BASEM GEHAD, ANITA QUILES (EDS.)

Proceedings of the First International Conference on the Science of Ancient Egyptian Materials and Technologies (SAEMT)



INSTITUT FRANÇAIS D'ARCHÉOLOGIE ORIENTALE

Table of contents

A	.cknowledgments	IX
P	reface by the Editors	XI
Paul Ni	icholson, Ian Shaw	
	Xey Issues in the Science of Ancient Egyptian Materials and Technology	I
María V	Victoria Asensi Amorós	
W	Vood Types Found on Egyptian Weapons at the Louvre Museum	21
Julie Da	awson, Tom Turmezei, Geoffrey Killen, Helen Strudwick	
R	Levealing Interiors:	
C	T Scanning and Micro-CT Scanning of Wooden Coffins	35
Trevor	F. Emmett, Elsbeth Geldhof, Julie Dawson	
A	Practical Method for the Manufacture	
of	f Egyptian Blue for Use in the Creation	
of	f Low Relief Decorations on Third Intermediate Period Coffins	49
	Gehad, Brenda J. Baker, Ethan M. Braunstein, Noor Mohamed,	
	oud Ali, Mohamed Rageb, Karim Attia	
	wo Ladies from Lahun: Interdisciplinary Approach for Studying	
N	Iummification and Burial Customs of 22nd to 24th Dynasty Mummies	59
Basem	Gehad, Julie Arslanoglu, Clara Granzotto, Marco Leona	
N.	Nolten Versus Punic Encaustic: Interdisciplinary Analytical Approach	
fo	or the Determination of Methods Used	
fo	or Encaustic Painting Implementation	75

Mohamed Abdelrahman Hamdan, Clara Jeuthe	
Where Does Egyptian Chert Come from?	
Preliminary Macroscopic, Microscopic, and Geochemical Results	99
Anna K. Hodgkinson, Stefan Röhrs, Katharina Müller, Ina Reiche	
Amarna as a Case Study for the Chemical Analysis of Late Bronze Age Egyptian Glass Industries	III
Margaret Maitland, Jennifer Ross, Lore Troalen	
Dye and Pigment Analysis of a Re-Discovered Early Roman-Era Mummy Shroud from the Rhind Tomb at Thebes	123
Claire Malleson	
Archaeological Approaches to the Logistics of Feeding Ancient Egyptian Workforces:	
The Value of Traditional Techniques and Consistent Methods	133
Elodie Mezzatesta, Carole Mathe, Annie Perraud, Cathy Vieillescazes	
Die to Be Reborn: Analytical Tools	143
Akiko Nishisaka, Eissa Zidan, Miho Takashima, Takashi Nakazawa, Yoko Taniguchi, Nour Mohamed Badr, Mamdouh Taha, Hiromasa Kurokochi, Sakuji Yoshimura	
Preliminary Analysis on the Mortars and Adhesives Used in the King Khufu's Second Boat	155
Martin Odler, Jiří Kmošek, Marek Fikrle, Yulia Kochergina	
Archaeometallurgical Study of Bronze Age Egyptian and Nubian Copper Alloy Artefacts from the Egyptian Museum of Leipzig University:	
A Concise Report	169
Corina Rogge, Anders Bettum, Lucy Skinner, Anna Stevens	
Differential Use of Yellow Pigments on Non-Elite Wooden Coffins Excavated from the Amarna South Tombs Cemetery	185
Sarah M. Schellinger	
Scientific Analysis of Animal Mummies at the San Antonio Museum of Art	197
Isabel Tissot, Lore Troalen, Maria Filomena Guerra	
From Colour to Nanolayers: Corrosion in Egyptian Gold Work	211

Lore Troalen, Maria Filomena Guerra, Margaret Maitland, Matthew Ponting, Campbell Price	
The Gold Working of Riqqa, Egypt: Analysis and Comparison Between the 12th and 18th Dynasties	221
Alexandra Winkels	
In situ Analysis of Ancient Egyptian Mortars and Plasters with a Mobile Field Laboratory on Major Archaeological Sites in Egypt	233
Eissa Zidan, Ahmed Abdrabou, Akiko Nishiasaka, Hiromasa Kurokochi, Mamdouh Taha, Sakuji Yoshimura	
Scientific Identification of Wood Species of King Khufu's Second Boat: A Preliminary Study	261