
PERSONAL INFORMATION

Date of Birth	20/05/1980
Place of Birth	Athens, Greece
Citizenship	Greek
Gender	Male
Marital Status	Married
Children	One

RESEARCH EXPERIENCE

2000–now

Participation in Climate Research Group of the Laboratory of Upper Air, Faculty of Physics, Section of Environmental Physics and Meteorology, National and Kapodistrian University of Athens (NKUA), Group leader Prof. C. Varotsos.

Experienced in

- Monitoring of total ozone column in daily basis using standard spectrophotometer Dobson.
- Monitoring of vertical ozone profile with the method of ozone soundings.
- Monitoring of total and ultraviolet solar radiation using appropriate equipment (radiometers, pyranometer, photometers).
- Monitoring of meteorological parameters.
- Technical support of the Research Group's experimental activities.
- Processing, quality control and archiving of experimental data and measurements.
- Air quality monitoring through ground based and satellite observations.
- Preparation of technical and/or scientific reports according to projects' needs.

2012–now

Member of the Group of Paleoenvironment and Ancient Metals Research (GP-AMS) of the Institute of Nanoscience and Nanotechnology (INN) of NCSR "Demokritos". Group Leader: Researcher Emeritus Bassiakos Y.

Experienced in

- Mechanical and chemical treatment of geological samples according to dating procedure.
- Luminescence dating of geological samples.
- In field collection of geological samples.
- Processing, quality control and archiving of experimental data and measurements.
- Database development – Data analysis
- Specialized software development focusing on luminescence dating needs.
- Technical support of dating facilities (equipment installation, validation, repair, etc).
- Paleoclimate – paleoenvironmental studies.
- Climate processes modeling
- Preparation of technical and/or scientific reports according to projects' needs.

Significant experience in research proposals preparation (with or without funding). Participation in the preparation of more than 20 research proposals (15 of them with funding forecast) to national and international bodies. Positive final evaluation to eight of them (3 funded).

PARTICIPATION IN NATIONAL AND INTERNATIONAL PROJECTS

2019–on going

"TROPOMI total, profile and tropospheric O₃ VALidation using ground based and ozonesonde data from Athens, Greece - TRO3VALAG" Part of Sentinel-5 Precursor Calibration and Validation Team (S5PVT).

2005–on going

Participation in the project "International Co-operative Programme on Effects of Air Pollution on Materials, including Historic and Cultural Monuments" an action of the Economic Commission for Europe of the United Nations "Convention on Long-Range Transboundary Air Pollution" (CLRTAP).

2003–on going

Determination of Stratospheric Polar Ozone Losses (MATCH).

2019

Participation in sub-projects "Study of temporal geomorphological changes of coastal areas through sediment dating using Luminescence dating technique" and "Development of new dating methods, based on Luminescence dating technique, suitable for sedimentary samples older than 500,000 years" in the framework of "Development of Materials and Devices for Industrial, Health, Environmental and Cultural Applications", funded by Greece and the European Union (European Regional Development Fund).

2017–2019

Assessing and modeling climate change impacts on the Kalamas river, NSRF, Epirus Operational Programme.

2016–2020

AEROSOL: Satellite-derived aerosol properties over mainland China: application to air quality and trend analysis/Air quality over China. DRAGON 4, Project Id. 32271.

2013–2016

Non-linear Dynamics of the Remotely Sensed Atmospheric Data and Modelling; Implications to Climate & Earth System Science; Case studies for Athens (Greece) and Beijing (China). DRAGON 3, Project Id. 10529.

2012–2015

Atmospheric Pollution Impact to Cultural Environment Investigation (API-CULT).

2012–2014

New Archaeological Research Network for Integrating Approaches to ancient materials studies (NARNIA).

2007–2012

Elaboration of Technologies for Diagnosis of Tropical Hurricanes Beginning in Oceans with Remote Sensing Methods. ISTC (International Science and Technology Center) Project No. 3827.

