

## CURRICULUM VITA

*Dr. Kyriaki Bairachtari*

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### **STUDIES**

- 2001-2005 PhD, NTUA, School of Chemical Engineering  
Thesis title: “Contribution of Gas Chromatography – Mass spectrometry in the study and identification of organic binding materials in works of art”
- 1998-2000 M.Sc, “Protection, Conservation and Restoration of Works of Art”, ARISTOTLE UNIVERSITY OF THESSALONIKI, School of Engineering
- 1992-1997 B.Sc. in Chemistry, University of Ioannina, Greece

### **SCOLARSHIPS**

- 2002-2005 State Scholarships Foundation (IKY)
- 1999-2000 European Education Programme “ERASMUS”, *Dipartimento di Chimica e Chimica Industriale*, Italy.
- 1998-1999 Aristotle University of Thessaloniki

### **WORK EXPERIENCE**

- 11/2006-present      NCSR “DEMOKRITOS, Environmental Research Laboratory,  
Institute of Nuclear Technology and Radiation Protection,  
Greece  
Research Associate Fellow
- 09/2007-04/2008      HAROKOPIO UNIVERSITY, Athens, Greece  
Research Associate Fellow
- 6/2001-10/2001      ARISTOTLE UNIVERSITY OF THESSALONIKI, Chemistry  
Department, Greece  
Research Associate Fellow
- 9/2000-12/2004      ORMYLIA FOUNDATION, Art Diagnosis Center, Greece  
Research Associate Fellow

### **TEACHING EXPERIENCE**

- 09/2009-      Lecturer (407) Hellenic Army Academy, Chemistry Laboratory  
08/2010      “Inorganic and Organic Chemical Technology”
- 10/2008-      Lecturer (407) Hellenic Army Academy, Chemistry Laboratory  
08/2009      “Inorganic and Organic Chemical Technology”
- 10/2007-      Laboratory Professor, Hellenic Army Academy  
6/2008
- 9/2006-      Laboratory Professor, Hellenic Army Academy  
5/2007

## **PARTICIPATION IN RESEARCH PROJECTS**

- Development of an operational system for estimating of particulate matter concentration and population exposure in Attica  
NCSR Demokritos  
Funded:  
Position : Research Scientist
- *PERL-Enhancing the Research Potential of the NCSR “Demokritos” Environmental Research Laboratory in the European, National and Regional Research Areas*  
NCSR Demokritos  
Funded:  
Position : Research Scientist
- Accreditation  
NCSR Demokritos  
Funded:  
Position : Research Scientist
- Modelling and simulation of physicochemical properties in the atmosphere for controlling and forecasting air pollution  
NCSR Demokritos  
Funded:  
Position : Research Scientist
- Development of innovative biofilters and processing of other gases  
Harokopion University of Athens  
Funded:  
Position : Research Scientist
- Physical dyes (lakes) in Europe  
Aristotle University of Thessaloniki  
Funded: European Commission –Education and Culture Directorate-General”  
Position : Research Scientist

## **PUBLICATION IN JOURNALS**

- 1) *Sister Daniilia, Konstantinos S. Andrikopoulos, Elpida Minopoulou, Andreas Tsakalof, Kyriaki Bairachtari*, “From Byzantine to Post- Byzantine Art: The Painting Technique of St. Stephen’s Wall Paintings at the Meteora, Greece”, *Journal of Archaeological Science* 35 (2008) 2474-2485.

Impact Factor: 1.439

Citations: 1

- 2) *Sister Daniilia, Andreas Tsakalof, Kyriaki Bairachtari, Yannis Chryssoulakis*, “The Byzantine wall paintings from the Protaton Church on Mount Athos, Greece: tradition and science” *Journal of Archaeological Science* 34 (2007) 1971-1984.

Impact Factor: 1.439

Citations: 2

- 3) *Tsakalof A., Bairachtari K., Chryssoulakis I.*, “Pitfalls in Drying Oils Identification in Art Objects by Gas Chromatography”, *Journal of Separation Science* 29 (2006) 1642-1646.

Impact Factor: 2.632

Citations: 3

- 4) *Tsakalof A., Bairachtari K., Aslani I., Chryssoulakis I., Kolisis F.*, “Impact of biological factor on binding media identification in art objects: identification of animal glue in the presence of *Aspergillus niger*”, *Journal of Separation Science* 27 (2004) 167-173.

