof M. Dassenakis collaboration with Assoc. Prof. M. Thessalou, Dept. Of Biology)
- Study of the transport and chemical behavior of toxic pollutants in a marine area affected by industrial activities. Application of mild catalytic antipolluting technologies (2005-2008, Funding: General Secretariat of Research and Technology and MOTOR-OIL, Co-ordinator Assoc. Prof. M. Dassenakis)
- Researchers' nights: A night on the beach with oceanography researchers (ANOBOR) – Researchers against degrading environment (RADE) – Research web in the society (REWEBIS) (2006-2007-2008, Funding: E.U. Specific Support Action projects, Human resources, Marie Curie actions and mobility FP6 –FP7, Co-ordinator Assoc. Prof. M. Dassenakis)
- Integrated study of coastal organosedimentary forms, plan for protection – management (, 2005-2007, Pythagoras II, Funding: Ministry of Education-EU, Co-ordinator Assoc. Prof. M. Dassenakis)
- Quality characteristics of the municipal solid wastes of the region of Epirus (2008, Funding: Periphery of Epirus, Co-ordinator Prof. M. Scoullos)
- Chemical characterisation of the dehydrated and dried sludge of the Athens/Psittalia Sewage Treatment Plant in order to be used as alternative fuel in the cement factory. Examination of the air emissions before and after the use of the sludge as a fuel (F4nd5ng- TITAN cement factory, Co-ordinator Prof. M. Scoullos)
- Examining pollutant leaching from the fly and bottom ashes obtained from the Hospital Waste Incinerator in Attica, in order to propose their safe disposal (Funding: ACMAR, Co-ordinator Prof. M. Scoullos)
- Heavy metals in the leachates of the Athens landfills at Ano Liosia (Funding: ACMAR, Co-ordinator Prof. M. Scoullos)
- General coordination of the program for determination of physicochemical parameters and qualitative composition of wastes of Attica (2006-08, Funding: Association of Communities and Municipalities in the Attica Region – ACMAR, Co-ordinator Prof. M. Scoullos)
- Model making of river estuaries endangered by eutrophication phenomena (2005-2007, Funding: Min. of Educ.-EU, Co-ordinator Prof. M. Scoullos)
- Nitrogen and phosphorus cycles in the Maliakos gulf (2004-07, Funding: Min. of Educ.-EU, Co-ordinator Assoc. Prof. M. Dassenakis)
- Biogeochemical study of heavy metals (2004-07, Min. of Educ.-EU, Co-ordinator Assoc. Prof. M. Dassenakis)
- General coordination of the Network of Laboratories for the monitoring of environmental quality of Greek seas (2004-6, (Min. of Environment-EU, Co-ordinator Prof. M. Scoullos)
- Monitoring of ground water quality of lake Koumoundourou and the nearby marine area in relation to the Waste Treatment Plant of western Attica (2003-04, Funding: Association of Communities and Municipalities in the Attica Region – A.C.M.A.R., Team Leader: Assoc. Prof.M. Dassenakis)
- Study of water pollution by hydrocarbons and heavy metals in strata of the Thrasio field (2003-06, Funding: General Secretariat of Research and Technology, EU, Co-ordinator Prof. M. Scoullos)

