

5th International Workshop on the Archaeology of Roman Construction: Arqueología de la Construcción V

Man-made materials, engineering and infrastructure

11-12 April 2015

University of Oxford, Ioannou Centre for Classical and Byzantine Studies, Oxford

PROVISIONAL programme

Saturday: Man-made materials

9.15 Welcome and Introduction (DeLaine)

9.25 Presentation of *Arqueología de la Construcción IV* (Camporeale, Bonetto)
Presentation of Laterizi project and forthcoming publication (Bukowiecki, Volpe)

Session 1a: Concrete technology and use

9.40 Marie Jackson, Technological confidence in Roman architectural and maritime concrete production

10.00 Jacopo Bonetto *et al*, I grandi cantieri della Gallia Cisalpina in età repubblicana e l'impiego delle polveri pozzolaniche

10.20 Jennifer Murgatroyd, Lime mortar production in Ostia: Material analysis of mortar from the Hadrianic period

10.40 Discussion

11.00 Coffee and posters

Session 1b: Structural and constructional uses of metal

11.40 Dorothee Heinzelmann, The bronze truss of the Pantheon portico

12.00 Carla Amici, Armoured columns in Roman imperial times

12.20 Discussion

13.00 Lunch

Session 2a: Production, supply and use of brick and tile

14.20 Phil Mills, Social life of tile in the Roman world

14.40 Ian Betts, Ceramic building materials: production, supply and use in Roman London

15.00 Gus Gazenbeek and Tim Clerbaut, [The end of *tegulae mammatae* in the Roman North?]

15.20 Discussion

15.40 Coffee and posters

Session 2b: Production, supply and use of mud-brick and pisé

16.20 Lisa Fentress and Ben Russell, Mud brick and *pisé de terre* between Punic and Roman North Africa

16.40 Benjamin Clement, The industry of mud-bricks in the *colonia Lugdunum* (Lyon) : Typology, supply and organization of the production

17.00 Discussion

17.40 Reception

19.30 Workshop Dinner, Wolfson Collge

Sunday: Engineering, machines and infrastructure

Session 3a: Lifting machines in theory and practice

- 9.00 Duncan Keenan-Jones *et al*, [Automata and construction machines]
9.20 Giangiacomo Martines *et al*, Lifting blocks, 1st -5th c AD: the inclined plane
9.40 Pauline Ducret, The restoration of the pillars of the *templum Castoris* during Verres' praetorship: *machina* and the organisation of the building site
10.00 Discussion

10.20 *Coffee and posters*

Session 3b: Practical solutions to engineering problems

- 11.00 Caterina Previato, Building in wetland: foundation systems in Northern Italy
11.20 Paolo Vitti, Facing structural problems in Roman times: structural assessment during the construction of the Mausoleum of Hadrian
11.40 Discussion

12.20 *Lunch*

Session 4a: Infrastructure and organisation of construction

- 13.40 Arnaud Coutelas *et al*, Techniques and stages in the construction of vaulted basement rooms of the Longeas baths (Chassenon, France)
13.20 Antonio dell'Acqua, Traces of the building site from the Capitolium of Brescia
14.00 Arzu Öztürk/Burkhard Emme: The 'Lower Agora' of Pergamon: traditions and innovations in building technology in Roman Asia Minor
14.20 Discussion

14.40 *Coffee and posters*

Session 4b: The organisation of construction in Republican and pre-Republican Italy

- 15.20 Dominik Maschek, Quantifying monumentality in a time of crisis. Building materials, labor force and building costs in Late Republican central Italy.
15.40 Patricia Lulof, The construction of temples at the dawn of the Republic
16.00 Discussion

16.40 Lynne Lancaster, Concluding remarks

17.00 Close