



Prof Ioannis Liritzis CV in Brief

IOANNIS LIRITZIS (b. 2-11-1953, Delphi, Greece)

Professor of Archaeometry

University of the Aegean, Dept. of Mediterranean Studies, Rhodes, Greece

TEL & FAX.: +30 22410 99320, 99385-6; 210-5027085, mob. 6932-275757,

E-MAIL: liritzis@rhodes.aegean.gr

Director (& Founder) Research Lab. of Archaeometry (2000-)

(http://www.rhodes.aegean.gr/tms/Site_in_English/Directions_of_study/Archaeology/archaeometry_lab.htm)

Director of Lab. of Informatics (2004-2010)

Director of Lab of Environmental Archaeology (2011-)

Head of the Dept. of Mediterranean Studies (2004-2006)

UNDERGRADUATE STUDIES

Patras University, Department of Physics, Greece (B.Sc in Physics (Hons., 1975).

POSTGRADUATE STUDIES

1) *Nuclear Instrumentation* (Postgraduate Course, 1976)- Designated Radiation Worker, 1979. His work was made at the Research Laboratory for Research & Conservation, National Museum of Scotland, Edinburgh, the Scottish Universities Research & Reactor Center, Glasgow and Dept of Physics, Edinburgh University, Scotland.

2) *Nuclear Physics Applied in Archaeology- Radiochemistry*, University of Edinburgh (Ph.D, 1980. Supervisor: Dr R.B.Galloway, Internal Examiner: Prof Ken Creer),

3) MacMaster University, Dept of Geology (under Prof. H. Schwarcz), Hamilton, Ontario, Canada (post-grad experience on radiochemistry of cave deposits by U-Th dating, 1977).

POSTDOCTORAL RESEARCH- AFFILIATED RESEARCHER

1979-82 Laboratory of Physics B' (Nuclear Physics), University of Patras (setting up basic lab. for dating with thermoluminescence & U-Th)

1982-89 Center of Astronomy & Applied Mathematics, Academy of Athens (with Late Prof. J.Xanthakis, on geomagnetic field variation, time series analysis, solar-terrestrial phenomena)

1982 University of Oxford, Research Lab for Archaeology & History of Art (with Prof Martin Aitken, on archaeomagnetism of Byzantine Churches)

1982 Atomic Energy Research Establishment HARWELL (with Dr Miro Ivanovich, on isotopic measurements of speleothems)

1986 Scholarship Recipient (National Research Foundation & Royal Society, London), in the Dept of Geophysics, University of Edinburgh (working with Prof Ken Creer on archaeomagnetism and auroral variation)

1988-9 State Scholarship Recipient (IKY, National State Scholarship), Dept. of Physics and Dept. of Geophysics, University of Edinburgh (working with Prof. Ken Creer and Dr. R.B.Galloway on nuclear Geophysics, radioactivity measurements of sediments and their relationships with palaeoclimate and solar activity)

1995 (Jan.- March) Maitre de Conference, University of Bordeaux III, Centre de Recherche en Physique Appliquee a l'Archeologie, (invited by Prof. Max Schvoerer, with tasks of lecturing and research on Optical and Thermo- luminescence Dating of limestone monuments).

1999 (1995-1999): Collaborative external researcher with the Institute of Oceanography, National Center of Marine Research, backing research programmes of marine geology & geophysics. Research on Aegean marine aspects related to palaeoclimatology, chronology.

2003 Research Visit to Tennessee University, Dept of Anthropology, and Oak Ridge National Laboratory, USA (collaboration with Dr M.Elam, Dr L.Riciputi, Dr L.Anovitz, on secondary ion mass spectrometry of obsidians).

EMPLOYMENT-PROFESSIONAL CARRIER

1983-1989: Ministry of Culture, Dept of Underwater Antiquities (Research Physicist in Archaeology).

1989-1999: Academy of Athens, Principal Investigator, Research Center for Astronomy & Applied Mathematics.

1999- today: Elected Full Professor at the Dept of Mediterranean Studies, University of the Aegean, Rhodes in the subject "*Archaeometry with emphasis in the interdisciplinarity and its application in the Mediterranean Archaeology*"

ADMINISTRATION & SOME COMMITTEES

2000 - today: *Director (& Founder) of the Laboratory of Archaeometry.*

2000 - 2002 *Vice-Head of the Temporal Committee of the Dept of Mediterranean Studies.*

2004 - 2006: *Head of the Dept. of Mediterranean Studies, University of the Aegean, Rhodes.*

2004 - 2006: *Member of the Board of Senatus of the University of the Aegean.*

2004 – 2006: *Member of the Board of School of Human Sciences of the University of the Aegean.*

2004 - 2010: *Director of the Lab. of Informatics, Dept of Mediterranean Studies.*

2005 - 2009: *Member of the Temporal General Assembly for the Dept of Archaeology, History & Cultural Management, University of Peloponnesse, Kalamata, Greece.*

2005 - 2009: *Member of the Temporal General Assembly for the Dept of Philology, University of Peloponnesse, Kalamata, Greece.*

2005 -2008: *Member of the Executive Committee of the National Organization for recognition of higher education Diplomas (Greek NARIC), for the Natural Sciences (participation in various Committees of the Organization for Software Supply (Head) and Conferences)*

2006-2009: *National Expert in the 7th Framework Programme of European Union in the Programme “Cooperation- Socioeconomical Sciences and Humanities”*

2002-2006: *Introduced the subject of Physical Sciences in Archaeology (Archaeometry) to the State Scholarship Foundation (IKY) (code no. 1500521537.008.040) and served as the coordinator and examiner.*

2009-2010: *Member of the Temporal General Assembly for the Dept of Regional Economic Development, University of Central Greece, Livadia, Greece.*

2010- : *Elected Member of Local Council of the Municipality of Delphi, Head of the Committee of Educational Strategy & Cultural Planning.*

TEACHING ACTIVITIES

- 1978-9 Teaching 2nd year Biology and Physics Students, University of Edinburgh (laboratory demonstrating and tutorial duties, 7 hours/week).
- 1995 (January-March) Salaried Visiting Professor (Maitre de Conference) University de Bordeaux III, Dept of Physics), Academie de Bordeaux, Division de l'Enseignement Supérieur (teaching archaeometry aspects on postgraduate students).
- 1997 Lecturing at the Masters Degree of Dept of Geology, Aristotle University of Thessaloniki.
- Oral presentations in more than 100 international or national conferences.
- Lecturing at the European University Center for the Cultural Heritage, Ravello, Italy, in the postgraduate Seminar «Cave & Rural Art”.
- 1981-2 Teaching Army Officers in the Technical Corp, at Patras.
- Organization & Coordination of more than 10 International Conferences in Delphi and Rhodes.
- 1992: Coordinator, Scientific Responsible and Lecturer in the Intensive Course for young Physics Graduates on “Physics & Archaeology” (funded by Ministry of Culture & EU), for the Hellenic Physical Union.
- 1999- today: Teaching Archaeology Students in the Dept of Mediterranean Studies, University of the Aegean, Rhodes.
- 2010-12: Teaching in Master Degree on ‘Chemistry, Technology & Management of the Environment’ the course ‘Environmental Archaeometry’, Dept of Chemistry, University of Athens.
- 2012-13: Responsible-Coordinator- Tutor, in the *e-Learning in Archaeometry (new technologies, conservation and management)*, Programme of Polynisiotikotita (multiinsularity), University of the Aegean.(<http://e-epimorfosi.aegean.gr/archeometry-program-home>).
- 2013-14: Responsible-Coordinator- Tutor, in the accredited *e-Learning in Archaeometry (new technologies, conservation and management)*, Programme of Polynisiotikotita (multiinsularity), University of the Aegean.(<http://e-epimorfosi.aegean.gr/archeometry-program-home>).

epimorfosi.aegean.gr/archeometry-program-home) & the *e-Learning in Archaeoastronomy* http://e-epimorfosi.aegean.gr/e-viewpr?prpd_id=48931&menu=general

e-Learning in Archaeometry 2013-14

http://e-epimorfosi.aegean.gr/e-viewpr?prpd_id=55493&menu=general (archaeometry)

. • 2013-14: Responsible-Coordinator- Tutor, in the accredited *Summer School of Aegean Maritime Archaeology* Programme of Polynisiotikotita (multiinsularity), University of the Aegean. <https://aegeanarch2013.pns.aegean.gr/>, <https://aegeanarch2014.pns.aegean.gr/>, and a new one on Digital Cultural Heritage:

<http://digarch14.syros.aegean.gr/>.

TEACHING COURSES AT RHODES

(All courses are evaluated- learning outcome- by several approaches: Accompanied by powerpoint presentation occasionally videos, as well as, interactive process e.g. question & answer, trial & error, also, emphasis is given to fieldwork visits to archaeological sites and monuments where the application of various methods and techniques are described, use of softwares, virtual labs (ongoing development), essays (home work), hand on instrumentation, supply with Greek and foreign bibliography e.g. articles in pdf usually reviews or particular applications, clear reading material for exams, further (optional) reading. Also, any current discoveries or applications with World or regional impact to the respective topics)

A. University of the Aegean, Dept of Mediterranean Studies, Rhodes

1. *ARCHAEOLOGY & NATURAL SCIENCES: INTERDISCIPLINARY APPROACHES*
2. *ARCHAEOOMETRY INSTRUMENTATION (LABORATORY WORK).*
3. *SELECTIVE ISSUES OF ARCHAEOMETRIC APPLICATIONS*
4. *DATING METHODS IN ARCHAEOLOGY (OCCASIONALLY PROVIDED)*
5. *ARCHAEO-MATERIALS*
6. *NEW TECHNOLOGIES IN ARCHAEOGNOSTIC SCIENCES.*
7. *ARCHAEOENVIRONMENT: MARITIME, COASTAL & INLAND ARCHAEOLOGY*
8. *MUSEOLOGY & PREVENTIVE CONSERVATION*

B. University of Athens, Chemistry Dept, Master Degree on Management & Environmental Chemistry (2010-)

1. The semester course “*ENVIRONMENTAL ARCHAEOOMETRY*”

SUPERVISOR OF PhD THESES

- 1) “New dating method of hydrated obsidian tools”, by M.Diakostamatiou, (awarded, 2003)
- 2) “Investigation of dating ancient monuments by luminescence”, by A.Vafiadou, (awarded, 2006)
- 3) “Archaeoastronomical orientation of ancient temples and churches in the Mediterranean (interpretation based on archaeology, history, mythology and religious aspects), by H.Vassiliou, (awarded 2007).

- 4) “Early archaeometallurgy in the Aegean: contribution to dating of metals”, by I.Arfa, 2010 (expected)
- 5) “The chromatics of Theophrastus from Eressos: pigment analysis and provenance by spectroscopy techniques”, by T.Katsaros, 2009 (awarded).
- 6) “Improvement of the obsidian diffusion dating by SIMS-SS by nuclear techniques”, by N.Laskaris, 2010 (awarded).
- 7) “Archaeoastronomical orientations in Bronze Age monuments from Israel and near East”, G.Artelaris (expected 2011).
- 8) “Which method to use? Development of a model for the use of the most appropriate statistical method for grouping of archaeological artifacts” by Maxoutoglou Alike (2013-)
- 9) “Informatics technologies & Virtual reality in archaeological and archaeometric education” by P.Volonakis (2014-)

SUPERVISOR OF SOME BSc DIPLOMA THESIS

- 1) Belexis.Th and Panagiotopoulos, V (Univ. of Athens, Dept of Geology, Division of Geothermy- Geophysics (1991) «Radioactive Dating of quaternary sediments by thermoluminescence »
- 2) Giannopoulou.M (Univ of Athens, Dept of Geology, Lab of Teledetection, 1995) “Investigation of periodical variations of Jupiter’s atmosphere”,(Liritzis, I & Moutsoulas, M)
- 3) Diagourtas D (Univ of Athens, Dept of Geology, Division Geophysics-Geothermy, 1992) “Correlation Study between Hellenic and Global seismicity”
- 4) Sotiropoulos, P (Univ of Athens, Dept of Geology, Division Geophysocs-Geothermy, 1992)”Recording and processing of archaeomagnetic intensity data”(Liritzis, I & Lagios, E)
- 5) Alexopoulos, A (Agricultural Univ of Athens, Dept of Plant production, Lab of Agriculture, 1993) “ Variations in the yield of some long cultivations in relation to environmental variables” (Liritzis, I & karamanos, A).
- 6) Machera, E (Univ of Athens, Dept of Physics, Division of Astronomy, Mechanics & Astrophysics, 1993)” Aurorae and its dependence from solar and terrestrial phenomena” (Liritzis, I & Antonopoulou, E)
- 7) Vrettos, S (Univ of Athens, Dept of Physics, Division of Astronomy, Mechanics & Astrophysics, 1994)”Investigation of aurorae during 22nd solar cycle in relation to solar-terrestrial phenomena” (Liritzis, I & Petropoulos, B, Preka, Y).
- 8) Maragopoulou, A (Univ of Athens, Dept of Physics, Division of Astronomy, Mechanics & Astrophysics, 1995)”Investigation of brightness variation in equatorial regions in Jupiter’s atmosphere” (Liritzis, I & Preka, Y, Petropoulos, B).
- 9) Kostopoulos, K (Univ of Athens, Dept of Physics, 1996)”A Study on the variation of parameters regarding Jupiter’s great red spot” (Liritzis, Preka, Y, Petropoulos, B)
- 10) Andrianopoulos, N (Univ of Athens, Dept of Physics, 1996) “ Investigation of the periodical variation on X Rays from solar flares” (Liritzis, I Preka, Y, Petropoulos, B).

