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13.1 PERSONAL DETAILS



Surname	Ahmed		
First name	Harby		
Full name	Harby Ezzeldeen Hassan Ahmed.		
Title	Associate Professor		
Occupation	1. Associate Professor of Ancient Organic Materials Conservation (Conservation of Historical Textiles) at Faculty of Archeology, Cairo University. 2. H.D Certified Trainer (Faculty and Leadership Development Center, Cairo University).		
Address	Archeology Conservation Department- Faculty of Archeology – Cairo University, El-Gamaa St., 12613 Orman, Giza, EGYPT.		
Telephone	H. 0020235940624	Languages	Arabic (Native), English , Greek
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		Website	http://scholar.cu.edu.eg/?q=harbyahmed/
ORCID ID	orcid.org/0000-0003-4203-122X		
Google Scholar Citations	Harby E. Ahmed		
Date of Birth	28 / 11 /1972		
Place of birth	El-Balyana – Sohag – Egypt		

13.2 EDUCATION IN ARCHEOLOGY FIELD

School (Conservation field)	Degree obtained	Dates (from-to)
Enzyme Biotechnology Department, School of Chemical Engineering, National Technical University of Athens, Greece.	Ph.D.	2004 - 2009
Conservation and Restoration Department , Faculty of Archeology , Cairo, Egypt	M.A.	1998- 2002
Conservation and Restoration Department , Faculty of Archeology , Cairo, Egypt	B.A.	1993 - 1997
Conservation and Restoration Institute, Kina , Egypt	Diploma	1991 - 1993

13.2.1 EDUCATION IN OTHER FIELD

School / Institute	Degree obtained	Dates
Training of Trainers programs (TOT).	National Center for Faculty and leadership Development (NCFLD), International Board of Certified Trainers	2012

	(IBCT) – Middle East and North Africa Division.	
Diploma in History (2 years)	Department of History, School of Arts, Cairo University, EGYPT	2015
Preparatory in Islamic History	Department of History, School of Arts, Cairo University, EGYPT	Present

13.3 TRAINING

Training attended/ Technical skills acquired	Place	Dates
A training course on X-ray Diffraction Techniques & Interpretation	Faculty of Science, Cairo University, Cairo, Egypt	2000
A training course on HPLC Techniques & Interpretation	Faculty of Science, Cairo University, Cairo, Egypt	2001
Practice on conservation and restoration of archaeological Egyptian textiles	Islamic Art Museum, Cairo, Egypt	2001
A training course on Electron Microscopy Techniques & Interpretation	School of Chemical Engineering, National Technical University of Athens, Greece.	2005

13.4 EMPLOYMENT HISTORY

Employer	Position	Dates (from-to)
Associate Professor of Historical Textiles Conservation & Ancient Organic materials Conservation	Department of Monument Conservation, Faculty of Archaeology, Cairo University, Egypt	2015- Present
Lecturer of Historical Textiles Conservation & Ancient Organic materials Conservation	Department of Monument Conservation, Faculty of Archaeology, Cairo University, Egypt	2010 – 2015
Certified Trainer	Faculty and Leadership Development Center, Cairo University, Egypt	2010 - Present
PhD Student at National Technical University of Athens, Greece.	Enzyme Biotechnology Department, School of Chemical Engineering, National Technical University of Athens, Greece.	2004 - 2010
Assistant Lecturer at Department of Monument Conservation	Faculty of Archaeology, Cairo, Cairo, Egypt	2002 - 2004
Demonstrator at Department of Monument Conservation	Faculty of Archaeology, Cairo, Cairo, Egypt	1997 – 2002

13.5 . SPECIAL SKILLS

Teach training courses for faculty members and postgraduates at Cairo University (Faculty and Leadership Development Center) and other Education centers.

