

Curriculum Vitae

Personal Information



Name Wafaa Anwar Mohamed Soliman
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Date of Birth 28/01/1968

Current Position Head of The Conservation Department of
Inorganic Materials, Faculty of Archaeology,
Cairo University, Egypt.

Degrees

Full Professor, Conservation, Faculty of Archaeology, Cairo University,
Egypt, in 2011
PhD., Conservation, Faculty of Archaeology, Cairo University, Egypt, in
2000
MA., Conservation, Faculty of Archaeology, Cairo University, Egypt, in
1995
BA., Conservation, Faculty of Archaeology, Cairo University, Egypt, in
1989

Employment History

2024- now Head of The Conservation Department of Inorganic
Materials, Faculty of Archaeology, Cairo University,
Egypt.
2013-2016 Vice Chairman of the Conservation Center for
Archaeological and Historical Buildings and Museum
Artifacts (CCAHEMA), Cairo University, Egypt.
2011- now Professor of Metals Conservation, Conservation
Department, Faculty of Archaeology, Cairo University,
Egypt.
2008-2010 Head of The Quality Assurance Unit, and The Executive
Director of the Quality Assurance, Faculty of
Archaeology, Cairo University, Egypt.
2006-2011 Associate Professor of Metals Conservation,
Conservation Department, Faculty of Archaeology,
Cairo University, Egypt
2000- 2006 Lecturer of Objects Conservation, Conservation
Department, Faculty of Archaeology, Cairo University,
Egypt
1995-2000 Assistant Lecturer of Objects Conservation,
Conservation Department, Faculty of Archaeology,
Cairo University, Egypt
1989- 1995 Teaching Assistant of Objects Conservation,
Conservation Department, Faculty of Archaeology,
Cairo University, Egypt
1996-1998 Governmental Scholarship to study the first part of the
PhD research at University College London, England.
1998-2000 Governmental Internship to conduct conservation
project of museum objects in the second part of the PhD
research in Egypt.

Scholarships

Internships

Honors and Awards

2023 Cairo University Articles Publishing Award
2021 Cairo University Articles Publishing Award
2020 Cairo University Articles Publishing Award
2018 Cairo University Articles Publishing Award
2012 Cairo University Articles Publishing Award
1990 Cairo University Honorary Award

Professional Academic Activities and Services

2024- Now Chairman of The Council of The Conservation
Department of Inorganic Materials

Other Professional Service	2016- Now	Member of the Academic Promotion Committee of The Conservation of Archaeology' Sector, Supreme Council of Universities, Egypt
	2016- Now	Member of the Council of The Conservation Center of Cairo University
	2009- Now	Member of The Numismatic Committee, Cairo University
	2007- Now	Member of The Egyptian Corrosion Syndicate.
	2004- Now	National Representative of ICCOM-CC Metal Working group
	2000- 2024	Member of The Conservation Department Council
	2013-2014	Head of The Treatment and Conservation Project of The Chandeliers of the Palace of the Army Museum, funded by the Ministry of Defense, Egypt.
	2013	Treatment and Authentication of coins collection, Ain Shams University.
	2010	Treatment and Conservation of Metal Objects of the Museum of the Faculty of Applied Arts, Helwan University.
	2009	Conservation and Authentication of a Metal Pen Box of the Museum of the Faculty of Applied Arts, Helwan University.
	2008	Treatment and Conservation of The Diamond Tiara of the Royal Jewelry Museum, Alexandria, Egypt.
	1998-2000	Treatment and Conservation of Metal Objects of the Museum of the Faculty of Archaeology, Cairo University.
	2021-2022	Professor, MA Program in Conservation of Cultural Heritage, Helwan University.
	2014-2017	Professor, Conservation Department, Modern University of Science and Technology MUST.
Journal Refereeing	2022-2023	Professor, Environment and Restoration Technology Department, Faculty of Postgraduate Studies for Nanotechnology, Cairo University.
	2025- now	Professor, Environment and Restoration Technology Department, Faculty of Postgraduate Studies for Nanotechnology, Cairo University.
	2000-2002	Lecturer, Conservation Department, Fayoum University.
	2000-2001	Lecturer, Faculty of Fine Arts, Menia University.
	2007	Corrosion Science Journal
	2013	Archaeometry Journal
	2017	IJCS (International Journal of Conservation Science)
	2018, 2022	JGUAA (Journal of the General Union of Arab Archaeologists
	2024, 2025	
	2019	MAA (Mediterranean Archaeology and Archaeometry)
Teaching Undergraduate Courses	2020 - 2025	EJARS (Egyptian Journal of Archaeological and Restoration Studies)
	2000- Now	Principles of Inorganic Objects Conservation.
		Treatment and Conservation of Metal Objects.
		Metals Forming and Smithing.
		Conservation of Organic/Inorganic Composite Artifacts.
Teaching Graduate Courses (MA, MSc & PhD)		Metalsmithing and Decorative Techniques.
		Corrosion of Metals.
	2006- Now	Advanced Topics in Objects Conservation.
		Forgery Detection of Inorganic Materials.
		Specific Topics in Metals Treatment and Conservation.
Graduate Supervisions (Principal supervisor)		Writing Research Articles.
	2025- Ongoing	Ayaa Kabary (MA., Evaluating the Efficiency of The Moringa Plant in Cleaning Copper Corrosion Products from Archaeological Copper Artifacts, with Application on A Selected Artifact).