2007–2008

International Polar Year 2007-2008 (Ozone Layer and UVB Radiation) (ORACLE-O3)

2006–2008

Total ozone and Planetary waves 2006-2008. Bilateral Research Programme (Greece- Ukraine)

2004–2009

Stratospheric-Climate Links with Emphasis on the Upper Troposphere and Lower Stratosphere (SCOUT-O3).

2002–2012

Participation in the calibration of satellite instruments SCIAMACHY and MIPAS on board European satellite ENVISAT.

2002–2005

Participation in the European experiment "Model for multi-pollutant impact and assessment of threshold levels for cultural heritage" (MULTI-ASSESS), in order to study the effect of atmospheric pollution on building materials.

2002–2004

FIELD EXPERIENCE

2012 – now

Participation in more than 10 paleoenvironmental and archaeological field studies at different places in Greece and Cyprus.

2006, 2012

Participation in International Dobson spectrophotometer intercomparison campaign, at Regional Dobson Calibration Centre for Europe, Hohenpeißenberg, Germany.

2014

Participation in HygrA-CD campaign at Athens, Greece. Person in charge for the execution of radiosonde soundings.

2017

Participation in International Dobson spectrophotometer intercomparison campaign, at National Institute for Aerospace Technology – INTA, Atmospheric Sounding Station "El Arenosillo", Mazagon, Spain.

PUBLICATION IN PEER REVIEWED JOURNALS

1. EFSTATHIOU, M.N., FERETIS, H., TZANIS, C. and CHRISTODOULAKIS, J., 2005, **Observed association between air pollution and the biologically effective solar ultraviolet irradiance.** *International Journal of Remote Sensing*, 26, pp.3487-3495, doi: 10.1080/01431160500076566.
2. TSIVOLA, E., CHRISTODOULAKIS, J. and CHARAMI, E., 2005, **Comparison between the total ozone observations made by ground-based and satellite-borne instrumentation at Athens, Greece.** *International Journal of Remote Sensing*, 26, pp. 3561-3566, doi: 10.1080/01431160500076921.
3. CHRISTODOULAKIS, J., TZANIS, C. and VAROTSOS, C., 2008, **Standardization of the Athens Dobson spectrophotometer versus Reference Dobson spectrophotometer 064.** *International Journal of Remote Sensing*, 29, pp. 1917-1920, doi: 10.1080/01431160701758707.
4. TZANIS, C., CHRISTODOULAKIS, J., EFSTATHIOU, M.N. and VAROTSOS, C., 2009, **Comparison of the Athens Dobson spectrophotometer with World Standard Instruments.** *International Journal of Remote Sensing*, 30, pp.3943-3950, doi: 10.1080/01431160902822005.
5. TZANIS, C., VAROTSOS, C., FERM, M., CHRISTODOULAKIS, J., ASSIMAKOPOULOS, M.N. and EFTHYMIU, C., 2009, **Nitric acid and particulate matter measurements at Athens, Greece, in connection with corrosion studies.** *Atmospheric Chemistry and Physics*, 9, pp.8309-8316, doi: 10.5194/acp-9-8309-2009.
6. TZANIS, C., VAROTSOS, C., CHRISTODOULAKIS, J., TIDBLAD, J., FERM, M., IONESCU, A., LEFEBRE, R.-A., THEODORAKOPOULOU, K., and KREISLOVA, K., 2011, **On the corrosion and soiling effects on materials by air pollution in Athens, Greece.** *Atmospheric Chemistry and Physics*, 11, pp.12039-12048, doi: 10.5194/acp-11-12039-2011.
7. VAROTSOS, C., ONDOV, J., TZANIS, C., ÖZTÜRK, F., NELSON, M., KE, H., and CHRISTODOULAKIS, J., 2012, **An observational study of the atmospheric ultra-fine particle dynamics.** *Atmospheric Environment*, 59, pp.312-319, doi: 10.1016/j.atmosenv.2012.05.015.
8. VAROTSOS C., CHRISTODOULAKIS J., TZANIS C., and CRACKNELL A.P., 2014, **Signature of tropospheric ozone and nitrogen dioxide from space: a case study for Athens, Greece.** *Atmospheric Environment*, 89, pp.721-730, doi: 10.1016/j.atmosenv.2014.02.059.

