Personal Information

Name: Liakakou Eleni Date of birth: 2/11/1979

Duties: Associate Researcher (Technical manager/Main analyst at the Atmospheric

Chemistry Laboratory)

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Education

- April 2007: PhD of Chemistry, Chemistry Department, University of Crete, Heraklion, Crete, Greece. Thesis title: Non Methane Hydrocarbons over the Eastern Mediterranean; Factors affecting their level and contribution to the oxidative capacity of the atmosphere
- December 2003: Master on Environmental Engineering, Chemistry Department, University of Crete, Heraklion, Crete, Greece. Title: Aerosol optical properties at the area of the Eastern Mediterranean and correlation with their chemical composition.
- *July 2001:* Degree of Chemistry, Chemistry Department, University of Crete, Heraklion, Crete, Greece.

Languages

English: First Certificate in English (Level B2)

• Spanish: DELE B1 (Level B1)

Computer skills

• Microsoft office: excel, word, power point

Professional Experience:

- Since 2009: Institute of Environmental Research & Sustainable Development, National Observatory of Athens, Greece (Associate Researcher / Technical manager Main analyst at the Atmospheric Chemistry Laboratory).
- 2008-2009: Institute of Environmental Research & Sustainable Development, National Observatory of Athens, Greece (Scientific associate).
- 2007-2008: University of Crete, Department of Chemistry, Environmental Chemical Processes Laboratory, Heraklion, Crete, Greece (Scientific associate / Member of the group responsible for the atmospheric monitoring station at Finokalia, Crete, Greece).

• 2003-2004: University of Crete, Department of Chemistry, Heraklion, Crete, Greece (Assistant at courses exercises in Analytical Chemistry II in the frame of the PhD studies for the period October 2003 – January 2004).

Research - Scientific Interests

- Research and development in the areas of atmospheric chemistry and air quality.
- Field measurements, samplers' calibration, pollution analyzers operation and participation in intensive campaigns.
- Environmental analytical chemistry, determination of chemical composition of atmospheric samples (gas and particulate phase) using chromatographic and spectroscopic techniques.
- Quality control and laboratories accreditation procedures.

Activities in International and National Projects

- 2003-2007: PENED 2001 Grant / General Secretariat for Research and Technology, Oxidative Capacity of the Atmosphere in the Eastern Mediterranean.
- 2007: OOMPH Organics over the Ocean Modifying Particles in both Hemispheres.
- 2008: DOMINO Diel Oxidant Mechanisms In relation to Nitrogen Oxides, Max Planck Institute for Chemistry.
- 2011: ACEMED / Evaluation of CALIPSO's aerosol classification scheme over Eastern Mediterranean, EUFAR / European Facility for Airborne Research.
- 2009-2013: Upgrade of the Atmospheric Chemistry Laboratory of the National Observatory of Athens for the provision of chemical analyses and air pollutants measurement services, with emphasis on hazardous for public health chemical compounds, 3rd Community Support Framework, Operational Program "Competitiveness", Greek Ministry of Development.
- 2009-2010: THERMOPOLIS 2009 Campaign, European Space Agency.
- 2011: ACEMED Evaluation of CALIPSO's aerosol classification scheme over Eastern Mediterranean, EUFAR Transnational Access Project
- 2012-2013: XENIOS Climate change impacts on the touristic development of sensitive areas in the Greek territory. Case study: Messinia – Integrated Tourism Development Areas, Strategic Reference Framework (NSRF) 2007-2013, Hellenic Ministry of Economy, Competitiveness and Shipping.

Participation on research groups and nets

- 2002 2008: Member of the Finokalia Station of the University of Crete (www.finokalia.chemistry.uoc.gr).
- Since 2008: Member of the Penteli Aerosol Monitoring Station of the National Observatory of Athens (www.acalb.noa.gr).
- Since 2011: Member of the EUFAR / European Facility for Airborne Research net (www.eufar.net).

• Since 2011: Member of the Atmospheric Physics and Chemistry Group /APCG of the National Observatory of Athens.