2022- Ongoing	Nariman Nassif (MA., Evaluating the Efficiency of Vitamin C and Vitamin E for Copper Corrosion Inhibition).
2022- Ongoing	Demiana Adel (MA., Nano-Coatings of Outdoor Bronze).
2020- Ongoing	Eid Mertah (PhD., Polychromed Bronze Statues of Osiris, Analysis, Deterioration Processes, and Non-invasive Conservation Approaches).
2017- 2023	Jasmeen Abd-el-moez (PhD., Conservation of Silver Artifacts using Plasma Enhanced Chemical Vapour Deposition).
2013- 2020	Fatma Sadat (PhD., Optimization of Laser and Ultrasonic Cleaning Parameters of Tapestry artifacts), Principal Supervisor and Chair of Dissertation Defense.
2016- 2021	Mohamed Samir (PhD., Nanomaterials and Outdoor Bronze Conservation), Principal Supervisor and Chair of Dissertation Defense.
2016- 2024	Tasneem Mohamed (MA., Treatment and Conservation of Leather/ Metal Composite Artifacts), Principal Supervisor and Chair of Dissertation Defense.
2014- 2024	Gehad Mamdouh (MA., Oil Extarcts based Corrosion Inhibitors), Principal Supervisor and Chair of Dissertation Defense.
2014- 2019	Eid Mertah (MA., Bio-Corrosion of Bronze), Principal Supervisor and Chair of Dissertation Defense.
2013- 2017	Jasmeen Abd-el-moez (MA., treatment, and Conservation of Claret Jugs), Principal Supervisor and Chair of Dissertation Defense.
2013- 2017	Niazy Mostafa (PhD., Conservation of Enamel Decorated Metal Artifacts), Principal Supervisor and Chair of Dissertation Defense.
2012- 2016	Mohamed Samir (MA., Conservation of Outdoor Bronze Statues), Principal Supervisor and Chair of Dissertation Defense.
2012- 2015	Hassan Salah (MA., Conservation of Coins from Marine Environments), Principal Supervisor and Chair of Dissertation Defense.
2009- 2013	Niazy Mostafa (MA., Conservation of Champlevé Enameled Artifacts), Principal Supervisor and Chair of Dissertation Defense and Chair of Dissertation Defense.
2007- 2012	Hams Abd-el-hafez (PhD., Glass Conservation and Museum Environment), Principal Supervisor and Chair of Dissertation Defense.
2007- 2012	Fatma Sadat (MA., Laser and Ultrasonic Cleaning of Metal Threads), Principal Supervisor and Chair of Dissertation Defense.
Internationally Funded Research	2010- 2012 Partnership in a European Commission Funded project, NIKR "New Integrated Knowledge based Approaches to The Protection of Cultural Heritage from Earthquake-induced Risk", Role: Co-investigator of the Egyptian partner (Principal investigator M. F. Aly).
Publications: Journal Articles	Mamdouh, G., Wafaa, A. Mohamed, (2024). Synthesis and Evaluation of Linseed Coconut Oil Derivatives as Protective Coatings for Outdoor Iron-Based Artefacts, Frontiers in Scientific Research and Technology, (9), 14-24. Yasmin, A. EL-Moaz, Wafaa, A. Mohamed, Mai, M. Rifai, Nasser, N. Morgan, (2023). RF-Plasma Protective Coating on Silver- Copper Alloys Using HDMSO/O ₂ /Ar Precursors, EJARS,13(1), 61-74. Yasmin, A. EL- Moaz, Wafaa, A. Mohamed, Mai, M. Rifai, Nasser, N.

Morgan, (2023). Fabrication, Characterization and Corrosion Protection of Siloxane Coating on an Oxygen Plasma Pre-treated Silver- Copper Alloy, *Journal of Materials Engineering and Performance*, 32, 8818-8830.

