

# EKATERINI MALEA

## PERSONAL DETAILS

Name - Surname: Ekaterini Malea  
Place and Date of Birth: Athens, 4 February 1967  
Citizenship: Greek  
Marital Status: Married, two children  
Contact details: [kmalea@uniwa.gr](mailto:kmalea@uniwa.gr)  
tel. +30 210 5385416 and mobile +30 6972262121,  
Business Address: University of West Attica (UNIWA),  
Dept. Conservation of Antiquities & Works of Art, Ag.  
Spyridonos str., GR 122 43 Aegaleo, Greece

## CURRENT POSITION

Lecturer, Laboratory of Conservation of Organic Materials and Laboratory of Conservation of Ceramics at the University of West Attica (UNIWA), Dept. Conservation of Antiquities & Works of Art.

## PROFESSIONAL LICENCE

Professional licence number: 291/19.01.1999 attributed by the Greek Ministry of Culture, area of expertise: Archaeological Conservation

## EDUCATION

May 1999	MPhil University of Cardiff, School of History & Archaeology, Wales, U.K. Master of Philosophy entitled " <i>Assessing the Physical Condition of Waterlogged Archaeological Leather</i> ", supervised by D. E. Watkinson  Recognition of the MPhil by the National Body DIKATSA (Inter-University Centre for the Recognition of Foreign Attributed Degrees) Action: 12/198, 11/01/2001
June 1992	BSc (Hons) [Ptychio in Greek] Technological Educational Institute of Athens (TEI-A), Department of Conservation of Antiquities and Works of Art, final degree mark: 89,4/100 (with distinction) Final year project entitled: " <i>Consolidation study of the building material of the Royal Tombs of Aiani Kozani</i> "

## LANGUAGES

- Greek, native language
- French, fluently (*Diplôme d' Études Supérieures*, IFA, 1985)
- Italian, fluently (*Superiore Diploma di Traduttore*, Istituto Italiano di Cultura di Atene, 1993 and *Diploma di 1o Grado di Lingua e Cultura Italiana*, Università di Sienna, 1993 )
- English, fluently (*Cambridge First Certificate in English*, 1985 and postgraduate studies in Britain).

## SCHOLARSHIPS

- Scholar for the academic years 1986-1987 and 1989-1990 by the State Scholarship Foundation (I.K.Y.)
- Scholar of the Greek ministry of Education and of Italian Ministry of Foreign Affairs for language and culture studies in University of Siena, Italy, July – September 1993.
- Scholar of British Archaeological School at Athens, 1994-1995, on study of archaeological leather.
- Scholar of Academy of Athens, I. Vozos Legacy, academic years 1995-1997, to carry out MPhil study in Cardiff, Wales, U.K.
- Scholar of Greek Ministry of Education and of State Scholarship Foundation (I.K.Y.), in the framework of bilateral Educational Exchanges between Greece-China, October 2008.

## TRAINING

May 2011	Training course on “Parchment-Latest Assessment” that took place at the European Research Centre for Book and Parchment Conservation-Restoration in Horn Austria. Tutors: Dr. René Larsen, Dorte V.P. Sommer and Kathleen Mühlen Axelsson.
May – June 2003	Training Program: “Education of Evaluators for the Accredited Training Institutes”, organised by the Greek Ministry of Labour in collaboration with the Institute of Civil Environment and Human Potential of Panteion University for Social & Politic Science.
02/09/2002–13/09/2002	Training at the 2 <sup>nd</sup> Seminar (80 hours duration) on Identification of fibres and weaving, International Centre for Ancient Textiles’ Studying CIETA, Lyon France, tutor: M.-H. Guelton.
03/04/2000–14/04/2000	Training at the 1 <sup>st</sup> Seminar (80 hours duration) on Identification of fibres and weaving, International Centre for Ancient Textiles’ Studying CIETA, Lyon France, tutor: O. Valansot.

25/09/1994–01/10/1994	Training on method for collagen extraction from bones and dating using the method of racemisation of aminoacids. C.N.R.S. Laboratoire du Géologie du Quaternaire, Marseille, France, tutors: Dr. R. Lafont and Dr. E. Marzin.
15/07/1993–05/09/1993	Attendance of courses on Italian Cultural Heritage and Language, University of Sienna, Italy.
March 1993 – June 1993	4 months Training: distance course on “Chemistry for Conservators” organised by the International Academic Projects in London, tutor: C.V. Horie.
20/07/1992–25/07/1992	Training at the Summer Course “Conservation of Leather”, organized by the University College of London, Institute of Archaeology, tutors: C. Calnan and B. Haines.
15/03/1992–22/03/1992	2 <sup>nd</sup> Training Seminar on “Materials and methods for the Consolidation, Preservation and Conservation of Stone”, organized by the National Technical University of Athens (NTUA) under the framework of ITECOM – COMET II program.
24/11/1991–30/11/1991	1 <sup>st</sup> Training Seminar on “Stone deterioration in monument environment: Causes, Deterioration Mechanisms, Methodology and Analytical Techniques”, organized by the National Technical University of Athens (NTUA) under the framework of ITECOM – COMET II program.
14/03/1990–06/06/1990 10/10/1990–30/01/1991	Training Seminars organised by the NCSR (national research centre of physical sciences) “Demokritos” on Archaeology – Archaeometry – Conservation.
26/06/1989–19/07/1989	Youth exchange program of Ministry of Youth, on “Archaeology – Anastelosis”, that took place in Turin Italy (ten young people have been selected from all over Greece).

