

CONTENTS

1. New Developments in Methodology

- 1.1 **DO WE UNDERSTAND COOKING POTS AND IS THERE AN IDEAL COOKING POT?**
M. Tite and V. Kilikoglou 1
- 1.2 **SECONDARY CALCITE IN ARCHAEOLOGICAL CERAMICS: EVALUATION OF ALTERATION AND CONTAMINATION PROCESSES BY THIN SECTION STUDY**
M.A. Cau Ontiveros, P.M. Day and G. Montana 9
- 1.3 **INVESTIGATING PETROLOGICAL AND CHEMICAL GROUPINGS OF EARLY MINOAN COOKING VESSELS**
A. Tsolakidou, V. Kilikoglou, E. Kiriati and P.M. Day 19
- 1.4 **COMPARISON OF THE RESULTS OF NEUTRON ACTIVATION ANALYSIS ON ANCIENT POTTERY AT TWO LABORATORIES: N.C.S.R. "DEMOKRITOS" & THE UNIVERSITY OF MANCHESTER**
J.E. Tomlinson 35
- 1.5 **A WEB-FRONTED DATABASE OF DIFFRACTION PATTERNS OF CLAYS AND ANCIENT CERAMICS**
E.A. Hughes, A. Brown, G.R. Smith, V.A. Marshall and E. Pantos 45
- 1.6 **MODEL-BASED CLUSTERING METHODS IN ARCHAEOLOGICAL CERAMIC PROVENANCE STUDIES**
I. Papageorgiou and M.J. Baxter 51

2. Kilns and Firing of Materials

- 2.1 **FIRING TEMPERATURE DETERMINATIONS OF LOW FIRED CLAY STRUCTURES**
Y. Maniatis, Y. Facorellis, A. Pillali and A. Papanthimou-Papaefthimiou 59
- 2.2 **TECHNIQUES AND TECHNOLOGY OF CERAMIC VESSEL MANUFACTURE CRUCIBLES FOR WOOTZ SMELTING IN CENTRAL ASIA**
O.A. Papakhristu and Th. Rehren 69
- 2.3 **ARCHAEOMETRIC STUDY OF ROMAN KILNS IN THE "MUTINA" REGION, PO VALLEY (NORTHERN ITALY)**
M. Bertolani, N. Giordani and A.G. Loschi Ghittoni 75
- 2.4 **POTTERY KILN AT TELL HAZNA I AND ITS POSITION IN KILN EVOLUTION. THE CERAMICS FROM THE KILN**
Y.B. Tsetlin 85
- 2.5 **ROLE OF EXPERIMENT IN RECONSTRUCTION OF THE FATYANOVO POTTERY TECHNOLOGY**
H.V. Volkova 95

3. Ceramics from the Aegean

- 3.1 **NEOLITHIC COOKING VESSELS FROM DIKILI TASH (EASTERN MACEDONIA, GREECE) : A TECHNOLOGICAL AND FUNCTIONAL APPROACH**
Z. Tsirtsoni and P. Youni 103
- 3.2 **OBSDIAN AS TEMPER IN YALI, GREECE, NEOLITHIC POTTERY**
S. Katsarou, A. Sampson and E. Dimou 111
- 3.3 **MIDDLE BRONZE AGE CERAMIC PRODUCTION IN CENTRAL AND SOUTHERN MAINLAND GREECE: THE DESIGN OF A REGIONAL PETROGRAPHIC STUDY**
I.K. Whitbread, E. Kiriati and T. Tartaron 121
- 3.4 **TECHNOLOGIES OF MIDDLE MINOAN POLYCHROME POTTERY: TRADITIONS OF PASTE, DECORATION AND FIRING**
E.W. Faber, V. Kilikoglou, P.M. Day and D.E. Wilson 129
- 3.5 **A COMPLETE CHEMICAL GROUPING OF THE PERLMAN/ASARO NEUTRON ACTIVATION ANALYSIS DATABANK ON MYCENAEAN AND MINOAN POTTERY**
A. Hein, Th. Beier and H. Mommsen 143
- 3.6 **SOME COMMENTS ON THE PRODUCTION AND THE DIFFUSION OF IVTH C. B.C. CERAMICS IN THASOS AND SEVERAL SITES IN NORTHERN GREECE**
F. Blondé and M. Picon 151
- 3.7 **WORKSHOP REFERENCES AND CLAY SURVEYING IN SAMOTHRACE: AN APPLICATION TO THE STUDY OF THE ORIGIN OF SOME CERAMIC GROUPS**
C. Karadima, D. Matsas, F. Blondé and M. Picon 157

