

Program

Centre International de Conférences de Bamako

Programme

**TERRA 2008 10TH INTERNATIONAL
CONFERENCE ON THE STUDY
AND CONSERVATION OF EARTHEN
ARCHITECTURAL HERITAGE**

**TERRA 2008 10ÈME CONFÉRENCE
INTERNATIONALE SUR L'ÉTUDE
ET LA CONSERVATION DU
PATRIMOINE BÂTI EN TERRE**

Friday February 1, 2008

Vendredi 1 février 2008

8:30	Shuttles / Transferts Hotels → CICB	Presenters , Co-authors
9:00	Registrations (walk-in) / Inscriptions (du jour)	
9:30	OPENING CEREMONY EVENT / ANIMATION CÉRÉMONIE D'OUVERTURE	
10:00	Minister of Culture of Mali	Mohamed El Moctar
10:05	Associate Director, Getty Conservation Institute	Jeanne Marie Teutonico
10:10	President, ICOMOS International Scientific Committee on Earthen Architectural Heritage	John Hurd
10:15		
10:20	Director, ICCROM	Mounir Bouchenaki
10:25	President, CRATerre-ENSAG	Thierry Joffroy
10:30	Director, World Heritage Centre	Francesco Bandarin
10:35	General conference announcements	
	Informations générales sur la conférence	
11:00	COFFEE BREAK / PAUSE CAFÉ	
11:20		Mali Keynote Speaker
12:00	L'architecture de terre, une discipline à part entière ?	Hugo Houben, Fondateur de CRATerre
12:40	Discussion	
13:00-14:30	LUNCH / DÉJEUNER (Moderators and rapporteurs meet for briefing)	
	EARTHEN ARCHITECTURE IN MALI / L'ARCHITECTURE DE TERRE AU MALI	Moderators : Klessigué Sanogo, Samuel Sidibé - Rapporteur: Alpha Diop
14:30	Programme malien-néerlandais de conservation de l'architecture monumentale en terre du Mali à Djenné et au pays Dogon	Annette Schmidt, Yamousa Fané, Lassana Cissé, Rogier Bedaux , Philippe Lemineur, Mamadou Koné, Pierre Maas, Baba Kouroumansé
14:50	Diversité architecturale des bas-fourneaux du pays dogon, Mali: Sauvegarde d'un patrimoine technologique remarquable	Magali Stoller, Caroline Robion-Brunner, Adama Dembelé
15:10	The digital documentation of Djenné and Timbuktu, Mali: A database of African cultural heritage sites and landscapes	Heinz Rüther, Rahim S. Rajan
15:30	Aménagement d'un ensemble architectural médiéval au Mali : le site de la mosquée de Kankou Moussa à Gao	Mamadi Dembelé
15:50	Discussion	
16:20	COFFEE BREAK / PAUSE CAFÉ	
16:40	Negotiating tradition in practice: Mud masons and meaning-making in contemporary Djenné, Mali	Trevor Marchand
17:00	L'expérience de gestion participative de la Mission Culturelle de Tombouctou : Sauvegarde et protection des mausolées saints à Tombouctou, Mali	Pietro Ghetti, Mauro Bertagnin, Klessigué Sanogo, Ali Ould Sidi
17:20	Tombouctou se minéralise	Baba Cissé
17:40	The joint DNPC/AKTC earthen architecture projects in Mopti and Tombouctou, Mali	[final author listing to be confirmed]
18:00	Discussion	
18:30	Shuttles / Transferts CICB → Hotels	
	Rest / Repos	
19:45	Shuttles / Transferts Hotels → Musée National du Mali	
20:00	COCKTAIL offered by / offert par le MINISTÈRE DE LA CULTURE, Musée National du Mali EXHIBIT / EXPOSITION « Terra 2008 : Beautiful Banco (titre provisoire) »	
22:00	Shuttles / Transferts Musée National du Mali → Hotels	