- 11) Koliadi, M (Univ. of the Aegean, Dept of Mediterranean Studies) (2003)
«Archaeological and archaeometrical study of temple complex Seti A in Abydos, Egypt »
- 12) Nousia, M (Univ. of the Aegean, Dept of Mediterranean Studies) (2004)
«Dating methods in archaeometry: new perspective and directions in dating methods of obsidian hydration, radiocarbon and optical-thermoluminescence»
- 13) Eleftheriou, P (Univ. of the Aegean, Dept of Mediterranean Studies) (2004)
«Pigments and painting in sepulchral monuments of Hellenistic period- Chemical analyses from Rhodes necropolis»
- 14) Kontopoulos, I. (Univ of the Aegean, Dept of Mediterranean Studies) (2008)
“Geophysical prospection at the Acropolis of Rhodes”
- 15) Antoniadou Christina (Univ of the Aegean, Dept of Mediterranean Studies) (2011) “The Dynasties of Middle and New Kingdom: Achievements & Chronology”(co-supervisor)
- 16) Belen Castro Martin (Univ of the Aegean, Lab of Archaeometry) (2013-14)
“Calendars in Eastern Mediterranean: Ancient Greece, Egypt and Mesopotamia”
- 17) Anna Kalaitzaki (Univ of the Aegean, Lab of Archaeometry) (2013-14)
“Ancient Porphyra: trade and archaeometrical analysis”
- 18) Konstantina Anagnostou (Univ of the Aegean, Lab of Archaeometry) (2013-14)
“Sarakenos Cave (Kopais lake, Boeotia, Greece): the contribution of microphorphological analysis to stratigraphy”

ACADEMIC AWARDS/DISTINCTIONS

- *European Science Foundation Research Award 1983, through the Academy of Athens, for Archaeomagnetic measurements from Byzantine Churches*
- *Research Grant by the Academy of Athens (1982) for archaeomagnetic measurements in the Research Lab for Archaeology & History of Art, of the Univ of Oxford (Nov-Dec 1982)*
- *Study Visit Award by The Royal Society, London under the European Science Exchange Programme, to visit the University of Edinburgh (1983).*
- *Study Visit Award by The Royal Society, London under the European Science Exchange Programme, through the National Hellenic Research Foundation, to realize research in the University of Edinburgh (1986).*
- *Invited-Visiting Professor (Maitre de Conference) University de Bordeaux III, Dept of Physics (1995).*
- *Membre de Correspondance de l'Academie de Sciences, Arts et Belles Lettres de Dijon, France (2003).*
- *Active Member of the European Academy of Sciences & Arts, Class IV Natural Sciences.* (<http://www.acascia-dijon.fr/accueil/archives/nouvelle-n°74-1er-trimestre-2008/>)
- *Included in the WHO'S WHO IN THE WORLD Marquis edition, USA.*
- *Academy of Athens Award for the Book Archaeometry: dating methods in archaeology, 1986.*
- *Reference of Praise, Dept of History, Archaeology & Cultural Management, University of Peloponnese, 2010.*

- **Award of first graduated student from Patras University, Dept of Physics, by the Univ of Patras Student Parents Association (1975).**
- **Archaeometry Professorship Costa Navarino Prize, 2010, University of Peloponnese, Lab of Archaeometry (by international committee, http://kalamata.uop.gr/~Archaeolab/AWARD_en.pdf).**
- **Luminescence in Archaeology International Symposia (LAIS), New International initiative, President (2009 Delphi, 2012 Libon, Paris 2015 expected)**
- **Corresponding Member of the Advisory Committee, Shanghai Archaeological Forum (Institute of Archaeology, Chinese Academy of Social Sciences), 2013 (Website: shanghaiarchaeologyforum.org)**
- **Elsevier Reviewer Recognition**
- **Honorary Professor at the Samara Institute - Higher School of Privatization and Enterprise, Russia (2014).**
- **Honorary & Guest Professor at the Samara State Academy of Culture & Arts, Russia (2014) (<http://smrgaki.ru/index.php>)**
- **Member of International Scientific Advisory Council of International School for Advanced Research in Cultural Studies (Samara State Academy of Culture & Arts), Russia**
- **FNRS EXPERT, BELGIUM**
- **Invited Technical Program Committee 20th Intern Conf. Virtual Systems & Multimedia (VSMM), Hong-Kong Dec. 9-12, 2014 (<http://www.vsmm2014.org/#!/committee/cqn6>)**
- **Invited to Program Committee of the 2nd International Conference on Virtual Archaeology, Hermitage Museum St Petersburg, Russia (<http://www.virtualarchaeology.ru>)**

PROFESSIONAL SOCIETIES (in the past and present)

- Fellow of the Royal Geographical Society, GB
- Fellow of the New York Academy of Sciences, USA
- Fellow of the Royal Astronomical Society, GB
- International Astronomical Union
- Institute of Physics, GB
- Hellenic Geophysical Society
- Hellenic Archaeometry Society
- Hellenic Geographical Society
- Hellenic Sedimentological Society
- Hellenic Astronomical Society (Hell.A.S)
- Society for the Study of Ancient Hellenic Technology
- Member and National Representative of the European Study Group for Archaeometry of the Council of Europe (PACT)
- Hellenic Physical Society
- International Environmental Association GLOBAL-NEST
- European Panel for the European Lake Drilling Project (EC)
- International Astronomical Union (IAU)
- Society of Astronomy in Culture (SEAC)
- World Archaeological Congress

- Coastal Education & Research Foundation, Inc. (CERF) USA, Society Member

EDITOR & EDITORIAL BOARDS (20)

MEMBER OF EDITORIAL BOARDS (18):

- *Journal of Coastal Research (USA) (SCOPUS, ICI)*
- *Archaeosciences (Revue d'Archeometrie) (France, 2008 onwards)*
- *Journal of Radioanalytical and Nuclear Chemistry (Kluwer-Dordrecht and Academiai Kiado-Budapest)(2000-2004) (SCOPUS, ICI)*
- *Intern. Journal of Human Development & Information Systems (www.serialspublications.com)*
- *Research Journal of Applied Sciences (2007-) (<http://www.medwelljournals.com/>) (SCOPUS)*
- *Heritage & Society (Left Coast Press, USA).*
- *Egyptian Journal of Archaeological and Conservation Studies (Published by the Archaeological and Conservation Studies and Research Center, Sohag University, Egypt)*
- *Online Journal of Earth Sciences (<http://www.medwelljournals.com/>)*
- *Research Journal of Applied Sciences(ICI, Scopus) (<http://www.medwelljournals.com/>)*
- *Geochronometria (www.geochronometria.pl)(SCOPUS, ICI)*
- *J. Surface Engineered Materials & Advanced Technology, Scientific Research (www.scirp.org/journal/jsemat) (2010-)*
- *Atmospheric & Climate Sciences (<http://www.scirp.org/journal/acs/>)(2011-)*
- *Journal of Cultural Heritage(Elsevier)(SCOPUS, ICI)*
- *International Journal of Imaging & Robotics (IJI)(cited in SCOPUS) (<http://www.ceser.in/ceserp/index.php/iji>)*
- *Arqueología Iberoamericana (SCOPUS, <http://www.laiesken.net/arqueologia/>)*
- *Advanced Archaeology (<http://www.laiesken.net/archaeology/en/editorial-team.html>.)*
- *E-Journal Virtual Archaeology (State Hermitage Museum, St Petersburg Russia; <http://virtualarchaeology.ru/en/contacts/index.php>)*
- *Review of European Studies (<http://www.ccsenet.org/journal/index.php/res>)*

EDITOR IN CHIEF (3):

- *Mediterranean Archaeology & Archaeometry (Editor-in-Chief (www.rhodes.aegean.gr/maa_journal) (Founder and Editor in Chief since 1999-). It runs through eight editors and from an International experts Editorial Board*
- *Asian Culture and History ISSN 1916-9655(Print) ISSN 1916-9663 (Online), Canadian Center of Science and Education (<http://ccsenet.org/journal/index.php/ach/about/editorialTeam>)(2012-)*
- *SCIENTIFIC CULTURE (<http://www.sci-cult.com/files/>)*

EDITOR:

- *Scientific Editor of the News Journal TYPOS in HISTORY*. A group of Six Issues. December 2006-January 2007 (In Greek, published by Livanis Press and Typos Foundation, Athens)

Referee for: *J.Radioanal. Nucl. Chem, Nature, J.Archaeol. Sci, Archaeometry, Current Anthropology, J. Coastal Research, Nature, Science, Radiation Measurements, French Ministry of Education, USA-Israel Bilateral Grants, and others.*

RESEARCH TOPICS WITH PUBLISHED WORK

Scientific Culture, Research & Application of Physics in Archaeology (dating, characterization, analysis, provenance, archaeoastronomy, geophysical prospection on ceramics, kilns, granites, sandstones, metals and slags, sediments), Museology & Preventive Conservation, Nuclear Physics (Natural Radioactivity, Radiation Physics), Astronomy (Solar activity, Solar-Terrestrial Relationships, Cosmic Catastrophes), Geophysics & Geology (Seismology, Time Series Analysis of Geophysical data, Aurorae, Palaeoclimate), Diffusion phenomena in natural glass.

INTERNATIONAL & NATIONAL COLLABORATIONS (since 1976)

Academy of Athens (Greece), University of Athens, University of Thessaloniki, Technical University of Crete, NCPA Demokritos (Athens), National Marine Research Center (Greece), Institute of Cultural Technology (Xanthi, Greece), Edinburgh University (Scotland), Bulgarian Academy of Sciences, Bordeaux III University (France), Alexandria University (Egypt), New York State University (USA), Tennessee University (USA), Oak Ridge National Laboratory (USA) [official invitation by Dr M.Elam, University of Tennessee, and Oak Ridge National Laboratory 22-28/4/2002 to lecture and collaborate with research team for the dating with water diffusion in glass, Exchange Visitor Program Service No. P-1-0378], Virginia Dept. of Historical Resources (USA), Polytechnic School of Crete, NCPR Demokritos (Greece), Rikkyo Univ. Japan, Alexandria University (Egypt), Yarmouk University (Jordan), Lamia Higher Technological Education Establishment, Florence University (Italy), Ohio State University (USA), Riso National Lab (Denmark), Supreme Archaeological Council (Egypt), University of Smyrna (Turkey), Virginia Dept of Historical Resources (USA), University of Minings & Metallurgy (Poland), Sohag University (Egypt), Beni Suef University (Egypt), Korea, University of California San Diego, Qualcomm Inst & Center of Hellenic Studies & Dept of Anthropology (USA), Coastal Carolina University, Edwards College of Visual Arts (USA)

RESEARCH PROJECTS OF PI I.LIRITZIS MANAGED BY RESEARCH COMMITTEES (In all he served as the Principal Responsible)

ONASSIS Foundation; LAVA S.A.; Russell Trust, UK; RANDOM HOUSE (England); European Union; Ministry of the Aegean; Ministry of Culture; Municipality of Rhodes; Ministry of Education, Ministry of Development (General

Secretariat of Research and Technology); S&B industrial minerals s.a., Bilateral Projects, Royal Society(London) through Hellenic Research Foundation; Edinburgh University Scholarship (for PhD); Schillizzi Foundation (UK), Greek State Scholarship (IKY). In total 1992-1998 At least 10 Research Projects funded by private & public sources (Boundouris Foundation, Academy of Athens, Ministry of Culture on the unification of the archaeological sites in the centre of Athens by geophysical prospection, 1983-6), Ministry of the Aegean, Ministry of Development, Agricultural Bank of Greece).

In some detail:

- 1) No.737 Network GAIA - *INTERREG II (linguistics, archaeology, history, archaeometry*
1-06-2000- 31-12-2003, 263.930 €, Collaboration between Lab of Archaeometry Dept of Mediterranean Studies, Rhodes with Alexandria University (Egypt) and Yarmouk University (Jordan), Ministry of Finance, Ministry of Education, Ministry of Labour.
- 2) No.686 *INSTITUTE AT ALEXANDRIA*, 7-12-1999-2004, 29.325 €, Ministry of Exterior Affairs, Athens & Random House UK.
- 3) No.1027 *Archaeological & archaeometrical research in Neolithic settlement Ulucak: Research, preservation & restoration*, 20/03/2003- 20/03/2005, 15.072,00 €, Greek-Turkish Bilateral Programme
- 4). No.1267 *Dating Japanese obsidians by SIMS-SS*, University of Rikkyo (attn. Prof. Masao Suzuki), 01/01/2004 - 12/12/2004, 1400,00 €
- 5) No.1475, *Geophysical prospection in Monte Smith, Rhodes*, 29/06/2005- 22/06/2006, 35.000,00 € , Ministry of the Aegean & Insular Politics
- 6) No.1568, *Chromatology of Theophrastus from Eressos: Analyses, provenance contribution in the study of cultural heritage*, 12/12/2005- 31/12/2008 , 69.000,00 €, Ministry of Education, EU (75%)-Greece (25%) and co-funded by Holy Foundation St Catherine at Sinai 30%, Programme on R&D (<http://www.rhodes.aegean.gr/tms/Theophrastus/Theophrastus/Welcome.html>)
- 7) No. 1341, *Investigation of ancient carved rock surfaces (granite, marble, obsidian, basalt). Heraclitos Measure 2.2 (Sub measure 12)*, 2004-, 34.011,00 €, EU (75%) – Greek (25%) Programme on R&D. (Cancelled after approval due to inadequacy of candidate but research continued with collaborators)
- 8) No.661 *Analysis of Neolithic ceramics from the Aegean with the non destructive XRF*, 20/03/2001- 20/03/2004, 26.392 €, Ministry of the Aegean.
- 9) No.601 *Astronomical orientation of ancient monuments from the Aegean, Asia Minor and Egypt*, 20/03/2001- 20/03/2003, 19.000 €, Ministry of the Aegean.
- 10) No.865 *Analysis of wall painting from Cathedral of Amfissa (Delphi)*, 0/03/2001- 20/03/2003, 20.530 euro, Municipality of Amfissa- Delphi through Ministry of Culture..

11) *Obsidian Dating: Dating by SIMS-SS of Korean obsidians*, March 2008- Dec 2009, 3,000 E.

12) Coordinator of accepted Proposal on Networking in Greece Proposal *Digital ARCHEometry-HELL.A.N (Hellenic archaeometry labs Network)* by the Ministry of Education (EC funded Project) involving 10 partners (research and educational establishments), 2010 (2nd of the two approved top projects. Grant given to first one).

13) *Dragon Houses at Styra Euboea: Dating by luminescence*, 2008-2010, 15,000 E Municipality of Styra and Russell Trust Scotland.

Collaborating Scientist/ Joint Projects

14) Project *HERMES*, General Secretariat of Research and Development, for the Technological Educational Institute of Lamia Dept of Electronics (Assoc Prof. T. Ganetsos, Responsible) in collaboration with Lab of Archaeometry Rhodes, co-responsible I.Liritzis. Topic: Physical Sciences, entitled “Archaeology with emphasis on the New dating of Obsidian Hydration”, 2005-7, 15,000 EUROS.

15) Project *PYTHAGORAS*, Meter 2.2, funded by European Union and National Resources. Title: “Egypt-Greece in Antiquity. A historical and archaeological study with the aid of the archaeological sciences” (Responsible: Assist. Prof. P.Kousoulis-Prof.I.Liritzis expert collaborator on archaeometry issues), 2004-2007.

