

CONTENTS

Session 2: The impact of natural environmental factors on ancient economy: climate, landscape

Panel 2.8: Environmental Factors on Regional Economies

Michele Matteazzi

...inde navigatur septem maria Altinum usque...

Il paesaggio litorale alto adriatico tra *Atria* e *Altinum* in epoca romana

5

Session 3: Systems of production: land use, industry, technology, artistic production

Panel 3.2: Organization of Space and Work: Potter's Workshops in the Greek World

Giovanna Greco

Cumae: Imports and Productions in the Archaic City

25

Panel 3.3: (Re)Producing Images of the Divine between Late Republican Times and Late Antiquity

Antonino Crisà

Tokens and the Reproduction of Divinities in Hellenistic and Roman Sicily: Some Preliminary Case Studies

47

Kristine Iara

Budget Cuts and Material Expression of Religion

59

Panel 3.8: Women and Men at Work! Entrepreneurs, Ateliers and Craftsmen in the Construction and Destruction of Roman Tombs

Marianna Castiglione

Working in Pompeian Funerary Contexts. Some Notes on Business, Craftsmanship and Customers

67

Myriam Pilutti Namer

The Afterlife of Stones after the Disruption of Roman Tombs in Late Antiquity and Middle Ages. A Selection of Case Studies from the *regio Venetia et Histria* 71

**Panel 3.10: Contextualizing Craftsmanship in the Ancient World:
an “Economic” Sphere?**

Mario Denti

Introduction 77

Sandra Blakely

Metallurgy between Myth and Production: Cognized and Operational Craft in the Northeastern Aegean 79

Julien Zurbach

Domestic vs Commercial? Non-elite Craftsmen between Mycenaean and Archaic Times 89

Despoina Tsiafaki

Crafts and Craftsmanship within the Societies of Northern Greece in Archaic Times 91

Mario Denti

Craftsmanship and Gentilitial Empowerment in the South Italian Iron Age 103

K. Harrington

Craft and Community: Social and Economic Adaptation in the Corinthian Potters’ Quarter 105

**Panel 3.11: Salt, Fish Processing and Amphorae Production
Across the Mediterranean in the 1st Millennium BC.
An Overview of the Technological and Economic Interactions**

**Darío Bernal-Casasola – Ricard Marlasca – José Manuel Vargas Girón –
José Alberto Retamosa Gámez**

De las complejas estrategias pesqueras hispanorromanas.
Atunes, boquerones, caballas, jureles y sardinas en El Olivillo de *Gades* 109

Panel 3.13: The Rise of Bling: Charting the Incredible Increase in the Consumption of Decorative Metal Objects in the Roman Empire

Mikhail Treister

The Gold of Phanagoria (Bosporan Kingdom):
A Complex Archaeo-metallurgical Study

129

Josy Luginbühl

Young Ladies with Their Writing Equipment.
Indications of Literacy in Roman Tombs

147

Espen B. Andersson

The Economic Centre of Pompeii Revealed by Roman Cash Keeping

159

Panel 3.16: The Logistics and Socio-Economic Impact of Construction in Late Republican and Imperial Rome

Christopher Courault

Construir una ciudad *ex novo* en *Hispania*. Una actualización cuantitativa sobre el primer urbanismo de *Corduba* (s. II a. C.)

175

J. Á. Domingo – P. Barresi – P. Pensabene – J. R. Domingo

Una propuesta de reconstrucción de los costes de los teatros:
el caso de Leptis Magna

195

Simone Mulattieri

Forme e funzioni degli antichi magazzini romani: dalla costa tirrenica all'entroterra di Roma. Gli esempi di *Portus* e *Lucus Feroniae*

231

Panel 3.20: The Production of Portrait Statuary in Roman Cities. An Economic Factor?

Cruces Blázquez-Cerrato – Santiago Sánchez de la Parra-Pérez

Investments of Hispano-Roman Elites in Metal Statues:
A First Costs Evaluation according to Epigraphy

245

Panagiotis Konstantinidis – Marios Mylonas

Economic and Commercial Aspects of Portrait Statuary from the City of Epidauros and the Sanctuary of Apollo Maleatas and Asklepios (146 BC–3rd century AD)

261

Panel 3.21: Farmhouses in Macedonia from the 4th Century BC until the Roman Era: Rural Landscape and Rural Economy

Katerina Tzanavari

Family-oriented Farms Along via Egnatia. The Case of Ancient Lete 281

Eleni Gerofoka

Analysis of the Agricultural Management of a Hellenistic Pieria Farmhouse Based on Archaeological Evidence and Archaeological Relevance 297

Eleni Klinaki

Currency from Two Farmsteads in the Ancient Leivithra Plains in Southern Pieria 313

Ioanna Vassiliadou

Pierian-Macedonian Pitch. A Brand Name Agricultural Product of Ancient Macedonia 333

Kostas Ketanis

Roman Control and Management of the Rural Economy in Macedonia 347

Angeliki Koukouvou

Villae Rusticae at the Beroia Countryside (Macedonia, Greece) 361

Panel 3.23: Unfinished Details in Ancient Architecture. Consequences of Financial Shortages, Organizational Constraints or Aesthetic Ignorance?

