

# 'OUT OF EARTH II' 1995

## CONTENTS

Introduction	Linda Watson (C.E.A. University of Plymouth)	1
Earthen Architecture and Modernity	Hugo Houben (CRATerre, Grenoble, France)	2
Cob Buildings in Devon	Peter Child (Devon County Conservation Officer)	10
The Geological Properties of Earth Material from Centre Devon in to its suitability for Building in 'Cob'	Rex Harries (C.E.A. University of Plymouth)	14
The Development of an Inventory for the Study of Earth Buildings	Maggie Ford Linda Watson (C.E.A. University of Plymouth)	22
Inventory of Earthen Architecture in Czech Republic	Zuzana Syrova Jiri Syrova	25
Reconstruction of Earthen Buildings	Ivana Zabickova (Technical University, Brno)	46
Works of the Students of the Faculty of Architecture of the Technical University of Brno in the Field of the Earthen Structures	Ivana Zabickova (Technical University, Brno)	52
The Reconstruction of Earth Buildings in the Hungarian Open Air Museum at Szentendre	Dr Miklos Cseri Miklos Buras (Hungarian Folk Museum)	54
The Engineering Performance of Cob	Bob Saxton Kathryn Coventry (University of Plymouth)	65
Aspects of the Composite Behaviour of Cob	Matthew Greer David Short (University of Plymouth)	78
The Reasoning Behind the Investigation into the Thermal Properties of Cob Walling	Steven Goodhew (University of Plymouth)	87

Performance Consideration for the use of Stabilised Soil Building Blocks with Cob the United Kingdom	Dr David Webb (Chartered Engineer)	90
Dampness in Cob Walls	Peter Trotman (Building Research Establishment)	118
Some Common Faults in Cob Walls	Larry Keefe (Secretary of DEBA)	126
Traditional Crafts Updated Thatching and Cob	Tony Ley (Building Inspector, North Devon D.C.)	129
The Ultimate Green Construction?	Alan R. Stokes	143
Common Structural Defects and Failures in Cob Buildings and their Diagnosis and Repair	Barry Honeysett (Structural Engineer)	165
Conservation of Delaminated Earth Walls	John Hurd (Secretary, ICOMOS(UK)ESC)	178
Repair Techniques in the Test Valley: Dealing with Structural Cracks	Gordon Pearson (Chairman, ICOMOS(UK)ESC)	182
Wattle and Daub Panels: A Local View	Jacky Wilkinson (South Norfolk District Council)	187
Earth as a Structural and Constructional Material in the Hebridean Blackhouse	Bruce Walker Christopher McGregor (Historic Scotland)	190
The Church House Inn, Stokeinteignhead	Paul Richold (Architect in private practice)	197
Earth as a Building Material in Northern Ireland	Dick Oram (DOE Northern Ireland)	203
The Mudwall School and School House at Cottown, St Madoes, Perthshire	Christopher McGregor Bruce Walker (Historic Scotland)	204
The Bowhill Cob Report	Ray Harrison (Conservation Officer, Thanet District Council)	208
First Steps Towards Saving Earth Buildings in East Anglia	Michael Wingate (Architect in private practice)	212

St Michaels Barn and the Hideaway	Dirk Bouwens (Chartered Surveyor)	214
Conservation Practice in France	Myriam Olivier Ali Mesbah (ENTPE, France)	229
ICCROM-CRATerre - EAG Gaia Project	Jeanne Marie Teutonico (English Heritage)	238
Centre for Earthen Architecture University of Plymouth (CEAUP)	Linda Watson (Plymouth School of Architecture)	249
Portuguese Training Initiative, Serpa	Fernando Pinto (D.G.E.M.N. Portugal)	251
Recent Works on the Rammed Earth Inheritance Pise Terre D'Avenir	Jacky Jeannet Bruno Pignal Pascal Scarato	255
Cob - A Methodology for Repair	Jonathan Rhind	263

the survival of our earthen inheritance, as identified from the previous conference recommendations.

It is very fortunate that so many speakers are delivering papers which will again allow the audience to share the most up to date information and allow this work to be recognised formally through this publication.

The conference begins with an overview of the global context of earth building followed by the history of cob in the region. To better understand the local inheritance through scholarly study methodology for compiling an earthen inventory will be presented. Five colleagues from Eastern Europe will then complete the session with papers related to their countries tradition.

Understanding the performance of the material is vital to good conservation practice and we are fortunate that academics are using current technology to this end. A series of papers on the morning of the second day will chart this developing knowledge. Growing too is the understanding as to why earth buildings might cause us concern in certain circumstances, so this forms the subject of the latter half of the day, together with repair techniques.

The final day is an opportunity to enjoy case studies which demonstrate good practice in the care of the material. After lunch key organisations will give an update on their recent activities to be followed by a series of workshops to agree future initiatives. The recommendations will help guide the next stage of the British Earth Movement.