The Name of Training Course	Duration of the program
1. Effective Presentation Skills	15 Hours
2. Communication Skills	15 Hours
3. Managing Time, Meeting and Work Stress	15 Hours
4. University Code of Ethics	15 Hours
5. Conference Organization	15 Hours
6. Managing Research Teams	15 Hours

13.6. MEMBERSHIP OF PROFESSIONAL ASSOCIATIONS

Professional body	Level of membership	Year of award
The Arab Archaeologists Society	Member life	2000 - present
Textiles Conservation Group ICOM- CC	Member life	2000 - present
Egyptian Archeologists Association	Member life	2010 - present
Journal of Enzyme Research	Advisory Board	2013 - present

13.7. Scholarships

Scholarship	Study place	Year
Grunt for the State Scholarship's Foundation (IKY) – Greece. (For 4 years)	Enzyme Biotechnology Department, School of Chemical Engineering, National Technical University of Athens, Greece.	2004- 2008
Grant from National Technical University of Athens, Greece. (For 1 years)	Enzyme Biotechnology Department, School of Chemical Engineering, National Technical University of Athens, Greece.	2008 - 2009
Grant from The Partnership and Ownership initiative (ParOwn), the Egyptian Ministry of Higher Education and State for Scientific research , Egypt (For 3 months)	Laser Plasma Laboratory, Townes Laser Institute, College of Optics & Photonics, University of Central Florida, USA.	November 2011 to February 2012

13.8. TEACHING EXPERIENCE

- From 1997-2004 I had been teaching practices labs for courses of treatment and conservation of various organic materials such as textiles, carpets, manuscripts, basketry and feathers in Conservation Dept., Faculty of Archaeology, Cairo Univ.
- Teaching short courses in special topics for young conservators in Supreme Council of Antiquities, Cairo, Egypt 1997 – present.
- 2010 present I am teaching courses of Historical Textile conservation, Conservation and

Restoration of ancient organic materials , Preventive conservation, naturally textile dying for conservation procedure, history of woven structure, natural dyes in history and archeology in Conservation Dept., Faculty of Archaeology, Cairo University, Egypt. (Under graduate).

- 2010 present I am teaching two courses Historical Textiles Conservation, Historical Organic Materials conservation, Post graduate student (Preliminary MA), College of Fine Arts - Alexandria University, Egypt.
- Lectures and workshops for employees of Egyptian ports and airports to detect archaeological artifacts.

13.9 PRACTICAL EXPERIENCES

- 1997- Till now Practical Restoration and conservation of high numbers of historical textile objects in different museums in Egypt, such as “Islamic Art Museum in Cairo, Ismailia Museumetc”. **See publications.**
- 2010- Till now First aid and Practical Restoration, conservation of ancient Egyptian textiles in different Egyptian excavations, such as “ Tuna El- Gabel Excavation etc”. **See publications.**
- 2010- Till now Practical Restoration and conservation of islamic holy and historic textile objects (private collections) outside Egypt as private projects. **See publications.**
- 2004- 2010, using Enzymes to remove oily dirt and starch adhesive past from some historical Egyptian textiles. **See publications**
- 1997- Till now Practical works in analysis, identification and investigation of various historical materials using various methods and techniques such as optical microscope, polarizing microscope, Scanning Electron Microscope, FTIR, HPLC and XR-D.
- 1997 – Till now Expert in evaluation the durability of materials suggested to conservation field in the long term use.
- 1997 – Present, Expert in dying natural fabric by using natural dyes.
- 1997 – Present Expert in Evaluation the museum conditions (Sunlight, UV light, Heat, Microbial effect, Acid effect on historical textiles dyed with natural dyes.

13.20 FIELDS OF INTEREST

- Treatment, Conservation and Restoration of Textile Artifacts
- Conservation of Organic Materials Artifacts
- Conservation of Carpets and Rugs
- Conservation of Embroidery Metal Threads
- Applications of Enzymes in Conservation Field
- Investigation and analysis of textile materials such as fibers, dyes and pigments
- Application of Natural dyes on Natural fabric

OTHER ACTIVITY

- A Member in the Egyptian National Project “New Strategies for Conservation of Ancient Egyptian Textiles with the Application on Some Selected Textile Objects in the Museum of Faculty of Archaeology, Cairo University, Funded by STDF (Ministry of Higher Education and Scientific Research, Egypt) for two years from November 2009

AWARDS

- Honored twice from Cairo University in 1998 after B.A and in 2003 after Masters.
- The International Publication Award from Cairo University from 2010 to 2015.
- National Encouragement Award in Humanities from Cairo University in 2004.

