

SOSTIERRA2017 PRELIMINARY PROGRAMME

Wednesday 13th September 2017

- 14.00 - 19.00h – Early reception. Arrival of conference participants and distribution of documentation
- 14.00 - 19.00h – Showroom (free)
- 16.00 – 19.00h – Workshops (with inscription fees)

Thursday 14th September 2017

SALA A. (Simultaneous translation English-Spanish-English).

- 8.30 – 9.00h – Arrival of conference participants and distribution of documentation
- 9.00 – 9.30h – Opening session
- 9.30-10.30h – Plenary lectures
 - The Geography of Earth Building. *Miles Lewis*
 - Markers of earthen construction modern revival. *Hubert Guillaud*
- 10.30 – 11.00h – Coffee break
- 11.00 – 14.00h – Session 1 (contemporary presentations SALA A y B) T1

SALA A. (Simultaneous translation English-Spanish-English). Moderator: Maddalena Achenza

- Adaptation of earth construction in Hadhramaut, Yemen - study and analysis.
A. A. Alaidarous
- Stone, clay and turf in architectural construction.
B. Juvanec
- The use of natural materials and ancient building techniques: the case for rammed earth construction.
E.L. Wagner
- Thinking about historic resources: a proposed guidance document.
I.R. Stiegler, FAIA & R. McManus, MHP, M. Achenza, M. al-Aidaroos, M. Beas, J. Bell, L. Cooke, M. Costi de Castrillo, A. Crosby, B. Esquivel, J. Hurd, B. Işık, P. Jerome, M. Lambert, T. Leiermann, C. Mileto, G. Shemdin, J. Vargas, & F. Vegas
- Earthen vernacular architecture in Cuneo's territories (Piedmont, Italy).
F. Fratini, S. Rescic, M. Mattone & L. Rovero
- Thermal performance and comfort of vernacular earthen buildings in Egypt and Portugal.
J. Fernandes, M. Dabaieh, R. Mateus, S. M. Silva & L. Bragança, H. Gervásio
- Transforming Kasena houses and indigenous building technology in Burkina Faso.
H. Kobayashi, T. Shimizu, M. Ito, S. Nakao

- Historic cob structures in Moravia.

Z. Syrová & J. Syrový

- Comparative evolution of vernacular mudbrick houses in the Nile Delta and Qurna (Luxor).

M. Correas Amador & C. Simpson

- Material and typological characterization of the tighremt n'Aït Makhat (Morocco).

J.M. López-Osorio & S. Batani Sembak, L. Martínez Bernal

- Vernacular houses of Stratonikeia: Architectural typology, materials and techniques.

O.B. Avsar & U.D. Genc

- Vernacular architecture in El Khorbat, Morocco. Evolution of the Igremes.

T. Gil Piqueras, P. Rodríguez-Navarro & A. Pérez Vila

SALA B. (lectures without translation). Moderator:

- Mid-century earthen architecture in Aotearoa New Zealand – a new vernacular?.

M. Hall

- Mexico's central area earthen architecture. Rammed earth construction: use and technique.

D. Romero Olgún

- Scottish earth building materials.

M. Saez-Martinez & A. Leslie

- Mestizo and hybrid typologies. Vernacular rural housing in Colombia.

Y. Pulgarín

- Ksar Taghit: earthen architecture between authenticity and changes

T. Bachir Cherif & M. Aiche

- Tapiabrick: a digital platform on brick-supplemented rammed earth walls.

V. Cristini & J.R. Ruiz Checa

- Earthen heritage in the USA: constructive techniques and geographical approximation.

C. Mileto & F. Vegas López-Manzanares

- A sustainable repair process for heritage buildings in historic Jeddah.

A. A. Adas & M.Y. Alaidaroos

- Interpretation of sustainable desert architecture in Ghadames City, Libya.

A. Eltrapolsi, H. Altan

- Domestic wineries in the Urz-Vidriales countryside (Spain).

M. Ruiz-Bedia & A. Herrera Peral

- Earthen construction in Ourense, Galicia (Spain).

A. Fernández Palicio

- Earth construction in Prehistoric settlements of southern Portugal.

P. Bruno

14.00 – 15.30h – Lunch

15.30 – 17.30h – Session 2 (contemporary presentations SALA A y B) T1+T2

SALA A. (Simultaneous translation English-Spanish-English). Moderator: Fernando Vela Cossío

- Vernacular construction techniques and earth employ in Arg-e-Bam (Iran).