Program

Centre International de Conférences de Bamako

Programme

**TERRA 2008 10TH INTERNATIONAL
CONFERENCE ON THE STUDY
AND CONSERVATION OF EARTHEN
ARCHITECTURAL HERITAGE**

**TERRA 2008 10ÈME CONFÉRENCE
INTERNATIONALE SUR L'ÉTUDE
ET LA CONSERVATION DU
PATRIMOINE BÂTI EN TERRE**

Saturday February 2, 2008

Samedi 2 février 2008

8:30	Shuttles / Transferts Hotels → CICB	Presenters , Co-authors
CONSERVATION OF LIVING SITES / CONSERVATION DES SITES VIVANTS Moderators: Francesco Bandarin, Lassana Cissé – Rapporteurs: Pamela Jerome, Thierry Joffroy		
9:00	Conserving World Heritage earthen architecture historic cities: Protecting values and understanding threats	Francesco Bandarin, Lazare Eloundou
9:20	Retirer un bien de la liste du Patrimoine Mondial en péril: Les Palais Royaux d'Abomey, Bénin	Léonard Ahonon, Thierry Joffroy
9:40	Four mud brick and timber-frame mosques in Ankara, Turkey: Their history, materials and conservation	Evin Erder
10:00	The conservation of earthen architectural landscapes: A preliminary reflection and review of concepts	Maria Isabel Kanan, Mariana Correia, John Hurd
10:20	Discussion	
11:00	COFFEE BREAK / PAUSE CAFÉ	
11:20	Adobe cities of Libya: Unique World Heritage architecture at risk	Abdulgader Abufayed, Amer Rghei
11:40	Entretien traditionnel du <i>Na-Yir</i> /de Kokologho, Burkina Faso	Bakonirina Rakotomamonji, Barthélémy Kaboré
12:00	Raising awareness of the value of earthen architecture for living and working	Hossam Mahdy
12:20	Recent challenges: A contractor's litany	Ed Crocker
12:40	Discussion	
13:00-14:30	LUNCH / DÉJEUNER	
LOCAL KNOWLEDGE SYSTEMS AND INTANGIBLE ASPECTS OF EARTHEN ARCHITECTURE / LES SAVOIRS LOCAUX ET LES ASPECTS IMMATERIELS DE L'ARCHITECTURE DE TERRE Moderators: Debbie Whelan, Hugo Houben - Rapporteur: Karel Bakker, Chris J. van Vuuren		
14:30	Mitigating threats to local knowledge embedded in earthen architecture: The case of preserving African architectural semiotics	B.Nawangwe, A.K. Birabi
14:50	Le rôle des communautés locales dans la préservation de l'architecture de terre : La ville ancienne de Djenné, Mali	Boubacar Diaby
15:10	Using performances of oral traditions as a way of conservation of earthen architecture	Julias Juma Otega
15:30	Unearthing the intangible in Ndebele earthen architecture: Towards an inventory of oral knowledge systems	Chris J. van Vuuren
15:50	Discussion	
16:20	COFFEE BREAK / PAUSE CAFÉ	
16:40	Earth building culture in Daura, Nigeria: From mythological origin to reality	Ishanlosen Odiaua, Abdulazeez Suleiman
17:00	Earthen architecture in Indian tribes	Om Joshi , Arvind Ghosalkar
17:20	A semantic web portal for supporting knowledge contribution, sharing and management in Earthen Architectural Heritage domain	Marco Masera, Saverio Mecca, Chiara Cirinna
17:40	Traditional experiences on mud-brick conservation and its optimization	Mohammad Hassan Talebian, Afshin Ebrahimi
18:00	Discussion	
18:30	POSTER SESSION AND COCKTAIL offered by the GETTY, at the International Conference Center of Bamako SESSION POSTERS AVEC COCKTAIL offert par le GETTY, au Centre International des Conférences de Bamako See poster list / voir la liste des posters	
20:30	Shuttles / Transferts CICB → Hotels	