9. TSAKALOS E., CHRISTODOULAKIS J., CHARALAMBOUS L., 2015, **The Dose Rate calculator (DRc) for luminescence and ESR dating - a Java Application for Dose Rate and Age Determination.** *Archaeometry*, 58, pp. 347-352, doi: 10.1111/arc.12162.
10. XAPLANTERIS C.L., FILIPPAKI E.D., CHRISTODOULAKIS J.K., KAZANTZAKI M.A., TSAKALOS E.P., and XAPLANTERIS L.C., 2015, **Cold Atmospheric Plasma Activity on Micro-organisms. A Study on the Influence of the Treatment Time and Surface.** *Journal of Plasma Physics*, 81, 905810401 doi:10.1017/S002237781500032X.
11. CHRISTODOULAKIS J., VAROTSOS C., CRACKNELL A.P., TZANIS C., and NEOFYTOS A., 2015, **An assessment of the stray light in 25 years Dobson total ozone data at Athens, Greece.** *Atmospheric Measurement Techniques*, 8, 3037-3046, doi:10.5194/amt-8-3037-2015.
12. KRAPIVIN V.F, VAROTSOS C.A, and CHRISTODOULAKIS J., 2016, **Mission to Mars: Adaptive Identifier for the Solution of Inverse Optical Metrology Tasks.** *Earth, Moon and Planets*, 118:1, doi: 10.1007/s11038-016-9487-0
13. TSAKALOS E., ATHANASSAS C., BASSIAKOS Y., TSIPAS P., TRIANTAPHYLLOU M., GERAGA M., PAPTAEODOROU G., CHRISTODOULAKIS J., and KAZANTZAKI M., 2016, **Luminescence geochronology and paleoenvironmental implications of coastal deposits of southeast Cyprus.** *Archaeological and Antropological Sciences*, doi: 10.1007/s12520-016-0339-7.
14. CHRISTODOULAKIS J., TZANIS C.G., VAROTSOS C.A, FERM, M., and TIDBLAD, J., 2017, **Impacts of air pollution and climate on materials in Athens, Greece.** *Atmospheric Chemistry and Physics*, 17, pp.439-448, doi: 10.5194/acp-17-439-2017.
15. TSAKALOS E., DIMITRIOU E., KAZANTZAKI M., FILIPPAKI E., CHRISTODOULAKIS J., ANAGNOSTOU C., 2018, **Testing optically stimulated luminescence dating on sand-sized quartz of deltaic deposits from Sperchios delta plain, Greece.** *Journal of Palaeogeography*, doi: 10.1016/j.jop.2018.01.001.
16. LABZOVSKII L.D., PAPAYANNIS A., BINIETOGLU I., BANKS R.F., BALDASANO J.M., TOANCA F., TZANIS C.G., CHRISTODOULAKIS J., 2018, **Relative humidity vertical profiling using lidar-based synergistic methods in the framework of the Hygra-CD campaign.** *Annales Geophysicae*, 36, 213–229, doi: 10.5194/angeo-36-213-2018.
17. CHRISTODOULAKIS J., VAROTSOS C.A, CRACKNELL A.P., KOUREMADAS G., 2018, **The deterioration of materials from air pollution as derived from satellite and ground based observations.** *Atmospheric Environment*, 185, 91-99, doi: 10.1016/j.atmosenv.2018.04.052.
18. DISCHER M., MAUZ B., MARTIN L, DURCAN J., KING G., TSAKALOS E., CHRISTODOULAKIS J., LANG A., 2018, **Calculating or simulating the dose rate? A comparison.** *Radiation Measurements*, doi: 10.1016/j.radmeas.2018.09.006.
19. CHRISTODOULAKIS J., 2018, **Paleoenvironmental reconstruction of southwestern Peloponnesus using luminescence dating techniques.** (Thesis Abstract) *Ancient TL*, 36, doi: 10.1016/j.radmeas.2018.09.006.
20. VAROTSOS C.A., EFSTATHIOU M.N., CHRISTODOULAKIS J., 2019, **Abrupt changes in global tropospheric temperature.** *Atmospheric Research*, 217, 114-119, doi:10.1016/j.atmosres.2018.11.001.
21. CHRISTODOULAKIS J., VAROTSOS C.A, MAVROMICHALAKI H., EFSTATHIOU M.N., GERONTIDOU M., 2019, **On the link between atmospheric cloud parameters and cosmic rays.** *Journal of Atmospheric and Solar-Terrestrial Physics*, 189, 98-106, doi: 10.1016/j.jastp.2019.04.012.