C. Cacciavillani, S. Rinaldi & M. Severini

- Santal mud dwellings: materials, construction and space typology.

I. Ahmed

- The systemic approach in the intervention on earthen architecture.

J.L. González Moreno-Navarro, M. Genís Vinyals, B. Onecha Pérez & A. Casals Balagueré

- Kasbah Taourirt: Conserving Earthen Heritage in Morocco.

B. Marcus & C. Cancino & M. Boussalh

- Thermal assessment of the behavior of retrofitted rammed earth in central Catalonia.

G. Barbata, M.M. Pareta, M. A. Chamorro & M. Sabata

- Maps, actors & local policies around earth buildings in Auvergne Rhône-Alpes.

G. Paccoud, M. Chamodot, L. Génis, F. Gutiérrez, E. Mille & B. Rakotomamonjy, J. Avons-Bariot & D. Studer

- Thermal insulation for a sustainable rehabilitation of traditional buildings.

M. Achenza

- Investigating the Preservation of Vernacular Earthen Buildings of Louroujina (Akincilar) in North Cyprus.

R. Sabri & H. Altan

SALA B. (lectures without translation). Moderator: Gabriel Barbata Solá

- Earthen roofs in the Region of Murcia, Spain: La Azohía.

F. J. López Martínez & V. La Spina

- A study of pit houses with soil-covered roofs in a humid climate in Japan.

T. Tsukidate

- Vernacular heritage in Mendoza (Cuyo region, Argentina).

S.A. Cirvini

- Earth and gypsum: from theory to practice in Spanish vernacular architecture.

V. La Spina

- Campiña Segoviana's earthen heritage and conservation clues from Isère.

E. Sevillano Gutiérrez & E. Camarasaltas Pérez

- Using machine-dismantled cotton seed hulls in the making of light earth blocks.

A. González & S. Cabrera

- Consumption study and energy optimization of a typical Valencian house.

A. Martínez, R. Royo & S. Tormo

- Rammed earth buildings to meet Italian thermal regulation: monitoring and sample tests.

R. Pennacchio & G. Piccablotto

17.30 – 18.00h – Coffee break

18.00 – 19.30h – Session 3 (contemporary presentations SALA A y B) T2+T3

SALA A. (Simultaneous translation English-Spanish-English). Moderator: Saverio Mecca

- A pilot project, a tool for conserving the historic city of Cuenca, Ecuador.

B. Rakotomamonjy, E. Sevillano Gutiérrez, E. Carnevale

- Transformation in the Kasena's large earthen compound houses in Burkina Faso.

T. Shimizu, S. Nakao, H. Kobayashi, M. Ito

- Vernacular Change in Brazil Southeast Region.

M.A.P. Rezende & S. L. A. Braga, J. L. R. Vale, M. V. S. Peixoto

- A minus carbon eco-cycle earthen refugee shelter: a feasibility study.

M. Dabaieh

- Terra Nova - Earthen Architecture and Modernity.

F.M. Lorusso & S. Mecca

- Net Zero Energy straw bale & rammed earth design; cold climate case study.

R. Davidson

SALA B. (lectures without translation). Moderator:

- A home with roots. Construction process of an adobe contemporanean house.

P. Bel-Anzué

- A temporary pavilion as a way to experiment with mud. The case of Roly Poly.

L. Balboa Quesada & A. J. Jiménez Quesada

- Natural clay plasters: checking regulations to characterization tests.

A. González-Serrano, R. Rodríguez-García, L. Molina & M. Ponce

- A case-study project of reinterpretation of local traditional techniques.

J.R. Ruiz Checa & V. Cristini

- Hassan Fathy's humane considerations in design and the significance of New Gourna.

A. G. Abdel Tawab

- CEB Factory for seismic resistant earthen architecture design in Nepal.

F. Masso Ros

19.30 – 20.00h – Round table

Friday 15th September 2017

8.30 – 9.00h – Arrival of conference participants and distribution of documentation

9.00 – 10.45h – Session 4 (contemporary presentations SALA A y B) T4 RESTAPIA

SALA A. (Simultaneous translation English-Spanish-English). Moderator: Hubert Guillaud

- Rammed earth and formworks in Medieval fortifications in Castilla-La Mancha, Spain.