- Activities of monitoring and information in the delta of Sperchios river and Maliakos gulf (2002-3, Funding: Min. of Environment, Team leader: Assoc. Prof. M. Dassenakis.)
- Study of pollutants' transport to the sea by land based sources (2000-02, Cooperation with Georgia, Funding: General Secretariat of Research and Technology, Co-ordinator: Assoc. Prof. M. Dassenakis)
- Network of scientific and professional sectors focusing on the marine environment (2000-01, Funding: General Secretariat of Research and Technology, Co-ordinator: Assoc. Prof. M. Dassenakis)
- Study of toxic chemical substances circulation in the drainage basin of river Asopos and the coastal zone of south Evoikos (1999-2001, Funding: General Secretariat of Research and Technology, Co-ordinator: Assoc. Prof. M. Dassenakis)
- Actions of information- activation and education of citizens and students for the greek marine environment (1999-2003, Funding: Min. of Environment, Co-ordinator: Prof. M. Skoullou)
- Pollutants' transport to the sea by small polluted rivers. (1999-2000 Funding: INTAS –EC, Cooperation with Georgia and Spain, Co-ordinator: Assoc. Prof. M. Dassenakis)
- General coordination of the EUPHEMET Project of the European Union in collaboration with the Imperial College-England and the IEEP-Belgium for the study of the environmental impact of heavy metals (Hg, Cd, Pb) (1998-2000, Funding: EU, Co-ordinator: Prof. M. Skoullou).
- Metal Pollution monitoring program of the Saronikos gulf by heavy metals (1986-2000, Funding: Min. of Environment, Co-ordinator: Prof. M. Skoullou.)
- Metal Pollution monitoring of the Elefsis gulf by land based sources (1995-1999, Funding Min. of Environment, Co-ordinator: Prof. M. Skoullou)
- Pollution study of the Elefsis gulf, study of Prespes lakes (Funding: Elliniki Etaireia/National Trust for Greece/WWF, Co-ordinator: Prof. M. Skoullou)
- Assessment of the state of pollution of the Mediterranean Sea by zinc, copper and their compounds and proposed measures (1996, Funding, UNEP/FAO/WHO, Co-ordinator: Prof. M. Skoullou)
- Study of the biochemical mechanism of heavy metal transport from the dissolved phase to sediment through the green alga *Ulva lactuca* and determination of secondary metabolism products (1994-95, Funding: General Secretariat of Research and Technology, Co-ordinator: Assoc. Prof. M. Dassenakis)
- Elimination of industrial pollution of small rivers passing through cities (1993-94, Funding: EC, Co-ordinator: Prof. M. Skoullou)
- Pollution of the Mediterranean Sea (1993, Funding: European Parliament/STOA, Co-ordinator: Prof. M. Skoullou)
- Study of environmental legislation enforcement in Greece. Environmental politics proposals (Funding: Institute of European Environmental Policy, Co-ordinator: Prof. M. Skoullou)
- Integrated environmental management of Mitrikos lake (Funding: EC, Co-ordinator: Prof. M. Skoullou)
- Integrated environmental management of Amvrakikos gulf (1992, Funding: EC, Co-ordinator: Prof. M. Skoullou)
- Integrated environmental management of Salamis isl. (1991-92, Funding: EC, Co-ordinator: Prof. M. Skoullou)
- Integrated management of wetlands complex of Aitoliko-Messolongi of Aitoloakarnania Prefecture (1991-92, Funding: EC, Co-ordinator: Prof. M. Skoullou)
- European River Ocean Systems- NW Mediterranean Sea, EROS 2000 (1988-1993, Funding: EC, Co-ordinator: Prof. M. Skoullou)
- Study of estuarine sediments of Patraikos gulf - Acheloos estuaries, Amvrakikos gulf – Louros estuaries, Maliakos gulf – Sperchios estuaries (1986-88, Funding: General Secretariat of Research and Technology, Co-ordinator: Prof. M. Skoullou)

- Chemical studies of main estuaries and coastal areas of Greece (1986-87, Funding: DG XI, Project GEC-ENV-560-GR, Co-ordinator: Prof. M. Skoullou)
- Pollution study of the gulf of Gera (1980, Funding: Min. of Environment, Co-ordinator: Prof. M. Skoullou)
- Quality of coastal waters of Greece (1976-1980: Funding: DG XI, Co-ordinator: Prof. M. Skoullou).

RESEARCH SCIENTIFIC ACTIVITIES

The research scientific activities of the Laboratory of Environmental Chemistry are focusing on the following subjects:

Biogeochemical studies of metals in the coastal zone.

LEC-NKUA studies deal with the distribution, speciation and transport of heavy metals in aquatic systems, including surface and underground fresh water, coastal and marine waters and sediments and biota.

The study of trace metals' chemical speciation in seawater has been carried out with the application of schemes featuring electrochemical measurements in the mode of Differential Pulse Anodic Stripping Voltammetry (DPASV). In parallel, the fractionation of dissolved organic matter interacting with metals and providing active complexing sites for metal binding has also been studied.