13.21 PUBLICATIONS

BOOK

[1] Harby E. Ahmed “History of Natural dyes in North Africa” in Handbook of Natural Colorants” (Eds): Thomas Bechtold and Rita Mussak- John Wiley & Sons, Ltd, UK, 2009.
ISBN: 978-0-470-511992

[2] Harby E. Ahmed " Biotechnological Processes in the Restoration of Historical Textiles: Principles and Practical Application" Lambert Academic Publishing, 2012, German.
ISBN: 978-3-847-341512.

[3] Harby E. Ahmed “Studies in the Restoration and Conservation of Archaeological textiles” part 1 “ Techniques of historic textiles industry and its materials over the ages” International Library for Publishing and Distribution, Egypt. 2014.
ISBN: 978-977-90-2536-0

[4] Harby E. Ahmed “Studies in the Restoration and Conservation of Archaeological textiles” part 2 “ Introduction to the Conservation of Archaeological Textiles - Principles and Practical Applications” International Library for Publishing and Distribution, Egypt . 2014
ISBN: 978-977-90-1414-2

[5] Harby E. Ahmed & Mostaffa Attia “Principals of Ancient Organic Materials Conservation” Dar Elthakafa Alarabia, Egypt, 2014. ISBN: 978-977-222-358-9

[6] Harby E. Ahmed “Handbook of Historic Embroidery Textiles Conservation” Lambert Academic Publishing, 2014, German. (ISBN 978-3-659-66378-9)

Articles in Journals

[1] Harby E. Ahmed, Fragiskos N. Kolisis and Stavros S. Gremos “Enzymatic removal of the oily dirt from a Coptic tunic using Lipase enzyme” Journal of Textiles Apparel. Technology and Management, U.S.A. Vol. 6, No. 3,(2010), pp 1-17.

- [2] Harby E. Ahmed "An Extensive Study of the Effect of the Enzyme α - amylase that Used In Textile Conservation on Silk Fibers Dyed With Safflower, Madder Dye" e-conservation magazine, No.17 (2010), pp 41- 51.
- [3] Harby E. Ahmed, Fragiskos N. Kolisis "An Investigation into the Removal of Starch Paste Adhesives from Historical Textiles by using the enzyme α – amylase" Journal of Cultural Heritage . Vol. 12 (2011) pp. 169-179. Doi:10.1016/j.culher.2010.08.001
- [4] Harby E. Ahmed, Yassin E. Ziddan "A New Approach for Conservation Treatment of a Silk Textile in Islamic Art Museum, Cairo" Journal of Cultural Heritage, Vol, 12, (2011) PP. 412-419. Doi:10.1016/j.culher.2011.02.004
- [5] Harby E. Ahmed "Strategy for preservation of Ptolemaic wrapped Mummy's linen in tuna el-Gebel excavation, Egypt, A case study" International journal of Conservation science, Volume 2, Issue 3 (2011) PP. 155-164.
- [6] Harby E. Ahmed "First aid of rare Ptolemaic textile in Tuna el-Gabel Excavation, Egypt" e- Conservation magazine, No, 23 (2012), pp 78 - 89
- [7] Harby E. Ahmed, Fragiskos N. Kolisis "A Study on using of Protease for Removal of Animal Glue adhesive in Textile Conservation" Journal of applied polymer science. Vol. 124, Issue 5 (2012) pp 3565–3576. DOI 10.1002/app.34053
- [8] Harby E. Ahmed, Sawsan S. Darwish " Effect of Museum Conditions on Historical Dyed Silk Fabric with Madder Dye" Journal of Polymers and the Environment, Volume 20, Issue 2 (2012) pp 596-606. DOI 10.1007/s10924-012-0421-x
- [9] Harby E. Ahmed, Maisa M. Mansour "Occurrence of fungi on some deteriorated ancient Egyptian materials and their controlling by ecofriendly products" Egyptian Journal of Archaeological Restoration studies, Vol. 2, Issue 2 (2012) pp. 91-101. ISSN. 2090-4940.
- [10] Harby E. Ahmed "Protease Enzyme Used For Artificial Ageing on Modern Cotton Fabric For Historic Textile Preservation And Restoration" International journal of Conservation science, Volume 4, Issue 2 (2013) PP. 177-188.
- [11] Harby E. Ahmed, Olodia A. Nassef "From Ptolemaic to modern inked linen via Laser Induced Breakdown Spectroscopy (LIBS)" Journal of Analytical Methods, Volume 5, (2013) PP 3114- 3121. DOI: 10.1039/c3ay26358d
- [12] Harby E. Ahmed "Identification and conservation of a rare Islamic textile decorated with metallic yarns" Egyptian journal of archaeological and restoration studies, Volume, 4 (2013) pp 109: 118.
- [13] Harby E. Ahmed, Yuan Liu, Bruno Bousquet, Matthieu Baudelet and Martin Richardson "Investigation of Historical Egyptian Textile using Laser – Induced