## WORK EXPERIENCE

1/3/2018- today	Lecturer, Laboratory of Conservation of Organic Materials and Laboratory of Conservation of Ceramics at the University of West Attica (UNIWA), Dept. Conservation of Antiquities & Works of Art. [*UNIWA was formed by the merger of T.E.I. of Athens and T.E.I. of Piraeus].
2005-28/2/2018	Lecturer, Laboratory of Conservation of Organic Materials and Laboratory of Conservation of Ceramics at the T.E.I. of Athens, Dept. Conservation of Antiquities & Works of Art.
01/11/1996-30/09/2012	Free lanced conservator
1992-2005	TEI of Athens, Dept. Conservation of Antiquities & Works of Art, <i>Laboratory Teaching staff</i> <ul style="list-style-type: none"> <li>■ Laboratory of Conservation of Organic Materials (animal origin).</li> <li>■ Laboratory of Conservation of Ceramics.</li> </ul>

- Laboratory of Physicochemical Techniques (1993-1994)
- 2000 – 2002 – 2003 - Swedish Archaeological School at Athens, Director B. Wells, 2004 (two months each year) *Archaeological Conservator*
  - Conservation of ceramics
- 20/3/2000-31/7/2000 Ministry of Culture – Directorate of Conservation, External Collaborator, *Conservator, Archaeological conservation*
- 7/7/1998-6/10/1998 Ministry of Culture – Directorate of Conservation, External Collaborator, *Conservator, Archaeological conservation*
- 15/7/1997-31/8/1997 Ministry of Culture – D' Ephorate of Classical Antiquities, Conservation, External Collaborator, *Conservator, Archaeological conservation*
- 27/1/1997-8/7/1997 Ministry of Culture – Directorate of Conservation, External Collaborator, *Conservator, Archaeological conservation*
- September 1996 Ministry of Culture, IH' Ephorate of Classical Antiquities in collaboration with the French Archaeological School at Athens, excavation at the prehistoric site of Dikili Tas in Kavala, External Collaborator, *Conservator, Archaeological conservation*
  - Conservation of ceramics
- 1/6/1995-1/9/1995 Leather Conservation Centre, U.K. (chief executive R. Thomson), *Conservator*  
Conservation of historical leather
- August 1994 Excavation at Bouthrotos, Albania, director: Dr. A. Hatzi, *Head archaeological conservator, responsible for the organization of the conservation laboratory*
  - Conservation of ceramics, bones, stone, metals
- September 1992 Ministry of Culture, Archaeological Museum of Ios island, KA' Ephorate of Classical Antiquities, *Archaeological Conservator – external collaborator*,
  - Conservation of ceramics and ivory
- August 1992 Excavation at Bouthrotos, Albania, director: Dr. A. Hatzi, *Head archaeological conservator, responsible for the organization of the conservation laboratory*
  - Conservation of ceramics, bones, stone, metals
- July 1992 Excavation of Athens University at Acrotiri, Thera under the directorship of Prof. C. Doulas, *Archaeological conservator*
  - Conservation of ceramics, wall-paintings, stone
- March 1991 –February 1992 Zoological Museum of Athens University,
  - Creation of plaster casts of anthropidae for the permanent exhibition of the Museum
- July-September 1991 Excavation of Athens University at Acrotiri, Thera under the directorship of Prof. C. Doulas, *Archaeological conservator*

- 1/9/1989 - 27/2/1991      ■ Conservation of ceramics

Acropolis of Athens, *Stone conservator*

  - Documentation of deterioration of roof panels of Propylae, Acropolis of Athens.
  - Documentation of deterioration of roof panels of Athinae Niki, Acropolis of Athens.
  - Conservation of marble (Triglyph and Cornice of Eastern side of Parthenon, columns of North side and floor fragments)-Conservation and Restoration Team of Parthenon.
  - Conservation of sculptures at the Acropolis Museum (A' EPKA, Ministry of Culture).
- July-September 1989      Excavation of Athens University at Acrotiri, Thera under the directorship of Prof. C. Doumas, *Archaeological conservator*

  - Conservation of ceramics
- August-September 1988      Excavation of Athens University at Acrotiri, Thera under the directorship of Prof. C. Doumas, *Archaeological conservator*

  - Conservation of ceramics, wall-paintings, stone
- July 1988      Ministry of Culture, Archaeological Museum of Naxos island, KA' Ephorate of Classical Antiquities, *Archaeological Conservator – external collaborator*,

  - Conservation of ceramics
- July-September 1987      Excavation of Athens University at Acrotiri, Thera under the directorship of Prof. C. Doumas, *Archaeological conservator*

  - Conservation of ceramics, wall-paintings

**RESEARCH ACTIVITY**

- 2012 March – 2015 November      Main researcher in Archimedes III Research Program entitled: “New approaches and application of electrochemical techniques and corrosion inhibitors for in-situ monitoring of shipwrecks and treatment of recovered marine composite artefacts”. (Coordinator: Prof. Vassilike Argyropoulos).
- 2012 March – 2015 November      *Main researcher* in Archimedes III program entitled "Chelators used in clinical Medicine can lead to the development and implementation of innovative cleaning methods for removing iron corrosion products from museum artefacts" (MEDART). Coordinator: Dr. A. Pournou
- 2012 March – 2015 November      *Main researcher* at the project THALES, entitled “Saving wooden shipwrecks in the Mediterranean marine ecosystem: Research, development and application of innovative methods of in situ protection” (MERMAID, MIS

- 37569). Coordinator: Dr. A. Pournou  
<http://mermaid.thales.teiath.gr/>
- 01/04/2012  
31/05/2015
- *Main researcher* in Archimedes III program entitled " Bioart: definitions and limits. Research to establish a commonly accepted ethical management framework (BIOART)" (scientific director: Th. Avaritsiotis, Professor TEI of Athens)  
<http://www.bioartproject.net/>
- 01/02/2012  
30/09/2015
- *Main researcher* at the project THALES, entitled "Investigation of the Environmental factors effects on organic materials constituting the natural and cultural heritage" (INVENVORG, MIS 376986)  
<http://invenvorg.thales.teiath.gr/el>
- 01/04/2012  
31/05/2015
- *Main researcher* at the project Archimedes III entitled "Research for developing cleaning methods of cultural & natural heritage proteinaceous evidence, using laser radiation" (LACUNH).
- 2009 June- 2010  
December
- Main researcher, chief conservator* at the Project "Conservation and study of skeleton material from Grave Circle B at Mycenae", (financed by Institute for Aegean Prehistory).
- 17/08/2008  
17/11/2008
- *Main researcher* at the project «Bringing to prominence ethnographic material» under the framework of the program entitled «Routes of the Cultural Heritage of Florina». Action 2.2: Development of alternative tourism – promotion of cultural and touristic resources. The project was funded by the Region of Western Macedonia, Greece (Prefecture of Florina) through the European Regional Development Fund (INTEREG III).
- 15/01/2008  
14/03/2008
- Task leader of the team working on the Program "Documentation, conservation and presentation of the Hellenistic Collection of the Archaeological Museum of Hama in Syria: Establishment of Laboratory and Training of local Personnel" funded by the Dep-Hellenic Aid/Ministry of Foreign Affairs-Republic of Greece (9116/9/AΣ126/31.1.07 I.D.C.).
- 01/01/2006  
31/12/2007
- *Main researcher* at the Bilateral Collaboration project between Greece and Germany (IKYDA 2005) entitled « The importance of sustainability study in the overall assessment of local specific museums in Greece and Germany ». Common research program of the Technological Educational Institute of Athens and of the FHTW-University of Applied Sciences in Berlin, Germany.
- 02/10/2006  
01/10/2007
- *Main researcher* at the Program LEONARDO DA VINCI "Defining common standards for vocational training in