3.8	TIN-FOILED CERAMICS FROM MACEDONIA Z. Kotitsa, C.-I. Adudumalli and M. Chiaradia	163
4. Ceramics from Italy		
4.1	CONNECTIONS BETWEEN THE AEGEAN AND ITALY IN THE LATER BRONZE AGE: THE CERAMIC EVIDENCE R.E. Jones, S.T. Levi and L. Vagnetti	171
4.2	THE INTERPRETATION OF THE COMPLEX FABRICS OF BRONZE AGE POTTERIES FROM IMOLA (ITALY) M.L. Amadori, B. Fabbri and M. Pacciarelli	185
4.3	PROVENANCE AND TECHNOLOGY IN THE COMPOSITION OF "FIGULINA" AND "IMPASTO" POTTERY FROM MADONNA DI RIPALTA AND COPPA NEVIGATA (FOGGIA-ITALY) S.T. Levi, F. Fratini and E. Pecchioni	195
4.4	CERAMIC WORKSHOPS IN WESTERN SICILY: SOLUNTO AND MOZIA (VII-III BC): A FIRST APPROACH THROUGH RAW MATERIALS, FABRIC AND CHEMICAL COMPOSITION OF CERAMIC ARTEFACTS R. Alaimo, C. Greco, I. Iliopoulos and G. Montana	207
4.5	ARCHAEOMETRIC RESULTS AND ARCHAEOLOGICAL PROBLEMS OF THE POTTERY OF THE ARCHAEOLOGICAL AREA OF MESSINA (SICILY) G. Barone, S. Iopollo, G. Puglisi and G. Tigano	219
4.6	ARCHAEOMETRIC STUDY OF ANCIENT POTTERY OF ASSORO (ENNA, SICILY) G. Barone, S. Iopollo and G. Puglisi	227
4.7	COARSE WARE OF THE PO VALLEY: A PROPOSED METHODOLOGY FOR THE ARCHAEOMETRIC STUDY OF CERAMICS OF THE ROMAN AGE OF MUTINA (MODENA, ITALY) C. Corti, N. Giordani, A.G. Loschi Ghittoni and A. Medici	233
4.8	THE 13TH-14TH CENTURY VENETIAN CERAMIC PRODUCTION OF "GRAFFITA A SPIRALE-CERCHIO", "GRAFFITA S. BARTOLO" AND GLAZED CERAMIC: A NEW REFERENCE GROUP AND AN ATTRIBUTION A. Mignucci	245
5. Ceramics from the Iberian Peninsula and West Mediterranean Studies		
5.1	PROVENANCE AND TECHNOLOGY OF PRE-HISTORIC POTTERY FROM Fornos de Algodres (Portugal): The Fraga da Pena Archaeological Site M.I. Dias, M.I. Prudencio, A.C. Valera, M.A. Sequeira Braga and M.A. Gouveia	253
5.2.i	POTTERY PRODUCTION IN BRONZE AGE CATALONIA: THE CASE OF PIXARELLES CAVE R. Alvarez Arza, M. Catapotis, M.A. Cau Ontiveros, P.M. Day and A.M. Rauret i Dalmau	265
5.3	ROMAN AMPHORAE PRODUCTION IN BAETULO (BADALONA, CATALONIA): EVIDENCE OF PASCUAL 1 J. Buxeda i Garrigós, M. Comas i Solà, J.M. Gurt i Esparraguera	277
5.4	A REVIEW OF THE ARCHAEOMETRIC STUDIES OF WESTERN MEDITERRANEAN TERRA SIGILLATA FROM THE FIRST CENTURY BC TO THE SECOND CENTURY AD: STATE OF ART, LIMITATIONS AND POTENTIAL M. Madrid Fernandez and J. Buxeda i Garrigós	287
6. Ceramics from Central Europe		
6.1	GALLO-ROMAN POTTERY FROM KILNS IN OBERWINTERTHUR (NE SWITZERLAND): TWO REFERENCE GROUPS G. Thierrin-Michael, A. Zanco and G. Galetti	299
6.2	PETROLOGICAL INVESTIGATION OF BRONZE AND IRON AGE CERAMICS FROM WEST HUNGARY: VASKERESZTES, VELEM, SÉ, GÓR K. Gherdán, Gy. Szakmány, T. Weiszbürg and G. Ilon	305
6.3	INTEGRATING TYPOLOGICAL AND PHYSICO-CHEMICAL APPROACHES TO EXAMINE THE POTTER'S CHOICES: A CASE FROM BRONZE AGE HUNGARY K. Michelaki, L. Minc and J. O'Shea	313

