

Curriculum Vitae

Personal Information



Name Wafaa Anwar Mohamed Soliman
Postal Address Faculty of Archaeology, Cairo University, 12613El-Orman., Giza, Egypt.
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Telephone 02- 01224415474 / 02- 35675602
Date of Birth 28/01/1968
Current Position Chairman of The Conservation Department of Inorganic Objects, Faculty of Archaeology, Cairo University, Egypt.

Degrees

Ph.D., Conservation, Faculty of Archaeology, Cairo University, Egypt, 2000
M.A., Conservation, Faculty of Archaeology, Cairo University, Egypt, 1995
B. A., Conservation, Faculty of Archaeology, Cairo University, Egypt, 1989

Employment History

2024	Chairman of The Conservation Department of Inorganic Objects, Faculty of Archaeology, Cairo University, Egypt.
2013-2016	Vice Chairman of the Conservation Center for Archaeological and Historical Buildings and Museum Artifacts (CCAHEMA)
2011- now	Professor of Metal Objects Conservation, Conservation Department, Faculty of Archaeology, Cairo University, Egypt
2008-2010	Chairman of The Quality Assurance Unit, and The Executive Director of the Establishment of Quality Assurance System Project in The Faculty of Archaeology, Cairo University, Egypt.
2006-2011	Associate Professor of Objects 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	Demonstrator of Objects Conservation, Conservation Department, Faculty of Archaeology, Cairo University, Egypt

Scholarships and Internships

1996-1998	Governmental Scholarship to conduct the experimental work of the PhD research at University College London, England.
1995-1996	Governmental Internship to conduct the preliminary study for the PhD Research in Egypt.

Honors and Awards

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

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- Now	Member of The Conservation Department Council

Other Professional Service	2013-2014	Chairman 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.
Other Affiliations	2021-2022	Professor, MA program in Cultural Heritage, Helwan University.
	2014-2017	Professor, Conservation Department, Modern University of Science and Technology MUST.
	2000-2002	Lecturer, Conservation Department, Fayoum University.
	2000-2001	Lecturer, Faculty of Fine Arts, Menia University.
Journal Refereeing	2007	Corrosion Science Journal
	2013	Archaeometry Journal
	2017	IJCS (International Journal of Conservation Science)
	2018	JGUAA (Journal of the General Union of Arab Archaeologists)
	2019	MAA (Mediterranean Archaeology and Archaeometry)
	2020	EJARS (Egyptian Journal of Archaeological and Restoration Studies)
Teaching Activities		
Undergraduate Courses Taught at Cairo University	2000- Now	Principles of Objects Conservation. Treatment and Conservation of Metal Objects. Conservation of Organic/Inorganic Composite Artifacts. Metal Forming and Decorative Techniques. Corrosion of Metals.
Graduate Courses Taught at Cairo University	2006- Now	Advanced Issues in Objects Conservation. Specific Issues in Metals Treatment and Conservation. Authentication of Archaeological Objects.
Graduate Supervisions	2022- Now	Demiana Adel ((M.A., Nano-Coatings of Outdoor Bronze), Principal Supervisor.
	2019- Now	Eid Mertah (Ph.D., Polychromed bronze statues of Osiris, Analysis, deterioration processes, and non-invasive conservation approaches), Principal Supervisor.
	2017- 2023	Jasmeen Abd-el-moez (Ph.D., Conservation of Silver Artifacts using Plasma Enhanced Chemical Vapour Deposition), Principal Supervisor.
	2013- 2020	Fatma Sadat (Ph.D., Optimization of Laser and Ultrasonic Cleaning Parameters of Tapestry artifacts), Principal Supervisor and Chair of Dissertation Defense.
	2016- 2021	Mohamed Samir (Ph.D., Nanomaterials and Outdoor Bronze Conservation), Principal Supervisor.
	2016- Now	Tasneem Mohamed (M.A., Treatment and Conservation of Leather/ Metal Composite Artifacts), Principal Supervisor.

2014- Now	Jehad Mamdouh (M.A., Oil Extracts based Corrosion Inhibitors), Principal Supervisor.
2014- 2019	Eid Mertah (M.A., Bio-Corrosion of Bronze), Principal Supervisor.
2013- 2017	Jasmeen Abd-el-moez (M.A., treatment, and Conservation of Claret Jugs), Principal Supervisor.
2013- 2017	Niazy Mostafa (Ph.D., Conservation of Enamel Decorated Metal Artifacts), Principal Supervisor and Chair of Dissertation Defense.
2012- 2016	Mohamed Samir (M.A., Conservation of Outdoor Bronze Statues), Principal Supervisor.
2012- 2015	Hassan Salah (M.A., Conservation of Coins from Marine Environments), Principal Supervisor.
2009- 2013	Niazy Mostafa (M.A., Conservation of Champlevé Enameled Artifacts), Principal Supervisor and Chair of Dissertation Defense.
2007- 2012	Hams Abd-el-hafez (Ph.D., Glass Conservation and Museum Environment), Principal Supervisor and Chair of Dissertation Defense.
2007- 2012	Fatma Sadat (M.A., Laser and Ultrasonic Cleaning of Metal Threads), Principal Supervisor and Chair of Dissertation Defense.
International Research Funding	2010- 2012 Partnership in a European Commission Funded project "New Integrated Knowledge based Approaches to The Protection of Cultural Heritage from Earthquake-induced Risk, NIKR", Role: Co-investigator of the Egyptian partner (Principal investigator M. F. Aly).

Publications:

Journal Articles

- Yasmin, A. EL- Moaz, Wafaa, A. Mohamed, Mai, M. Rifai, Nasser, N. Morgan, (2023). RF-Plasma Protective Coating on Silver- Copper Alloys using HDMSO/O₂/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), Page 147-163
- Wafaa A. Mohamed & Niazy M. Mostafa, (2021). A Closer look at Two 19th Century champlevé and Peinture Enamel Trays, *EJARS*, 11 (2), 185-192.
- Wafaa A. Mohamed, Niazy 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 Enamelled 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 & ARCHAEOLOGY*, 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 & ARCHAEOLOGY*, Vol.18, No.1, 113-121.
 - Wafaa A. Mohamed, Niaz M. Mostafa, (2017). "Testing Coatings for Enamelled 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*, 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 Psychology and Human Sciences*, Dept. of Psych. El-Minia University, Vol. 14, Part 5, PP.3-23.

Conference Proceedings

- Wafaa A. Mohamed, Mai M. Rifai, Nabil A. Abdel Ghany, Mahamed S. Elmetwaly, (2016). "Testing Coating Systems for Bare and Patinated Outdoor Bronze Sculptur", 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, Spark, 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.