- Cultural Heritage Conservation Skills. Developing an ECPL – European Conservation Practitioner’ License”
- 01/01/2005  
31/12/2006
- *Main researcher* in the Project «Research for the Development of Acceptable Standards on the field of Conservation/Restoration of Cultural Heritage» implemented under the framework of Archimedes II, Program E.P.E.A.E.K. II "Education", Action line 2.2. Funded by the Greek Ministry of Education. Greek representative for the Working Group 1 of CEN/TC346 (Standardised terminology in Conservation of Antiquities & Works of Art).  
<http://www.teiath.gr/sgtks/saet/archimedes2/standards/index.htm>
- 01/04/2004  
31/08/2006
- *Main researcher* at the project ARCHIMEDES I entitled “Research for the management and promotion of natural monuments in situ”
- 01/02/2004  
31/08/2006
- *Main researcher* at the project entitled «Development of a biochemical cleaning method for museum objects of natural history with the aid of enzymes and inhibitors for the controlled removing of conservation materials from substratum with similar chemical composition » implemented under the framework of Archimedes I, Program O.P. "Education", Action line 2.2.
- 15/11/2004 -  
15/11/2005
- *Main researcher* at the project entitled, “First Aid for Wetland Cultural Heritage Finds: Tradition and Innovation”, implemented under the framework of the European project CULTURE 2004.  
<http://www.teiath.gr/sgtks/saet/culture2000/index.htm>
- 03/02/2003 –  
31/05/2003
- *Main researcher* at the project entitled «Distant learning brokerage Environment for Lifelong Training of Individuals with emphasis in Socially Excluded Communities» implemented under the framework of the European IST project “HOPE”- 2000-26271.
- 01/01/2000  
30/06/2006
- *Main researcher* at the Program EPEAEK entitled “Production of 100 Professional Monographs in multimedia for the purposes of the Employment Centers OAED
- 01/01/2001  
28/11/2001
- *Main researcher* at the Research Cooperation Program between Greece-Russia I entitled “Development of documentation methods and analysis of data on the biodeterioration of museum objects”.
- 01/01/2001  
31/12/2001
- *Main researcher* at the European Program RAPHAEL II R99/II.2.c.25-SI2.82796 entitled “Holistic approach & digital recording of the structure technology, decay, conservation and promotion of archaeological and historical leather

- artifact and natural history collection specimens”
- 01/12/1999  
31/05/2001
- *Main researcher* at the project entitled «Development of a multilingual dictionary of conservation / restoration terminology in printed and digital format» implemented under the framework of the European project “CONNECT”.
- 30/12/1999  
30/06/2000
- *Main researcher* at the Program EPEAEK- 2<sup>nd</sup> Community Framework Support, “Upgrading the studies of Conservation of Antiquities & Works of Art in Greece through the establishment of a new Curriculum and the development of new educational material in the Dept. Conservation of Antiquities & Works of Art, Technological Educational Institute (T.E.I.) of Athens”.
- 01/10/1998  
31/01/1999
- *Main researcher* at the European program RAPHAEL I titled: «Interscientific Course of Study for the selection of conservation methods compatible with research on organic archaeological materials» Community Scholarships. Ref: 97/412073
- 01/04/1996  
31/12/1996
- *Main researcher* at the program LIFE 92GRAI52/GR/4703 entitled “Zagori of Ioannina: Combined actions for the protection and development of natural and cultural environment”.
- 30/06/1996  
30/09/1996
- *Main researcher* at the research project EPET II: sub-project 1/Project 193 entitled “Daedalus: Documentation, Preservation and Promotion of cultural heritage in Crete”.
- 10/06/1995  
30/06/1995
- *Main researcher* at the project launched by the General Secretariat of Research and Technology 2986- Research and Technological Cooperation between Greece-Albania, entitled “Conservation and Restoration of objects and monuments of cultural material using new technologies”.
- 01/03/1994  
01/03/1996
- *Main researcher* at the research program PENED 91 ED183 (Funded by the General Secretariat of Research and Technology) entitled “Contribution to the investigation of socio-cultural data of the transition era between Mesohelladic-Late Helladic period using archaeometric methods on skeletal material.

## TEACHING EXPERIENCE

### UNDERGRADUATE COURSES

- 2018 – today
- Lecturer*, Laboratory of Conservation of Organic Materials and Laboratory of Conservation of Ceramics at the University of West Attica, Dept. Conservation of Antiquities & Works of Art.



- 2005 – 2018 *Lecturer*, Laboratory of Conservation of Organic Materials and Laboratory of Conservation of Ceramics at the T.E.I. of Athens, Dept. Conservation of Antiquities & Works of Art.
- 1992 - 2005 *Laboratory Assistant* at the T.E.I. of Athens, Dept. Conservation of Antiquities & Works of Art in the following courses:
- Physicochemical analytical techniques (one academic year)
  - Conservation of Organic materials
  - Conservation of Ceramics

#### POSTGRADUATE COURSES

- 2018 - today Lectures in the Postgraduate Course in Conservation organised by the Department of Conservation of Antiquities and Works of Art of UNIWA.
- 2003 - today Lectures in the Postgraduate Course in Museum Studies organised by the Department of History and Archaeology, the Department of Geology and Geoenvironment of the University of Athens, and the Department of Conservation of Antiquities and Works of Art of UNIWA (former Technological Educational Institute of Athens).
- Lectures entitled: Structure, use and decay of proteinaceous materials constituting cultural heritage objects
  - Supervisor of Case Study projects realised in Museums