Program

Centre International de Conférences de Bamako

Programme

**TERRA 2008 10TH INTERNATIONAL
CONFERENCE ON THE STUDY
AND CONSERVATION OF EARTHEN
ARCHITECTURAL HERITAGE**

**TERRA 2008 10ÈME CONFÉRENCE
INTERNATIONALE SUR L'ÉTUDE
ET LA CONSERVATION DU
PATRIMOINE BÂTI EN TERRE**

Sunday February 3, 2008

Dimanche 3 février 2008

8:30	Shuttles / Transferts Hotels → CICB	Presenters , Co-authors
	CONSERVATION AND MANAGEMENT OF ARCHAEOLOGICAL SITES / CONSERVATION ET GESTION DE SITES ARCHÉOLOGIQUES Moderators: Kléna Sanogo, Gaetano Palumbo - Rapporteur: Angelyn Bass Rivera, Doug Porter	
9:00	Collaboration exemplaire pour la sauvegarde du site archéologique de Mari, Syrie	Mahmoud Bendakir, Jean-Claude Margueron, Michel Dayre
9:20	Conservation of the Shunet El Zabib, Abydos, Egypt	Anthony Crosby
9:40	Documentation and conservation of the Buddhist monastery of Ajina Tepa, Tajikistan	Enrico Fodde, Kunio Watanabe (presented by John Hurd)
10:00	Le plan de gestion de Joya de Cerén, El Salvador, instrument pour la conservation du site	Françoise Descamps, Carolina Castellanos
10:20	Discussion	
11:00	COFFEE BREAK / PAUSE CAFÉ	
11:20	The Vanishing Treasures Program: Current practices in the conservation and management of earthen archeological and historic sites in US national parks	Angelyn Bass Rivera, Virginia Slazar-Halfmoon
11:40	Archaeological site of Konar Sandal, Jiroft, Iran: Conservation of earthen remains	Manigeh Hadian Dekhordi, Rasool Vatandoust, Yousef Madjidzadeh, Mohsen Kashi
12:00	Conservation of the 4,700 year-old mudbrick enclosure at Hierakonpolis, Egypt: Investigation, experimentation and implementation	Richard Jaeschke, Renée Friedman
12:20	Conservation of Daga structures at Domboshaba National Monument, Botswana.	Ashton Sinamai
12:40	Discussion	
13:00-14:30	LUNCH / DÉJEUNER	
	ADVANCES IN RESEARCH / AVANCES DANS LA RECHERCHE Moderators : Rasool Vatandoust, Giacomo Chiari - Rapporteur: Francesca Piqué, Henri Van Damme	
14:30	L'eau et la cohésion du matériau terre: Une question d'équilibre	Henri Van Damme, David Gélard, Laetitia Fontaine, Romain Anger, Sandrine Maximilien, Christian Olagnon, Yves Jorand, Jean-Paul Laurent, Hugo Houben
14:50	Baba de Cupim: Recent experiments with termite saliva as a stabilizer for earthen structures	Honorio Nicholls Pereira
15:10	Justification for the combination of chemical and natural additives to stabilize traditional earth material (mud) for quality and capacity utilization in Africa	N.A. Nwankwor
15:30	Etude expérimentale et modélisation des mouvements d'eau dans la muraille en terre extérieure de Khiva, Ouzbekistan, en relation avec les facies de dégradation observés	Olivier Grossein, Jean-Paul Laurent, Laurent Oxarango, Thierry Joffroy, Mahmoud Bendakir, Hugo Houben
15:50	Discussion	
16:20	COFFEE BREAK / PAUSE CAFÉ	
16:40	Conserving earth structures in a damp climate	Tom Morton
17:00	Comparative testing of earthen grouts for the conservation of historical earthen architectural surfaces	Daniela Geyer, Stefan Simon
17:20	Modern innovations in unfired clay masonry in the UK	Peter Walker, Andrew Heath, Addelfattah Abbaker
17:40	Considerations on methods to evaluate the compressive strength of earth building materials	Luisa Rovero, Silvia Briccoli Bati, Ugo Tonietti
18:00	Discussion	
	RECEPTION / RÉCEPTION , offered by / offerte par GETTY, Mémorial Modibo Keita: EXHIBIT / EXPOSITION « Terra 2008 : Beautiful banco (titre provisoire) » outreach exhibits / expos grand-public (within walking distance from the CICB / à quelques minutes à pied du CICB)	
18:45	Shuttles / Transferts Mémorial → Hotels	