16) *Geophysical Prospection at St Mavra Castle at Lefkas*. Dept of Architecture Engineering National Polytechnic School, Athens (Prof. E. Apostolou, responsible), I.Liritzis researcher, 1992, 1 year, 15,000 E.

17. 1999-2001. Responsible of EU co-funded Project about the support of the new Dept of Mediterranean Studies (DMS), Rhodes. He was elected as the 1st Professor in the new Department and he essentially set the foundations of this Dept. on Issues of Administration, Syllabus, Personnel, Laboratories. The DMS has three divisions, a) Archaeology, b) Linguistics of SE Mediterranean, and c) International Relations & Organizations, and gets 200 students per annum, after exams.

18. 2002-4 Co-Director of EU co-funded Project about the Reformation of Syllabus of the Dept of Mediterranean Studies, Rhodes.

Prof Liritzis' Initiatives to establish & promote Egyptology in Greece (Dept of Mediterranean Studies, University of the Aegean, Rhodes, Greece)

1999: Establishment of the research Institute in Alexandria by the Univ of the Aegean and the President of the Hellenic Society at Alexandria Mr S Tambakis. Signed Protocole and offering of the classical building Zervoudakios School to host the Institute. (The Protocole was not realized by the new President successor of Mr Tambakis).

1999-2003: Prof Liritzis appointed Dr P. Kousoulis Egyptologist to teach Egyptology and promoted the subject to a new chair the first in Greek Universities.

1999-2004: Active collaboration between Supreme Council of Egypt and Prof Liritzis, granted permit to sample Egyptian monuments and application of surface luminescence dating method.

2000-2003: Approved (EU co-funded) Project Interreg II, named GAIA collaboration between Alexandria University, Yarmouk University and The University of the Aegean (scientific responsible Prof Ioannis Liritzis).

2003-5: Supported Dr P.Kousoulis to get a post-doc State Foundation Scholarship at the University of the Aegean, as well as, to lead a successfully approved (EU co funded)

project of programme “Pythagoras” entitled “Greece-Egypt during antiquity: Historical and Archaeological study with the aid of natural sciences”. Formation of the first Research Group of Greco-Egyptian consisted by 1 egyptologist (Dr P.Kousoulis), 2 archaeologists (Prof. A.Sampson, Dr F.Megaloudi) 2 Historians (Drs S.Syropoulos, I.Sakkas) and 2 archaeometrists (Prof I.Liritzis, post doc Dr T.Ganetsos).

Initiator of a Protocole of Collaboration between Sohag University and Aegean University on Nov 2009 signed by Prof Liritzis and Dr El Gohary and the rectors of the two Universities

Initiator of a Protocole of Collaboration between Beni Suef University and Aegean University signed by Prof Liritzis and Dr M.Metawa and the reactors of the two Universities on Febr 09 in Beni Suef and May 09 in Mytilini.

Invited Speaker at Sohag (2009) and Cairo (2010) Universities and presentation of honourable plaques to Prof Liritzis.

Research Project on the study of astronomical Orientations and Dating of Nawamis at Southern Sinai and on ancient Near East & Egypt- Aegean interactions (2010- in progress)

PUBLICATIONS

BOOKS

1. Liritzis, I (1994) *Dating methods in Archaeology*. Publ. Institut de Livre, A.Kardamitsa, 2nd Edition (*Academy of Athens Award 1986*)(in Greek).
2. Ioannis Liritzis and John Xanthakis (1991) *Geomagnetic variation as inferred from archaeomagnetism in Greece and palaeomagnetism in British lake sediments since 7000 BC*, Academy of Athens Publications, vol.53, Athens.[Book Review: by Dr Mark Noel, *Surveys in Geophysics*, 1-2, 1994].
3. Ioannis Liritzis (1991) *Radioactivity Alert*, Phototipos Publ., Athens [Book Review by Prof. P.Dimotakis in *Chimica Chronika* vol.54, no.1, p.23].
4. Ioannis Liritzis, Evangelos Lagios, D. Sotiropoulos (1992) *A global archaeointensity data bank*, University of Athens Publ., Dept. of Geology, Geophysical lab., No.3, Athens.
5. Liritzis, I (1998) *The Mystery of Greek pyramidals*. Academy of Delphic Studies, Athens (in Greek).
6. Liritzis, I (2005) *Archaeology & Environment* (1st Ed.. University of the Aegean, Dept. of Mediterranean Studies, Rhodes, 2001), 2nd Ed. Improved and Increased by 4 Chapters, Institute de Livre, A.Kardamitsa, Athens, 267 p.
7. Orphanidi, L and Liritzis, I (2005) *Introduction in Museology & Preventive Conservation*. (1st Ed. By University of the Aegean, Dept of Mediterranean Studies, Rhodes, with extended summaries per chapter in English & Arabic), 2nd Ed. Increased & Improved, 2006, and 3rd Ed. Increased, 2013, by Institute de Livre, A.Kardamitsa, Athens.
8. Liritzis, I (2007) *Physical Sciences in Archaeology*, G.Dardanos-Typoshito Publisher, 1st Ed. 2005, 2nd Edition Improved, 2007, 703 p. (in preparation in English with a foreign publisher).
9. Liritzis, I, Singhvi, A.K, Feathers, J.K, Wagner, G.A, Kadereit, A, Zacharias, N, and Li, S-H (2013) *Luminescence Dating in Archaeology, Anthropology and Geoarchaeology: An Overview*. SpringerBriefs in Earth System Sciences (<http://link.springer.com/content/pdf/10.1007/978-3-319-00170-8.pdf>)

(NOTE: The archaeometry books in Greek are the only ones existing in Greece and taught in Greek Universities).

BOOK EDITOR / CO-EDITOR

1. Ioannis Liritzis, Gregory Tsokas (Editors) *Second Southern European Conference on Archaeometry*, PACT series No.45, Council of Europe, 1996, Belgium.
2. Ioannis Liritzis, Tony Hackens (Editors), *First Southern European Conference on Archaeometry*, PACT series No.15, Council of Europe, 1986, Belgium.
3. Ioannis Liritzis (Guest Editor) (2001) *Archaeometry in Archaeology: New Trends*, Proceedings of International Workshop (3-6 Nov., 1999, Rhodes) in *J.Radioanal. Nuclear Chem.*, vol. 247, No 3, 596-730.
4. Liritzis, I (Ed.) (1994) *Delphi Idea, Ancient Greek Rationale and Contemporary World, Proceedings of 1st Philosophical Meeting Contemporary Scepticism*, Academy of Delphic Studies, No.1, 109 p. (ISBN 960-220-584-9).(in Greek & English languages)
5. Liritzis, I (Ed.) (1996) *Delphi Idea, Ancient Greek Rationale and Contemporary World, Proceedings of 2nd Philosophical Meeting Contemporary Scepticism*, Academy of Delphic Studies, No.2, 57 p. (ISBN 960-85798-0-5).
6. Liritzis, I (Ed.) (1997) *Delphi Idea, Ancient Greek Rationale and Contemporary World, Proceedings of 3rd Philosophical Meeting on Contemporary Scepticism*, Academy of Delphic Studies, No.3, 108 p. (ISBN 960-85798-0-5) (with extended summaries in English).
7. Liritzis, I (Ed.) (1999) *Delphi Idea, Ancient Greek Rationale and Contemporary World, Proceedings of 4th Philosophical Meeting on Contemporary Scepticism, Topic: Myth & Reality from within the Ancient Greek Texts and the Visions of Poet A. Sikelianos*. Academy of Delphic Studies, No.4, 93 p. (ISBN 960-85798-2-1, ISSN 1107-3772) (with some articles in English).
8. Liritzis, I (Ed.). *PROCEEDINGS of the Laboratory of Archaeometry, 1999-2010*, , University of the Aegean, 40 p. (3 issues)..
9. Liritzis, I (Editor) (2002) *International Conference Proceedings on Archaeology & Environment in Dodecanesse: Research & Cultural Tourism*, Lab of Archaeometry, University of the Aegean, Rhodes.
10. I.Liritzis & Y.Sakkas (Editors) (1999) *National Meeting: The Role and physiognomy of new dept of Mediterranean Studies*, 5-6 Dec 1998, Rhodes, Dept of Mediterranean Studies (in Greek).
11. Liritzis.I (1998) *One Day Meeting: Aegean: the cradle of western civilization.*, 23 June 1998, Panhellenic Club of Yachting of Open Seas (PCYOS) & Dept of Mediterranean Studies (DMS), Univ of the Aegean, Organiser I.Liritzis, Proceedings edited by I.Liritzis, publ. by PCYOS & DMS.(in Greek)
12. *Archaeological Workshop: The Aegean basin between the Balkans, Anatolia and Near east: Local experimentations and outward interactions in an island society*, under the Interreg II Project, 23rd March 2001. Proceedings edited by I.Liritzis & A.Sampson, Dept of Mediterranean Studies, Univ. of the Aegean, Rhodes.
13. *ACTS OF PROJECT GAIA (Interreg II)*- Scientific Responsible Ioannis Liritzis, Community Action, Interreg II Measure 6.3, Rhodes 2001. Dept of Mediterranean Studies, Univ. of the Aegean. In Greek and English, 60 pages. (ISBN 960-87197-4-7).

14. *International Conference: Settlers & Settlements in Greece, 9000-1000 BC*, Rhodes 7-11 October 2002. Organised by I.Liritzis. Proceedings edited by I.Liritzis, DMS, Univ Aegean, Rhodes.
15. *2 Day Meeting on Local initiatives and employment, measure 4.1, of southern Aegean Regional Program Framework of EU with title Cultural Tourism in 3rd millennium: Rhodes, employment, culture*, 17-18 March 2006, Rhodes. Collaboration between Univ of the Aegean, Dept of Mediterranean Studies, Municipality of Rhodes, Regional Office of Dodecanesse et alia, (10 members), Proceedings edited by I.Liritzis (2006).
16. Liritzis, I (Editor) (2006) *Proceedings of 14th SEAC (European Society of Astronomy in Culture)* (Refereed), Special Issue of the International Journal Mediterranean Archaeology & Archaeometry, Vol.6, No 3 (Rhodes).
17. Liritzis, I (Editor) (2008). *New Technologies in Archaeognostic Sciences* (22 Chapters), GUTENBERG PRESS.(in Greek, planned for translation in English).
18. Initiative between Prof. I.Liritzis, E.Roussos-Papadakis, High Court Attorney in Law and Prof. E.Moutsopoulos, academician. *Towards an intellectual charta of the Aegean*, 22 Sept 2009. Proceedings edited by I.Liritzis & E.Roussos-Papadakis (in Greek with English translation).
19. Liritzis, I & Zacharias, N (editors) (2010) of the University Book 'Archaeo-Materials', Papazisis Press, Athens, 750 p. (in Greek).
20. Kostaridou, P & Liritzis, I (editors) In *Cultural Tourism in Lykæon Mount*, 1st 2Day Meeting 23-24 May 2008 Cultural Center of Megalopolis Municipality, (in Greek).
21. Ioannis Liritzis and Christopher M. Stevenson (Editors) (2012) *Obsidian and Ancient Manufactured Glasses*; The University of New Mexico Press, Albuquerque.

..

CHAPTERS IN BOOKS

1. Xanthakis J. and Liritzis Y. (1990) Spectrum of geomagnetic intensity inferred from Hellenic ceramics via archaeomagnetic measurements during the last 2000 years. *Στον τιμητικό τόμο του Α. Κανελλόπουλου*. Τόμος Β', 1273-1294, Πειραιάς.
2. Liritzis and Kosmatos D. (1995) Solar – climate cycles in a tree-ring record from Parthenon. *J. Coastal Res.*, No. 17, ch. 11, 73-78.
3. Liritzis I. and Galloway R.B. (1995) Solar-climatic effects on lake/marine sediment radioactivity variations. *J. Coastal Res.*, No. 17, ch. 10, 63-71.
4. Liritzis I., Xanthakis J. and Poulakos C. (1995) Solar-climatic cycles in the 4190-year Lake Saki mud layer thickness record. *J. Coastal Research.*, No. 17, ch. 12, 79-86.
5. Hong D., Liritzis I., Galloway R.B. (1997) Single aliquot optical stimulated luminescence dating of ceramic kiln from the cave of Kalavrita lakes. In Sampson, A (ed.), *The lakes cave at Kastria, Kalavrita*, Society of Peloponesean Studies, No 7, 532-533.
6. Liritzis I. (1997) Elementary particles expansion: Geometrical rules, chaotic representation or Platonic ideas? Special Issue, *A Festschrift in honour of Prof. Wiedeker* (Physicist, Geophysicist, Geographer, Philosopher, Germany). "Physics