Maisa M. A. Mansour, Wafaa A. Mohamed, Ahmed A. A. El-Settawy, Martin Böhm, Mohamed Z. M. Salem & Marwa G. S. Farahat, (2023). Long-term fungal inoculation of *Ficus sycomorus* and *Tectona grandis* woods with *Aspergillus flavus* and *Penicillium chrysogenum*, *Scientific Report*, 13, 10453.

Yasmin, A. EL- Moaz, Wafaa, A. Mohamed, Mai, M. Rifai, Nasser, N. Morgan (2022). Application of PECVD in The Conservation of Metallic Cultural Heritage: A review, *EJARS*, 12 (2), 147-163.

Wafaa A. Mohamed & Niaz M. Mostafa, (2021). A Closer Look at Two 19th Century Champlevé and Peinture Enamel Trays, *EJARS*, 11 (2), 185-192.

Wafaa A. Mohamed, Niaz M. Mostafa, (2021). Using Examination Methods and EDX Analysis to Study the Archaeological Vitreous Enamels, *Advanced Research in Conservation Science*, 2 (2), 25-34.

Wafaa A. Mohamed, Maisa M.A. Mansour, Mohamed Z. M. Salem, Hayssam M. Ali & Martin Böhm, (2021). X-ray Computed Tomography (CT) and ESEM-EDS Investigations of Unusual Sub-Fossilized Juniper Cones, *Scientific Reports*, 11:22308.

Wafaa A. Mohamed, Maisa M.A. Mansour, Mohamed Z.M. Salem, (2019). "Lemna Gibba and Eichhornia Crassipes Extracts: Clean Alternatives for Deacidification, Antioxidation and Fungicidal Treatment of Historical Paper", *Journal of Cleaner Production*, (219), 846-855.

Wafaa A. Mohamed, Niaz M. Mostafa, (2018). "Analytical Investigation of an Enameled Royal Tray" *Int. Journal of Conservation Science*, *IJCS*, Vol. 9 Issue 2, 265-276.

Wafaa Anwar Mohamed, Amal Mohamed Abdel-Rahman, Rushdya Rabee Ali Hassan and Ahmad Kamel Hegazy, (2018). "A New Approach to the treatment of Iron gall Ink Corrosion Using Plant Biomass", *MEDITERRANEAN ARCHAEOLOGY & ARCHAEOMETRY*, Vol.18, No.2, 35-47.

Wafaa A. Mohamed Mai M. Rifai, Fatma. E. Sadat, and T. Yurdun, (2018). HPLC/DAD-MS Characterization of Diverse Dyestuffs from A case Study of Historic Fabric, *MEDITERRANEAN ARCHAEOLOGY & ARCHAEOMETRY*, Vol.18, No.1, 113-121.

Wafaa A. Mohamed, Niaz M. Mostafa, (2017). "Testing Coatings for Enameled Metal Artifacts", *Int. Journal of Conservation Science*, *IJCS*, Vol. 8, Issue 1, 15-24.

Wafaa A. Mohamed Mai M. Rifai, Fatma. E. Sadat. (2016). "Corrosion off Metal Threads in-Situ: Case Study", *International Journal of Innovative Science, Engineering & Technology*, *IJSET*, Vol. 3 Issue 2.

Mohamed, W. A., and S. S. Darweesh, (2012). "Ancient Egyptian Black Patinated Copper Alloys", *Archaeometry Journal*, Vol. 53, pp. 175-192.

Wafaa A. Mohamed, (2010). Analysis, Technical Investigation and Conservation of a Painted Enamel Qajar Pendant", *Arab Archaeologists Journal*, Vol. 11.

Wafaa A. Mohamed and Mai M. Rifai, (2009). "A Novel Restoration Method of a Jeweled Platinum Diadem", *Journal of the Faculty of Archaeology, Cairo University*, Vol. XIV, pp. 107-123.

Wafaa A. Mohamed, (2003). "Conservation and Reconstruction of an Eighteenth-Century Metal Treasury", *Egyptian Journal of Contemporary*

Conference Proceedings

Wafaa A. Mohamed, Mai M. Rifai, Nabil A. Abdel Ghany, Mohamed S. Elmetwaly, (2016). "Testing Coating Systems for Bare and Patinated Outdoor Bronze Sculpture", Metals 2016, The International Council of Museums ICCOM-CC, September 26-30, New Delhi, India.