F.J. Castilla, D. Gallego, J. Molero & C. Peña & D. Sanz

- The keep of the Alcázar of Carmona (Sevilla, Spain). Materials for the restoration of rammed earth walls.

F. J. Blasco-López, J. Canivell, A. Graciani, J. J. Martín-del-Río & F. J. Alejandre

- Seismic Retrofitting Project: On-site retrofitting techniques workshops.

K. H. Wong, C. Cancino, J. C. Menendez, L. Villacorta Santamato

- Passive design principles in vernacular architecture of Castilla-La Mancha, Spain.

A.B. Serrano Lanzarote, M. Navarro Escudero, L. Ramírez Pareja & C. Mateo Cecilia

- PREFORTI Project: The Preventive Conservation of Historic Rammed-Earth.

M. L. Gutiérrez-Carrillo & I. Bestué Cardiel, J. C. Molina Gaitán, J. A. Martínez López

- Earthen architecture, appreciation and landscape: the oasis of Ferkla (Morocco).

F. Juan-Vidal & T. Gil Piqueras

- The defense of the technique of rammed earth made by Giovanni Battista Antonelli in 1560.

P. Rodríguez-Navarro

SALA B. (lectures without translation). Moderator: Fco. Javier Blasco López

- 3D Modelling for the interpretation of watchtowers between capes of San Antonio and La Nao (Alicante, Spain).

F. Juan-Vidal & P. Rodríguez-Navarro

- The Islamic wall of Mula (Spain): 3D reconstruction, restoration and musealization.

P. E. Collado Espejo, J. García León & V. La Spina, J. Fernández Del Toro

- Constructive analysis of the rammed earth walls in the Petrés Castle (Valencia, Spain).

F. Vegas López-Manzanares, C. Mileto, F. J. Gómez-Patrocínio & A. Pérez Vila

- Earth in historical fortifications. Pedro de Lucuze's method.

L. Gimeno Romero, L. Cortés Meseguer & S. Tormo Esteve

- Restoration method on the southern wall of the Medieval access road to the Generalife.

I. Bestué Cardiel & F. J. López Martínez & J. C. Molina Gaitán

- The preservation of the Nubian earthen architecture.

G. Torra i Campos & I. García Alonso, M. Cressent & O. Hasabelrasoul Ahmed

- The use of lime, an example of good practices in the conservation of cultural heritage built on earth.

R. Fernández Baca Casares, M. García de Casasola Gómez, E. Ontiveros Ortega, B. Castellano Bravo & P. Santana Martín

10.45 – 11.15h – Coffee break

11.15 – 14.15h – Session 5 (contemporary presentations SALA A y B) T5 VERSUS

SALA A. (Simultaneous translation English-Spanish-English). Moderator: José Manuel López-Osorio

- Vernacular tradition and modernity. New scenarios in urban living.

R. Chimirri

- In situ monitoring and characterisation of earthen envelopes: A review.

M.A. Mellado Mascaraque & F.J. Castilla Pascual & I. Oteiza & F. Martín-Consuegra

- Understanding the vernacular heritage to design sustainable habitats in Asni, Morocco.

L. Dipasquale & D. Giorgi

- A survey of Danish earthen heritage for sustainable building.

B.T. Eybye & I. Vestergaard

- Vernacular housing and transformations at the Cordillera de Sama (Bolivia).

F. Moreno, C. Pérez de Guzmán, S. Santiago

- Local pre-industrial communities in Tuscany and the exploitation of water.

D. Olivieri

- Is it useless rubble or recyclable building material?.

B. del Cueto

- The first rammed earth wall in America. Earth in 16th-century Dominican architecture.

M. A. Sorroche Cuerva

- From vernacular to contemporary: Kilwa (Tanzania) and Albreda (The Gambia) tourist information centres.

N. Sánchez Muñoz & S. Moriset

- The Chilean adobe as a seismic vernacular technology, the study of the “Norte Chico” area.

A. Rivera Vidal

- Water-related built heritage in Campania, Italy. Knowledge for conservation of a sustainable vernacular architecture.

V. Russo, S. Pollone, G. Ceniccola, L. Romano

SALA B. (lectures without translation). Moderator: A. Begoña Serrano Lanzarote

- Balconies in traditional urban architecture through typology and solar radiation.