- and Geophysics with Special historical case studies". Editor Dr W. Schroeder, Bremen-Roennebeck, Germany, 44-54.
7. Liritzis, I (1996) Early Greek astronomy (aesthetics of the universe & some thoughts), *Special Issue about Ancient Greece*, National Technical University of Athens (Metsovion Polytechnic School, Athens), 22, 89-94.
 8. Liritzis.I, Drakonaki.S, Vafiadou.A, Sampson.A and Boutsika.T (2002) Destructive and non-destructive analysis of ceramics, artifacts and sediments of Neolithic Ftelia (Mykonos) by portable EDXRF spectrometer: First results. In A.Sampson (editor) *The Neolithic Settlement at Ftelia, Mykonos*, Univ. of the Aegean, Dept. of Mediterranean Studies, Rhodes, 251-272
 9. Liritzis.I, Vafiadou.A, Murray.A.S and Sampson.A (2002) Optical Stimulated Luminescence dating of rock and soil of Neolithic Ftelia, Mykonos. In A.Sampson (editor) *The Neolithic Settlement at Ftelia, Mykonos*, Univ. of the Aegean, Dept. of Mediterranean Studies, Rhodes, 273-278.
 10. Liritzis.I (2002) The archaeological Sciences Institute of the Aegean at Alexandria (ASIAA). Research and perspectives for the future. A preliminary report. In *Ancient Egypt and Antique Europe, B.A.R, S1052*.
 11. Liritzis.I (2004) Radioisotope analysis of tephra from Kos and southern Aegean. Special Volume by the Archaeological Institute of Aegean Studies, *Χάρις Χαίρε, Vol. A'*, 39-46.
 12. Liritzis.I, Polychroniadou.E & Katsaros.T (2008) Pigment analysis in Works of Art. Case Study: Archaeometric analyses of wall paintings (hagiography) in Amfissa Cathedral by Spyros Papaloukas In *New technologies in Archaeognostic Sciences*, (Liritzis.I, editor), G.Dardanos-Typoshito Press, Athens (in Greek), 125-170.
 13. Liritzis.I (2008) Some physical methods of imperceptible reading and erased texts. In *New technologies in Archaeognostic Sciences*, (Liritzis.I, editor), GUTENBERG Press, Athens (in Greek), 361-392.
 14. Papageorgiou.I, Liritzis.I, Mau.M.A (2008) Multivariate mixture of normals for clustering data coming from archaeology. In CRC Press LLC, Chapter 2, 2-17.
 15. Liritzis, I (2008) New technologies in the archaeognostic sciences: multisided cooperation with prospectives. Editorial Forward. In Liritzis, I (editor), *New technologies in the archaeognostic sciences*, Gutenberg Press, Athens, 11-25.(in Greek)
 16. Liritzis.I and Zacharias, N (2010) Portable XRF of archaeological artefacts: current research, potentials and limitations. In *X Ray Flourescence Spectrometry in GeoArchaeology* (S.Shackley, editor), Natural Sciences in Archaeology Series, Springer North America, 109-142.
 17. Liritzis, I, Drivaliari, N, and Sampson, A (2009) First stable isotopic data in molluscs of Cyclop's Cave. In *The Cave of the Cyclops, Vol. 2, INSTAP ACADEMIC PRESS*, 385-390.
 18. Liritzis, I, (2008) Sarakenos cave dating of burnt soil and obsidian, chemical analysis and provenance of ceramics. In Sampson.A (ed) *The Sarakenos Cave at Akraephnion, Boeotia, Greece, Vol. 1, The Neolithic and the Bronze Age*, publ. by University of the Aegean & Polish Academy of Arts and Sciences, Athens, 429-450
 19. Liritzis, I, Drivaliari, A & Sampson, A (2010) Oxygen and carbon isotopic data of shells. In Sampson (editor), *The Sarakenos Cave Vol.II* (in press)
 20. Liritzis, I (2010) Ceramic objects: the clay dynamics In Liritzis, I & Zacharias, n eds, *Archaeomaterilas*, Papazisis Press, Athens, 39-62 (in Greek)

21. Liritzis, I & Zacharias, N (2010) Brief review in archaeomaterials-artifacts. In Liritzis, I & Zacharias, eds, *Archaeomaterials*, Papazisis Press, Athens, 17-38.
22. Liritzis, I & Laskaris, N (2012) The SIMS-SS obsidian hydration dating Method. In Ioannis Liritzis and Christopher M. Stevenson (Editors) (2012) *The Dating and Provenance of Natural and Manufactured Glasses*; (The University of New Mexico Press), 26-45.
- 23.

PAPERS

Publications in International Journals (Refereed and/or ISI Cited)

1. Liritzis, Y. and Mckerrell, H., (1979). Some TL Dates and Neutron Activation Analysis of Greek Neolithic Pottery: *Archaeophysika*, 10, 489-501.
2. Liritzis, Y (1980) 100°C quartz peak: a new normalization factor. *Ancient TL*, 11, 6-7.
3. Liritzis, Y., (1980). Some Th-230/U-234 Dates on detrital travertines from Petralona Cave, Greece; *Revue d' Archaeometrie*, Sp. Issue, 111-120.
4. Liritzis, Y., and Galloway, R.B., (1980). A new technique for calibrating a NaI (T I) scintillometer used to measure γ -dose rates in archaeological sites: *Nuclear Instruments and Methods*, 174, 593-597.
5. Liritzis, Y. and Thomas, R., (1980). Palaeointensity and thermoluminescence measurements on Cretan kilns from 1300 to 2000BC; *Nature*, 283, 54-55.
6. Liritzis, Y., (1980). 100° C quartz peak: a new normalisation factor; *J. Ancient TL*, 11, 6-7.
7. Liritzis, Y., and Galloway, R.B. (1981). Correlation of variation in the γ -ray dose-rate in soil with meteorological factors; *Archaeometry*, 23, 1, 109-113.
8. Liritzis, Y., (1983), U^{234}/Th^{230} dating contribution to the resolution of Petralona controversy; *Nature*, 299, 280-281.
9. Liritzis, Y. and Galloway, R.B., (1982). Thermoluminescence dating of Neolithic Sesklo and Dimini, Thessaly, Greece; *P.A.C.T.*, 6, 450-459.
10. Liritzis, Y., (1982). Non-linear TL response of quartz grains; some annealing experiments; *P.A.C.T.*, I, 6, 209-213.
11. Liritzis, Y. and Galloway, R.B., (1982). The Th^{230}/U^{234} disequilibrium dating of cave travertines; *Nuclear Instruments and Methods*, 201, 507-510.
12. Liritzis, Y. and Galloway, R.B. (1982). A new approach to the Beta-dosimetry of ceramics for thermoluminescence dating; *Nuclear Instruments and Methods*, 201, 503-506.
13. Liritzis, Y. and Galloway, R.B. (1982). Grain size distribution in ceramics and the β -dose Rate for thermoluminescence dating; *Nuclear Instruments and Methods*, 196, 505-506.
14. Liritzis, Y. and Galloway, R.B. (1982). A comparison of two techniques for the determination of the b-dose rate in ceramics for thermoluminescence dating; *Nuclear instruments and Methods*, 192, 555-558.
15. Liritzis, Y., Misserlis, P. and Rigopoulos, R., (1983). Aerial photography of some Greek coastal regions and its archaeological implications; *International Journal of Nautical Archaeological and Underwater Exploration*, 12, 3.

16. Liritzis, Y., (1985). Archaeomagnetism, Santorini volcanic eruption and destruction levels on Crete; *Nature*, 313, 74-76.
17. Liritzis, Y., (1985). Determination of annual γ dose-rates in archaeological sites: effects on response and seasonal variation; *Revue d'Archaeometrie* No. 9., 19-25.
18. Liritzis, Y., (1984). Reappraisal of Minoan kilns by thermoluminescence and Neutron Activation / XRF analyses; *Revue d'Archaeometrie*, 8, 7-20.
19. Liritzis, Y., (1985). Maximum entropy and power spectrum analyses of geomagnetic data: emphasis on the 200 year period; *J. Earth, Moon and Planets*, 34, 235-249.
20. Danali – Cotsakis, S. and Liritzis, Y., (1985) U-disequilibrium in Greek archaeological clays and pottery by gamma-spectrometry: effects on TL dating; *P.A.C.T.*, 15, 75-86.
21. Liritzis, Y., (1985). An indication of universal linear variation of K_2O with β -dose rates in ceramics; *J. Ancient TL.*, 3, 11-16.
22. Liritzis, Y., (1985). Variations in β -particle dose attenuation of some Hellenic ceramics; *Nuclear Tracks and Detectors*, 10, 667-672.
23. Xanthakis, J., Liritzis, Y. and Petropoulos B., (1985). Evidence for periodicities in the frequency occurrence of the Aurora Borealis since 300 AD; *J. Interdisc. Cycle Research*, 1, 2, 85-91.
24. Liritzis, Y. and Petropoulos, B., (1986). Dependence of the Aurorale Borealis occurrences on Solar-Terrestrial Phenomena; *J. Earth, Moon and Planets*, 34, 65-75.
25. Liritzis Y., (1986) The significance of gamma-self-dose and β ranges in ceramics revisited; *Revue d'Archaeometrie*, 10, 95-102.
26. Liritzis, Y. and Petropoulos, B., (1987). Latitude dependence of auroral frequency in relation to solar-terrestrial and interplanetary parameters. *Earth, Moon and Planets*, 39., 75-91.
27. Danali-Cotsakis S. and Liritzis Y. (1987) Radiation dose assessment for Cs – 137 from fish in the Aegean Sea before and after the Chernobyl accident. *J. Radional. Nucl. Chem. Lett.*, 126, 3, 257-266.
28. Liritzis, Y. Danali-Cotsakis, S., (1987) Beta Rose Rates derived from Gamma Spectroscopy and low Beta anticoincidence system of various environment materials of archaeological origin. *Science of Total Environment, Amsterdam*, 70, 41-54.
29. Liritzis, Y (1987) The Chernobyl fallout in Greece and its effects on the dating of archaeological materials, Vol.260, Nos 2-3, 534–537
30. Liritzis Y. (1987/88) Signs of variation of Uranium and Thorium isotopes in Cave sediments. *Bull. Geol. Pays. Hell.*, 33, 433-441.
31. Liritzis Y. (1988) Aurorae boreales and geomagnetic inclinations as aids to archaeomagnetic dating. *Earth, Moon and Planets*, 42, 151-162.
32. Liritzis, Y., (1989). U-series dating of speleothems relevant to Cave Art. *European journal of P.A.C.T.* 17, II 2.4, 307-322.
33. Aitken, M.J., Allsop, A.L., Bussell, G.D., Liritzis, Y. and Winter, M.B., (1989) Geomagnetic intensity measurements using bricks from Greek churches of first and second millenia AD. *Archaeometry*, 31, 1, 77-87.
34. Liritzis Y. and Maniatis Y. (1989) Experiments on ESR dating of Quaternary bones and calcites. *J. Radional. Nucl. Chem.*, 129, 1, 13-21.
35. Liritzis Y. (1989) Dating of Calcites: Some aspects of radiation survey in caves and dose-rates. *Bull. Geol. Pays. Hell.*, 34/1, 123-136.
36. Tsokas G. and Liritzis Y. (1990) Resistivity prospecting in the centre of Athens for the detection of buried antiquities. *Prospezioni Archaeologishe. Quaderni* 1 133-143.

37. Liritzis Y., (1989) Greek archaeomagnetic intensities; Some aspects of reliability and geophysical implications. *Earth, Moon and Planets*, 47, 1-13.
38. Mavromichalaki H., Belehaki A. and Liritzis Y. (1989) Power spectrum analysis of local geomagnetic disturbances and their relationship to cosmic-ray and auroral intensity. *Earth, Moon and Planets*, 45, 1-15.
39. Xanthakis J. and Liritzis Y. (1989) Spectral analysis of archaeomagnetic inclinations for the last 2000 years. *Earth, Moon and Planets*, 45-139-151.
40. Liritzis Y. and Galloway R.B. (1990) Bremsstrahlung from a shielded beta irradiator. *J. Radioanal. Nucl. Chem. Lett.* 146, 5, 333-345.
41. Liritzis (1989) Dating of quaternary sediments by beta thermoluminescence: Investigations of a new method. *Annales Soc. Geolog. Belgique*, T. 112, 1, 197-206.
42. Liritzis Y., (1990) Evidence for periodicities in the Auroral occurrence frequency since 300 AD and their implications. *Pure & Applied Geophysics*, 132, 2, 201-211.
43. Liritzis Y., Orphanidis-Georgiadis L. and Efstratiou N. (1991) Neolithic Thessaly, and the Sporades: Remarks on Cultural contacts between Sesklo, Dimini and Aghios Petros based on trace element analysis and archaeological evidence. *Oxford Journal of Archaeology*, 10, 3, 307-313.
44. Galloway R.B. and Liritzis (1991) Scattering correction in beta dosimetry by beta particle counting. *Nuclear Tracks Radiat. Meas.* 18, 1/2, 239-247.
45. Liritzis Y. and Kovachena M. (1992). Evidence for sharp changes in the archaeomagnetic intensity variation during the last 2000 years. *Physics of the Earth and Planetary Interiors* 70, 85-89.
46. Xanthakis J., Liritzis Y. and Galloway R.B. (1992). Periodic variation in natural radioactivity of lake Bouchet sediments. *Earth, Moon and Planets*, 59, 191-200.
47. Liritzis Y. and Petropoulos B. (1992) A preliminary study of the relationship between large earthquakes and Precipitation for the region of Athens, Greece. *Earth, Moon and Planets*, 57, 13-21.
48. Liritzis I. and Tsapanos T. (1992) Probable evidence for periodicities in global seismic energy release. *Earth, Moon and Planets*, 60, 93-108.
49. Liritzis I. and Kokkoris M. (1992) Revised dose-rate data for thermoluminescence/ ESR dating. *Nuclear Geophysics*, vol. 6, No. 3, 423-443.
50. Galloway R.B. and Liritzis Y. (1992) Provenience of Aegean volcanic tephra by high resolution gamma spectrometry. *Nuclear Geophysics (Int. J. Radiat. Appl. Instrum. Part. E)* 281, Sept. Issue, 6, 3, 405-411.
51. Tsapanos T. and Liritzis Y. (1992) Time-lag of the seismic energy release between Chile, Mexico and Kamtchatka. *Pure & Applied Geophysics*, 139, 2, 293-308.
52. Liritzis Y. and Diagourtas D. (1992). A statistical reappraisal between Greek, Hellenic arc and World seismic activity. *Earth, Moon, Planets*, 69, 1, 69-86 56.
53. Liritzis Y. (1993) Cyclicity in terrestrial Upheavals during the Phanerozoic Eon. *Q.J. Royal astr. Soc.*, 3, 4, 2, 251-259.
54. Liritzis I. (1993) Rhythmicity in Earth's geological history: Terrestrial or extraterrestrial cause? *DIOTIMA*, 21, 50-52.
55. Liritzis I. Lagios E. (1993) A global archaeomagnetic data bank. *EOS*, 74, 27, 303, 306.
56. Liritzis I., Galloway R.B., Kovacheva M. and Kalcheva B.B (1994) Influence of climate on the radioactivity of lake and sea sediments: first results. *Geophysical J. Intern*, 116, 683-687.
57. Liritzis (1994) A new dating method by thermoluminescence of carved megalithic stone building. *Comptes Rendus (Academie des Sciences)*, Paris, t. 319, serie II, 603-610.
58. Liritzis.I (1994) Archaeometry: Dating the past. *EKISTICS*, t.368/364, 361-366.