Breakdown Spectroscopy (LIBS) – a case study" Journal of Textiles Apparel. Technology and Management, U.S.A. Vol. 8, No. 2,(2013), pp 1-10.

[14] Harby E. Ahmed, Sameh Reda and Khaled Elnagar "Studying Irradiation Homogeneity in Light Aging for Historical Textile Conservation" Fiber and Polymer, Vol.14, No.9, (2013) pp 1581-1585. DOI 10.1007/s12221-013-1581-6

[15] Harby E. Ahmed “A new approach to the conservation of metallic embroidery threads in historic textile objects from private collections” International journal of Conservation science, Volume 5, Issue 1 (2014) PP. 21- 34.

[16] Harby E. Ahmed, Amal A. El-Ebissy, Ilya Mingareev, Martin Richardson “Evaluating study of ultrafast laser-assisted cleaning of historical textiles conservation” Journal of Textiles Apparel. Technology and Management, U.S.A. Vol. 9, No. 2,(2015), pp 1-15

[17] Yassin Zidan, Nabil Omar, Harby E. Ahmed, Ibrahim EL-Kholy “An experimental study about using acid lipase enzyme in treatment of natural dyed textile samples" Journal of humanitarian and literary Studies - Faculty of Arts - University of Kafr El-Sheikh.

[18] Yassin Zidan, Nabil Omar, Harby E. Ahmed, Ibrahim EL-Kholy “ Effect of pepsin and trypsin enzymes used in textile conservation on natural dyed textiles samples" Journal of Home Economics - Textile Division - College of Home Economics - University of Menoufia, Vol. 25, No.1 (2015), PP 237- 247.

[19] O. Aied Nassef, Harby E. Ahmed, M. Abdel-harith Mohamed “Surface and stratigraphic elemental analysis of Ancient Egyptian cartonnage using Laser Induced Breakdown Spectroscopy (LIBS)” Analytical Methods, (2016), 8, pp 7096-7106. DOI: 10.1039/c6ay01769j

[20] Harby E. Ahmed, Sameh M. Reda, Dina Yehia, Yassin Ziddan “Preventive Conservation of Historic Textile from the Ultraviolet Degradation due to Light Exposure in Egyptian Museums” International Journal of Materials Science and Applications 2016; 5(6-2): 10-14. doi: 10.11648/j.ijmsa.s.2016050602.12

[21] Nour F. Attia, Dina. Yehia, M. A. Hassan, Harby E. Ahmed "Novel Synthesis of Nanoparticles Based Back Coating Flame Retardant Materials for Historic Textile Fabrics Conservation" Journal of Industrial Textiles, (2017), Vol. 46 (6), pp 1379-1392. DOI: 10.1177/1528083715619957

[22] Harby E. Ahmed, Ibrahim F. Tahoun, Ibrahim Elkholy, Adel B. Shehata, Yassin Ziddan " Identification of natural dyes in rare Coptic textile using HPLC- DAD and

mass spectroscopy in museum of Faculty of Arts, Alexandria University, Egypt" *Dyes and Pigments* (2017), Vol 145, PP 486-492. doi.org/10.1016/j.dyepig.2017.06.035.

[23] Islam Abdel Moneim, Harby E. Ahmed, Abdullah Abdel Moneim, Reham Abdel Aziz " Study of the effect of Uncontrolled Conditions on Historical Silk Fabric Dyed with Synthetic Dyes" *Journal of Home Economics - Textile Division - College of Home Economics - University of Menoufia*, Vol. 27, No.4 (2017), PP 395- 410.