22. POLISHCHUK V., KELEMEN M., GAVUROVÁ B., VAROTSOS C., ANDOGA R., GERA M., CHRISTODOULAKIS J., SOUŠEK R., KOZUBA J., BLIŠŤAN P., SZABO S. Jr., 2019, **A Fuzzy Model of Risk Assessment for Environmental Start-up Projects in the Air Transport Sector**. *International Journal of Environmental Research and Public Health*, 16, 3573; doi: 10.3390/ijerph16193573.

Under evaluation

CHRISTODOULAKIS J., 2019, **Luminescence dating of fluvial deposits from SW Peloponnesus using fine-grained quartz**. (submitted)

CHRISTODOULAKIS J., TSAKALOS E., CHRISTODOULAKI M., 2019, **Age Models calculator - AMc: A Java application for estimating an equivalent dose value based on statistical models**. (submitted)

KOKKALIS P., ALEXIOU D., PAPAYANNIS A., SOUPIONA O., RAPTIS P-I., MYLONAKI M., ROCADENBOSCH F., TZANIS C., CHRISTODOULAKIS J., 2019, **Application and Testing of the Extended Kalman Filtering Technique for Determining the Planetary Boundary Layer Height over Athens, Greece**, (submitted)

PUBLICATION IN NATIONAL POPULAR SCIENCE MAGAZINE

CHRISTODOULAKIS J., 2012, **Particulate matter. What is their role in air pollution?** *Periscope of Science*, 358, pp. 62-71.

CHRISTODOULAKIS J., 2012, **Snowflakes. Natural sculptures with many hidden secrets.** *Periscope of Science*, 359, pp. 62-71.

PUBLICATION IN BOOKS

CHRISTODOULAKIS J., 2014, **Luminescence dating and the palaeoenvironment in SW Peloponnesus**. In: V. Kassianidou, M. Dikomitou-Eliadou (Eds), *The NARNIA Project: Integrating Approaches to Ancient Material Studies*. Nicosia: The NARNIA Project and the Archaeological Research Unit, University of Cyprus, pp. 238-246.

CHRISTODOULAKIS J., ATHANASSAS C., BASSIAKOS Y., VAROTSOS C., 2016, **New geoarchaeological and palaeoenvironmental studies in Mani Peninsula (S. Peloponnesus) by employing luminescence dating techniques**, In: E. Photos-Jones. In collaboration with Y. Bassiakos, E. Filippaki, A. Hein, I. Karatasios, V. Kilikoglou and E. Kouloumpi (Eds), *Proceedings of the 6th Symposium of the Hellenic Society for Archaeometry*, BAR Publishing, 236pp.

PRESENTATIONS IN INTERNATIONAL CONFERENCES

VAROTSOS C., TZANIS C., CHRISTODOULAKIS J., **Contribution of the Athens University to Envisat Intercomparison of the Total Ozone Observations at Athens, Greece**, (AOID174) ENVISAT Validation Workshop, ESA/ESRIN, Frascati, Italy, 9-13 December 2002.

VAROTSOS C., TZANIS C., CHRISTODOULAKIS J., EFSTATHIOU M.N., **Total Ozone Content at Athens, Greece deduced from ground-based and satellite-borne instrumentation**, Proc. Quadrennial Ozone Symposium, Kos, Greece, 1-8 June 2004.