Program

Centre International de Conférences de Bamako

Programme

**TERRA 2008 10TH INTERNATIONAL
CONFERENCE ON THE STUDY
AND CONSERVATION OF EARTHEN
ARCHITECTURAL HERITAGE**

**TERRA 2008 10ÈME CONFÉRENCE
INTERNATIONALE SUR L'ÉTUDE
ET LA CONSERVATION DU
PATRIMOINE BÂTI EN TERRE**

Monday February 4, 2008

Lundi 4 février 2008

8:30	Shuttles / Transferts Hotels → CICB	Presenters , Co-authors
SEISMIC AND OTHER NATURAL FORCES / SEISMES ET AUTRES PHENOMÈNES NATURELS Moderators: John Hurd, Philippe Garnier-Rapporteurs: Mary Hardy, Claudia Cancino		
9:00	Architecture de terre et risques naturels: Leçons de récentes interventions post-catastrophes	Philippe Garnier, Ferruccio Ferrigni, Olivier Moles, Wilfredo Carazas-Aedo, Majid Hajmirbaba
9:20	The application of stability-based seismic retrofit techniques to historic adobes and housing in developing countries	Leroy E Tolles, Dominic M Dowling, Stephen Farneth
9:40	Conservation, consolidation and reinforcement of destabilized earthen structures in Arge Bam (Bam Citadel), Iran, after the earthquake of December 2003 : Some new approaches	Rasool Vatandoust, A Nejati, Eskandar Mokhtari
10:00	Case study of an early period Buddhist monastery and an experimental study on the use of mud-based grouts for repair of historic earthen walls.	Marcial Blondet, Julio Vargas, Bhawna Dandona, Claudia Cancino
10:20	Discussion	
11:00	COFFEE BREAK / PAUSE CAFÉ CHALLENGES AND OPPORTUNITIES OF CONSERVATION AND DEVELOPMENT / DEFIS ET OPPORTUNITÉS DE LA CONSERVATION ET DU DÉVELOPPEMENT Moderator: Jeanne Marie Teutonico - Rapporteur : Trevor Marchand	
11:20	Sustaining an ancient tradition : World Monuments Fund and the conservation of earthen architecture	Bonnie Burnham, Norma Barbacci, Gaetano Palumbo, Angela Schuster
11:40	Revalorisation des architectures de terre en Ouganda; Un challenge pour un développement durable	Olivier Moles, Philippe Garnier, Alexandre Douline, B Nawangwe
12:00	Earthen architecture, sustainability, and social justice	Erica Avrami (presented by Carolina Castellanos)
12:20	Ksar d'Assa : Mémoire et compétence d'édifier dans le Maroc présaharien	Salima Naji
12:40	Discussion	
13:00-14:30	LUNCH / DÉJEUNER	
14:30-15:50	WORKING GROUP PRESENTATIONS PRÉSENTATIONS EN GROUPES SEE LIST OF PRESENTATIONS & LOCATION NEXT PAGE / VOIR LA LISTE DES PRÉSENTATIONS & LOCAUX À LA PAGE SUIVANTE	
15:50	COFFEE BREAK / PAUSE CAFÉ	
16:10-17:40	DISCUSSION IN WORKING GROUPS / DISCUSSION EN GROUPES	
17:45	Shuttles / Transferts CICB → Hotels	
	Rest / Repos	
19:30	Shuttles / Transferts Hotels → Centre Culturel Français	
20:00	FILM SCREENING , French Cultural Center of Bamako PROJECTION DE FILM , Centre Culturel Français de Bamako "Future in Mud: a tale of houses and lives in Djenné", by Trevor Marchand, Susan Vogel, and Samuel Sidibé (In English with French subtitles) (En anglais avec sous-titres français) Followed by a discussion with the producers, moderated by Samuel Sidibé, director of the National Museum of Mali Suivi d'un débat avec les producteurs animé par Samuel Sidibé, directeur du Musée National du Mali	
22:30	Shuttles / Transferts Centre Culturel Français → Hotels	