Mercury determinations in LEC have been conducted since 1998 by means of Varian CVAAS and since 2004 by dual Au trap CVAFS instrumentation. A large sample variety are analyzed including groundwater and seawater, biota, sediments and soils, as well as sludge, wastewater, coal from emission abatement technology of incinerators, bauxite. Mercury species studied in water (coastal and open sea) are total mercury (THg), particulate and dissolved, dissolved gaseous mercury (DGM), reactive mercury (RHg). In addition, LEC's staff has experience in handling, pretreatment and analysis of monomethylmercury (MMHg), and dimethylmercury (DMHg) although the analysis was conducted in other research institutions.

In collaboration with Department of Biology of University of Athens a large population of shark tissues is studied (flesh, liver, gonads, branchia) for total mercury and recently some OrgHg by extraction and CVAFS determination are tested along with Se measurements.

In collaboration with National Observatory of Athens atmospheric mercury species are sampled and measured: gaseous elemental mercury (GEM), and mercury associated with particles (Hg-P on PM_{2.5} and PM₁₀). Reactive gaseous mercury (RGM) analysis in the atmosphere by the use of denuders was conducted just very recently in collaboration with CNR at Italian sampling stations. We are in the phase of setting aerosol solubility measurements, which will demonstrate the relative importance of atmospheric deposition (dry and wet) to the biogeochemical cycle of mercury in the sea.

In sediments, various experimental protocols have been applied, including single step and sequential extraction schemes. Research work on biogeochemical processes concerning trace elements (Cd, Hg, Pb, Fe, Mn) at the sediment–water interface is also conducted, in order to estimate the benthic fluxes of metals and the role of sediments to act as sources or sinks of pollutants, under various anthropogenic pressures. This is done through chemical analyses of metal concentrations, in overlying waters, porewaters and sediments supported by appropriately designed microcosms that allow further monitoring of the water – sediment systems in specific time intervals and under controlled conditions. Metal analysis has been also assessed with the employment of Diffusive Gradients in Thin Films (DGT). With this *in situ* procedure high resolution metal profiles in pore water are obtained together with information on the potential re-supply of the pore water in metals from the solid phase. The potential fluxes of metals at the sediment–water interface are also calculated.

In coastal marine environments with shallow, warm and calm waters organosedimentary cyanobacterial - algal mats have been studied in order to assess the bioaccumulation of metals by cyanobacteria isolated from the mats in an attempt to understand their behaviour in polluted marine environments, their ability for metal biosorption and the possibility of using them for bioremediation purposes.

Studies of chemical substances in the food chain and various marine organisms and on chemical changes in coastal waters where biota is involved. Indicative specific research themes on which work has been carried out include: Bioaccumulation of metals in macroalgae and the role of the latter in transferring metals to the sediment under various oxidative conditions employing mesocosms and benthic chambers, determination of metals, PCBs etc., along the food chain; also in foodstuffs for human consumption and in drinking waters; study of oxidative stress on marine biota; impact of aquacultures in the marine environment (employing “chambers”, laboratory simulations etc.); extraction of natural products of potential interest from marine organisms, calculation of fluxes and budgets (including through biota) of various substances (e.g. Cd) for specific regions.

Management studies for wetlands and marine eco-systems and processes. Research activities related to this topic are run under the perspective of a holistic approach towards the sustainable development of the coastal zone and furthermore the relationship between ICZM and IWRM (Integrated Water Resources Management) since the two, in many cases, cannot and should not be separated. It is noteworthy that the first and till now most complete survey on the “Quality of Coastal waters of Greece” was commissioned by the European Commission to our team already in 1980. Management studies of LEC-NKUA address two major aspects: a) to recognize environmental pressures on the coastal marine environment and transitional waters arising from Land-Based Sources (LBS), b) to formulate plans and propose strategies in order to reduce the negative impact of LBS and related processes on the coastal zone. Specific contributions of LEC-NKUA in this topic include translation of scientific results into policies for the protection of the coastal and further marine environment from pollution deriving from LBSs; reduction of adverse impacts of intensive aquacultures; maintenance of biodiversity/ protection of habitats of threatened species; sustainability of the tourism sector; planning of awareness- raising activities and educational programs in cooperation with local Authorities, NGO’s and International Organizations and Institutes.