59. Liritzis I., Galloway R.B. and Theocaris P. (1994) Thermoluminescence dating of ceramics revisited: Optical stimulated luminescence of quartz single aliquot with green light emitting diodes. *J. Radioanal. Nucl. Chem. Letters*, 188 (3), 189-198.
60. Liritzis I., Lagios E. and Kosmatos D., (1994) Detailed Radon isotopes measurements in Nissyros and Sousaki geothermal fields, Greece. *C.R. Acad. Sci. Paris* 321, 11a, 473-480.
61. Liritzis, Poulakos C. Lagios E. and Kosmatos D. (1994). A correlation study between ozone and volcanic activity. *Earth, Moon and Planets*, 66, 217-230.
62. Liritzis I., Xanthakis J., Petropoulos B., Banos C., and Sarris E. (1994) Detailed spectrum analysis of Jupiter's great red spot relative intensities for the period 1963-1967. *Planetary & Space Sci.* 43, 9, 1067-1078.
63. Xanthakis J., Liritzis I., Petropoulos B., Banos C., and Sarris E. (1994) Stochastic variability in the atmospheric activity of Jupiter. *Earth, Moon, Planets*, 66, 189-212.
64. Liritzis (1994) Quasi-periodic variation in the solar neutrino flux revisited. *Solar Physics*, 161, 29-47.
65. Theocaris P., Liritzis I., Lagios E., and Sampson A. (1997). Geophysical prospection and archaeological test excavation and dating in two Hellenic pyramids. *Surveys in Geophysics*, 17, 593-618.
66. Theocaris P.S., Liritzis I. and Galloway R.B. (1994). Dating of two Hellenic pyramids by a novel application of thermoluminescence. *J. Archaeological Science*, 24, 399-405.
67. Liritzis I., (1995) Alternative determination of equivalent dose by green light emitting diodes Optically Stimulated Luminescence using the unstable luminescence. *J. Radioanal. Nucl. Chem.*, 190, 1, 13-21.
68. Xanthakis J., Liritzis I. and Tzanis E. (1995) Periodic variation of $\delta^{18}O$ values from V28-239 pacific ocean deep-sea core. *Earth, Moon, Planets* 66, 253-278.
69. Liritzis I., Michael C. and Galloway R.B. A (1996) A significant Aegean volcanic eruption during the second millennium B.C. revealed by thermoluminescence dating. *Geoarchaeology Internat.*, 11, 4, 361-371.
70. Liritzis I., Guilbert P., Foti F., Schvoerer M., (1996) Solar Bleaching of thermoluminescence of calcites. *Nuclear Instr. Meth. B*, 117, 260-268.
71. Liritzis I. (1996) The evolution of humankind in cosmic space: Micro and Macrocsmical implications. *DIOTIMA (review of philosophical research)* 24, 59-63.
72. Liritzis I., Petropoulos B., Banos C. and Sarris E. (1996). Solar – Planetary cycles in Jupiter's great red spot darkness. *Earth, Moon, Planets* (73, 167-179).
73. Liritzis Y., (1997) Four Glozel objects reanalysed by thermoluminescence. *European journal PACT*, No. 45, IV, 4, 267-280.
74. Kokkoris M. and Liritzis Y., (1997) Dose versus time for U-Disequilibrium and revised dose-rate data for TL/ESR dating. *European journal of PACT*, No. 45. IV. 5, 281 – 294.
75. Liritzis Y., Salter C. and Hatcher H. (1997) Chemical Composition of some Greco-Roman glass fragments from Patras, Greece. *European journal of PACT*, No 45, I2, 25-34.
76. Liritzis I. (1997) Cluster analysis of thermoluminescence parameters of ancient Hellenic limestone monuments. *Naturwissenschaften*, 84, 463-465.
77. Liritzis I., Guilbert P., Foti F., Schvoerer M. (1997) The Temple of Apollo (Delphi) strengthens new thermoluminescence dating method. *Geoarchaeology International*, vol. 12, no. 5, 479-496.
78. Liritzis I., Gregori K. (1997) Astronomical forcing in cosmogenic Be-10 variation from east Antarctica coast. *Journal of Coastal Research*, 14 (3), 1065-1073.

79. Liritzis I., Bakopoulos Y. (1997) Functional behaviour of solar bleached thermoluminescence in calcities. *Nuclear Instruments and Methods B*, 132, 87-92.
80. Liritzis I., Galloway R.B., Hong D.G. (1997) Single aliquot dating of ceramics by green light stimulation of luminescence from quartz. *Nuclear Instruments and Methods B*, 132, 457-467.
81. Liritzis I. (1998) Bronze Age Greek Pyramids and Orion's belt. *Griffith Observer*, vol.63, n.10, 10-21.
82. Sampson A., Liritzis I. (1998) Archaeological and archaeometrical research at Yali, Nissyros, *TUBA – AR*, t.2, 101-115.
83. Liritzis I., and Fairbridge R. (1998). Time Series analysis of high resolution lake Saki varves: some astrochronological and climatic aspects. *Terra Nostra*, 98/6, 76-81.
84. Liritzis.I, Preka-Papadema.P, Petropoulos.B, Banos.C, Kostopoulos.T (1999) Spectrum analysis of Jupiter's great red spot parameters: area, rotation, latitude and longitude (1963-67). *Planetary and Space Science*, 47, 469-492.
85. Liritzis I. and Galloway R.B. (1999), Dating implications from solar bleaching of thermoluminescence of ancient marble. *J Radioanal. Nucl. Chem.* 241, 2, 361-368.
86. Kovacheva.M, Spatharas.V, Liritzis.I (1999) New archaeointensity results from the Greek materials. *Archaeometry*, 42, 2, 415-429.
87. Liritzis.I and Raftopoulou.M (1999) Argolid: connection of prehistoric legends with geoenvironmental and archaeological evidence. *TUBA-AR*, II, 87-99.
88. Savvaidis.A, Tsokas.G, Liritzis.I, Apostolou.M (1999) The location and mapping of ancient ruins on the castle of Lefkas (Greece) by resistivity and GPR methods. *Archaeological Prospection*, 6, 63-73.
89. Liritzis I., Galloway. R.B., Lykousis V., Chronis G. and Anagnostou G. (1999). Towards a new chronostratigraphic method based on the marine sediment radioactivity variation. *Journal of Coastal Research*, 15, 4, 958-965.
90. Liritzis.I (2000) Advances in thermo- and opto- luminescence dating of environmental materials (sedimentary deposits): part I: techniques, *GLOBAL-NEST*, vol.2, No 1, 3-27.
91. Liritzis.I (2000) Advances in thermo- and opto- luminescence dating of environmental materials (sedimentary deposits):part II: applications. *GLOBAL-NEST*, vol.2, No 1, 29-49.
92. Spatharas.V, Kondopoulou.D, Liritzis.I and Tsokas.G (2000) Archaeointensity results from two ceramic kilns from N.Greece. *J. Balkan Geophys. Soc.*, vol.3, N0.4, 67-72.
93. Liritzis.I (2001) The contribution of archaeometry to the development (cultural, economic) of the Mediterranean islands. *Journal of Mediterranean Studies*, vol.10, 225-230
94. Liritzis I. Galloway R.B., Katsonopoulou D., D. Soters, (2001). In search of ancient Helike, Golf of Corinth, Greece *Journal of Coastal Research*, vol.17, No 1, 118-123.
95. Liritzis.I (2001) Searching for precision of a new 'luminescence clock' in dating calcitic rocks. *J. Radioanalytical & Nuclear Chemistry*, vol.247, No 3, 727-730.
95. Liritzis.I (2001) Archaeoastronomical orientation errors: the case of the two Hellenic pyramids. *J. Radioanalytical & Nuclear Chemistry*, vol.247, No 3, 723-725.
96. Liritzis.I and Diakostamatiou.M (2002) Towards a new method of obsidian hydration dating with secondary ion mass spectrometry via a surface saturation layer approach. *Mediterranean Archaeology & Archaeometry*, vol.2, N0 1, 3-20.

97. Stevenson.C, Liritzis.I and Diakostamatiou.M (2002) Investigations towards the hydration dating of Aegean obsidian. *Mediterranean Archaeology & Archaeometry*, vol.2, No 1, 93-109.
98. Liritzis.I and Vassiliou.H (2002) Astronomical orientations of ancient temples at Rhodes and Attica with a tentative interpretation. *Mediterranean Archaeology & Archaeometry*, vol.2, No 1, 69-79.
99. Liritzis.I, Galloway.R.B., Hong.D and Kyparissi-Apostolika.N (2002) OSL dating of three prehistoric ceramics from Theopetra cave, Greece: a case study. *Mediterranean Archaeology & Archaeometry*, No 2, Vol.2, 35-43..
100. Liritzis.I, (2002) Revival of obsidian studies. *Mediterranean Archaeology & Archaeometry*, No2, Vol.2, 79-82.
101. Kitis.G, Liritzis.I, Vafiadou, A (2002) Deconvolution of optical stimulated luminescence decay curves. *J. Radioanal. Nucl. Chem.* Vol, 254, No.1, 143-149.
102. Liritzis.I and Vassiliou.H (2003) Archaeoastronomical orientation of seven significant ancient Hellenic temples. *Archaeoastronomy International*, vol.17, 94-100.
103. Liritzis, I (2003) Anaxagorean *nous* and its analogies in Orphic Cosmogony. *PHILOSOPHIA* (annual of the Research Center of Greek Philosophy, Academy of Athens), 33, 257- 265.
104. Mavromichalaki.H, Preka-Papadema.P, Liritzis.I, Petropoulos.B, and Kurt.V. (2003) Short-Term variations of cosmic-ray intensity and flare related data in 1981-1983. *New Astronomy*, 8, 777-794.
105. Liritzis.I and Fairbridge.R (2004) Remarks on astrochronology and time-series analysis of lake Saki varved sediments. *J. Balkan Geophysical Soc.*, vol.6, No.3, 165-172.
106. Liritzis.I, Diakostamatiou.M, Stevenson.C.M, Novak.S.W and Abdelrehim.I (2004) The dating of hydrated obsidian surfaces by SIMS-SS. *J. Radioanal. Nucl. Chemistry*, vol.261, no.1, 51-60.
107. Brodkey.R & Liritzis.I (2004) The dating of obsidian: a possible application for transport phenomena (a tutorial). *Mediterranean Archaeology & Archaeometry*, vol.4, No.2, 67-82.
108. Liritzis.I, Ganetsos.T and Laskaris.N (2005) Review and software assessment of the recent SIMS-SS obsidian hydration dating method. *Mediterranean Archaeology & Archaeometry*, 5 (2), 75-91.
109. Liritzis.I (2005) Ulucak (Smyrna, Turkey): Chemical analysis with clustering of ceramics and soils and obsidian hydration dating. *Mediterranean Archaeology & Archaeometry*, vol.5, No.3, Special Issue, 33-45.
110. Papageorgiou.I and Liritzis.I (2007) Multivariate mixture of normals with unknown number of components. An application to cluster Neolithic ceramics from the Aegean and Asia Minor. *Archaeometry*, 49, 4, 795-813.
111. Liritzis.I (2006) SIMS-SS A new obsidian hydration dating method: analysis and theoretical principles. *Archaeometry* , 48 (3), 533-547.
112. Liritzis.I & Ganetsos.T (2006) Obsidian hydration dating from SIMS profiling based on saturated surface (SS) layer using new software. Proceedings of SIMS XV, Manchester 2005, *Applied Surface Science*, 252, 7144-7147.
113. Liritzis.I and Vafiadou.A (2005) Dating by luminescence of ancient megalithic masonry. *Mediterranean Archaeology & Archaeometry*, vol.5, No.1, 25-38.
114. Liritzis.I and Vassiliou.H (2006) Were Greek temples oriented towards aurora? *Astronomy & Geophysics*, vol.47, 2, 1.14-1.18.

115. Liritzis, I (2006) The dating of ancient metals: review and a possible application of the $^{226}\text{Ra}/^{230}\text{Th}$ method: (a tutorial). *Mediterranean Archaeology & Archaeometry*, 6, 2, 81-95.
116. Vafiadou A, Murray A.S., Liritzis I (2007) Optically Stimulated Luminescence (OSL) dating investigations of rock and underlying soil from three case studies. *Journal of Archaeological Science* 34, 1659-1669.
117. Liritzis.I and Vassiliou.H (2006) Does sunrise day correlate with eastern orientation of Byzantine Churches during significant solar dates and Saint's day name? A preliminary study. *Byzantinische Zeitschrift* (K.G.Saur Munchen, Leipzig) 99, 2, 523-534.
118. Liritzis, I, Arfara, I and Sideris, C (2006) U and Th variation in ancient slags, metals and metal ores: contribution to dating of metals, *Mediterranean Archaeology & Archaeometry*, Vol.6, No.2, 93-98.
119. Liritzis. I, Sideris. C, Vafiadou, A and Mitsis.J (2007) Mineralogical petrological and radioactivity aspects of some building material from Egyptian Old Kingdom monuments. *Journal of Cultural Heritage*, 9, 1-13.
120. Liritzis.I and Polychroniadou.E (2007) Optical and analytical techniques applied to the Amfissa Cathedral mural paintings made by the Greek artist Spyros Papaloukas (1892-1957). *Revue d'Archaeometrie (Archaeosciences)*, 31, 97-112
121. Liritzis, I and Coucouzeli, A (2007) Ancient Greek Heliocentric Views Hidden from Prevailing Beliefs? *Studies in History and Philosophy of Science*, 11(1), 39-49.
122. Mantzourani, H & Liritzis, I (2006) Chemical analysis of pottery samples from Late Neolithic Kantou- Kouphovounos and Sotira-Tepes. *Reports of Dept. of Antiquities Cyprus*, 63-76.
123. Liritzis.I, Bonini.M and Laskaris.N (2008) Obsidian hydration dating by SIMS-SS: surface suitability criteria from atomic force microscopy. *Surface & Interface Analysis* , 40, 458-463.
124. Liritzis.I, Laskaris.N, Bonini.M (2008) Nano- and Micro- scale resolution in ancient obsidian artefacts surfaces: The impact of AFM on the obsidian hydration dating by SIMS-SS. *Physica Status Solidi*, 5 (c) , No.12, 3704-3707.
125. Liritzis, I, Kitis.G, Galloway. R.B, Vafiadou, A, Tsirliganis, N, Polymeris., G (2008) Probing luminescence dating of archaeologically significant carved rock types. *Mediterranean Archaeology & Archaeometry*, 8(1), 61-79.
126. Liritzis, I and Laskaris, N (2009) Advances in obsidian hydration dating by secondary ion mass spectrometry: World examples. *Nucl. Instr. & Methods in Physics Res. B* , 267, 144-150.
127. Dirk Sudhaus, Kord Ernstson, Werner Mayer, Andreas Neumair, Barbara Rappenglück, M. Rappenglück, Kurt W. Zeller, I. Liritzis (2010) An ancient catastrophic tsunami event in the archaeological record around Lake Chiemsee, *ANTIQUITY* , 84, 428-439.
128. Papageorgiou, I, Liritzis, I and Cau, M (2009) Multivariate mixture of normals for clustering data coming from archaeometry. *CRC Press* (in press)
129. Katsaros, T, Liritzis, I and Laskaris, N (2009) Is White pigment on Appelle's palette a TiO_2 -rich kaolin? New experimental and analytical study. *Mediterranean Archaeology & Archaeometry* Vol.9, No.1, 29-35.
130. Mazzarella, A, Giuliacci, A and Liritzis, I (2010) On the 60-month cycle of multivariate ENSO index. *Theor Appl Climatol* , 100, 23-27.
131. Liritzis., I (2010) Strofilas (Andros Island, Greece): New evidence of Cycladic Final Neolithic dated by novel luminescence and Obsidian Hydration methods. *Journal of Archaeological Science* 37, 1367- 1377.