CHARAMI E., CHRISTODOULAKIS J., TZANIS C., ASIMAKOPOULOS D.N., GIOTA A., VAROTSOS C., **On the variation of tropospheric ozone over Athens, Greece**, 10th International Conference on Meteorology, Climatology and Atmospheric Physics, Patras, Greece, 25-28 May 2010.

CHRISTODOULAKIS J., TZANIS C., ASSIMAKOPOULOS M.N., VAROTSOS C., **A study of the corrosion and soiling effects on materials by air pollution**, 10th International

Conference on Meteorology, Climatology and Atmospheric Physics, Patras, Greece, 25-28 May 2010.

CHRISTODOULAKIS J., VAROTSOS C., ASIMAKOPOULOS D.N., TZANIS C., **Total ozone observations made by Dobson spectrophotometer at the most SE station in Europe the last twenty years.** 11th International Conference on Meteorology, Climatology and Atmospheric Physics, Athens, Greece, 29 May – 1 June 2012.

CHRISTODOULAKIS J., **Palaeoenvironment reconstruction of SW Peloponnesus using luminescence dating technique**, PEOPLE Marie Curie Conference 2012, Nicosia, Cyprus, 5-6 November 2012.

CHRISTODOULAKIS J., BASSIAKOS Y., ATHANASSAS C., **Absolute dating and palaeoenvironmental evolution in Palaeolithic Mani, SW Peloponnesus**, EGU General Assembly 2013, Vienna, Austria, 7-12 April 2013.

CHRISTODOULAKIS J., ATHANASSAS C., BASSIAKOS Y., VAROTSOS C., **New geoarchaeological and palaeoenvironmental studies in Mani Peninsula (S. Peloponnesus) by employing luminescence dating techniques**, 6th Symposium of the Hellenic Society for Archaeometry, Athens, Greece, 16-18 May 2013.

ELEFATHERATOS K., ZEREFOS C.S., CHRISTODOULAKIS I., VAROTSOS C., TZANIS C., **10-yr measurements of total ozone over Athens, Greece by a Brewer spectrophotometer**, EUBREWNET & WMO GAW BREWER OPEN CONGRESS, State Meteorological Agency of Spain, Tenerife, Spain, 24–28 March 2014.

CHRISTODOULAKIS J., VAROTSOS C., TZANIS C., XUE Y., **Aerosol Index dynamics over Athens and Beijing**, 2014 Dragon 3 Mid-term Results Symposium, Chengdu, P.R. China, 26-29 May 2014, ESA Special Publication, SP-724.

XAPLANTERIS C.L., FILIPPAKI E.D., CHRISTODOULAKIS J.K., KAZANTZAKI M.A., TSAKALOS E.P., XAPLANTERIS L.C., **Applications of Low Temperature Atmospheric Plasma and Codification of its' Influence on the Vital-Animate Organisms**, 7th CHAOS2014 International Conference, Lisbon, Portugal, 7-10 June 2014.

CHRISTODOULAKIS J., BASSIAKOS Y., TSAKALOS E., KAZANTZAKI M., **Dating results of new palaeoenvironmental studies conducted in South Peloponnesus, Greece**, International Symposium on Archaeometry (ISA), Los Angeles, USA, 19-23 May 2014.

KAZANTZAKI M., BASSIAKOS Y., RONDOYANNI T., TSAKALOS E., CHRISTODOULAKIS J., **Quaternary Palaeoenvironmental Reconstruction of the Coastal Zone of North Evoikos Gulf (Greece) based on the use of Luminescence Dating Techniques**, International Symposium on Archaeometry (ISA), Los Angeles, USA, 19-23 May 2014.

TSAKALOS E., BASSIAKOS Y., KAZANTZAKI M., CHRISTODOULAKIS J., **Unraveling the Palaeoenvironmental Framework of Southeast Cyprus over the Late Quaternary - Luminescence Geochronology and Quartz Grains-Shape Examination**, International Symposium on Archaeometry (ISA), Los Angeles, USA, 19-23 May 2014.