Program

Centre International de Conférences de Bamako

Programme

**TERRA 2008 10TH INTERNATIONAL
CONFERENCE ON THE STUDY
AND CONSERVATION OF EARTHEN
ARCHITECTURAL HERITAGE**

**TERRA 2008 10ÈME CONFÉRENCE
INTERNATIONALE SUR L'ÉTUDE
ET LA CONSERVATION DU
PATRIMOINE BÂTI EN TERRE**

Tuesday February 5, 2008

Mardi 5 février 2008

8:30	Shuttles / Transferts Hotels → CICB	Presenters
WRAP UP AND CONCLUSIONS / RÉSUMÉ ET CONCLUSIONS		
9:00	Earthen architecture in Mali / L'architecture de terre au Mali	Session Rapporteur or Moderator
9:10	Conservation of living sites / Conservation des sites vivants	Session Rapporteur or Moderator
9:20	Local knowledge systems and intangible aspects of earthen architecture / Les savoirs locaux et les aspects immatériels de l'architecture de terre	Session Rapporteur or Moderator
9:30	Conservation and management of archaeological sites / Conservation et gestion de sites archéologiques	Session Rapporteur or Moderator
9:40	Advances in research / Avancées dans la recherche	Session Rapporteur or Moderator
9:50	Seismic and other natural forces / Séismes et autres phénomènes naturels	Session Rapporteur or Moderator
10:00	Challenges and opportunities of conservation and development / Défis et opportunités de la conservation et du développement	Session Rapporteur or Moderator
10:10	Standards and guidelines for new and existing structures / Normes et principes directeurs pour structures nouvelles et existantes	Session Rapporteur or Moderator
10:20	Training / Formation	Session Rapporteur or Moderator
10:30	Discussion	
11:00	PAUSE CAFÉ / COFFEE BREAK	
11:20	Recommendations / Recommandations	Jeanne Marie Teutonico
11:40	Closing / Clôture	Mali speaker
12:00- 13:30	CLOSING LUNCH / DÉJEUNER DE CLOTURE	
14:30- 18:00	BAMAKO TOUR / VISITES DE BAMAKO PROGRAM TO BE CONFIRMED / PROGRAMME À CONFIRMER	
18:00	Shuttles / Transferts → Hotels	
	Departures / Départs	
	Shuttles to airport provided by Hotels / Transferts aéroport assurés par les Hotels	
	Last night in Bamako before postconference tours / Dernière nuit à Bamako avant les tours postconférence	

Wednesday February 6, 2008

Mercredi 6 février 2008

5:15	Breakfast / Petit déjeuner
5:30	Tour B: Shuttles / Transferts Hotels → Airport - 7:15 flight for / Vol de 7:15 pour Tombouctou
5:45	Tour A + Tour C : Shuttles / Transferts → Hotel Salam Luggage drop off at concierge / Dépot des bagages en concierge
6:00	Tour A + Tour C : Depart by minibus for Mopti / Départ en minibus pour Mopti