132. Liritzis, I and Artelaris, G (2010) Astronomical orientations of Dragon Houses (Palli Laka, Kapsala, Oche) and Armena Gate (Euboea, Greece). *Mediterranean Archaeology & Archaeometry, Special Issue*, (D.Keller, Guest editor.), Vol.10, No.3, 41-52.
133. Liritzis, I Polymeris, G and Zacharias, N (2010) Surface luminescence dating of 'Dragon Houses' and Armena Gate at Styra (Euboea, Greece). *Mediterranean Archaeology & Archaeometry, Special Issue*, (D.Keller, guest editor), Vol.10, No.3, 65-81.
134. Liritzis, I, Zacharias, N Polymeris, G.S, Kitis, G, Ernstson, K, Sudhaus, D, Neumair, A, Mayer, W, Rappenglück, M.A, Rappenglück, B (2010) The Chiemgau meteorite impact and tsunami event (southeast Germany): First OSL dating. *Mediterranean Archaeology and Archaeometry*, Vol. 10, No. 4, pp. 17-33
135. Liritzis, I (2011) Surface dating by luminescence: An Overview *Geochronometria*, 38(3) 292-302
136. Mazzarella, A, Giuliacci, A and Liritzis, I (2011) The equatorial stratospheric wind quasi-biennial oscillation revisited: on the dominance of 28-month cycle. *Int. J. Ocean & Climate Systems*, Vol.2, Issue 1, 19-26.
137. Katsaros, T, Liritzis, I and Laskaris, N (2011) Identification of Theophrastus' pigments *egyptios kyanos* and *psimythion* from archaeological excavations: A case study. *Archaeosciences (Revue d'Archaeometrie)* 34, 69-80.
138. Liritzis, I, Drivaliari, A, Polymeris, G and Katagas, Ch (2010) New quartz technique for OSL dating of limestones. *Mediterranean Archaeology & Archaeometry*, Vol.10, No.1, 81-87.
139. Laskaris, N & Liritzis, I (2011) A new mathematical approximation of sunlight attenuation in rocks for surface luminescence dating. *J. of Luminescence*, 131, 1874- 1884.
140. Liritzis, I & Laskaris, N (2011) Fifty years of obsidian hydration dating in archaeology, *J. Non Crystalline Solids*, 357, 211-219.
141. Laskaris, N, Sampson, A, Mavridis, F and Liritzis, I (2011) Late Pleistocene/Early Holocene seafaring in the Aegean: new obsidian hydration dates with the SIMS-SS method, *J. Archaeological Science*, 38, 2475-2479
142. Aidona, E & Liritzis, I (2012) Magnetic Susceptibility and Radioactivity Changes of Aegean and Ionian Sea Sediments during Last Glacial/Interglacial: Climatic and Chronological Markers. *J. Coastal Research*, Volume 28, Issue 2: pp. 342 – 353. .
143. Polymeris, G.S Afouxenidis D, Raptis S, Liritzis. I, Tsirliganis, N.C and Kitis, G (2011) Relative response of TL and component-resolved OSL to alpha and beta radiations in annealed sedimentary quartz. *Radiation Measurements*, 46, 1055-1064.
144. Liritzis, I., Mavrikis, D, Zacharias, N, Sakalis, A, Tsirliganis, N and Polymeris, G.S (2011) Potassium determinations using SEM, FAAS and XRF: Some experimental notes. *Mediterranean Archaeology and Archaeometry*, Vol. 11, No. 2, pp. 169-179.
145. Liritzis, I & Vafiadou, A (2012) Calibration aspects of thick source alpha counter ZnS system. *MEASUREMENT*, 45, 1966-1980.
146. Ernstson, K, Sideris, C, Liritzis, I and Neumair A (2012) The Chiemgau meteorite impact signature of the Stottham archaeological site (Southeast Germany). *Mediterranean Archaeology & Archaeometry*, Vol.12, No.2, 249-259.

147. Liritzis, I, Stamoulis, K, Papachristodoulou, Ch, and Ioannides, KG (2013) A re-evaluation of radiation dose rate conversion factors. *Mediterranean Archaeology & Archaeometry*, Special Vol. 13, No.3, 1-15.
148. Liritzis et al (2013) Advances in surface luminescence dating : some new data from three selected Mediterranean sites. *Mediterranean Archaeology & Archaeometry*, Vol.13, No.3, 105-115.
149. Liritzis, I & Laskaris, N (2012) Obsidian hydration dating from hydrogen profile using SIMS: applications to Ikarian specimens. *Folia Quaternaria*, Vol.80, 45-54.
150. Liritzis.I (2013) Twelve thousand years of non-linear cultural evolution: The physics of chaos in Archaeology. *SYNESIS: a journal of science, technology, ethics and policy*, G19-31.
151. Liritzis, I and Castro, B (2013) Delphi and Cosmovision: Apollo's absence at the land of the hyperboreans and the time for consulting the oracle. *Journal of Astronomical History and Heritage*, 16(2), 184-206.
152. Liritzis, I and Vafiadou, A (2014) Surface luminescence dating of some Egyptian monuments. *Journal of Cultural Heritage* (in press)
153. Liritzis, I, (2014) Obsidian Hydration Dating, in Rink, W.J., Thompson, J.W. (Eds.) *Encyclopedia of Scientific Dating Methods*, Springer-Verlag, Berlin-Heidelberg
154. Liritzis,I, V. Aravantinos, G.S. Polymeris, N. Zacharias, I. Fappas, G. Agiamarniotis, I.K. Sfampa, A. Vafiadou, G. Kitis (2015) Witnessing prehistoric Delphi by Luminescence dating. *Comptes Rendus PALEVOL* (in press)

GREEK SCIENTIFIC JOURNALS (in Greek or English language)

1. Liritzis.I (1977) Determination of age by thermoluminescence as an archaeometric method. *Anthropos* 4, 1-2, 174-191.(in Greek)
2. Liritzis Y. (1979) Thermoluminescence dating of Sitagroi, *Athens Annals of Archaeology*, XII, 2, 208-214.
3. Liritzis Y. (1980) Th-230/U-234 dating of speleothems in Petralona, *Anthropos*, 7, 215-241.
4. Liritzis Y. and Poulianos A. (1980) A radiation Survey of Petralona Cave, *Anthropos*, 7, 252-259.
5. Schwarcz H.P., Liritzis Y. and Dixon A. (1980) Absolute dating of travertines from Petralona Cave, (Chalkidiki Peninsula, Greece), *Anthropos*, 7, 152-173.
6. Liritzis Y. (1980) Potential use of Thermoluminescence in dating speleothems, *Anthropos*, 7 242-251.
7. Liritzis.I (1981) Dating by thermoluminescence: Application to Neolithic settlement of Dimini. *Anthropologika*, 2, 37-48.(in Greek)
8. Liritzis. I. (1981-2) Study of palaeoclimatological variations from correlations of U234/Th230 dates and analysis of spelaeothems. *Bulletin of Hellenic Speleological Society*, 18, 315-323.(in Greek).
9. Liritzis. I (1982) Archaeometry: an emerging science, *Athens Annals of Archaeology*, XII, 85-92.(in Greek)
10. Liritzis Y. (1984) A critical dating reevaluation of Petralona Hominid: A caution for patience. *Athens Annals of Archaeology*, XV, 2, 285-296.

11. Liritzis Y. (1982) 200-yr cycling of the Earth's archaeomagnetic field intensity and in related solar-terrestrial phenomena. *Proceedings of the Academy of Athens*, 57, 380-390.
12. Liritzis.I and Dixon J. (1984) Cultural contacts between Neolithic settlements of Sesklo and Dimini, Thessaly, *Anthropologica*, 5, 51-62 (in Greek).
13. Xanthakis.J and Liritzis.I (1986) The geomagnetic intensity for the period 7000 B.C. to 1900 A.D. *Proceedings of the Academy of Athens*, 61, 187-196 (in Greek).
14. Liritzis Y. (1989) Dating of Calcites: Some aspects of radiation survey in caves and dose-rates. *Bull. Geol. Pays. Hell.*, 34/1, 123-136.
15. Liritzis Y. (1987/88) Signs of variation of Uranium and Thorium isotopes in Cave sediments. *Bull. Geol. Pays. Hell.*, 33, 433-441.
16. Liritzis Y., and Sampson, A (1989) Gama Radiation Survey in Tharounia cave, Euboea. *Annales of Archaeology and Anthropology*, 3, 61-64.
17. Theocaris.P, Liritzis.I and Galloway.R.B (1995) Dating of two Hellenic pyramidal made of carved limestone by thermoluminescence. *Proceedings of the Academy of Athens*, vol. 70, 96-127.
18. Liritzis.I and Maniatis.Y (1995) Dating Study of quaternary calcites and bones, *Acta Anthropologica*, 1, 65-84 (in Greek)
19. Liritzis. I (1996) 8th International Meeting of Ancient Drama in Delphi *AEROPOS*, vol.5, 33-36 (in Greek).
20. Liritzis.I (1997) The mystery of the Greek pyramidal. *AELLO*, vol.9, 32-34 (in Greek).
21. Liritzis, I (2003) Anaxagorean nous and its analogies in Orphic cosmogony. *Φιλοσοφία (Philosophia)*, Journal of the Academy of Athens, Vol. 33, 257-265.(in English).
22. Liritzis.I and Raftopoulou.M (1998) Argolid: connection of prehistoric myths with geoenvironmental elements. *Archaeology & Arts*,vol.69, 60-66. (in Greek)
23. Liritzis, I (2007) Obsidian dating of tools with a nuclear analysis and obsidian trade in the Mediterranean. *Nissyriaka Chronika*, 264-287 (in Greek).
24. Liritzis, I (2008) Archaeometry: an international established interdisciplinary field. *Historia Illustrated* (in Greek), Papyrus Press, 16-23.
25. Liritzis, I (2009) The dating of Strofilas, Andros by obsidian hydration dating. *Nisos Androsos*, G.Dardanos Press, Athens, 46-60 (in Greek)
26. Liritzis, I (2010) Archaeometry or physical sciences in the study of cultural heritage: an international established scientific subject in education. *Contemporary Issues in Education*.
27. Liritzis, I (2012) The contribution of Archaeometry to the cultural and sustainable development of Mediterranean islands. *Intern. & European Politics*, issue 24, Special Issue: *Mediterranean & the World, Past and Present*, Papazisis Press, Athens, 24-34 (in Greek)
28. Liritzis, I (2013) Does archaeometry contribute to cultural tourism and sustainable development? (Συμβάλλει η αρχαιομετρία στον πολιτιστικό τουρισμό και στην αειφόρο ανάπτυξη;). In: *Management of museum collections in our time of financial crisis*, Dr Polychroniadou, E (editor), Thecharakis Foundation, Athens (in press, in Greek)
29. Liritzis, I (2010) The scholar and the diachronical values. In *Proceedings Volume From the Education of benefit to the Education of depth*, Aristotle University of Thessaloniki, Poytechnic School, Dept of Civil Engineering, 14 May 2010, 133-141

CONFERENCE PROCEEDINGS

1. Liritzis. I (1981) Two dating approaches by thermoluminescence for the location of ancient Helike Proceedings of 1st Scientific Conference for Ancient Helike, *Hellenic Travelling Club of Aigion, Athens*, 203-207. (in Greek).
2. Liritzis. I (1983) Combined methods of thermoluminescence and U-series: A new dating approach in dating contaminated cave stalagmites. *Proceedings of 3rd Hellenic Physicists Conference*, σ. 225.(in Greek).
3. Liritzis. I (1983) New technique of dating ancient metals: the Ra-226 method *Proceedings of 3rd Hellenic Physicists Conference*, 225-226. (in Greek).
4. Liritzis.I, Petropoulos.B and Zachariadis.Th (1983) Variation of aurorae frequency of occurrence as a function of solar indices and geomagnetic intensity *Proceedings of 3rd Hellenic Physicists Conference*, 226-227.(in Greek)
5. Petropoulos, B. and Liritzis, Y. (1984). Ozone concentration and Aurora frequency in relation to solar-terrestrial indices; *Proc. Quadrennial Symp. on Ozone, Chalkidiki (Greece)*, eds. Zerefos C.S. and Chazi A., D., Reidel & Co., Dordrecht, 691 – 696. (refereed)
6. Liritzis. I and McGeehan B. (1986) Dating of slags by thermoluminescence and their role to archaeology. Proceedings of Seminar. "*The slags of ancient Greek metallurgy* ", IGME, 69-80. (in Greek).
7. Xanthakis J. and Liritzis Y. (1990) Hellenic archaeomagnetic intensity master curve: Tentative results from spectral analysis. *Proceedings of 1st Hellenic Geophys. Congress*, Athens, 166-179. (refereed)
8. Galloway R.B., Liritzis Y., Sampson A. and Marketou T. (1990) Radioisotope analysis of Aegean tephras: Contribution to the dating of Santorini Volcano. *Thera and the Aegean World III* (Doumas C ed.), 43-54.(refereed)
9. Liritzis I. and Petropoulos B. (1994). The relationship between precipitation and shallow earthquakes ($M \geq 5 \frac{1}{2}$) revisited. *Europ. Seism. Comm. XXIV*, General Assembly, Sept. 1994, Athens, vol. 1, 1973-1979. (refereed)
10. Liritzis Y. (1992) Dating by thermoluminescence and Laser: New light to...light. *Proceedings A' Symposium of Archaeometry. Publ. By Greek Archaeometry Association*, 125-133, (in Greek). (refereed)
11. Kosmatos.D, Lagios.B, Giannopoulos.G and Liritzis.I (1993) Emergence and behaviour of radon isotopes in Greek geothermal fields. *Proceedings of PanHellenic Conference in Geology, Bull. Hell. Geological Assoc.*, XXVIII/2, 605-622. (in Greek).(refereed)
12. Liritzis.I (1993) Beta thermoluminescence: New dating method for quaternary chronology. Proceedings of 2nd PanHellenic Conference in Geophysics (*Applied Geophysics/ Physics of Earth's interior*), 288-299.(in Greek) (refereed).
13. Liritzis.I, Petropoulos.B, Machera.H and Antonopoulou.E (1993) Variation in the auroral borealis frequency occurrence in relation to solar and geomagnetic activity during 1976-1986. *Proceedings of 1st PanHellenic Astronomy Conference (National Astronomy Committee)*, 63-67.(in Greek). (refereed)
14. Liritzis I. (1995) Some effects of tectonic activity on the archaeometric dating of ancient monuments. Intern. Seminar, "*Historical and monumental structures in seismic regions*", 14-15 Oct., 1993, Santorini, Greece. Abstract Book, *European Journal PACT*
15. Liritzis, I & Galloway, R.B (1995) Solar- Climatic effects on Lake/ Marine sediment radioactivity variations. In *Holocene Cycles. Climate, Sea Levels, and Sedimentation, Journal of Coastal Research*, Chapter 10, No.17, 63-71.