CHRISTODOULAKIS J., **Luminescence dating and the palaeo-environment in SW Peloponnesus**, International conference Interdisciplinary Studies of Ancient Materials from the Mediterranean, Nicosia, Cyprus, 17-19 September 2014.

KAZANTZAKI M., BASSIAKOS Y., RONDOYANNI T., TSAKALOS E., CHRISTODOULAKIS J., **Luminescence chronology of Quaternary coastal deposits of North Evoikos Gulf (Central Greece)**, International conference Interdisciplinary Studies of Ancient Materials from the Mediterranean, Nicosia, Cyprus, 17-19 September 2014.

CHRISTODOULAKIS I., VAROTSOS C., TZANIS C., XUE Y., **New Approach For Dose-Response Functions Development**, 2015 Dragon 3 Symposium, Interlaken, Switzerland,

22-26 June 2015.

CHRISTODOULAKIS J., VAROTSOS C., TZANIS C., XUE Y., **Absorbing Aerosol Index And Energy Fluxes At Athens, Greece And Beijing, China**, 2015 Dragon 3 Symposium, Interlaken, Switzerland, 22-26 June 2015.

VAROTSOS C., LOVEJOY S., SARLIS N.V., TZANIS C., CHRISTODOULAKIS J., **On The Climate Impacts From The Scaling Behavior Of The Solar Incident Flux**, EGU General Assembly 2016, Vienna, Austria, 17-22 April 2016.

TZANIS C., CHRISTODOULAKIS J., VAROTSOS C., **On the altitude dependence of the ozone and temperature scaling behavior at the middle atmosphere over Greece**, Living Planet Symposium (LPS) 2016 - ESA, Prague, Czech Republic, 9–13 May 2016.

CHRISTODOULAKIS J., TZANIS C., VAROTSOS P.K., **An attempt to retrieve tropospheric ozone values by SCIAMACHY observations over Athens, Greece**, Living Planet Symposium (LPS) 2016 - ESA, Prague, Czech Republic, 9–13 May 2016.

KAZANTZAKI M., FILIPPAKI E., VAIOPOULOU M., TSAKALOS E., MASTROTHEODOROS G., CHRISTODOULAKIS J., **Testing Optically Stimulated Luminescence dating of sand-sized quartz and feldspar sediments from an archaeological site in Petroto – Trikala, Greece**, International Symposium on Archaeometry (ISA), Kalamata, Greece, 15-21 May 2016.

MASTROTHEODOROS G.P., FILIPPAKI E., PAPADOPOULOU V., BELTSIOS K.G., CHRISTODOULAKIS J., KAZANTZAKI M., TSAKALOS E., **Two post-Byzantine, wall painted monuments from Epirus:materials and techniques**, International Symposium on Archaeometry (ISA), Kalamata, Greece, 15-21 May 2016.

CHRISTODOULAKIS J., TZANIS C.G., VAROTSOS C.A., KOUREMADAS G., **Implementation of the new approach for the dose-response functions development for the case of Athens and Greece**, 2016 Dragon 3 Final Results & Dragon 4 KO Symposium, Wuhan, P.R. China, 4-8 July 2016.

TZANIS C.G., CHRISTODOULAKIS J., VAROTSOS P.K., **Total Ozone Dynamics Over Athens, Greece And Beijing, China**, 2016 Dragon 3 Final Results & Dragon 4 KO Symposium, Wuhan, P.R. China, 4-8 July 2016.

CHRISTODOULAKIS J., TZANIS C.G., VAROTSOS P.K., KAPSALIS N., **Study Of The Impact Of Clouds And Aerosol Loading On The Radiative Forcing At Athens, Greece And Beijing, China**, 2016 Dragon 3 Final Results & Dragon 4 KO Symposium, Wuhan, P.R. China, 4-8 July 2016.

CHRISTODOULAKIS J., KOUREMADAS G., VAROTSOS C.A., XUE Y., **Evaluation of RSD-DRFs technique using deterioration experimental data**, 2017 Dragon 4 Symposium, Copenhagen, Denmark, 26-30 June 2017.

