

DELAINE, J. / S. CAMPOREALE / A. PIZZO, EDS.: ARQUEOLOGIA DE LA CONSTRUCCION V: MAN-MADE MATERIALS, ENGINEERING AND INFRASTRUCTURE

J. DeLaine & al.: Introduction

I. Concrete Technology and Use

M. D. Jackson: Technological confidence in late republican and imperial era roman architectural and maritime concrete construction

J. Bonetto & al.: L'uso delle polveri pozzolaniche nei grandi cantieri della Gallia Cisalpina durante l'età romana repubblicana: i casi di Aquileia e Ravenna

J. W. Murgatroud: Liime mortar production in Ostia: material analysis of mortar from the hadrianic period

II. Structural and Constructional Uses of Metal

D. Heinzelmann / M. Heinzelmann: The bronze truss of the portico of the Pantheon in Rome

C. M. Amici: «Armored» columns in the roman imperial period

III. Production, Supply and Use of Brick and Tile

P. Mills: The social life of tile in the roman world

I. M. Betts: Ceramic building material: production, supply and use in roman London

A. G. Gazenbeek: *Tegula mammatae* or *lateres*? On the presence and use of *tegulae mammatae* in the delta of the Rhine

T. Clerbaut: The end of the *tegulae mammatae*? A review on their name, function(ality) and presence in the roman north

IV. Production, Supply and Use of Mud-Brick and *Pisé de terre*

B. Russell / E. Fentress: Mud brick and *pisé de terre* between punic and roman

B. Clément: L'industrie de la brique crue dans la *colonia Lugdunum*. Typologie, approvisionnement et organisation de la production

V. Lifting Machines in Theory and Practice

D. Keenan-Jones & al.: Taking a bearing on hero's anti-crane and its un-windlass: the relationship between Hero of Alexandria's mobile automaton and greco-roman construction machinery, artillery and water-lifting machines

G. Martines & al.: Lifting blocks, 1st-5th century AD: the inclined plane

P. Ducret: The reestoration of the columnws of the *templum Castoris* during Verres' praetorship: the *machina* and organisation of the building site

VI. Practical Solutions to Engineering Problems

C. Previato: Costruire in terreni paludosi: sistemi di fondazione e bonifica in uso in età romana in Italia settentrionale fra tradizione e innovazione

P. Vitti: Facing structural problems in ancient times. A sstructural assessment during the construction of the Mausoleum of Hadrian

VII. Infrastructure and Organisation of Construction

A. Coutelas / D. Hourcade: Les techniques et les étapes de la construction des salles de soutènement des thermes de Longeas (Chassenon, France)

A. Dell'Acqua: Tracce di cantiere dall'area del *Capitolium* di Brescia: evidenze archeologiche e materiali dai recenti scavi

B. Emme / A. Öztürdk: The 'Lower Agora' of Pergamon. The organisation of a major building site in roman Asia Minor

VIII. The Organisation of Construction in Republican and Pre-Republican Italy

D. Maschek: Quantifying monumentality in a time of crisis. Building materials, labour force and building costs in late republican central Italy

P. S. Lulof: Networks and workshops. Construction of temples at the dawn of the roman republic

L. C. Lancaster: Conclusions