

Table of contents

Preface	ix
Organization and committees	xi
Conference support	xv
<i>Plenary lectures</i>	
Continuity of French rammed earth architecture <i>H. Guillaud, S. Moriset & D. Gandreau</i>	3
<i>Lectures</i>	
A web map for Italian earthen architecture <i>M. Achenza & C. Cocco</i>	11
The documentation and analysis of the earthen architecture in Saudi Arabia <i>A.A. Alaidarous</i>	17
Earth-based architecture linked to charcoal making in north Aragon mountain ranges <i>Q. Angulo, E. Monesma & A. Quiterio</i>	23
A pentagonal block home <i>G. Barbeta & E. Navarrete</i>	31
Thermal improvement of rammed earth buildings by the inclusion of natural cork <i>G. Barbeta & F.X. Massó Ros</i>	37
36 <i>Thankas</i> to promote the conservation of the Ladakhi earthen heritage <i>M. Bertagnin, D.D. Antoni, A. Skedzuhn-Safir, M. Oeter & H. Vets</i>	43
The first Italian <i>Rammed earth restoration guidelines</i> <i>G. Bollini & I. Parodi</i>	49
Jute fabric to improve the mechanical properties of rammed earth constructions <i>S. Briccoli, M. Fagone, F. Loccarini & G. Ranocchiali</i>	55
Practices and demands in retrofitting of vernacular rammed earth houses <i>A. Buzo, H.J. Cho, L. Genis & G. Paccoud</i>	61
Latest trends in rammed earth restoration in western Andalucía <i>J. Canivell & A. Graciani</i>	67
Albacete fairground: Conservation of a singular rammed earth building <i>C. Caro</i>	75
Restoration of the Rojano Tower in Lorca (Murcia, Spain) <i>P.E. Collado</i>	83
Saint Anthony hermitage: An example of earth rammed wall in a reconquest church <i>L. Cortés, S. Tormo, R. Marín & J. Pardo</i>	89
Ceramic connectors & culture connection <i>V. Cristini & J.R. Ruiz-Checa</i>	95

A parameterization of brick-reinforced rammed earth in Valencian Region (Spain) <i>V. Cristini, F. Martella, C. Mileto & F. Vegas</i>	101
Transdisciplinarity in rammed earth construction for contemporary practice <i>M. Dabaieh & M. Sakr</i>	107
From refined to popular architecture. Mixed rammed earth walls with adobe reinforcements <i>M. del Río & F. Jové</i>	115
C.A.S.A.—Central American Sustainable Architecture <i>L. Di Virgilio & S. Parlato</i>	121
Stratigraphic analysis of earthen architecture: The mosque of M'Hamid El Ghizlane <i>O. Domínguez, A. García & C. Moreno</i>	127
Air lime-earth blended mortars—assessment on fresh state and workability <i>P. Faria, I. Dias, N. Jamú & V. Silva</i>	133
Earthen construction in Alto Arnoia river valley, Galicia <i>A. Fernández</i>	139
The vernacular earthen architecture near Turin (Piedmont, Italy) <i>F. Fratini, S. Rescic, C. Riminesi, M. Mattone, L. Rovero & U. Tonietti</i>	145
Evaluation of seismic behaviour of rammed earth structures <i>R. Gallego & I. Arto</i>	151
Restoration of monumental rammed earth buildings in Spain in the last decade according to the 1% Cultural Program <i>L. García Soriano, C. Mileto, F. Vegas & V. La Spina</i>	157
Early modern period adobe in Sicily: Recent finds <i>M.L. Germanà</i>	163
The Ksar Sidi Bou Abdellah in Mdagra Oasis, Morocco <i>T. Gil & P. Rodríguez-Navarro</i>	169
Puzzolanitic materials for restoration of earthen architecture <i>L.F. Guerrero, F.J. Soria & R.S. Roux</i>	175
The presaharian settlements of the Ziban: The persistence of Roman elements in native Islamic dwelling <i>S. Haoui</i>	181
Earthen architecture's on seismic areas: Costa Rica's case <i>I. Hernández</i>	187
Rammed earth consolidation techniques: Restoration of Talamanca del Jarama city wall <i>E. Herrero</i>	193
From stone to rammed earth: The open plan architecture in Sinyent Farm (Valencia, Spain) <i>F. Iborra & I. Matoses</i>	199
Contemporary rammed earth construction. Alexandre Bastos—creativity and maturity <i>F. Jorge</i>	205
The fitness of earthen architecture <i>C. Kraus</i>	209
Compressive strength of blood stabilized earthen architecture <i>C. Kraus, D. Hirmas & J. Roberts</i>	217
Location and conservation of rammed earth in Chelva (Spain) <i>M.Á. Lloria, J.A. Cantó & S.D. Lozano</i>	221