DISCHER M., MAUZ B., MARTIN L., DURCAN J., KING G.E., TSAKALOS E., CHRISTODOULAKIS J., LANG A., 2017. **Calculating or simulating the dose-rate? A comparison**. Luminescence and Electron Spin Resonance Dating conference (LED) 2017, Cape Town, South Africa, 11-15 September 2017.

KAZANTZAKI M., FILIPPAKI E., BASSIAKOS Y., TSAKALOS E., CHRISTODOULAKIS J., **Late Pleistocene-Holocene environmental changes on Kalamas river delta plain-NW Greece**, 42nd International Symposium on Archaeometry, Merida, Mexico, 20 – 26 May 2018.

CHRISTODOULAKIS J., KOUREMADAS G., VAROTSOS C., XUE Y., **First Results Of The Satellite Sensed Data-Dose Response Functions Development**, 2018 Dragon 4 Mid-term Results Symposium, Xi'an, P.R. China, 19 - 22 June 2018.

CHRISTODOULAKIS J., KOUREMADAS G., VAROTSOS C., **Trend and statistical analysis of very short-lived halogenated substances**, 14th International Conference on Meteorology, Climatology and Atmospheric Physics, Alexandroupolis, Greece, 15-17 October 2018.

CHRISTODOULAKIS J., KOUREMADAS G., VAROTSOS C., XUE Y., **Expanding The Use Of The Satellite Sensed Data-Dose Response Functions**, 2019 Dragon 4 Symposium, Ljubljana, Slovenia, 24 - 28 June 2019.

CHRISTODOULAKIS J., TSAKALOS E., KAZANTZAKI M., FILIPPAKI E., BASSIAKOS Y., **Paleotemperature and paleoprecipitation estimations at South Peloponnese, Greece, during last about 2500 years**, 6th Croatian Geological Congress, Zagreb, Croatia, 9 - 12 October 2019.

CHRISTODOULAKIS J., KOUREMADAS G., VAROTSOS C., **On the scaling of the global average surface temperature during last two million years**, 7th Symposium on Archaeometry of the HSA, "Archaeology – Archaeometry: 30 years later", Athens, Greek, 9 – 12 October 2019.

CHRISTODOULAKIS J. **An estimation of the conversion factors' influence on the accuracy of Optically Stimulated Luminescence dating. A suggestion for new conversion factors**, 7th Symposium on Archaeometry of the HSA, "Archaeology – Archaeometry: 30 years later", Athens, Greek, 9 – 12 October 2019.

CHRISTODOULAKIS J., KOUREMADAS G., FOTAKI E.F., VAROTSOS C., **First Total Ozone Column validation results of TRO3VALAG project**. Copernicus Sentinel-5 Precursor Validation Team Workshop, ESA-ESRIN, Frascati (Rome), Italy, 11-14 November 2019.

INVITED PRESENTATIONS

- *"Ancient Mediterranean landscape reconstruction"*. Training Course, N.C.S.R. "Demokritos", 29-31 October 2013, Athens.
- *"The application of the luminescence dating techniques in archaeology and geoarchaeology-practical steps"* NIA - Leiden Workshop 'Conservation, Documentation & Physicochemical study of Glazed Ceramics' Athens & Chalkis (central Greece), 18 - 29 June 2018.
- *"Satellite data at the service of Cultural Heritage"* Leiden University – Ephorate of underwater antiquities– Netherlands Institute at Athens (N.I.A) – National Centre for Scientific Research "Demokritos" Workshop 'Conservation and physicochemical study of Nisyros shipwreck pottery', Athens & Chalkis, 17 - 28 June 2019.