[24] Harby E. Ahmed, W.S. Mohamed, H. Saad, H.E. Nasr, M.Morsy, N. Mahmoud " Degradation Behavior of Nano-Glue Adhesive due to Historical Textiles Conservation Process" *Egyptian Journal of Chemistry*, (2017), Vol. 60 , No.6, PP. 1- 12.

DOI :10.21608/ejchem.2017.1455.1105

[25] Islam Abdel Moneim, Harby E. Ahmed, Abdullah Abdel Moneim, Reham Abdel Aziz "An investigation into the restoration of historical costumes applied to the historical dress of Mrs. Safia Zaghloul" *International Design Journal*, (2018), Vol 8, Issue 1, PP .315- 323

Articles in Conferences (Post Print)

[1] Harby E. Ahmed, Yassin Zidan "Study in Technique of Dying and Aging of Cochineal Dye" in the First conference El-Fayoum (El-Fayoum between the past and the present, future the Archaeological Touristic Development 7:8 April 2001. Post print, pp. 34 – 39.

[2] Zidan, Y., Harby E. Ahmed, El-Nagar, K. (2001): Study in Treatment and Conservation Silk textile No 12014 Islamic Art Museum. Proceeding of the Arab Archaeologists Conference at Cairo, Egypt, November 2001, 1181- 1200.

[3] Harby E. Ahmed & Yassin Zidan and Kh.El-Nagar "Study on dying with Cochineal and aging of dyed fabric "in AHRB Research Center for Textile Conservation and Textile Studies – First Annual Conference, 13- 15 July 2004, South Hampton, UK. Post print , pp. 246 – 249

[4] Harby E. Ahmed, Fragiskos N. Kolisis " Preliminary notes on using the lipase enzyme to remove oily dirt in textile conservation" 4th International Congress 'Science and Technology for the Safeguard of Cultural Heritage of the Mediterranean Basin' 6th to 8th December 2009- Cairo- Egypt, Vol. II, pp. 501: 510.

[5] Harby E. Ahmed, Fragiskos N. Kolisis "Behaviour of protease enzyme that use in textile conservation on silk dyed fabric with natural dyes" On the Body' 2011 Australian Institute for the Conservation of Cultural Material (AICCM) Textile Special Interest

Group TSIG Symposium, Canberra, Australia from 16th March to 18th March 2011.
Post print, pp. 89- 96.

CONFERENCES

[2] Harby E. Ahmed & Yassin Zidan “The Conservation Treatment of A Silk Textile in the Islamic Art Museum ,Cairo” in the Meeting of the ICOM Conservation Committee on –Recent Preoccupations Concerning Textile , Leather and Legislation , from 21st to 24th of April, 2004 , Athens, Greece.

[3] Harby E. Ahmed, Yassin Zidan and Kh.El-Nagar "Aging behavior of silk dyed fabric with Safflower dye" in 26th Meeting of Dyes in Historical and Archaeology – 7th – 10th of November 2007, Vienna- Austria.

[4] Harby E. Ahmed, Fragiskos N. Kolisis" Notes on using the protease enzyme to remove animal glue in textile conservation" in 'Giza through Ages' -First international conference- Faculty of Archeology – Cairo University- 4 -6th March 2008, Cairo, Egypt

[5] Harby E. Ahmed, Fragiskos N. Kolisis "A Study on the Use of the Enzyme Lipase for the Removal of Oil Stains in Textile Conservation" in 34th Canadian Association for Conservation Conference- 30th May – 5th June 2008 – Montreal- Canada.

[6] Harby E. Ahmed, Fragiskos N. Kolisis “Practical Application of Protease Enzyme to remove Animal Glue in Textile Conservation” Going Green: towards sustainability in conservation- 24 April 2009 - The British Museum-London- UK.

[7] Harby E. Ahmed, Fragiskos N. Kolisis “A study on using of α -amylase for removal of starch adhesive paste in textile conservation” First meeting of FP7 Marie Curie Initial Training Network - Sep 29 – Oct 1, 2009- Friedrich-Schiller University of Jena, Germany.

