UNESCO Chair
Earthen Architecture,
Building Cultures and Sustainable Development
UNITWIN network

Architecture, Environment & Building Cultures (AE&CC)
CRATerre-ENSAG | International Centre of Earthen Architecture
Ecole Nationale Supérieure d’Architecture de Grenoble, France (ENSAG)

Hubert Guillaud | AE&CC-CRATerre Scientific Director, Chair Coordinator
Bakonirina Rakotomamonjy | AE&CC-CRATerre, Project Specialist
& Mariana Correia, Chairman of Escola Superior Gallaecia, Portugal
Introduction

The UNESCO Chair ‘Earthen architecture, building cultures and sustainable development’ was created at the initiative of UNESCO’s Division of Higher Education. It was inaugurated in Oct. 1998 at the School of Architecture of Grenoble, France. CRAterre-ENSAG research laboratory, as a center of excellence, leads the Chair.

General Aim

Consistent with the objectives of the UNITWIN / UNESCO Chair Program, this chair and its network contributes “to strength higher education and research capacity through transfer of knowledge and share in a spirit of international solidarity. Thus it promotes North-South, South-South and triangular cooperation, as a strategy for institutional development.”

Specific Aim

To increase worldwide, the dissemination of scientific and technical know-how on earthen architecture, in three main areas:

1. Environment, human settlements, habitat
2. Earth as a material and other eco-materials

Areas with tradition of earthen construction

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UNESCO Chair - Earthen Architecture

Location of the Chair UNESCO members - institutional partners | April 2013 © CRATerre
4 continents | 21 countries | 44 chair members
To identify key actors and resources

**UNESCO Chair - Earthen Architecture**

**MEDITERRANEAN WORKSHOP**, March 2009 | Key experts from 17 countries | Organised by:

UNICA - Univ. of Cagliary (Italy) | ESG - Escola Superior Gallaecia (Portugal) | CRATerre-ENSAGrenoble (France) | GCI - Getty Conservation Institute (USA) | UNESCO Chair of Earthen Architecture.
UNESCO Chair - Earthen Architecture

Strategy

Integrated approach

Transfer of knowledge
(Who – How)

NATIONAL PLATFORMS ➔ National associations through seminars/research/workshops/etc.

INTERDISCIPLINARY PLATFORM ➔ Different Faculties of architecture, engineering, archaeology, etc. through workshops, research & PhDs programmes.

EUROPEAN PLATFORM ➔ European Universities through funded research programmes.

TRANSREGIONAL PLATFORMS ➔ PROTERRA - Iberian-American Network through research projects, publications, workshops, SIACOT seminars | TerrAsia, Mediterra, through conferences.

INTERNATIONAL PLATFORM ➔ ICOMOS-ISCEAH - International Committee on Earthen Architectural Heritage from ICOMOS.
Strategy | target public

Transfer of knowledge

REGIONAL EXPOSITIONS / SEMINARS → Awareness: General public / regional stakeholders
NATIONAL SEMINARS → Key Actors: Municipalities & National Institutions
WORKSHOPS → General public: other professionals & researchers from other disciplines
CREDIT COURSES → University students: Grad.+MSc +PhD
REFERENCE PUBLICATIONS → Researchers: experts / PhD & Master students / interested public.
INDEX PAPERS IN JOURNALS → Interdisciplinary: Researchers & experts
POS-GRADUATE RESEARCH → Researchers: experts / PhD students
RESEARCH PROJECTS → Research Centers / Universities
TRAINING COURSES → Interested people: Master Students / etc.
Main recent achievements:

According to the activities of the UNITWIN / UNESCO Chairs, the earthen architecture Chair includes activities on **training**, **research** and **academic exchanges** and provides a framework for sharing information.

<table>
<thead>
<tr>
<th>Main activities of the Chair</th>
<th>Number of activities undertaken by the Chairholder (CRATerre-ENSAG) in 2012</th>
<th>Number of activities undertaken by UNESCO Chair members in 2012</th>
<th>Total of the production in 2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academic training</td>
<td>3 activities</td>
<td>13 activities</td>
<td>26 activities</td>
</tr>
<tr>
<td>Professional courses</td>
<td>3 Professional courses</td>
<td>33 Professional courses</td>
<td>36 Professional courses</td>
</tr>
<tr>
<td>Conferences</td>
<td>55 Interventions in conferences</td>
<td>34 Interventions in conferences</td>
<td>89 Conferences</td>
</tr>
<tr>
<td>Publications</td>
<td>152 paper publications</td>
<td>21 paper publications</td>
<td>173 paper publications</td>
</tr>
</tbody>
</table>