16. Liritzis, I, Galloway R.B., Lykousis, V, Chronis, G and Anagnostou, G (1997) New chronostratigraphic method based on the radioactivity variation of sea sediments: results from the Aegean and Ionian sea. *5th Hellenic Conference on Oceanography*, 431-434. (in Greek) (refereed)
17. Liritzis, I (1996) Recent data on the novel dating method (optical luminescence) of megalithic monuments. *Proceedings 3rd Hellenic Conference of Archaeometry, In Bassiakos, Y, Aloupi, H, Facorellis, G, eds) Archaeometric Studies for the Greek Prehistory*, Society of Messenian Studies, Athens, 69-80.(in Greek) (refereed)
18. Liritzis, I and Galloway R.B. (1997) Dating of thin ceramic sherds from boreholes in the region of ancient Helice by optical luminescence. *Proceedings of the 2nd International Conference for Ancient Helice, HELIKE II, Ancient Helice & Aigialeia*, (Katsonopoulou, D, Soter, S and Skilardi, D, eds.), Publication by the Society of Friends of Ancient Helice, Aigion, 183-188.(in Greek) (refereed)
19. Liritzis I. (1997) Luminescence and Cyclopean walls: Effects on dating and provenance. *4th International Symposium on the Conservation of Monuments in the Mediterranean*, Rhodes, 6-11 May 1997, *Proceedings*, vol. 2, 143-152.
20. Liritzis, I (1998) Modern Science and ancient Greek civilization. *Proceedings on "Education, Philosophy, Culture of recent Greece: Self knowledge and future"*, Published by Association of Scientific Thought, 145-148. (in Greek)
21. Liritzis, I (1998) Archaeometry as a means of verifying the prehistoric Aegean civilization. Specialized Meeting on the *Aegean*, Athens 23/6/98, Organized by: Hellenic Sailing Club of Open Sea – University of the Aegean – Greek National Tourist Organization.(GNTO), *Proceedings by GNTO*,. 63-72. (in Greek & English)
22. Liritzis.I (2000) The future role of archaeoastronomy of Greece in 2000+, *Proceedings of the Panhellenic Conference on: Astronomy 2000+ Greek prospects for the 21st century*, Penteli Astronomical Station 12 & 13 Nov. 1998, (J.Ventura, R.Korakitis, E.Kontizas, eds.), *Greek National Committee for Astronomy*, 101-105.(refereed)
23. Liritzis.I (2001) Optical luminescence: Review of the new dating method of ceramics in the service of archaeology. In *Studies on Greek prehistory & Antiquity*. (Bassiakos, Y et al., eds), Hellenic Archaeometry Association, 37-46.(in Greek)(refereed)
24. Liritzis I., Galloway R.B. (2000) Solar bleaching of thermoluminescence of ancient marble and limestone: dating and provenance implications. *Proceedings of the International Conf. of Paros and Cycladic marbles, PARIA LITHOS*, (Schilardi.D & Katsanopoulou.D, eds), 603-608.(refereed).
25. Liritzis, I (2002) Radioisotopic analysis of volcanic tephtras from Dodecanesse and southern Aegean. *International Conference Proceedings on Archaeology & Environment in Dodecanesse: Research & Cultural Tourism*, (Liritzis, I ed.), Lab of Archaeometry, University of the Aegean, Rhodes, 83-88.
26. Stevenson.C.M, Liritzis.I and Diakostamatiou.M (2002) A preliminary report on the hydration dating of Melos, Yali and Antiparos obsidian. *Proceedings of Intern. Conference, Hyalos- Vitrum- Glass* (G.Kordas ed.), Athens, 41-45.(refereed)
27. Liritzis.I (2004) Luminescence dating of megalithic monuments. *Proceedings of the International Conference Exploring the Maltese Prehistoric Temples*, published by OTS Foundation, Florida.
28. Liritzis.I and Vassiliou.H (2006) Highlighting New Archaeoastronomical Results From Greece (prehistoric, classical and Byzantine temples). In *Lights and Shadows in Cultural Astronomy, Proceedings of SEAC 13, 2005*, Regione

- Autonoma Della Sardegna & Instituto de Astrofisica de Canarias, Isili, Sardinia, 220-238.
29. Liritzis, I (1999) Regarding the Works of five Delphi adorers (A.Sikelianos, P.Vouzas, Eva Palmer Sikelianos, Fivos Delfis, Th. Christopoulos). In *Delphic Idea, Ancient Greek Rationale, and Contemporary World, Proceedings of 4th Philosophical Meeting on Contemporary Thoughts, Topic: Myth & reality from within the ancient Greek texts and the Visions of A.Sikelianos. (Liritzis, I, ed), Delphi 21st March 1998, Academy of Delphic Studies, No.4, 5-9.*
 30. Liritzis, I (1997) Orphic Cosmogony: Early beliefs and modern views. In *Delphic Idea, Ancient Greek Rationale, and Contemporary World, Proceedings of 3rd Philosophical Meeting on Contemporary Thoughts, (Liritzis, I, ed.), Academy of Delphic Studies, No.3, 62-77.*
 31. Liritzis, I (1999) Myth as a natural occurrence. The deluge of Inachos. In *Delphic Idea, Ancient Greek Rationale, and Contemporary World, Proceedings of 4th Philosophical Meeting on Contemporary Thoughts, Topic: Myth & reality from within the ancient Greek texts and the Visions of A.Sikelianos. (Liritzis, I, ed), Delphi 21st March 1998, Academy of Delphic Studies, No 4, 79-93.*
 32. Liritzis, I (1994) Diachronical Principles of Delphic Idea. In. *Delphic Idea, Ancient Greek Rationale, and Contemporary World, Proceedings of 1st Philosophical Meeting on Contemporary Thoughts, (Liritzis, I, ed.), Academy of Delphic Studies, No.1, 53-60 & 97-102 (in English)*
 33. Liritzis, I (1996) Towards a New Delphic Movement. In *Delphic Idea, Ancient Greek Rationale, and Contemporary World, Proceedings of 2nd Philosophical Meeting on Contemporary Thoughts, (Liritzis, I, ed.), Academy of Delphic Studies, No.2, 54-57.*
 34. Liritzis, I (2007) Assessment of Aegean obsidian sources by a portable ED-XRF analyzer (grouping, provenance and accuracy). In: *Proceedings of PanHellenic Archaeometry Conference (with international participation) (Facorellis et al., eds) Archaeopress, BAR International Series, 399-406 (refereed)*
 35. Liritzis.I, Stevenson.C, Novak.S, Abdelrehim.I, Perdikatsis.V and M. Bonini (2007) New prospects in obsidian hydration dating: An integrated approach. *Proceedings of the Hellenic Archaeometry Society, Athens, British Archaeological Reports (BAR) International Series, 9-22.(refereed)*
 36. Liritzis.I and Vassiliou.H (2006) Further solar alignments of Greek Byzantine churches. *Proceedings of SEAC 14, Rhodes, Special Issue of Mediter. Archaeology & Archaeometry, Vol.6, No.3, 7-26.(refereed)*
 37. Liritzis.I, Ganetsos.Th, Laskaris.K, Stevenson.C.M, Novak.M (2005) Diffusion phenomena in solids and application in the dating of ancient obsidian tools by SIMS and IR-PAS. XXI Hellenic Conference of Solid State Physics and Materials Science, 28-31 August 2005, Limosol, Cyprus, 33-35.(refereed).
 38. Liritzis.I (2006) The birth of God Sun: the winter solstice and the society of symbols in various people. *TYPOS in HISTORY, No.1, 23 Dec. 2006, 12-14 (in Greek)*
 39. Liritzis.I (2006) The measurement of Time: how time is measured since the dawn of history. *TYPOS in HISTORY, No.2, 30 December 2006, 8-11 (in Greek)*
 40. Liritzis. I (2006) The issue of time from Stoics to modern era. *TYPOS in HISTORY, No.2, 30 December 2006, 12-14 (in Greek).*
 41. Liritzis, I (2012) 12000 years of non linear cultural evolution. The physics of chaos in archaeology (The Hellenic case). *Proceedings 5th Hellenic Archaeometry Conference 8-10 Oct 2008, Athens, 961-975 (in Greek).*

42. Liritzis, I (2009) The contribution of archaeometry to the development of cultural tourism. Regional Meeting Municipality of Megalopolis. *Proceedings on Cultural Tourism in Lykaeon Mountain*, 23-24 May 2008. (in Greek, in press).
43. Liritzis, I (2008) Proceedings of One-Day Meeting by Hellenic Archaeometry Association under the aegis of the Ministry of Culture, on ‘*Natural Sciences and archaeological Materials: the national agents of research discuss and propose*’, 27-30 (in Greek)
44. Liritzis, I (2008) The contribution of archaeometry in the support of cultural tourism. In *Cultural Tourism in Lykaeon Mount*, 1st 2Day Meeting 23-24 May 2008 Cultural Center of Megalopolis Municipality, eds. Kostaridou, S & Liritzis, I, 79-88.(in Greek)
45. Laskaris, N and Liritzis, I (2012) Further improvement of obsidian hydration dating method SIMS-SS with modelling of H⁺ profile: suitability criteria. *Proceedings 5th Hellenic Archaeometry Conference* 8-10 Oct 2008, Athens, 157-168 (in Greek)
46. Casali, F, Morigi, M.P, Brancaccio, R, Montefusco, L, Jerjen, I, Flisch, A, Sennhauser, U, Liritzis, I and Tineanu, I (2009) X-ray computed tomography for damage assessment of cultural heritage assets. *Prohitech-09 Conference (6th FP), Protection of Historical Buildings, Rome 21-24 June*,(Mazzolani, ed), Taylor & Francis Group, London, ISBN 987-0-415-55803-7, 847-851.
47. Liritzis, I I (2010) The archaeology of agriculture: A brief review. In *Where does Agriculture stands on?* Summer Ecological School, Efthimiopoulos, E, ed, Interdisciplinary Institute of Environmental Research, Samothrace, 4-8 July 2010, Livani Press, Athens, 13-23. (in Greek).
48. Liritzis, I (2012) Does Archaeometry contribute in the development of cultural-educational tourism & sustainable development? In 17th Scientific Conference of Greek Regionalists Delphi “The future of developmental and urban planning of Greece”, Society of Greek Regionalists, National Technical University of Athens, Univ of Central Greece et al., Proceedings Editor Dr Ladias, 545-559 (includes Introductory Greeting p.19-20)
49. Liritzis, I (2011) Archaeometry in the study of material culture: an internationally established subject for the higher education. In *Proceedings 1st Symposium ARC_RNT: Archaeological Research & New Technologies*, University of Peloponnese, Lab of Archaeometry, Kalamata, 19-29 (in Greek).
50. Liritzis, I (2014) Obsidian hydration dating (Μέθοδος χρονολόγησης με ενυδατωση οψιανού). *Proceedings 3rd ARCH_RNT, Archaeological Research & New Technologies*, University of Peloponnese, 116-122

PARTICIPATION & ORGANIZATION OF CONFERENCES

Participation in more than 150 Conference with oral or poster presentation, Organization of International and National conferences on Physical Sciences, Cultural Heritage, Cultural Tourism, and Philosophy.

**LAST DECADE INITIATIVES -CONFERENCES INITIATED &
(CO-) ORGANISED BY I. LIRITZIS (1998-2009)**

1. One Day Meeting: «Aegean: Cradle of western civilization», 23 June 1998. Univ of the Aegean & Panhellenic Club of Sailing Open Seas (PCSOS), Mikrolimano, Pireus, Proceedings edited by I.Liritzis, Dept of Mediterranean Studies, Univ of the Aegean, & PCSOS (in Greek)
2. Liritzis, I & Sakkas, Y (editors) 2 Day Meeting on the “Role & physiognomy of the new Dept of Mediterranean Studies”, 5-6 December 1998, Rhodes, Dept of Mediterranean Studies, Univ of the Aegean.
3. European Research Workshop “Archaeometry in Archaeology: New trends”, 3-6 November 1999, Rhodes. Special Issue at Journal of Radioanalytical and Nuclear Chemistry, Vol 247, No3, 2001. Guest Editor I. Liritzis.
4. International Conference “Archaeology and Environment in Dodecanese: Research and Cultural Tourism”, 2-4 November 2000, Rhodes. Proceedings edited by I. Liritzis, Dept of Mediterranean Studies, Univ of the Aegean (2002).
5. Archaeological Workshop: “The Aegean basin between the Balkans, Anatolia and Near East: Local experimentations and outward interactions in an island society”, στην frame of INTERREG II Programme, 23th March 2001, Rhodes, proceedings by I.Liritzis & A.Sampson, Rhodes Dept of Mediterranean Studies, Univ of the Aegean (2001).
6. International Conference “Religion and Rationalism in Ancient Greece”, 25-29 May 2001, Rhodes. University of the Aegean, Dept. of Mediterranean Studies and CIERGA International association.
7. 1-Day Workshop Seminar on « Literature, thinking and philosophical trends: can we speak of a center and a region in Europe? What is the role of thinkers?» along the frame of program «CULTURE 2000, EU Programme: Literature approach », 8 March 2002, Rhodes, International Center of Writers & Translators, Rhodes, University of the Aegean, Dept of Mediterranean Studies.
8. International Conference: *Settlers and Settlements in Greece, 9000-1000 BC*, Rhodes 7-11 October 2002. Organised by the Lab of Archaeometry, Dept of Mediterranean Studies, Proceedings edited by I Liritzis..
9. *Melos International Workshop* “Recent Advances in Obsidian Dating and Characterization”, 2-6 July 2003, Melos island, Greece. University of the Aegean, Dept. of Mediterranean Studies, Laboratory of Archaeometry, co organised with International Association for Obsidian Studies (I.A.O.S.).
10. 1 Day Seminar «Application of informatics in archaeology» in the frame of action «Restructuring Undergraduate Syllabus of Dept of Mediterranean Studies» EU-Ministry of Education Programme, 28 October 2004.
11. *International Conference: ‘The Archaeology of World Megalithic Cultures’, “ Theme Session: EuroMediterranean Megalithic Cultures, 5000-1300 B.C.”, Rhodes 28-31 October 2004.*
12. *Application of Informatics in Archaeology* (28-10-2005). Organised by Archaeology Division- Lab of Informatics (Director Prof I Liritzis) & Student Union,.
13. International Workshop: The Impact of Natural Catastrophes on Ancient Mediterranean Civilizations” 28-30 October 2005 Island of Rhodes, Greece (Some presentations after peer review are published in MAA issues.)
14. 2 Day Meeting in the frame of EU Programme «Local initiatives & employment» Measure 4.1 «Actions on promotion of employment & actions on education » Enterprise Regional Programme of Southern Aegean 2000-2006 entitled «Cultural Tourism in the 3rd Millennium: Rhodes- Employment- Culture », 17-18 March, 2006, Rhodes, Municipality of Rhodes, University of the Aegean, et al Agents of Public & Private Sector. Proceedings edited by I.Liritzis.