Wafaa A. Mohamed Mai M. Rifai, Fatma. E. Sadat, and T. Yurdun, (2016). "Chromatography Investigation of Synthetic and Natural Dyes from a Historic Textile.", 4th International Congress of Chemistry for Cultural Heritage, Brussels, Belgium

Wafaa A. Mohamed, (2015). Innovative Technologies for Protecting Cultural Heritage Against Illegal Looting and Trading, (In Arabic), International Meeting for Safety and Integrity of Archaeology and Touristic Buildings, Taif, Saudi Arabia.

Wafaa A. Mohamed, Mai M. Rifai, Nabil A. Abdel Ghany, Mahamed S. Elmetwaly, (2015). "Repatination for Outdoor Bronze Sculpture Conservation: A Comparative Study", The International Conference of Conservation of Sculpture Parks, September 14-16, Sisak, Croatia.

Wafaa A. Mohamed, Mai M. Rifai, Nabil A. Abdel Ghany, Mahamed S. Elmetwaly, (2014). "Conservation of an Outdoor Historical Bronze Statue from the 19th Century", Conservation of an Outdoor Historical Bronze, Open Air Metal, Outdoor Metallic Sculpture: from the XIXth to the beginning of the XXth Century, ICOMOS, 4-5 December, Paris, France.

Wafaa Mohamed, A., M. M. Rifai, and F. E. Sadat, (2014). "Comparative Empirical Study for Cleaning Tarnished Metal Threads Using Laser and Ultrasonic Scaler", Lasers in the Conservation of Artworks LACONA X, Sharja, American University, United Arab Emirates.

Wafaa A. Mohamed and Ibrahim El-rifai, (2013). "An Integrated Approach for the Documentation and Virtual Reconstruction of Metal Fragments", Seventh World Archaeological Congress - WAC7, Dead Sea, Jordan.

Wafaa A. Mohamed, Mai M. Rifai, Nabil A. Abdel Ghany, Mohamed S. Elmetwaly, (2010). "Soliman Pasha Al-Fransawy: An Outdoor Bronze Statue from The 19th Century", The 29th International Conference of Corrosion Mitigation and Surface Protection Technologies of Materials, 14-16 December, The Egyptian Corrosion Society, Alexandria, Egypt.

Wafaa A. Mohamed, Mai M. Rifai, Sawsan S. Darweesh, Mahmoud S. Morsy and Fatma Z. Sadat, (2010). "Deterioration Aspects of a Dyed Textile Embroidered with Gilded Copper Metallic Threads", The 3rd International Conference of The Faculty of Archaeology, Cultural Contributions of Egypt and Its Impact on the Human Civilization Through Ages, 17-19 April 2010, Faculty of Archaeology, Cairo University, Egypt.
Wafaa A. Mohamed, (2010). "Non-destructive Analytical Applications for the Authentication Islamic Metal Artifacts", the 13th Annual Conference of The Arab Archaeologists General Union, 24-26 October, Libya.

Wafaa A. Mohamed, (2004). "Analysis and Examination of Gold Leaves from the Middle Kingdom of Egypt", (In Arabic), The First Annual Conference of The Modern Academy in Maadi, Department of Environmental Affairs, Egypt.

Wafaa A. Mohamed and Rabab, A. El-Shareef, (2005). "Chronopotentiometry and Conservation of Archaeological Coins", the 24th Annual Conference Corrosion Problems in Industry, ECS, Hurgada, Egypt.

Wafaa A. Mohamed, (2004). "Analysis, Identification and Deterioration Aspects of Metallic Threads" Proceedings of the First Annual Conference

on Textiles Conservation, AHRB Research Centre for Textile Conservation and Textile Studies, University of Southampton, Winchester, UK, PP. 241-244.

Wafaa A. Mohamed, Nora M. Rateb and Allia A. Shakour, (2004). "Performance of Copper Corrosion Inhibitors in a Museum Environment- A Comparative Study Using FTIR Spectroscopy", Proceedings of the International Conference on Metals Conservation, Metals 04, Canberra, Australia, PP. 369-378.

Mona F. Ali and Wafaa A. Mohamed, (2003). "Further Notes on the Production of Ancient Egyptian Green Pigments", Proceedings of the Third Conference of Archaeology, Al-Fayoum Branch, Cairo university, PP. 178-184.

Wafaa A. Mohamed, (2002). "Testing Corrosion Inhibitors for Brass Conservation", Proceedings of the Biannual Conference on Chemistry, Chem. 02, Department of Chemistry, Faculty of Science, Cairo University, PP. 588-596.

Fatma M. Helmi and Wafaa A. Mohamed, (1995). "Study and Treatment of Some Coptic Jewelry Artifacts", Proceedings of The International Conference on Ancient Egyptian Mining, Metallurgy and Conservation of Metallic Artifacts, Cairo, Egypt.