P. Privitera

- S. Jerónimo de Cotalba. Strategies for the preservation of the monastic complex.

J.M. Barrera Puigdollers & N. Matarredona Desantes

- Adobe vernacular heritage in Mexicali, Mexico.

D. Olvera & L. Mendoza & L. Guerrero

- Lessons of sustainability from the survey of the Valencian barraca.

Y. Hernández Navarro & P. de Dato

- The painted facades and the urban landscape of Bisceglie. Notes of history and restoration.

A. La Notte

- Study of the situation of traditional constructive techniques and materials in Spain.

C. Mileto, F. Vegas López-Manzanares, V. Cristini & M.S. García Sáez

- Conservation of vernacular architecture, the case of the old town of Nablus/ Palestine.

E.M. Amad

- Sustainable proposal for the conservation of Castillejo of Monteagudo (Murcia, Spain).

P. E. Collado Espejo & M. J. Serrano Latorre

- Contemporary earthen architecture in the northern temperate climate.

I. Vestergaard & B.T. Eybye

- Set of nine cave houses in La Algueña, Alicante (Spain). Renewal proposal.

A. Martínez Antón, G. López Patiño & V. Blanca Giménez, F. Aranda Navarro

- Characteristics of Earthen Architecture in Ağlasun.

A. V.B. Kurtulus, E. Ç. Asrav, N. Şahin Güçhan & G. Bilgin Altınöz

- When the neo-vernacular architecture inspires the contemporary conception.

S. Kersenna & S. Chaouche

14.15 – 15.45h – Lunch

15.45 – 17.30h - Session 6 (contemporary presentations SALA A y B) T6

SALA A. (Simultaneous translation English-Spanish-English). Moderator: Arturo Martínez Boquera

- Planning for acceptable contemporary earth construction in South Africa.

G. Bosman

- Low-cost adobe structures with bamboo additives and bamboo frames. Strength tests.

M. Paradiso, F. Bizzeti, E. Perria, A. Farigu, O. Lotti

- Advanced study of the mechanical properties of compressed earth block.

G. Ruiz, X.X. Zhang & L. Garijo, I. Cañas, W. A. Fouad

- Structural assessment of earthen walls using damage tests and models.

A. Alonso Durá, A. Martínez Boquera & F. J. Gómez-Patrocínio

- Seismic analysis of Portuguese adobe buildings.

L. Sarchi & R. Monteiro & H. Varum

- Experimental study of adobe walls with geogrid reinforced mud plaster.

S. Invernizzi & M. Mattone & P. Vachey & M. Gentile

- A preliminary study of CIPS as a consolidant for earthen cultural materials.

I. Loo, C. Kyi, & S. Collis, G. Price

SALA B. (lectures without translation). Moderator: Adolfo Alonso Durá

- Experimental analysis of compressive mechanical behavior of adobe masonry.

J.D. Rodríguez Mariscal & M. Solís Muñiz

- Stabilisation of earthen surfaces using carob (*Ceratonia siliqua L.*).

J. Romero, G. Barbeta

- Acoustic test on adobe and rammed earth walls.

P. Guillén Marzal

- The influence of ambient conditions into rammed earth compressive strength.

B. González-Sánchez, J.R. Rosell Amigó, A. Navarro Ezquerra

- Improved 2nd order holder. Method for heat transfer calculation for walls.

L. Soto Francés, B. Serrano Lanzarote & L. Ortega Madrigal & J.M. Pinazo Ojer

- Thermal orthophotos and vernacular architecture: surveying half-timber walls in Béjar, Spain.

M. Diodato, S. Tormo Esteve & L. Balaguer Garzón

- Schematic analysis of traditional Vietnamese houses under the influence of Han culture.

W.J. Wang

17.30 – 18.00h – Coffee break

18.00 – 19.00h – Poster Session

19.00 – 19.30h – Round table

19.30 – 20.30h – Closing Session & Awards Ceremony

22.00h – Official Closing Dinner

Saturday 16th September 2017

Technical visits

9.00 – 12.30h - Visit 1. Valencia City Center

9.00 – 18.00h - Visit 2. Gypsum in Gestalgar

9.00 – 19.00h - Visit 3. Lime in LLutxent