Natalia Toma – Frank Rumscheid

Introduction 383

Matthias Grawehr

Heben, Stemmen, Schauen. Funktionen und Deutungen von Buckelbossen in der antiken Architektur 385

Therese Emanuelsson-Paulson

Polygonal Columns: Unfinished Construction or Inexpensive Fashion? 389

Reinhard Heinz

Das vollendet unvollendete Mausoleum von Belevi 393

Georg A. Plattner Intentionelle Unfertigkeit in der römisch-kaiserzeitlichen Architektur in Ephesos und Kleinasien	397
Fulvia Bianchi – Matthias Bruno Il Complesso Severiano di Leptis Magna: il cantiere e la decorazione architettonica tra finito e non finito	401
Natalia Toma Effizienzstrategien kaiserzeitlicher Marmor-Bauunternehmer. Der Fall des Stadion-Osttors in Milet	405
Ursula Quatember Honoring One's Pledge? Benefactors and Their Building Donations in Roman Asia Minor	409
Panel 3.25: Production of Tiles and Bricks	
Luigi Cicala – Luigi Vecchio The Bricks of Elea-Velia: Archaeology and Epigraphy of Production	415
Heinz Sperling Rekonstruktion von Betriebsmodellen antiker Produktionsanlagen mit Hilfe von Prozessketten-Analysen. Methodik und Anwendung bei der Ziegelherstellung in römischer Zeit	433
Panel 3.26: Serial Production	
Elisabeth Trinkl Serial Production in Classical Greece: Attic Figural Vases	439
Harald Schulze Blei als Material für die Serienproduktion von Votivgaben	451
Dagmara Wielgosz-Rondolino Serial Production or Individual Orders? Palmyrene Sculpture from the 1 st to the 3 rd Century AD	469
Eleonora Cussini Serial Production or Individual Orders? Palmyrene Inscriptions on Artefacts from the 1 st to the 3 rd Centuries AD	473

Panel 3.27: Roman and Late Antique Glass Production

Frank Wiesenberg

New Light on Old Panes – Current Results Obtained

by Experimental Archaeology: Making Roman Window Glass

479

**Miguel Cisneros – Nova Barrero – Pilar Caldera – Alfredo Encuentra –
Esperanza Ortiz – Juan Á. Paz**

Semiprecious Stones and Blue Glass: An Approach to the Imitation Phenomenon
in *Hispania* during the Roman Period

493

Ella Magdalena Hetzel

Craftwork in Roman Cologne – A Microeconomic View on Cluster Structures
Regarding Transformation of New Ideas

507

Panel 3.28: Food Production and Consumption

Stavros Dimakopoulos

Educating Farmers. Economic Strategies in Xenophon's *Oeconomicus*
and Their Applications in the Agricultural Landscape

513

Giulia Falco

Snow and Ice in Antiquity. Supply, Preserving, Trade, Consumption

525

Vedat Keleş – Michael D. Yilmaz

Fishing and the Processing of Seafood in Parion

535

**Stéphane Mauné – Enrique García Vargas – Oriane Bourgeon –
Corinne Dubler – Iván González Tobar – Quentin Desbonnets –
Ophélie Tiago Seoane**

OLEASTRO: Neue Ergebnisse des französisch-spanischen
Forschungsprogramms (2013–2018)

553

**Florian Hermann – João Pedro Bernardes – Felix Teichner –
Ricardo Soares**

Boca do Rio (Algarve, Portugal). A Centre of Export Oriented
'garum' Production on the Shore of Roman Lusitania

565

Nabil Kallala – Joan Sanmartí – Maria Carme Belarte – Joan Ramon – Bouthéina Maraoui-Telmini – Francisco José Cantero – Dani López – Marta Portillo – Silvia Valenzuela-Lamas L'économie vivrière d' <i>Althiburos</i> (au NO de la Tunisie) à l'époque protohistorique-numide	571
---	-----

Panel 3.29: Production and Distribution of Roman Pottery

Mongi Nasr L'atelier de Sidi Aïch (Vicus Gemellae) : productions et commercialisation	581
Sergiu Matveev Keramische Verbrennungsöfen der römischen Tradition des III.–IV. Jahrhundert n. Chr. zwischen Prut und Dniester	599
Leah Reynolds Pottery and Exchange at the Imperial Fringe: Samian Ware at Rural Settlements in Wales and the Marches	611