#### SEMINARS

- 2008 October Lecture at the Centre of Greek Studies, History Department, University of Beijing, "From Bronze Age to Modern Hellenistic Period: Presentation of the main Archaeological sites, Museums and Monuments. The Greek experience on the protection of the cultural heritage".
- 2008 August Invited lecturer in the framework of Summer Course organised by the Aristotle University of Thessaloniki archaeological excavation in Dispilio Kastoria (Prof. G. Hourmouziadis). Title of presentation: "First aid for finds".
- 21-26 August 2006 Teaching at the Summer course entitled "Geological and Palaeontological Heritage: Retrieval, Conservation, Management and Display", organised by the postgraduate study program "Museum Studies" of the National Kapodistrian University of Athens in Lesbos island.
- 6-10 July 1999 Invited speaker at the Conservation School in Copenhagen (Det Kongelige Danske Kunstakademi) in the framework of the European Program Environment and Climate. Title of

- the presentation: “The contribution of the analytical techniques in the investigation of the waterlogged archaeological leather condition”.
- 1998 November Teaching at the International Educational Program RAPHAEL entitled “Interscientific study for the selection of conservation methods compatible with the research of the archaeological organic materials.
- 16/10/1995 – 21/2/1996 Teaching “General principles in the conservation of organic materials”, private post-secondary school “PETRA”.
- 1994 April – September Teaching “Cleaning of biological depositions from monuments” in the framework of the international training program “Evaluation and conservation of monuments and buildings of special interest”, organised by Athens Municipality, the E.C. initiative EUROFORM and the Company “Centre of Preservation and enhancement of natural and cultural monuments”.
- 1993 October – December Teaching issues of Organic materials’ conservation in the framework of E.C. sponsored program (entitled “Cultural Heritage and the fundamentals for its conservation. Monuments, archaeological objects and works of art”) for the training of young (under 25 years old) unemployed people, organised by the Dept. Conservation of Antiquities & Works of Art T.E.I. of Athens.
- 18/10/1993 Teaching in the framework of seminars for young Archaeologists organised by the NCSRC “Demokritos” Institute of Archaeometry. Title of presentation: “Structure, First aid in the excavation and conservation of leather”

## **PUBLISHED AND PRESENTED WORK**

### ▪ BOOK CONTRIBUTIONS

- 2015 MALEA E. “Leather in marine environment” In: **“The conservation of marine metal shipwrecks and finds from Aegean Sea. Good practice guide”**, ed. Dionikos, p.p. 115-122, ISBN 978-618-5208-06-6 (contribution with chapter in Greek)
- 2015 AVARITSIOTIS Th., KARANTONI E., PAPAIOANNOU S-O., TSOURTI Z., MALEA E., KARAMPINIS L., KANIARI A., PANAGIARIS G., contribution with chapter “Field research for the ethics and practice regarding Bio-Art collections” In: **“Bio-Art/Borders and Definitions”**, ed. Grigori, Athens, p.p. 58-91, ISBN: 978-960-333-946-5
- 2001 Member of the contributors and translators (conservation terms & definitions) of the Conservation Multilingual Dictionary, *“The Conservation Dictionary”*, TEI-A., 2001.

1999 ARGYROPOULOS V., **MALEA E.**, PANAGIARIS G., STASSINO A. "Artefacts", Book for Technicians of Conservation, Technical Secondary School Text book, funding by the Greek Pedagogical Institute, Greek Ministry of Education, ed. Agency for the publication of educational books (OEDB), Athens, 1999. (in Greek)

▪ CD CONTRIBUTIONS

2001 Contribution at the CD: "Holistic approach & digital recording of the structure technology, decay, conservation and promotion of archaeological and historical leather artefact and natural history collection specimens", TEI-A., Athens, 2001.

2000 Contribution at the CD: "Artefacts: archaeological leather and textile", TEI-A., Athens, 2000. (in Greek)

▪ PEER REVIEWED PUBLICATIONS

Peer-reviewed journals

2016 FOTOU E., SAKARELLOS-DAITSIOTIS M., IOAKEIMOGLU EL., TZIAMOURANI E., MALEA E., PANAYIARIS G., PANOU-POMONIS E., (2016). "Collagen and keratin polypeptide models for assessing the natural and artificial protein decay of organic materials", *In: J. Pept. Sci.*, 22(11-12), pp. 700-710.

<http://onlinelibrary.wiley.com/doi/10.1002/psc.2933/epdf>

2016 STAMATIS C. BOYATZIS, GEORGIA VELIVASAKI and EKATERINI MALEA (2016) A Study of the Deterioration of Aged Parchment Marked with Laboratory Iron Gall Inks Using ATR-FTIR Spectroscopy and Micro Hot Table, *Heritage Science* 4:13, <https://heritagesciencejournal.springeropen.com/articles/10.1186/s40494-016-0083-4>

Peer Reviewed Conference Proceedings

2018 V. ARGYROPOULOS, S.C. BOYATZIS, M. GIANNOULAKI, **A. MALEA**, A. POURNOU, S. RAPTI, ZACHAROPOULOU A., GUILMINOT E. (2018) Preliminary investigation of L-cysteine as a corrosion inhibitor for marine composite artefacts containing copper or iron alloys, Postprints 13th ICOM-CC Group on Wet Organic Archaeological Material (WOAM), Florence 2016, pp. 282-291

2018 V. ARGYROPOULOS, N. KOUMPAROU, A. BEI, M. GIANNOULAKI, **A. MALEA**, S. RAPTI, A. POURNOU, S.C. BOYATZIS, A. TSOMPANIDIS, (2018) Tackling the difficulties in the conservation treatment and stabilization of marine composite medieval swords, Postprints 13th ICOM-CC Group on Wet Organic Archaeological Material (WOAM), Florence 2016, pp. 270-281

2015 KARANTONI E., **MALEA E.**, POULI P., MELESSANAKI K., LEGAKIS A., PANAGIARIS G. "Laser cleaning application to a taxidermy paradisaeidae brown bird (Zoological Museum, University of Athens)". *XVI Universeum*

*Network Meeting, University of Athens, Greece, 11-13 June 2015, Abstracts pp.80-81.*

