

Table of contents

PREFACE	5
<i>Harena sine calce: Building Disasters, Incompetent Architects, and Construction Fraud in Ancient Rome</i>	9
<i>John Peter Oleson</i>	
Beyond the Eternal City: Roman Concrete in Global Perspective	28
<i>John R. Hale</i>	
Cementitious Materials of the Ancient World.....	35
<i>Linn W. Hobbs – Ruth Siddall</i>	
The Use of Lightweight Concrete in Rome, Cilicia, and Tunisia.....	60
<i>Lynne C. Lancaster</i>	
Archaeological, Structural, and Compositional Observations of the Concrete Architecture of the Basilica Ulpia and Trajan's Forum	73
<i>Elisabetta Bianchi – Philip Brune – Marie Jackson – Fabrizio Marra – Roberto Meneghini</i>	
Numerical Simulation of the Mechanical Behavior of Opus Caementicium: Opportunities and Challenges	96
<i>Philip Brune – Renato Perucchio</i>	
Roman Hydraulic Concrete and the Roman Maritime Concrete Study (ROMACONS): A Summary of Recent Fieldwork 2005-2007	109
<i>Robert L. Hohlfelder – Christopher J. Brandon – John P. Oleson</i>	
Roman Formwork Used for Underwater Concrete Construction	121
<i>Christopher J. Brandon</i>	
The Selection and Use of Lime Mortars on the Building Sites of Roman Gaul.....	139
<i>Arnaud Coutelas</i>	
From Kitchen to Bathhouse: the Use of Waste Ceramics as Pozzolanic Additives in Roman Mortars	152
<i>Ruth Siddall</i>	
Military Building Techniques in <i>Mauretania Tingitana</i> : the Use of Mortar and Rubble at <i>Thamusida</i> (Sidi Ali ben Ahmed, Morocco).....	169
<i>Stefano Camporeale</i>	
Mortar Dating and Roman Pozzolana, Results and Interpretations	187
<i>Åsa Ringbom – Jan Heinemeier – Alf Lindroos – Fiona Brock</i>	
¹⁴ C Dating of Roman Mortars – Preliminary Tests Using Diluted Hydrochloric Acid Injected in Batches	209
<i>Gregory Hodgins – Alf Lindroos – Åsa Ringbom – Jan Heinemeier – Fiona Brock</i>	

Problems in Radiocarbon Dating of Roman Pozzolana Mortars	214
<i>Alf Lindroos – Jan Heinemeier – Åsa Ringbom – Fiona Brock – Pia Sonck-Koota – Miia Pehkonen – Juhani Suksi</i>	
AMS Radiocarbon Dating of Lime-Plaster from the Painted House at Petra, South Jordan	231
<i>Khaled Al-Bashaireh – Gregory W. L. Hodgins</i>	
A Comparison of Dating Techniques at Torre de Palma, Portugal: Mortars and Ceramics	242
<i>Maia M. Langley – Stephanie J. Maloney – Åsa Ringbom – Jan Heinemeier – Alf Lindroos</i>	
Participants of the Proceedings	257