UNESCO’S Chair 2012 Annual Report (25% of members contributed to the report).
Main recent achievements: Academy graduation

<table>
<thead>
<tr>
<th>ACTIVITIES IN 2012</th>
<th>Nº of People</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academic activities</td>
<td>477</td>
</tr>
<tr>
<td>Africa</td>
<td>213</td>
</tr>
<tr>
<td>America</td>
<td>138</td>
</tr>
<tr>
<td>Europe</td>
<td>126</td>
</tr>
<tr>
<td><strong>General total</strong></td>
<td><strong>954</strong></td>
</tr>
</tbody>
</table>

UNESCO’S Chair 2012 Annual Report (25% of members contributed to the report).

- Master, Postmaster, PHD
Main recent achievements: Academic & Professional Training

Distribution map of the Post Master graduated students, from 1984 to 2011 © CRATerre

Post master « Architecture de terre » ENSAG, Grenoble, France, & its Network of 300 students from 54 countries.
Main recent achievements: Research + Conferences

- **Research** | VERSUS: Vernacular heritage for Sustainable Architecture + Terra Incognita
- **Experts meetings** | Disaster Resistant building culture: the ways forward + TerraEducation 2010
- **Conferences** | WHEAP-UNESCO (Dec.2012) + TERRA 2012 World Conference (April 2012)
Main recent achievements: Research

WHEAP | World Heritage Earthen Architectural Programme

150 sites: 20% of the World Heritage List (Cultural & mixed sites)
Main recent achievements: Experimentation

- Grands Ateliers de l’Isle d’Abeau (Great Workshops in the city of Isle d’Abeau, France)
- Amaco, Atelier Matière à Construire (Workshop Materials for construction)
- Chantiers de Paterre, ATCCDD / Maroc (Activities of the Moroccan partner)
Main recent achievements: Professional training

**ACTIVITIES IN 2012 (organised by partners)**

<table>
<thead>
<tr>
<th>Professional trainings</th>
<th>Nº people</th>
</tr>
</thead>
<tbody>
<tr>
<td>Awareness</td>
<td>1932</td>
</tr>
<tr>
<td></td>
<td>90</td>
</tr>
</tbody>
</table>

**UNESCO Chair - Earthen Architecture**

**PIRATE: 18 partners / 8 countries.**
Implementation of new standards of competence required to the earth construction material
Main recent achievements: Awareness & Advocacy

The Grains d'Isere Festival (France) is a laboratory of ideas and experimentations, which is reinterpreted by several UNESCO Chair institution members, at regional scale.
UNESCO Chair - Earthen Architecture

Main recent achievements: International Impact

INTERNATIONAL & ITINERANT EXHIBITION

Ma terre première, pour construire demain (Cité des Sciences et de l’Industrie, Paris).
1 000 000 visitors

INTERNATIONAL PRICES RECEIVED BY THE MEMBERS

- Wang Shu | Pritzker 2012
- Anna Heringer | Aga Khan Award Arch. 2007
- Mu Jun | RIBA 2009

PUBLICATION

7 000 copies in French and Korean
Main recent achievements: Transfer of Knowledge through networking

- Site web de CRAterre: www.craterre.org
- Liste de diffusion: craterre-unesco@archi.fr
- Projet Pirate: http://pirate.greenbuildingtraining.eu
- Projet Versus 2012-2014 www.esg.pt/versus
- List of European Union key-actors and key-institutions working on earthen architecture: culture-terra-incognita.org
Links between activities undertaken & the strategic orientation of UNITWIN 2007

According with the *Strategic Directions of the UNITWIN 2007*, activities include:

- Chair as “think tanks” and “bridge builders”;
- Realignment with UNESCO’s priorities
  *(Medium Term Strategy for 2008-2013 (in pdf)*;
- To stimulate the triangulation North-South-South cooperation;
- To create regional/sub-regional poles of innovation & excellency;
- Closer cooperation with the [United Nations University (UNU)](http://www.unu.edu).
Chair’s contribution to the Strategic Vision:

Mediterranean Platform  
France, Portugal, Italy, Algeria, Morocco

UNESCO Chair - Earthen Architecture

Workshop Portugal-Italy  
in V. N. Cerveira | Portugal

Workshop Italy-Portugal  
in Cagliari | Italy

Workshops 2010-2013  
in Algiers | Algeria

Workshop Italy-Portugal-Morocco  
in South of Morocco
UNESCO Chair - Earthen Architecture