- 2015 KARANTONI E., PAPAIOANNOU S.O., **MALEA E.**, KARAMPINIS L., TSOURTI Z., AVARITSIOTIS T., PANAGIARIS G., “Design of an *in situ* survey for the determination of a deontological framework for the management of BioArt objects”, “The conservation of Cultural Heritage: Challenges and reviews”, Athens 25 – 29 May 2015. Postprints *in press*.
- 2015 LAZARIDIS M., KATSIVELA E. ,KOPANAKIS I. , RAISI L., **MALEA E.**, RAPTI S., KARANTONI E., SAKKI Z., PANAGIARIS G. (2015). “Investigation of museums’ environment: preliminary results”. International conference: “The conservation of Cultural Heritage: Challenges and reviews”, Athens 25 – 29 May 2015. Postprints *in press*.
- 2015 **E. MALEA**, E. PAPAGEORGIOU, Ai. SPYROPOULOU, G. PANAGIARIS, “The importance of the experimental design for the investigation of the museum environment effects on the organic material: review of recent research data”, *Cultural Heritage conservation: Challenges and redefinition*, Athens 25-29 May 2015. Postprints *in Press*
- 2015 **MALEA E.**, PETROU M., RAPTI S., POURNOU A. «Managing marine archaeological organic materials in the field». Postprints of 12th ICOM-CC WOAM (Wet Organic Archaeological Materials working group), Istanbul, Turkey, 12-17 May 2013, peer review paper, pp. 36-47
- 2014 PANAGIARIS G., **MALEA E.**, RAPTI S. and POURNOU A. (2014). “Enhancing Education in Conservation through Research and Innovation Projects”, ENCoRE Conference “Teaching Conservation-Restoration“ 26 March 2014, Liège <http://ceroart.revues.org/4366>
- 2014 KARANTONI E., **MALEA E.**, STEFANIS N.A., ALEXANDROPOULOU A., MELESSANAKI K., SELIMIS A., POULI P., PANAGIARIS G. (2014). “Studies towards the use of laser radiation to clean natural history specimens: preliminary results”. *ICOM-CC 17th Triennial Conference Melbourne*, Australia, September 15-19, 2014. (Preprints peer review *e-publication*)
- 2014 **MALEA E.**, KARAMPINIS L., KARANTONI E., PAPAIOANNOU S.O., TSOURTI, Z., PANOURGIA N., AVARITSIOTIS Th., PANAGIARIS G., (2014). “Field research for the ethics and practice regarding the operation of institutions hosting Bioart collections”. In *ICOM-CC 17th Triennial Conference Melbourne, Australia, 15-19 September 2014*, ed. J. Bridgland, art.0801, 8 pp. Paris International Council of Museums (ISBN 978-9012-410-8).
- 2013 AVARITSIOTIS Th., PANOURGIA N., KARAMPINIS L., PAPAIOANNOU S.O., KARANTONI, E., CHRISTOPOULOS, D., **MALEA E.**, PANAGIARIS G. (2013). “Bioart: Borders and definitions. Research project for the development of a widely accepted deontological framework of its production and management”, *Sharing Cultures 2013*, 24-26 July, Aveiro, Portugal, pp.513-519.
- 2012 **MALEA E.** & A. TAMPAKA, (2010) “Technology study and Conservation of

thirteen traditional rural shoes of 19<sup>th</sup> century from Florina region, northern Greece”, at the International Conference on “Parchment and Leather Heritage—Research, conservation—restoration, craft”, Nicolaus Copernicus University, Dept. of Paper and Leather Conservation, Torún, Poland, 21-24 October 2010, Postprints eds. E. Jabłońska & T. Koziół, Wydawnictwo Naukowe, Uniwersytetu Nikołaja Kopernika, Torun, pp. 103-111.

- 2011 **MALEA E.**, PAPAGEORGIOU E., PANAGIARIS G. (2011). “Investigation of the Degradation Mechanisms of Organic Materials: From Accelerated Ageing to Chemometric Studies”, Proceedings of the International Conference on Integrated Information (IC-ININFO- 2011), 29 September-3 October 2011, Kos Island, pp.280-285.  
[http://pubs.i-das.org/aipm/index.php?option=com\\_k2&view=item&id=16:proceedings-icininfo-2011&Itemid=61](http://pubs.i-das.org/aipm/index.php?option=com_k2&view=item&id=16:proceedings-icininfo-2011&Itemid=61)
- 2011 CHLOUVERAKI S., **MALEA E.**, RAPTIS S., KARAGIANNI F., AZAR M., HJAZI M., PANAGIARIS G. (2011). “The conservation of cultural heritage as a factor in economic development and national sovereignty: case studies of Hellenic conservation projects in Hama (Syria)”, Announcement accepted for publication at the ICOM-CC 16<sup>th</sup> Triennial Conference, Lisbon, 19-23 September 2011, (Preprints e-publication)
- 2011 MANIATIS N., **MALEA E.**, RAPTIS S., ANDROUTSOPOULOS N. PANAGIARIS G. (2011). “Collecting Social Memory through Museum Collection Conservation”, Announcement at ACSIS Conference titled Current Issues in European Cultural Studies, Norrköping Sweden, 15-17 June 2011, pp. 537-545, Postprints at <http://www.ep.liu.se/ecp/062/ecp11062.pdf>  
<http://www.ep.liu.se/ecp/062/057/ecp11062057.pdf>
- 2010 S. C. BOYATZIS, **E. MALEA** and M. KEHAGIA (2010) “Second Derivative and Peak Fitting in FTIR Analysis of Leather Protein: Investigation of Changes in Tanned Leather after Cleaning”, International Symposium on “Works of Art and Conservation Science Today”, Thessaloniki, 26-28 November 2010, post-prints *in press*.
- 2010 MARINO P., FACORELLIS G., BOYATZIS S.C., **MALEA E.** “Physicochemical characterisation of ivory fragments from the external coating of an Late Roman storage box found in the archaeological excavation of Eleutherna Crete, 2<sup>nd</sup> International Symposium on Archaeological Research and New Technologies (ARCH-RNT), University of Peloponnese Kalamata, 21-23 October 2010. Proceedings pp. 219-224.
- 2010 **MALEA K.**, VOGIATZI T. & D. E. WATKINSON (2012) “Assessing the physical condition of waterlogged archaeological leather”, at the 11<sup>th</sup> ICOM-CC WOAM WG Conference in Greenville, North Carolina USA, May 24 - 28, 2010, peer review paper, eds. Kristiane Strætkevren & Emily Williams, Lulu.com USA, pp. 571-595.
- 2010 **MALEA E.**, BOYATZIS S. C., KEHAGIA M. “Cleaning of Tanned Leather: Testing with Infra Red Spectroscopy and SEM-EDAX”, at Multidisciplinary

Conservation: a Holistic View for Historic Interiors, Joint Interim-Meeting of five ICOM-CC Working Groups, Rome 23-26 March 2010, published on the WG individual homepages of the ICOM-CC website in electronic format, eds. [Elsje Janssen](#), [Mariabianca Paris](#), [Malgorzata Sawicki](#), [Kate Seymour](#), and [Andrew Thorn](#).