Atmospheric pollution studies focussing on heavy metals. Major pollution inputs to the coastal zone are the atmospheric wet and dry depositions. In a study carried out by LEC/ NKUA, on behalf of MED/POL-UNEP-MAP it was found that the atmospheric inputs of Zn and Cu in coastal waters of the Mediterranean exceed considerably the riverine and runoff inputs. Moreover, in heavily urbanised or industrialised areas the investigated by LEC atmospheric emissions from stable and mobile sources were very important and could affect significantly the chemistry of certain substances in the aquatic environment and the food chain. In LEC-NKUA a large number of substances and properties have been studied in both gaseous and particulate phases, employing a great variety of sampling and analytical methods.

Studies of pollution dispersion from solid waste management schemes and the use of non-conventional resources. Solid waste management, particularly in the coastal zone, is a matter of increasing concern in Greece during the last five years. Municipal solid waste recycling is expanding in order to conform to the relevant European Directives. The LEC/ NKUA is already active in the field and covers critical society needs. As today, we move from a disposal-based system (which directly and indirectly pollutes surface, ground and transitional water), to that based on a combination of recovery options, it is important to know the physical and chemical characteristics of the wastes and of their recycling products. Four major contracts have been obtained by LEC-NKUA during the last three years concerning the physico-chemical characterisation of wastes and recycling products, control of the quality and composition of the compost and RDF deriving from recycling of urban solid wastes, selection of the proper waste disposal process based on our analysis, nitrilisation and safe disposal of toxic industrial wastes, use of stabilised dry sewage sludge as alternative fuel in the cement production.

Studies and work on Environmental Education (EE) and Education for Sustainable Development (ESD) and Capacity Building. LEC-NKUA has developed a very comprehensive educational programme addressing EE, awareness raising and ESD at various levels. In this field and in order to disseminate results of its research, but also in order to facilitate the formulation of environmentally friendly activities, the Laboratory collaborates closely with major NGOs e.g. MIO-ECSD (the Mediterranean Information Office for Environment, Culture and Sustainable Development), the EEB (European Environmental Bureau), RAED (Arab Network for Environment and Development) the GWP-Med (Global Water Partnership Mediterranean), WWF and the Hellenic Society for the Environment and Culture), and local authorities, schools, the press etc. LEC-NKUA participates in the Scientific group of MEDIES, the Mediterranean Educational Initiative for Education for Sustainability a type II Initiative formally announce in Johannesburg (led by Greece) and within the framework of MEDIES has produced a widely used (translated and produced already in 7 languages) educational package on water and another one (reproduced already in Greek and English) on urban wastes, particularly useful as information material within ICZM.

LIST OF PUBLICATIONS OF LEC-NKUA

Recent (2000-2010) Publications in Scientific Journals (Research)