Publications

- Bardouki H., <u>Liakakou H.</u>, Economou C., Smolik J., Zdimal V., Eleftheriadis K., Lazaridis M. and Mihalopoulos N., Chemical composition of size resolved atmospheric aerosols in the Eastern Mediterranean during summer and winter, Atmospheric Environment, 37, 195-208, 2003.
- Vrekoussis M., <u>Liakakou E.,</u> Kocak M., Kubilay N., Oikonomou K., Sciare J. and Mihalopoulos N., Seasonal variability of optical properties of aerosols in the Eastern Mediterranean, Atmospheric Environment, 39, 7083-7094, 2005.
- Vrekoussis M., <u>Liakakou E.</u>, Mihalopoulos N., Kanakidou M., Crutzen P. J. and Lelieveld J., Formation of HNO3 and NO3_ in the anthropogenically-influenced Eastern Mediterranean marine boundary layer, Geophysical Research Letters, VOL. 33, L05811, doi: 10.1029/2005GL025069, 2006.
- <u>Liakakou E.,</u> Vrekoussis, M., Bonsang, B., Donousis, Ch., Kanakidou M., and Mihalopoulos, N., Isoprene above the Eastern Mediterranean: Seasonal variation and contribution to the oxidation capacity of the atmosphere, Atmospheric Environment, 41, 1002-1010, 2007.
- Sciare J., Oikonomou K., Favez O., <u>Liakakou E.,</u> Markaki Z., Cachier H., and Mihalopoulos N., Long-term measurements of carbonaceous aerosols in the Eastern Mediterranean: evidence of long-range transport of biomass burning, Atmospheric Chemistry and Physics, 8, 5551-5563, 2008.
- <u>Liakakou E.</u>, Bonsang B., Williams J., Kalivitis, N., Kanakidou M. and Mihalopoulos N., C2-C8 NMHCs over the Eastern Mediterranean: Seasonal variation and impact on regional oxidation chemistry, Atmospheric Environment, 43, 5611-5621, 2009.
- Gerasopoulos E., Kokkalis P., Amiridis V., <u>Liakakou E.</u>, Perez C., Haustein K., Eleftheratos K., Andreae M. O., Andreae T.W., and Zerefos C. S., Dust specific extinction cross-sections over the Eastern Mediterranean using the BSC-DREAM model and sun photometer data: the case of urban environments, Annales Geophysicae, 27, 2903-2912, 2009.
- Gerasopoulos E., Kazadzis S., Vrekoussis M., Kouvarakis G., <u>Liakakou E.</u>, Kouremeti N., Giannadaki D., Kanakidou M., Bohn B. and Mihalopoulos N., Factors affecting O3 and NO2 photolysis frequencies measured in the eastern Mediterranean during the five-year period 2002–2006, Journal of Geophysical Research, 117, D22305, 2012.

Conferences- Meetings

- Atmospheric Chemistry within the Earth System: From regional pollution to global change, 18-25 September 2002, Heraklion, Crete, Greece.
- <u>Liakakou E.,</u> Bardouki H., Economou C., Smolik J., Zdimal V., Eleftheriadis K., Lazaridis M. and Mihalopoulos N., 'Seasonal study of chemical composition of Size Resolved Atmospheric Aerosols in the Eastern Mediterranean', 19th Pan-Hellenic Chemistry Conference, 6-10 November 2002, Heraklion, Crete, Greece.