15. *International Conference on Archaeoastronomy, SEAC2006, "Ancient Watching at Cosmic Space and Observation of Astronomical Phenomena", 6-10 April, 2006, Rhodes, Greece* (Those Presentations peer reviewed and accepted are published in Special Issue of MAA, Vol.6, No.3, 2006, Editor I. Liritzis)
16. Open Seminar Statistical Elaboration of Archaeometrical data in collaboration with Dr I.Papageorgiou, Univ of Athens, Dept of Statistics. 29 & 30 May 2006, Lab of Archaeometry, Rhodes.
17. 1 Day Meeting: «New Technologies in the archaeognostic sciences », in the frame of Action «Restructuring Undergraduate Syllabus of the Dept of Mediterranean Studies of EU- Ministry of Education Programme, 24 October 2006, Rhodes.
18. INTERNATIONAL SPECIALIZED WORKSHOP. The dating and Provenance of Obsidian and Ancient Manufactured Glasses. Delphi, Greece, 21-24 February 2008. Lab. of Archaeometry, Dept of Mediterranean Studies, Univ of the Aegean, Rhodes and Virginia Dept. of Historic Resources Richmond, Virginia, USA. Εκδ. TOMOY από New Mexico Press, Editors I.Liritzis & Chris Stevenson. <http://www.rhodes.aegean.gr/tms/delphiobsidian2008/index.htm>)
19. 1 Day Meeting: «Towards a spiritual chart of the Aegean », 22/09/2008, Ianos Hall, Athens, Initiative by Members of the Univ of the Aegean, Proceedings edited by Liritzis, I & Rousos-Papadakis, E.
20. International Symposium on: «*Styria Gaia: The archaeology of Southern Euboea*», 3-5 July 2009, Styra Euboea, Municipality of Styra & University of the Aegean Lab of Archaeometry, Proceedings as a Special Issue of Mediterranean Archaeology & Archaeometry, Vol.10, No.3, edited by Editor in Chief I .Liritzis, Guest Editor Dr R. Keller.
21. 1st Luminescence in Archaeology International (L.A.I.S.) Symposium, 9-12 September 2009, Delphi, Greece. University of the Aegean, N.C.S.R. Demokritos, University of Peloponnese, Technological Educational Institute of Lamia. President of the permanent committee of LAIS, I.Liritzis. Special Issue in Med. Archeol.Archeom, with guest editor Dr N.Zacharias.
22. **Initiator of a Protocole of Collaboration** between Sohag University and Aegean University on Nov 2009 signed by Prof Liritzis and Dr El Gohary and the rectors of the two Universities
23. **Initiator of a Protocole of Collaboration** between Beni Suef University and Aegean University signed by Prof Liritzis and Dr M.Metawa and the reactors of the two Universities on Febr 09 in Beni Suef and May 09 in Mytilini
24. **International Workshop on VIRTUAL ARCHAEOLOGY: Museums & Cultural Tourism** 25-28 September, 2013 Delphi, Greece <http://vamct13.syros.aegean.gr/>
Organizer: University of the Aegean, Dept. of Mediterranean Studies, Laboratory of Archaeometry, in collaboration with: The University of the Aegean, Dept. of Product and Systems Design Engineering, Research Center "ATHENA"- Xanthi, Dept. of Digital Cultural Heritage «Klepsydra», Duke University, Dept. of Classical Studies (USA), UNDER THE AEGIS OF THE GREEK MINISTRY OF EDUCATION, CULTURE, RELIGION, & SPORTS.
25. **2nd International Symposium, L.A.I.S. 2012 LISBON**, <http://www.lais2012.itn.pt>, GeoLuC, UCQR, Instituto Tecnológico e Nuclear, EN10, 2686-953 Sacavem, Portugal. President of LAIS series Prof Ioannis Liritzis.

RECENTLY INVITED SPEAKER

1. *Obsidian Summit International Workshop, 2-3 Sept 2004, Rikkyo University, Tokyo Japan.* (& Session at Meiji: Meiji Univ, Meiji Univ Institute of Humanities, Meiji Univ Center for Obsidian & Lithic Studies).

2. *University of Sohag, Egypt, Dept of Conservation Studies, Faculty of Arts, 30 Oct 2009. Talk on 'Conservation and Archaeometry and Pigment Analysis of mural paintings'.*
3. *Physical Research Laboratory, Ahmedabad, India, 2nd Asian-Pacific Luminescence & ESR Dating, 11-26 Nov 2009. Talk on 'Surface luminescence dating : an overview'*
4. *6th Symposium of Intensive Medicine Care of Military Forces, 30-31 May 2008, Athens. Talk on 'Discovering the past with physics'*
5. *Hellenic Archaeometry Association & Ministry of Culture, Natural Sciences & archaeological materials, The institutes of research discuss and propose. 7 May 2007 Athens, Talk on the "Initiation of a National Archaeometry Network".*
6. *9th Intern Workshop on Non-Crystalline Solids, Porto 27-30 April 2008. Talk on Diffusion phenomena in non crystalline obsidian samples and applications in the dating of ancient obsidian tools by SIMS and FT-IR co authored).*
7. *Aegean nanoscience and nanotechnology Workshop. 2nd International Conference from "Nanoparticles & nanomaterials to nanodevices & nanosystems", Rhodes 28 June- 3 July 2009. Talk on "From micron to nano scale in rhyolites: SEM, PLM and AFM in obsidian hydration dating by SIMS-SS.(<http://www.uta.edu/ic4n/>).*
8. *Exploring the Maltese Prehistoric Temple Culture, 25-27 Sept 2003 Malta. Talk on 'Luminescence dating of megalithic monuments'. (<http://www.otsf.org/EMPTC-conference.html>).*
9. *Intern. Conference Egypt and the Mediterranean Countries: Historical ties and a future vision, Beni Suef University 2-4 April 2009, Under the Patronage of Minister of Higher Education, Talk on 'the Role of archaeometry to cultural heritage, tourism and diplomacy.'*
10. *3 Days Seminar on Environmental Education, Center for Environmental Education, Amfissa, Central Greece, on "Climatic Changes & Environment", 27-29 March 2009, Talk on " Palaeoclimate and Astronomy".*
11. *1st Regional STACHEM (Science & Technology for archaeology & Cultural Heritage in the Eastern Mediterranean, EU funded FP7 project) Workshop on Infrastructures in Natural & Material Sciences in Archaeology, 8th May 2009 Xanthi, Greece. Talk on 'Coordination of network activities and initiatives on archaeometry'.*
12. *Invited Professor at University of Cairo, Egypt, Spring 2010, Faculty of Archaeology, Dept of Conservation.*
13. *Invited Speaker 2nd Symposium on Archaeological Research & New Technologies, ARCH_RNT, Dept of History, Archaeology & Cultural Management, Univ of Peloponnese, Kalamata, 21 – 23 Oct, 2010*
14. *In Where does Agriculture stands on? Summer Ecological School, Interdisciplinary Institute of Environmental Research, Samothrace, 4-8 July 2010.*
15. *Art Collectors & Collections, 2nd Round of Lectures Theocharakis Foundations Athens, 24 Jan-7 Febr 2011.*
16. *Greek Regionalists Conference on the "Future of Regional development and Urban planning in Greece", Delphi 24-25 Febr 2012. (Organised by several agents, Responsible: Dr Ladias Univ of Central Greece).*
17. *Plenary Lecture at 2nd Luminescence in Archaeology International Symposia, LAIS2012, Lisbon, 5-7 Sept 2012. 'Updating of radiation dose-rate conversion factors: a critical re-evaluation'*
18. *Invited Lecture at 3rd ARCH_RNT (Archaeological Research & New Technologies) University of Peloponnese, Kalamata, 3-5 Oct 2012, "Dating by Obsidian Hydration: Recent data and new perspectives, Dept of History, Archaeology & Cultural Management, Univ of Peloponnese, Kalamata, 21 – 23 Oct, 2012, Abstract Book, 39-40.*
19. *6th Symposium of Hellenic Archaeometry association Athens 16-18 May 2013 Liritzis et al., "Prehistoric Delphi: Luminescence dating on ceramics and stone from Koumoula*

(Livadhi Valley, Parnassus mountain, Delphi, Greece)” Abstract Book, p.37 (www.archaeometry.gr).

20. Invited to serve on the International Program Committee (IPC) of Digital Heritage 2013 International Congress held in Marseille, France, from Oct,28th to Nov,1st,2013 (<http://www.digitalheritage2013.org>)

21. Invited visiting distinguished professor at California University at San Diego (Qualcom Inst & Center of Hellenic Studies & Dept of Anthropology, USA), participation to UCSD-University of the Aegean Workshop (29 Oct – 2 Nov 2014)

22. Invited visiting distinguished professor at Coastal Carolina University, Edwards College of Visual Arts, USA (22 Oct-29 Oct., presented five lectures).

NEW RECENT ACTIVITIES

Summer School:

<https://aegeanarch2013.pns.aegean.gr/>

International Workshop:

<http://vamct13.syros.aegean.gr/>

e-Learning in Archaeometry 2012-13

<http://e-epimorfosi.aegean.gr/archeometry-program-home>

e-Learning in Archaeoastronomy 2013-14

http://e-epimorfosi.aegean.gr/e-viewpr?prpd_id=48931&menu=general

e-Learning in Archaeometry 2013-14

http://e-epimorfosi.aegean.gr/e-viewpr?prpd_id=55493&menu=general
(archaeometry)

PAPERS PUBLISHED IN FOLLOWING ICI INTERNATIONAL JOURNALS & THEIR IMPACT FACTOR

NATURE	38.59
JOURNAL OF ARCHAEOLOGICAL SCIENCE	2.24
ARCHAEOLOGY	1.287
ARCHAEOLOGICAL PROSPECTION	1.49
NUCLEAR GEOPHYSICS	0.364
APPLIED SURFACE SCIENCE	2.11
NATURWISSENSCHAFTEN	2.14
ASTRONOMY & GEOPHYSICS	0.607
NEW ASTRONOMY	1.921
PHYSICS OF THE EARTH & PLANETARY INTERIORS	2.420
SURVEYS IN GEOPHYSICS	1.405
JOURNAL OF RADIOANALYTICAL & NUCLEAR CHEMISTRY	1.46
BYZANTINISCHE ZEITSCHRIFT	0.12
GEOPHYSICAL JOURNAL INTERNATIONAL	2.85
COMPTEs REDUES DE L'ACADEMIE DES SCIENCES, PARIS	
Comptes Rendus de l'Académie des Sciences - Series IV - Physics – Astrophysics: Continued as Comptes Rendus Physique	1.90

<i>Comptes Rendus Geoscience: Formerly part of Comptes Rendus de l'Académie des Sciences - Series IIA - Earth and Planetary Science</i>	
<i>GEOARCHAEOLOGY INTERNATIONAL</i>	1.029
<i>QUARTERLY JOURNAL OF ROYAL ASTRONOMICAL SOCIETY</i>	5.352
Monthly Notices of the Royal Astronomical Society: A Journal of the Royal Astronomical Society	
<i>NUCLEAR INSTRUMENTS & METHODS</i>	
<i>NUCLEAR INSTRUMENTS AND METHODS IN PHYSICS RESEARCH SECTION B: BEAM INTERACTIONS WITH MATERIALS AND ATOMS</i>	1.26
<i>Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i>	1.14
<i>EARTH , MOON & PLANETS</i>	0.83
<i>PURE & APPLIED GEOPHYSICS</i>	0.975
<i>JOURNAL OF COASTAL RESEARCH</i>	0.77
<i>NUCLEAR TRACKS & DETECTORS</i>	
Radiation Measurements: Nuclear Tracks and Radiation Measurements	1.023
<i>MEDITERRANEAN ARCHAEOLOGY & ARCHAEOOMETRY</i>	0.24
<i>MEASUREMENT</i>	1.16
<i>JOURNAL OF CULTURAL HERITAGE</i>	1.28

CITATIONS

* Over 800. He is cited in the WHO'S WHO IN THE WORLD, Marquis Publ. USA, WIKIPEDIA, GOOGLE SCHOLAR, SCOPUS, ACADEMIC SEARCH etc. Reported in Top Cited Scientists on Arts & Humanities.

* Special Exposition of my Research Work in various publications e.g. by Dr Felix Grant (2001) Computing the Past, In Scientific Computing World, Sept/Oct., 25-29

* TIMES and New Scientist...on Greek pyramids; Discovery Channel; <http://www.powerhousemuseum.com/zagora/2012/11/14/archaeometry-surface-luminescence-dating-of-built-structures>; <http://www.science-frontiers.com/sf116/sf116p01.htm>, and many more.

* * *