Program

Centre International de Conférences de Bamako

Programme

**TERRA 2008 10TH INTERNATIONAL
CONFERENCE ON THE STUDY
AND CONSERVATION OF EARTHEN
ARCHITECTURAL HERITAGE**

**TERRA 2008 10ÈME CONFÉRENCE
INTERNATIONALE SUR L'ÉTUDE
ET LA CONSERVATION DU
PATRIMOINE BÂTI EN TERRE**

Monday afternoon February 4, 2008

Working group sessions

Lundi après-midi 4 février 2008

Sessions de groupes

	Conservation of living sites Conservation des sites vivants	Local knowledge systems and the intangible aspects of earthen architecture / Les savoirs locaux et les aspects immatériels de l'architecture de terre	Conservation and management of archaeological sites / Conservation et gestion de sites archéologiques	Advances in research / Avancées dans la recherche
	Moderators: Francesco Bandarin Lassana Cissé Rapporteurs: Thierry Joffroy Pamela Jerome	Moderators: Debbie Whelan Hugo Houben Rapporteur: Karel Bakker Chris J. van Vuuren	Moderators: Kléna Sanogo Gaetano Palumbo Rapporteurs: Angelyn Bass Rivera Doug Porter	Moderators : Rasool Vatoudost Giacomo Chiari Rapporteurs: Francesca Piqué Henri Van Damme
Location	Room :	Room :	Room :	Room :
14:30	La conservation du bâti au Koutammakou	Vernacular architecture: A comparative case study of vernacular architecture in former Transkei and Ciskei, South Africa	Development issues in the management of earthen archaeological sites	La terre : un béton comme les autres ? Quelques mécanismes de stabilisation du matériau terre
	Nyanodjoua Djanguenane	Luvuyo Mthimkhulu Dondolo	<i>Sjoerd van der Linde, Tim Williams, Henry Fletcher</i>	Romain Anger, Laetitia Fontaine, Hugo Houben, Patrice Doat, Henri Van Damme, Christian Olagnon, Yves Jorand
14:50	The Tarimi Mansions Preservation Project update: Expanding partnerships towards conserving a living city of earthen architecture in Yemen	Building knowledge and cultural diversity: Earthen architecture in Lametia Terme, Calabria, Italy	Gestion des sites archéologiques en terre en Asie Centrale	The consolidation of earthen surface finishes: Developing a protocol for testing and evaluation at Mesa Verde National Park
	James Conlon, Pamela Jerome	Valerio Alecci, Francesco Cicione, Saverio Mecca, Luisa Rovero, Ugo Tonietti	<i>David Gandrau, Sébastien Moriset, Mahmoud Bendakir</i>	Amila Ferron, Frank Matero
15:10	Planification de la conservation du patrimoine bâti en terre - Le cas des mosquées anciennes de Côte D'Ivoire	Les savoirs locaux et les aspects immatériels de l'architecture de terre dans le nord-ouest argentin - Tourisme et sauvegarde du patrimoine culturel	Conservation of mud-brick cities and mural paintings in the Dakhla Oasis, Egypt: An overview of successful and problematic conservation treatments	Ecological earth construction in Cuba
	Bi Koffi Tiziebi	Mirta Eufemia Sosa	<i>Constance Silver, Ahmed Ayoub Bahaa Goma</i>	Francisco Tomas Casal, Duznel Zerquera, Nancy Benitez Vazquez
15:30	Evaluation treatment and maintenance 10 years after the conservation of earthen bas-reliefs of the Historical Museum and Royal Palaces of Abomey, Benin	The transformation of architectural form at the Middle Place	The use of historic photographs for the study of earthen architecture	Experimental research on the consolidation of weathered surfaces of earthen architecture using a PS solution spray
	Francesca Piqué, Leslie Rainer, Léonard Ahonoron	Shalie Gasper	<i>Louise Cooke, Tim Williams</i>	Jingke Zhang, Chen Wenwu, Sun Manli, Li Zuixiong
15:50	COFFEE BREAK / PAUSE CAFÉ	COFFEE BREAK / PAUSE CAFÉ	COFFEE BREAK / PAUSE CAFÉ	COFFEE BREAK / PAUSE CAFÉ
16:10-17:40	Discussion	Discussion	Discussion	Discussion