The walls construction system in Muza Tower (Benifaio, Spain) <i>V. López, S. Tormo & T.M. Pellicer</i>	227
Design in Jericho: Contemporary earthen architecture and local cultural landscape <i>F.M. Lorusso & S. Mecca</i>	233
The <i>karsheef</i> : Problems of cultural and environmental conservation <i>G. Martines</i>	239
Characterization of external renderings of rammed earth constructions in the Algarve <i>L. Mateus, J. de Brito & M.R. Veiga</i>	245
Masked defensive architecture. El portal de Massalavés <i>I. Matoses</i>	251
Sequential organization for self-built earthen construction site <i>S. Mecca & M. Achilli</i>	257
Restoration of rammed-earth monumental buildings 1980–2011, the Valencian Community (Spain) <i>M. Mestre, L. García Soriano, M. Diodato & V. La Spina</i>	263
Conservation of earthen architecture in the United States of America: Some case studies <i>C. Mileto & F. Vegas</i>	269
Innovation through a public construction using rammed earth in Alsace <i>L. Piccon & A. Mesbah</i>	277
The other architecture: From natural caves to excavated housing <i>B.P. García & J.C. Pérez Sánchez</i>	283
First considerations for an adobes mensio-chronology <i>D. Pittaluga & R. Pagella</i>	287
T.E.R.R.E.—Technological Experiments and Research on Earth buildings <i>S. Pollak & A. Fasoli</i>	293
An itinerary through Sardinian earth built villages <i>E. Pusceddu</i>	299
Light Earth Designs: Natural material, natural structure <i>M.H. Ramage, T. Hall & P. Rich</i>	305
Experimental rammed earth prototypes in Mediterranean climate <i>L. Rincón, S. Serrano, L.F. Cabeza, B. González, A. Navarro & M. Bosch</i>	311
Inventory of Outat valley <i>ksour</i> in Morocco <i>P. Rodríguez-Navarro & T. Gil</i>	317
Knowledge exchange for innovation in the vernacular rammed earth technique, Peru <i>S. Rodríguez-Larrain, J. Vargas-Neumann, S. Onnis & R. Correa</i>	323
The Jiayuguan Fortress: Structural consistency and safeguarding programs <i>L. Rovero & U. Tonietti</i>	327
Guidelines elaboration for a self-building manual with earth in Chiapas State, Mexico <i>K. Sánchez</i>	333
Clay boards and panels—an innovative earth building product for drywall construction <i>H. Schroeder</i>	339
Earth as a construction material conserving Addiriyah of Saudi Arabia <i>M.S. Zami</i>	345

Architecture and landscape in Sharq al-Andalus. The conservation of an Islamic <i>qarya</i> <i>A. Soler, R. Soler & E. Paredes</i>	351
Study of the Pre-Hispanic Road located in the PUCP Campus, Lima, Peru <i>J. Vargas-Neumann, F. Jonnard, S.G. Zacarias & J.M. Robles</i>	357
Rammed earth and prestige in Rincón's region, the Abbey House in Castielfabib, Spain <i>Á. Vázquez-Esparza</i>	361
Contributions of traditional façades to the thermal comfort <i>J. Vercher, F. Cubel, C. Lerma, Á. Mas & E. Gil</i>	367
Author index	373