<http://www.icom-cc.org/54/document/cleaning-of-tanned-leather-testing-with-infra-red-spectroscopy-and-sem-edax/?id=793>

- 2008 MERTZANI M., MALEA E., MANIATIS N., PANAGIARIS G., "Towards a Binding Code of Ethics for the Conservation & Display of Human Remains", 15<sup>th</sup> Triennial Conference ICOM-CC, New Delhi India, 22-26 September 2008, In: Preprints Vol. I, Allied Publishers Pvt.Ltd., India, pp. 364-370.  
<http://www.bcin.ca/interface/openbcin.cgi?submit&Chinkey=392218>
- 2005 MALEA E., DIMITRAKOPOULOU D. and FOTIOU-FOTOGLU K. (2005) "Study and Conservation of a Composite pre-industrial object: The case study of a bellow", 7<sup>th</sup> Conference of Art Conservation – Restoration students and graduates, University of Nicolaus Copernicus, Faculty of Fine Arts, Torún, Poland, 13-15 October 2005. In: B. Szmelter and A. Lopuska (eds.), *Konserwacja Zabytkow – Sudia I Praktyka, Tom VII*, Nicolaus Copernicus University, Torun, pp. 119-132.
- 2005 KARANTONI E. and MALEA E. (2005) "The influence of cleaning methods on feather structure: a comparative study", in: *Fur Trade Legacy: the preservation of organic materials, Preprints, 31<sup>st</sup> Annual Conference and Workshop of CAC, ACCR, Canadian Association for the Conservation of Cultural Property*, Jasper National Park, Alberta, Canada, 17-21 May 2005, pp.97-107.
- 2004 E. MALEA, K. MELESSANAKI, P. POULI, S. RAPTI. "Investigation on the application of different Laser wavelengths for the removal of oil stains from proteinaceous substrates (textiles and leather): Preliminary report", ICOM-CC Interim Meeting Working Group Leather, Textile, Legislation Issue, Athens 21-24 April 2004, Abstracts pp. 53, Proceedings *in press*.  
[www.lulu.com/content/810780](http://www.lulu.com/content/810780)
- 2002 I. MANIATIS, E. MALEA. "The mosaic Icons of Holy Monastery Xenofontos of Mount Athos: Technological examination of the tesserae". International Symposium on "Byzantine Icons: art, techniques & technology". Gennadios Library, Athens 20-21/2/1998, ed. University Press of Crete, 2002, pp. 139-150. (*In Greek*).
- 2002 E. MALEA, P. PAPAGEORGIU, G. HOURMOUZIADIS, G. PANAGIARIS. "Bone flute from the prehistoric lakeside settlement of Dispilio, Kastoria: Artefact technology and resulting conservation problems". Announcement at the 1<sup>st</sup> International Conference on Ancient Greek Technology, Thessaloniki 4-7/9/1997. Proceedings pp. 525-533. (*In Greek*).
- 1995 E. MALEA, A. STASSINOY, V. KILIKOGLU, I. A. IOANNIDES, D. WATKINSON. "Preliminary report on the examination of leather bookbindings belonging to the National Library of Greece". ICOM Committee for Conservation,

Working group: Conservation of Leathercraft and related materials, Interim Meeting, Amsterdam 5-8 April 1995, p.p. 50-55.

▪ PUBLICATIONS

- 2016 S. C. BOYATZIS, S. BOGHOSIAN, A. G. KALAMPOUNIAS, **E. MALEA**, S. RAPTI, E. KARANTONI, C. VOSSOU, and G. PANAGIARIS (2016). "Raman and FTIR spectroscopy-based damage assessment of protein cultural heritage materials, artificially aged in urban gaseous pollutant atmospheres", *IRUG 12, 23-25 May 2016, Ormylia Foundation, Greece, Abstracts*, pp.45-46
- 2016 S. C. BOYATZIS, E. IOAKIMOGLU, E. TZIAMOURANI, E. KARANTONI, **E. MALEA**, S. RAPTI, P. POULI, A. PAPANIKOLAOU, K. MELESSANAKI and G. PANAGIARIS. "Evaluation of Laser Cleaning of Parchment, Wool and Feather with High Performance Liquid Chromatography and Attenuated Total Reflection - Fourier Transform Infrared Spectroscopy". *Inart 2<sup>nd</sup> international conference on Innovation in Art Research and Technology*, 21-25 March 2016, Ghent, Belgium, pp.159-160.
- 2016 POURNOU A., **MALEA E.**, RAPTI S., KARANTONI E., ZERVOS S., LARSEN R., RICHTER J., SCHARFF A.B., POULSEN D.V., BOGOSIAN S., KALAMBOUNIAS A., PANAGIARIS G., " Creation of an artificial ageing protocol for non-treated materials aiming at the description of deterioration models", *In: To Mouseio, in press (in Greek)*
- 2016 PANAGIARIS G., LARSEN R., DELLAPORTAS P., KARLIS D., PAPAGEORGIU E., IOAKEIMOGLU E., POURNOU A., ZERVOS S., BOGOSIAN S., SAKARELLOU M., BOYATZIS S., FAKORELLIS G., **MALEA E.**, RAPTI S., RICHTER J., SCHARFF A.B., POULSEN D.V., " Investigation into mechanisms of the deterioration and denaturation of raw organic materials constituting the Cultural Heritage", *In: To Mouseio, in press (in Greek)*
- 2015 KALAMBOUNIAS A., **MALEA E.**, PANAGIARIS G., BOGOSIAN S. "Structural characterization of parchments in molecular level using Raman spectroscopy", 10<sup>th</sup> Panhellenic Scientific Conference of Chemical Engineering, Patras, 4-6 June 2015. Proceedings in Greek.
- 2011 RAPTI S., TAKOU E., STYLIANOU C., **MALEA E.** (2011). "Conservation or restoration: Are there specific limits in treatment of a multi component chest?", NATCC 2011, Oaxaca de Juarez, Mexico, 8-11 November 2011, Abstracts pp.
- 2009 BOYATZIS S. C., KEHAGIA M. & **MALEA K.** "Evaluation of effectiveness of tanned leather cleaning with SEM-EDX and FTIR Spectroscopy" , Poster presentation at TECHNART 2009 *Non-destructive and Microanalytical Techniques in Art and Cultural Heritage*, Athens, 27 - 30 April 2009, Abstract pp. 208.
- 2007 KARANTONI E., **MALEA E.**, K. MELESSANAKI & POULI P. (2007) "Laser cleaning studies to remove dust from a taxidermy paradisaeidae black bird", LACONA VII, Lasers in Conservation of Artworks, Madrid 17-21

September 2007, Abstracts p. 147.