- TEPAVITCHAROVA S., TODOROV T., RABADJIEVA D., DASSENAKIS M., PARASKEVOPOULOU V., 2010. Chemical speciation in natural and brine seawaters. ENVIRONMENTAL MONITORING AND ASSESSMENT (available on line: DOI: 10.1007/s10661-010-1783-y).
- BOTSOU F., KARAGEORGIS A.P., DASSENAKIS M., SCOULLOS M., 2011. Marine Pollution Bulletin 62, 547-563, "Assessment of heavy metal contamination and mineral magnetic characterization of the Asopos River sediments (Central Greece)".
- SAKELLARI A., PLAVSIC M., KARAVOLTSOS S., DASSENAKIS M., SCOULLOS M., 2010. "Assessment of copper, cadmium and zinc remobilization in Mediterranean marine coastal sediments", Estuarine, Coastal and Shelf Science, 91, 1-12..
 - VLASTARAS N., DASSENAKIS E., LIAPIS K.S., MILIADIS G.E., ANAGNOSTOPOULOS C.J., 2010. Validation of a multiresidue method for the determination of multiclass pesticides by using representative analytes by gas chromatography. HELLENIC PLANT PROTECTION JOURNAL, 3, 57-69.
- PARASKEVOPOULOU V., TRIANTAFYLLAKI S., GIANNIKOPOULOS N., DASSENAKIS M., 2010. Dissolved and particulate nickel distributions in a coastal marine area affected by geochemical and industrial processes. FRESENIUS ENVIRONMENTAL BULLETIN, 19(9), 1833-1840.
- LADAKIS M., DASSENAKIS M., ZEINI C., PARASKEVOPOULOU V., 2010. Study of the capability of the filamentous cyanobacteria in binding metal ions. FRESENIUS ENVIRONMENTAL BULLETIN, 19(9), 1950-1953.
- TEPAVITCHAROVA S., TODOROV T., DASSENAKIS M., PARASKEVOPOULOU V., 2010. Chemical speciation in waters influenced by lead-zinc metallurgical industry. ENVIRONMENTAL MONITORING AND ASSESSMENT 169(1), 27-36.
- DASSENAKIS M., GARCIA G., DIAMANTOPOULOU E., GARCIA-MARIN E.M., FILIPPI G., FIORAKI V., 2010. The effect of mining activities on the hypersaline Mar Menor lagoon. DESALINATION AND WATER TREATMENT, 13, 282-289.
- TSAKOVSKI S., KUDŁAK B., SIMEONOV V., WOLSKA L., SAGAJDAKOW A., GARCIA G., DASSENAKIS M., NAMIESNIK J., 2009. N-Way modelling of sediment monitoring data from Mar Menor lagoon, Spain. TALANTA, 80(2), 935-941.
 - LADAKIS M., DASSENAKIS M., SCOULLOS M., BELIAS C., 2007. The chemical behaviour of trace metals in a small, enclosed and shallow bay on the coast of Attica, Greece. DESALINATION, 213, 29-37.
- RABADJIEVA D., TEPAVITCHAROVA S., TODOROV T., DASSENAKIS M., PARASKEVOPOULOU V., PETROV M., 2009, Chemical speciation in mining affected river waters, the case study of Asarel-Medet mine. ENVIRONMENTAL MONITORING AND ASSESSMENT, 159(1), 353-366.
- TEPAVITCHAROVA S., TODOROV T., RABADJIEVA D., DASSENAKIS M., PARASKEVOPOULOU V., 2009. Chemical speciation of inorganic pollutants in river – estuary – seawater systems. ENVIRONMENTAL MONITORING AND ASSESSMENT, 149, 251-260.
- KARAVOLTSOS S., SAKELLARI A., ANTONOPOULOU M., DASSENAKIS M., SCOULLOS M., 2010, DESALINATION AND WATER TREATMENT, 13, 328-335, "Evaluation of water quality in an urban park for environmental sensitization: A large scale simulation model".
- KARAVOLTSOS S., SAKELLARI A., ANTONOPOULOU M., DASSENAKIS M., SCOULLOS M., 2010. Evaluation of water quality in an urban park for environmental sensitization: A large scale simulation model. DESALINATION AND WATER TREATMENT, 13, 328-335.
 - EVANGELIOU N., FLOROU H., BOKOROS P., SCOULLOS M., 2009. Temporal and spatial distribution of ¹³⁷Cs in Eastern Mediterranean Sea. Horizontal and vertical dispersion in two regions. JOURNAL OF ENVIRONMENTAL RADIOACTIVITY, 100, 626-636.

- DIAMANTOPOULOU E., DASSENAKIS M., KASTRITIS A., TOMARA V., PARASKEVOPOULOU V., 2008. Seasonal fluctuations of nutrients in a hypersaline Mediterranean lagoon. *DESALINATION*, 224, 271-279.
- KARAVOLTSOS S., SAKELLARI A., MIHOPOULOS N., DASSENAKIS M., SCOULLOS M., 2008. Evaluation of the quality of drinking water in regions of Greece. *DESALINATION*, 224, 317-329.
- KARAVOLTSOS S., SAKELLARI A., DASSENAKIS M., SCOULLOS M., 2008. Cadmium and lead in organically produced foodstuffs from the Greek market. *FOOD CHEMISTRY*, 106, 843-85.
- MINIADES-MEIMAROGLOU S., DIMIZAS C., LOUKAS V., MOUKAS A., VLACHOS A., THOMO Aidis N., PARASKEVOPOULOU V., DASSENAKIS M., 2007. Proximate composition, fatty acids, cholesterol, minerals in frozen red porgy. *CHEMISTRY AND PHYSICS OF LIPIDS*, 146(2), 104-110.
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