Impact Factor: 2.632

Citations: 2

- 5) *A. Tsakalof, K. Bairachtari, M. Georgarakis*, “Development of liquid chromatography-mass spectrometry method for monitoring of the angiotensin-converting enzyme inhibitor Lisinopril in serum”, *Journal of Chromatography B* 783 (2003) 425–432.

Impact Factor: 2.935

**PUBLICATION IN REFEREED GREEK JOURNALS**

- 1) **K. ΜΠΑΙΡΑΧΤΑΡΗ, Α. ΤΣΑΚΑΛΩΦ**, “Μέθοδοι Ιονισμού Υπό Ατμοσφαιρική Πίεση στην Υγρή Χρωματογραφία Φασματοσκοπία Μαζών”, *Χημικά Χρονικά*, τεύχος 4 (2002), 106-108.

**INTERNATIONAL CONFERENCES PARTICIPATION**

- 1) **D.E. Saraga, T Maggos, K.Bairachtari, C.Vasilakos and J.G. Bartzis**, “PM<sub>2.5</sub> measurements and PAHs characterization in the air of an apartment of Athens: study under different activities scenarios”, 15<sup>th</sup> International Symposium on Environmental Pollution and Impact on Life in the Mediterranean Region, 7-11 October 2009, Bari, Italy
- 2) **St. Pateraki, D. N. Asimakopoulos, Th. Maggos, N. Mihalopoulos K. Bairachtari, and Ch.Vasilakos**, “Particulate (PM<sub>2.5</sub>, PM<sub>1</sub>) transfer effects in the greater Athens area: Concentration, chemical Characterization (PAHs, Carbon Elements, Ion Species)”, Air Quality – Science and Application, 7<sup>th</sup> International Conference on Air Quality - Science and Application (Air Quality 2009), Instabul, 24-27 March 2009.
- 3) **St. Pateraki, Th. Maggos, K. Bairachtari, Ch.Vasilakos and D. N. Asimakopoulos**, “PAHs chemical composition in PM<sub>10</sub>, PM<sub>2.5</sub>, and PM<sub>1</sub> measurements: correlations with other priority air pollutants and meteorology over an urban background area”, EUROPEAN AEROSOL CONFERENCE, 24-29 August 2008, HELEXPO Salonica, Greece.
- 4) **D. Saraga, T. Maggos, S. Pateraki, K. Bairachtari, J. Michopoulos, C. Vasilakos**, “Indoor air quality measurements in a criminological museum in Athens, Greece”. 8<sup>th</sup> Meeting for Indoor Air Quality in Museums and Archives, 17-19 April 2008, Vienna, Austria.

- 5) ***I.Michopoulos, Th. Maggos, S. Pateraki, D. Saraga, K. Bairachtari, Ch. Vasilakos***, “Indoor air quality in printery industry in Athens, Greece”. 14<sup>th</sup> International Symposium on Environmental Pollution and its impact on life in the Mediterranean Region, Sevilla, Spain, 10-14 October 2007.
  
- 6) ***K.Bairachtari, A.Tsakalof, D.Mamma, F.Kolisis, I.Chryssoulakis***, “GC-MS Application for Binding Media Identification in Art Objects Damaged by Microorganisms colonization”, Instrumental Methods of Analysis, IMA 2005, 2-6 October 2005.
  
- 7) ***Tsakalof A., Bairachtari K., Aslani I., Chryssoulakis I., Kolisis F.***, “Biodegradation of art objects: impact on proteinaceous binding media identification in art objects”, 4<sup>o</sup> Symposium of Archaometry, Greek Archaometry Society, EIE, Athens, 28-31 May 2003.
  
- 8) ***Tsakalof A., Bairachtari K., Sister Daniilia, Chryssoulakis I.***, “Identification of binding media in art objects: Protaton Church wall paintings and N.Gyzis’ paintings”, 4<sup>o</sup> Symposium of Archaometry, Greek Archaometry Society, EIE, Athens, 28-31 May 2003.
  
- 9) ***Tsakalof A., Bairachtari K., Chryssoulakis I.***, “Identification of Proteinaceous Binding Media in Art Objects by GC/MS”, Instrumental Methods of Analysis, IMA 2001, Ioannina, 5-8 September 2001.