7. Ceramics from Anatolia and the East

- 7.1 **LATE ROMAN C WARE IN EPHEOS THE SIGNIFICANCE OF IMPORTED AND LOCAL PRODUCTION BY PETROLOGICAL AND MINERALOGICAL METHODS**
S. Ladstätter and R. Sauer 323
- 7.2 **AN AUGUSTAN POTTERY WORKSHOP AT SAGALASSOS**
J. Poblome, P. Degryse, W. Viaene and M. Waelkens 335
- 7.3.i **NABADA POTTERS: MASTERS IN CLAY PREPARATION R JUST PLAIN CLAY IMPORTERS?**
T. Broekmans, A. Adriaens and K. van Lerberghe 343
- 7.4 **MATERIALS AND TECHNIQUES OF THE CERAMIC WALL FACINGS IN THE TIMURID NECROPOLIS OF SHAHI ZINDA (SAMARKAND, UZBEKISTAN),**
B. Fabbri, S. Gualtieri and C. Mingazzini 351

8. New Techniques

- 8.1 **POTTERY MANUFACTURE IN ROMAN GALILEE: DISTINGUISHING SIMILAR PROVENANCE GROUPS USING HIGH-PRECISION X-RAY FLUORESCENCE AND INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS**
D. Adan-Bayewitz, F. Asaro, R.D. Giauque, M. Wieder, I. Shaked, D. Avshalom-Gorni and D. Gan 361
- 8.2 **RAMAN MICROSCOPY: A SUITABLE TOOL IN PHASE ANALYSIS**
A. Perardi, A. Zoppi, L. Ruatta and P. Davit 371
- 8.3 **APPLICATIONS OF SYNCHROTRON RADIATION TO ARCHAEOLOGICAL CERAMICS**
E. Pantos, C.C. Tang, E.J. MacLean1, M.A. Roberts, B.M. Murphy, S.P. Collins, K.C. Cheung, R.W. Strange, L.M. Murphy, M.Z. Papiz, S.E. Girdwood, P.J. Rizkallah, D.T. Clarke, G.F. Clark, M.J. Tobin, S.L. Colston, A.C. Jupe, M.G. Zhilin, K. Prag and A.J.N.W. Prag 377
- 8.4 **A NEW APPROACH IN THE ANALYSIS OF ORGANIC TRACE COMPONENTS IN CERAMICS**
J. Schram and S. Wolf 385
- 8.5 **MAGNETOMINERALOGY OF ARCHAEO-MAGNETIC MATERIALS FROM N.GREECE**
D. Kondopoulou and V. Spatharas 389