[8] Harby E. Ahmed, Fragiskos N. Kolisis “An Extensive Study of The Effect of The Enzyme Protease That Used In Textile Conservation On Cotton Fibers Dyed With Turmeric Dye, Madder Dye” 28th meeting of dyes in History and Archaeology – 21th to 24th October 2009- Poznan - Poland.

[9] Harby E. Ahmed, Fragiskos N. Kolisis “Notes of the effect of the Enzyme Lipase that use in Textiles Conservation on Silk Dyed Fabric with Madder Dye” The 3rd International Conference of the Faculty of Archeology- Cultural Contributions of Egypt and its Impact on the Human Civilization Through Ages- , 17Th to 19Th April 2010, Cairo, Egypt.

[10] Omar Abdel-Kareem, Harby E. Ahmed, Khaled Elnagar, Identification of dyes in Islamic Textile Collection in Museum of Faculty of Archeology, Cairo University Egypt, The Symposium ISEND2011 Europe (International Symposium And Exhibition On Natural Dyes), La Rochelle, France From 24 – 30 April 2011.

[11] Harby E. Ahmed, Yuan Liu, Matthieu Baudalet, Martin Richardson "Evaluating study of using Laser-Induced Breakdown Spectroscopy (LIBS) on Investigation of historical Egyptian textiles" The 15th Annual Southeast Ultrafast Conference (SEUFC), January 12th and 13th, 2012, University of Central Florida, USA.

[12] Harby E. Ahmed, Yuan Liu, Matthieu Baudalet, Martin Richardson “ Investigation study of using Laser-Induced Breakdown Spectroscopy (LIBS) on analysis of Historical Embroideries” International Symposium of Archaeometry (ISA), 19Th to 23Th May 2014, Los Angeles, USA.

[13] Harby E. Ahmed “Study of the effect of the enzyme protease that used in textile conservation on cotton fibers dyed natural dyes” 43 annual meeting of American Institute for Conservation of Historic and Artistic Works, 13:16 May 2015, Miami, Florida, USA.

[14] Harby E. Ahmed “First aid strategies of rare Ancient Egyptian Textiles in Excavation” AIC 44th Annual Meeting, held jointly with the CAC-ACCR 42nd Annual Conference in Montreal, Quebec, Canada, May 13-17,2016 .

13.22. ACADEMIC SUPERVISION

Ph.D Theses

The Name of Theses	Year
1. A study of the situations which are not appropriate for the use of enzymes in cleaning of antique natural dyed textiles" suggestions and solutions.	29 / 5 / 2011
2. An experimental study of using the nanotechnology in the conservation of printed textiles, applied on some models selected.	2012
3. Comparative study on some synthetic organic and some natural dyes of Egyptian archaeological textiles.	2016

Master Theses

The Name of Theses	Year
1. The Role of Preventive Conservation in Protect Ancient Books and Manuscripts and Documents to face disaster Application on Some Selected Objects	22 / 5 / 2013

2. Preventive conservation to exhibit and store flat textile , with practical application on a selected object	18/ 3 / 2013
3. Preventive conservation of historical dyed textiles by using nano-materials with practical application on a selected object	25 / 5 / 2014
4. An experimental study to evaluate using nano consolidation compounds in treatment and conservation of dyed archaeological textiles With application on one of the selected objects	4 / 2014
5. Cleaning of archaeological textile by using enzymes and detergents surface, a comparative, experimental and Applied study	4 / 2014
6. Comparative study of using gamma rays and some types of chemical pesticides to sterilize historical cellulosic textiles - application on the selected object.	2015
7. Comparative study of using enzymes and other methods in cleaning historical printed textiles applied on selected historic textile object.	2015
8. A Comparative Study of the Effect of Innovative and Traditional Cleaning Treatments on the Chemical and Mechanical Properties of Historic Cotton Textile, with Application on a Selected Object	2015
9. Experimental study to evaluate using of immobilized enzymes on nanometrice particles in cleaning of wool textiles dyed with natural dyes applied on some selected objects.	2016
10. Experimental study to consolidate weak historical textiles by using some Nano-composites applied on some selected models	2016
11. Study Using Nano Plant extracts in Sterilization of cellulosic historical Textiles – applying on selected objects	2016