- 2007 THEODOSIOU E., RAPTI S., **MALEA E.**, POURNOU A., KARANTONI E., PANAGIARIS G., KOLISIS F.N., "Hydrolytic enzymes and their ability to remove drying oils and resins from cotton and leather made samples", 29<sup>th</sup> HELLENIC SOCIETY FOR BIOLOGICAL SCIENCES Annual Conference May 17–19, 2007, Kavala, Proceedings, pp.112. (*In Greek*).  
[http://www.eebe.gr/userfiles/file/praktika/2007\\_Praktika\\_Kabala.pdf](http://www.eebe.gr/userfiles/file/praktika/2007_Praktika_Kabala.pdf)
- 2007 KARANTONI E., **MALEA E.**, PANAGIARIS G. "Cleaning of feathers of stuffed birds: A comparative study", "Καθαρισμός φτερών ταριχευμένων πτηνών: Συγκριτική Μελέτη", 29<sup>th</sup> HELLENIC SOCIETY FOR BIOLOGICAL SCIENCES Annual Conference May 17–19, 2007, Kavala, Proceedings, pp. 113. (*In Greek*).  
[http://www.eebe.gr/userfiles/file/praktika/2007\\_Praktika\\_Kabala.pdf](http://www.eebe.gr/userfiles/file/praktika/2007_Praktika_Kabala.pdf)
- 2005 KARANTONI E., MALEA A., PANAGIARIS G., "The influence of cleaning methods on feather structure of natural history specimens: A comparative study", 1<sup>st</sup> O.P. "Education" Arximedes, Conference: "Innovative Development and Technology. Quantitative and Qualitative Treatment", November 24-26, 2005, Athens, Proceedings, pp.35-42. (*In Greek*).
- 2005 KANDRI A., KATSAROU D. and **MALEA K.**, "Analysis and conservation of fish taxidermy from the collection of the Zoological Museum of Athens University", 20<sup>th</sup> Annual Meeting and Workshops 2005, SPNHC, 12-18 June 2005 Natural History Museum London, U.K., Abstract pp. 59-60.
- 2004 **K. MALEA**, M. MERTZANI and G. PANAGIARIS. "Dealing with *sacred* and *criminal* Human Remains", 30<sup>th</sup> Conference and Workshop, Canadian Association for Conservation of Cultural Property, Quebec 26-30 May 2004, Abstracts pp.18.
- 2001 G. PANAGIARIS, **E. MALEA**, M. PAPPADIMITRIOU, E. IOAKEIMOGLIOU. "The presence of collageneous aminoacids in archaeological bones as index of diagenetic changes". Announcement at the 3<sup>rd</sup> Symposium of Archaeometry, Athens 6-9/11/1996. Abstracts pp. 44-45. Proceedings of Symposium on Archaeometry Studies on Greek Prehistory and Antiquity, Athens 2001, pp. 511-525. (*In Greek*).
- 2001 **E. MALEA** & N. KATSIKOSTA. "Conservation of Archaeological findings from Bouthrotos excavation" *In: BOYΘΠΩΤΟΣ IV*, Ed. C. Chadzi, "*Les Monuments Archéologiques. Les petits objets*". *Série des recherches sur Bouthrotos antique publiée par la mission archéologique hellénique à Bouthrotos et dirigée par C. Argyrokastritou-Chadzi*, Fondation National de la Recherche Scientifique Athènes, 2001, *in press*.
- 2000 M. J. PAPAGRIGORAKIS, **E. MALEA**, M. MERTZANI, M. G. TSILIVAKOS, E. VALAVANI-BAZIOPOULOU and G. PANAGIARIS. "Methodology and ethics in the conservation of skeletal findings in the cemetery of Keramikos in Athens", 12<sup>th</sup> Congress of the European Anthropological Association, Millennial Perspectives: Past, Present and Future, Cambridge 8-11 September 2000, University of Cambridge, England, Abstracts pp.58-59.



- 1999 **E. MALEA** and A. STASSINO. "The restoration of a ninetieth leather screen: a case study". ICOM Committee for Conservation, 12<sup>th</sup> Triennial Meeting, Lyon, France, 29/8-3/9/1999, Newsletter/Bulletin n° 2, Dec. 1999, pp.5.
- 1999 **E. MALEA** and D. WATKINSON. "Contribution of analytical methods in the estimation of the condition of waterlogged archaeological leather". Advanced Study Course 1999, 6-10 July 1999, School of Conservation, Royal Academy of Fine Arts, Copenhagen, Denmark, European Commission Directorate-General XII, Environment and Climate Programme. Preprints pp.249-259.
- 1998 Y. MANIATIS, **E. MALEA**, N. MINOS. "A technological investigation of the 12<sup>th</sup> century mosaic icon tesserae from the Mount Athos, Greece". 31<sup>st</sup> International Symposium on Archaeometry, Budapest 27/4-1/5/1998. Abstract p.p. 98.
- 1996 G. PANAGIARIS, P. GIONI, **E. MALEA**, M. PAPADIMITRIOU, E. IOAKEIMOGLOU. "Contribution on the investigation of deterioration factors affecting the archaeological bones in the ground". 18<sup>th</sup> Scientific Annual Conference of HELLENIC SOCIETY FOR BIOLOGICAL SCIENCES, Kalamata 1996. Proceedings pp. 309-311. (*In Greek*).
- 1996 G. PANAGIARIS, P. GIONI, **E. MALEA**, M. PAPADIMITRIOU, H. IOAKIMOGLOU. "Estimation de l'état de preservation d'ossements archéologiques en Grèce, basée sur la presence des elements calcium et azote: Premiers resultats". Third International Conference on Bone Diagenesis, Paris, France 4-7 April 1996, pp.54