- <u>Liakakou E.</u>, Bonsang B., Kanakidou M., and Mihalopoulos N., Diurnal and Seasonal Study of Isoprene at a Coastal Site in the Eastern Mediterranean. ACCENT Symposium, The Changing Chemical Climate of the Atmosphere, 12-16 September 2005, Urbino, Italy.
- Arsene C., <u>Liakakou E.,</u> Bougiatioti A., Mihalopoulos N., 'Sources of non-methane hydrocarbons (NMHCs) in the Eastern Mediterranean', Atmospheric Chemistry at the Interfaces, 17-22 September 2006, Cape Town, South Africa.
- <u>Liakakou E.</u>, Bonsang B., Williams J., Kanakidou M., Mihalopoulos N., 'Seasonal variation of C3-C6 NMHCs over the Eastern Mediterranean', Atmospheric Chemistry at the Interfaces, 17-22 September 2006, Cape Town, South Africa.
- Kalivitis N., Bougiatioti A., Fountoukis C., <u>Liakakou E.,</u> Kouvarakis G., Kopanakis I., Sciare J., Lazaridis M., Hillamo R., Nenes A., Pandis S. and Mihalopoulos N., Physicochemical characterisation of aerosols in the marine boundary layer of the Eastern Mediterranean during summer, European Aerosol Conference 2008, Thessaloniki, Greece.
- <u>Liakakou E.,</u>Williams J., Mihalopoulos N., PAN during the DOMINO campaign: The first results, 1st Workshop the DOMINO campaign, 3-5 November 2009, Madrid, Spain.
- Amiridis V., Marinou E., Gerasopoulos E., Kazadzis S., Gratsea M., <u>Liakakou E.,</u> Mamouri R., Kokkalis P., Papayannis A., Kouremeti N., Giannakaki E., Balis D., Bais A., "ACEMED experimental campaign for the evaluation of CALIPSO's aerosol classification scheme over Greece". 6th International Workshop on Sand/Duststorms and associated dustfall, 7-9 September 2011, Athens, Greece.
- Gerasopoulos E., Gratsea M., Kazadzis S., Amiridis V., Vrekoussis M., and <u>Liakakou E.,</u> Dust impact on urban air quality, 6th International Workshop on Sand/Dustdtorms and associated dustfall, 7-9 September 2011, Athens, Greece.
- Paraskevopoulou D., Zarmpas P., <u>Liakakou E.,</u> Gerasopoulos E., and Mihalopoulos N., Four-year monitoring of PM2.5 and PM10 fractions of particulate matter and ionic composition in Athens Greece, 8th International Conference on Air Quality 2012, 19-23 March 2012, Athens, Greece.
- Amiridis V., Marinou E., Kazadzis S., Gerasopoulos E., Mamouri R.E., Kokkalis P., Papayannis A., Kouremeti N., Giannakaki E., <u>Liakakou E.,</u> Paraskevopoulou D., Gratsea M., Kouvarakis G., Allakhverdiev K., Huseyinoglu F., Secgin A., Balis D., Bais A.F., Mihalopoulos N., Daglis I.A., Zerefos C.S. Evaluation of CALIPSO's aerosol classification scheme during the ACEMED experimental campaign over Greece: the case study of 9th of September 2011, 11th International Conference on Meteorology, Climatology and Atmospheric Physics COMECAP 2012, 29 May 1 June 2012, Athens, Greece.
- Gerasopoulos E., Mihalopoulos N, Kazadzis S., Vrekoussis M., <u>Liakakou E.,</u> Kouvarakis G., Kouremeti N., Factors controlling the variability of photolysis rates of NO2 and O1D in the complex environment of the Eastern Mediterranean, 11th International Conference on Meteorology, Climatology and Atmospheric Physics COMECAP 2012, 29 May – 1 June 2012, Athens, Greece.
- Paraskevopoulou D., Gerasopoulos E., <u>Liakakou E.,</u> Gratsea M., Zarmpas P., Theodosi C., Mihalopoulos N. Optical properties of aerosols over Athens, Greece, and their relation with chemical composition, 11th International Conference on Meteorology, Climatology and Atmospheric Physics COMECAP 2012, 29 May – 1 June 2012, Athens, Greece.

- Athanasopoulou E., Gerasopoulos E., Vogel H., Kazadzis S., <u>Liakakou E.,</u> Gratsea M., and Vogel B., Aerosol observations and predictions in the southeastern Europe during the extreme summer 2007, European Aerosol Conference, 2-7 September 2012, Granada, Spain.
- Paraskevopoulou D., <u>Liakakou E.</u>, Gerasopoulos E. and Mihalopoulos N.: Longterm variability of elemental and organic carbon in aerosols over Athens, Greece, European Aerosol Conference, 1-6 September 2013, Prague, Czech Republic.
- <u>Liakakou E.</u>, Gerasopoulos E., Paraskevopoulou D., Zarbas P., Theodosi C., Kalivitis N., Maneas G., Mihalopoulos N., Zerefos C.: Aerosol chemical composition at NEO (Eastern Mediterranean) during the ARGON 2012 summer campaign, European Aerosol Conference, 1-6 September 2013, Prague, Czech Republic.