Chair’s contribution to the Strategic Vision:
Regional Approach

National Platforms
France, Chili, Mexico

THE CENTER FOR EXCELLENCY in FRANCE
Ecole Nationale Supérieure d’Architecture de Grenoble
Laboratoire CRAterre-ENSAG / Unité de recherche AE&CC
LABoratoires d’EXcellence
LABEX AE&CC
N° ANR -10- LABEX-78

FOUNDATION JOFRE & ARCOT UNIVERSITY PLATFORM in CHILI
1. Fac. Arquitectura, Construcción y Diseño, Universidad del Bío-Bío
2. Universidad de Concepción
3. Escuela de Arquitectura, Universidad Católica del Norte
4. Universidad Técnica Federico Santa María
5. Universidad Arturo Prat
6. Universidad de Chile
7. Universidad de la Serena
8. Universidad de Talca
9. Universidad de Santiago

MEXICAINE PLATFORM
1. CIPTEV, Centro de Investigación y Producción de Tecnología Ecológica para la Vivienda, Zapopan, Jalisco
2. Universidad Autónoma Metropolitana, Unidad Xochimilco, Mexico
3. Facultad de Arquitectura, Diseño y Urbanismo de la Universidad Autónoma de Tamaulipas Centro Universitario Tampico – Madero
UNESCO Chair - Earthen Architecture

Chair’s contribution to the Strategic Vision:

Extending the Network

Relying & contributing for existing International Platforms

PROTERRA (Earthen Architecture Iberian-American Network) | ISCEAH (International Scientific Committee of Earthen Architecture) | Algerian Festival ArchiTerre | TerrAsia |

Construtiera 2006 | COLOMBIA
10º SIACOT | URUGUAY

Festival ArchiTerre | Exhibition, Workshop & Conference organised by the Ministry of Culture + Italian, French & Portuguese partners | ALGERIA
International Conferences upcoming

2013
- CIAV 2013 | 7th seminar on earthen architecture 2013. Portugal
- 13th SIACOT, Material universal, realidades locales. Chile.

2014
- 2nd Conference TerrAsia 2014 in China with national partners (China Academy of Arts University of Xi’an, University Tongji of Shangai)
- 2nd Conférence Mediterra

2016
- 12th International Conference on the Study and Conservation of Earthen Architectural Heritage: TerraLyon. 600 people expected.
UNESCO Chair - Earthen Architecture

315 abstracts received from 57 countries

www.esg.pt/ciav2013 | info-ciav2013@esg.pt

CIAV 2013
7°ATP | VerSus

16-20 Oct. 2013
Vila Nova de Cerveira, PORTUGAL

Aegis:
PROTERRA
ICOMOS-ISCEAH
CHAIRE UNESCO – Earthen Architecture

Organisers
Escola Superior Gallaecia
ICOMOS-CIAV

VERSUS 2013
7th Seminar of Earthen Architecture in Portugal

International Conference and Annual Meeting of the Vernacular Architecture Scientific Committee of ICOMOS

‘VerSus-Lessons from Vernacular Heritage to Sustainable Architecture’
MEDITERRA | VERSUS | 2014
September 2014 | Valencia, SPAIN
www.esg.pt/versus

Organisers & Partners
Valencia Polythecnic University (SP)
Escola Superior Gallaecia (PT) | UNICA (IT)
CRAterre-ENSAG (FR) | UNIFI (IT)
Priority Principles

Chair UNESCO members accept the Ethical Commitment and the Priority Principles contributing to qualified and active professionals in:

• Local human, social, economic and cultural development;
• Protection of the environment & its resources for sustainable development;
• Respect, protection and promotion of cultural diversity;
• The preservation and significance of tangible and intangible cultural heritage;
• The relationship between civil society, local communities, policy makers and the economic sector.
Short terms perspectives to address challenges

The development of research
• Identifying priority areas of research.

Networking
• Sharing didactics, teaching methods, pedagogies.
• Sharing expertise and experiences.
• Structuring patterns of national, regional and international collaboration.

Capacity building
• Contribute for project development and research in regional networks.
• Fund research to consolidate research and experimentation platforms.

Interdisciplinarity
• Strengthening transversal approach.
• Increasing the contribution of different disciplines to earthen architecture.
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THANK YOU