▪ CONFERENCES

- 2015 E. FOTOU, E. PANOU-POMONIS, E. IOAKEIMOGLOU, **E. MALEA**, G. PANAGIARIS and M. SAKARELLOS-DAITSIOTIS, "Keratin and collagen polypeptide models as a means for assessing the deterioration of organic materials of cultural heritage", *Scientific support at the decision making for sustainable and compatible conservation materials and treatments for the protection of the Cultural Heritage*, National Technical University of Athens, 28-29 September 2015.
- 2015 E. FOTOU, E. PANOU-POMONIS, E. IOAKEIMOGLOU, **E. MALEA**, G. PANAGIARIS and M. SAKARELLOS-DAITSIOTIS, "Polypeptide models of keratin and collagen as a tool for the destruction of works of art". *International Conference, SCIENCE in TECHNOLOGY SCinTE*, 5-7 November 2015, Athens, Greece.  
<http://www.scinte.gr/abstracts/8%20Arts%20&%20Humanities/SCinTE-186-A01-097.pdf>
- 2015 PAPANIKOLAOU A., MELESSANAKI K., ALEXANDROPOULOU A., GIANNARAS K., KARAMPOTSOS A., KARANTONI E., **MALEA E.**, RAPTIS S., STEFANIS N., FACORELLIS Y., BOYATZIS S., POULI P., PANAGIARIS G., (2015), "Developing

of a standard laser technology for cleaning evidence of proteinaceous Cultural and Natural Heritage”, *International Conference “SCIENCE in TECHNOLOGY” SCinTE*.

<http://www.scinte.gr/abstracts/8%20Arts%20&%20Humanities/SCinTE-231-A08-151.pdf>

- 2014 PANAGIARIS G., AVARITSIOTIS T., ZERVOS SP., IOAKIMOGLU E., KARAMPINIS L., KARAMPOTSOS A., KARANTONI E., **MALEA E.**, BOGIATZIS S., PAPAGEORGIU E., POURNOU A., RAPTI S., SIANOUDIS I., TZIAMOURANI E., FAKORELLIS G., CHOULIS K. (2014) . "The research for the protection and preservation of organic materials of natural and cultural heritage properties", Conference "Research at TEI of Athens", June 11, 2014, Egaleo
- 2014 AVARITSIOTIS T., PANOURGIA N., CHRISTOPOULOS D., KARAMPINIS L., **MALEA E.**, KARANTONI EF., PAPAIOANNOU S.O., PAPAKYRIAKOU B., DRAGON ST., TSOURTI S., PANAGIARIS G. ( 2014 ) "Bioart - Research for establishing a commonly accepted ethical framework for creation and management", Conference "Research at TEI of Athens", June 11, 2014 , Egaleo.
- 2014 PANAGIARIS G., IOAKIMOGLU E., BOGIATZIS S., FAKORELLIS G., STEFANIS N.A., SIANOUDIS I., KAMBOUROGLOU E., **MALEA E.**, RAPTI S., KARANTONI E., KARAMPOTSOS A., TZIAMOURANI E., MANIATIS N., MERLEMIS N., IOANNIDIS I., GEORGHIANA ALBU, V. DESELCU, L. MIU, C. CHELARU, POULI P., MELESSANAKI K., SELIMIS A., FOTAKIS K. (2014) . "Research on the development of standard methodology for cleaning of proteinaceous cultural & natural properties, using laser radiation", Conference "Research at TEI of Athens", June 11, 2014, Egaleo.
- 2011 PANAGIARIS G., MALEA E., CHAITAS C., KALOU A., SYNODINOS N. F., PAPAGRIGORAKIS J. M. (2011). “Methodology approaches for the conservation, investigation and use as a vehicle for information of human remains: the example of “MYRTIS”, Cultural Heritage: Science & Technology, 22-25 November 2011, Instabul Turkey.
- 2010 MANIATIS N., RAPTI S., ANDROUTSOPOULOS N., MALEA E. and PANAGIARIS G., (2010). “The Role of the Conservator – Restorer in safeguarding Cultural Diversity and enhancing regional socio-economic sustainability. Case Study from the Prefecture of Florina, Western Macedonia, Greece “, Conservation in a Changing World, ICOM-CC Session at the ICOM General Conference, Shanghai, November 8, 2010
- 1994 I. A. IOANNIDES, G. PANAGIARIS, **K. MALEA**, S. BURNS. “Systematic investigation of the nature and the conservation of archaeological and historic organic materials”. First European Conference on Conservation of European Cultural Heritage: Research and Policy Issues related to the Conservation of Paper and Leather. Delft 27-28 June 1994.
- 1992 N. BELOGIANNIS, **K. MALEA**, D. PAPATHANASIOU, S. RAPTI, A. MORAITOU. “Conservation of the building material at the excavated site of Aeani

Kozani". Two days workshop organized by the Academy of Athens on research on Ancient Macedonia Greece, 13-14 April (*In Greek*).

## AFFILIATIONS

### ▪ COMMITTEE MEMBERSHIP

2005 to date                      Member of the Greek Standardization Technical Committee of ELOT: TE /96, entitled "Conservation of Cultural Heritage", which is mirror committee to TC/346 of CEN.

2008 to date                      Member of Hellenic IIC Directory Board

### ▪ SOCIETY MEMBERSHIP

- Member of ICOM-CC
- Member of ICCROM
- Member of ICOMOS
- Member of the Archaeological Leather Group
- Member of Hellenic Archaeometry Committee
- Consultant /Expert for the Accreditation of Long –life training institutes (Greek Ministry of Labour).
- One of the two official voting members of Greece for the CEN TC346 (WG1 – Terminology and general issues in Conservation and WG5- Transportation).

### ▪ CONSULTANCY

- Individual Consultant of the United Nations Educational Scientific and Cultural Organizations (UNESCO)

## REVIEWER (peer reviewed journals)

- Advanced Research in Conservation Science, <https://publons.com/journal/594544/advanced-research-in-conservation-science/>
- Journal of Cultural Heritage, Elsevier, <https://www.journals.elsevier.com/journal-of-cultural-heritage>