JOURNAL REVIEWER

- International Journal of Remote Sensing
- CLEAN – Soil, Air, Water
- The Scientific World Journal
- Remote Sensing Letters
- Atmospheric Environment
- Frontiers in Environmental Science
- Journal of Structural Geology
- Environmental Pollution
- Atmosphere, MDPI, Member of Review Board
- Remote Sensing, MDPI

- Journal of Environmental Pollution and Control
- REVISTA UNIVERSITAS SCIENTIARUM

MEMBERSHIPS

- European Geosciences Union
- Hellenic Physical Society
- Balkan Physical Union
- Hellenic Society for Archaeometry
- Hellenic Society of Physics for Science and Education

EDUCATION

2018

Ph.D. in Paleoenvironment – Luminescence dating, Faculty of Physics, Department of Environmental Physics and Meteorology, National & Kapodistrian University of Athens in collaboration with National Centre for Scientific Research “Demokritos”.

2009

M.Sc. in Environmental Physics, Faculty of Physics, Department of Environmental Physics and Meteorology, National & Kapodistrian University of Athens.

2006

B.Sc. in Physics at the National & Kapodistrian University of Athens

LANGUAGES

ENGLISH Excellent

GERMAN Good

COMPUTER SKILLS

- Operating systems: Windows, Linux
- Programming Languages: Fortran, R, Matlab
- Software packages: SPSS, Origin, SigmaPlot, Weka, Specialised software packages according to research needs
- GIS
- Experience in hardware

SEMINARS

2019	Seminar "Days of Spectroscopy", NCSR "Demokritos"
2018	Seminar on Microscopy, NCSR "Demokritos"
2014	SPSS: Statistical Analysis and Data Management (150 teaching hours).
9/2013	Methodologies in analyzing structured and semi-structured archaeological data for knowledge extraction. Training course, EuroCy, 26-27 September 2013, Nicosia, Cyprus.
6/2013	Aegean ceramic technology from theory to practice. Training course, THETIS, 20-27 June 2013, Athens.
6/2013	Mechanical and thermal properties of archaeological ceramics. Training course, N.C.S.R. “Demokritos”, 17-19 June 2013, Athens.
5/2013	Information systems for Archaeology and Cultural Heritage. Training course, University of Paris Ouest, 27-29 May 2013, Paris, France.
1/2013	Introduction to pXRF in Archaeology. Training course, University of Sheffield, 14-19 January 2013, Sheffield, Great Britain.
2012-2013	Basic principles of Geographic Information Systems (GIS)
2006-2007	Training Scheme of the Vocational Training Centre, St. Anargyroi, on "Facilities Photovoltaic Systems and Wind" (270 teaching hours)

TEACHING EXPERIENCE

Lecturer at the Department of Digital Systems of University of Peloponnese.

Teaching laboratory course “Physics I Mechanics” in the Department of Physics of NKUA during the academic years 2008-2009, 2009-2010, 2010-2011, 2011-2012, 2012-2013.

Teaching laboratory course “Physics II Thermodynamics” in the Department of Physics of NKUA during the academic year 2010-2011.

Teaching laboratory course “Laboratory of Atmospheric Physic” in the Department of Physics of NKUA during the academic years 2008-2009, 2009-2010, 2010-2011.

Co-teaching undergraduate course “Physico-Chemistry of the atmosphere” in the Department of Physics of NKUA during the academic years 2013-2014, 2014-2015.

Co-teaching undergraduate course “Physics Meteorology” in the Department of Mathematics of NKUA during the academic years 2013-2014, 2015-2016, 2016-2017, 2017-2018.

Co-teaching postgraduate course “Middle and Upper Atmosphere Physics” in the Department of Physics of NKUA during the academic years 2013-2014, 2014-2015, 2015-2016.

Teaching course “Electronic and digital measurements” and “Computer Use” at the Private Institute of Vocational Training "DOMI" during the spring semester of the academic year 2009-2010.

Teaching course “Signal Transmission” at the Private Institute of Vocational Training ‘DOMI’ during the fall semester of the academic year 2010-2011.

Training and support of undergraduate and postgraduate students for disserting their thesis in the field of luminescence dating and paleoenvironment in collaboration with GP-AMS.

Co-Supervising 13 undergraduate dissertations.

Co-Supervising 4 master dissertations.