Program

Centre International de Conférences de Bamako

Programme

**TERRA 2008 10TH INTERNATIONAL
CONFERENCE ON THE STUDY
AND CONSERVATION OF EARTHEN
ARCHITECTURAL HERITAGE**

**TERRA 2008 10ÈME CONFÉRENCE
INTERNATIONALE SUR L'ÉTUDE
ET LA CONSERVATION DU
PATRIMOINE BÂTI EN TERRE**

Monday afternoon February 4, 2008
2008
Sessions de groupes

Lundi après-midi 4 février

Working group sessions

	Seismic and other natural forces / Séismes et autres phénomènes naturels	Challenges and opportunities of conservation and development / Défis et opportunités de la conservation et du développement	Standards and guidelines for new and existing structures / Normes et principes directeurs pour structures nouvelles et existantes	Training / Formation
	Moderators: John Hurd Philippe Garnier Rapporteurs: Mary Hardy Claudia Cancino	Moderators: Lazare Eloundou Rapporteur: Trevor Marchand	Moderator: Gustavo Araoz Rapporteur: Ed Crocker	Moderator: Baba Keita Rapporteur: Sébastien Moriset
Location	Room :	Room :	Room :	Room :
14:30	Impact of climate change on earthen buildings	Romancing the earth: A critical discourse with relation to the societal challenges of preservation of earthen buildings in developing countries	Guides, codes and standards for rammed earth structures: An African case study	<<Grains de Bâtisseurs>>: Un nouvel outil pédagogique pour l'enseignement de l'architecture de terre
	<i>Peter Brimblecombe, Alessandra Bonazza, Nick Brooks, Carlota M. Gossi, Ian Harris, Cristina Sabbioni</i>	<i>Debbie Whelan</i>	<i>Rowland Keable</i>	<i>Hugo Houben, Patrice Doat, Laetitia Fontaine, Romain Anger, Wilfredo Carazas Aedo</i>
14:50	Seismic strengthening of adobe structures using low-cost materials	A manual for the conservation and re-qualification of historic earthen town centres in Sardinia, Italy	Toward a comprehensive taxonomy of earthen architecture	Passing on earth construction skills among the Hausa of northern Nigeria: Methods, strategies, challenges and prospects
	<i>Mohammad Shariful Islam, Kazuyoshi Iwashita</i>	<i>Maddalena Achenza</i>	<i>Ed Crocker, Gustavo Araoz</i>	<i>Yusuf Abdallah Usman</i>
15:10	Using a polymer grid for seismic and flexural reinforcement in historically significant adobe buildings	Earthen architecture construction in Cuenca, Ecuador	Guidelines for identification, monitoring and condition assessment of historical structures	Training, dissemination and networking on earth architecture and construction
	<i>Daniel Torrealva, Mary Hardy, Cecilia Cerron, Yvan Espinoza</i>	<i>Maria de Lourdes Abad</i>	<i>Y.D. Aktaş, A. Türer</i>	<i>Mariana Correia, Celia Neves</i>
15:30	Study of the structural behavior of traditional adobe constructions	The balance of historical building conservation and functional reuse	Development of earth construction standards: How and what next from New Zealand?	International collaboration to preserve earthen architectural heritage
	<i>Dora Silveira, Umberto Varun, Anibal Costa</i>	<i>M.K. Mondegari, Ayatollahi S.M.H.</i>	<i>Hugh Morris, Jason Ingham</i>	<i>Francisco Uviña, Luis Fernando Guerrero Baca, Antonio Guerrero Arzaga</i>
15:50	COFFEE BREAK / PAUSE CAFÉ	COFFEE BREAK / PAUSE CAFÉ	COFFEE BREAK / PAUSE CAFÉ	COFFEE BREAK / PAUSE CAFÉ
16:10-17:40	Discussion	Discussion	Discussion	Discussion

Program

Centre International de Conférences de Bamako

Programme

**TERRA 2008 10TH INTERNATIONAL
CONFERENCE ON THE STUDY
AND CONSERVATION OF EARTHEN
ARCHITECTURAL HERITAGE**

**TERRA 2008 10ÈME CONFÉRENCE
INTERNATIONALE SUR L'ÉTUDE
ET LA CONSERVATION DU
PATRIMOINE BÂTI EN TERRE**

Posters presented / Posters présentés	Authors / Auteurs
Location / Endroit : Second floor lobby of CICB / Foyer 2ème étage CICB	
Earthen architecture in Mali / L'architecture de terre au Mali	
Résultats du programme malien-néerlandais de conservation de l'architecture monumentale en terre du Mali à Djenné et au pays Dogon	Lassana Cissé, Yamoussa Fané, Anette Schmidt, Rogier Bedaux, Philippe Lemineur, Mamadou Koné, Pierre Maas, Baba Kouroumansé
Peuplement et architecture en pays dogon: Nouvelles données archéologiques	Néma Guindo, Lassana Cissé, Kléna Sanogo, Eric Huysecom, Anne Mayor, Sylvain Ozainne, Caroline Robion-Brunner
Entre terre et pierres : Certains aspects typologiques de l'architecture traditionnelle dogon sur le site des Falaises de Bandiagara, Mali, inscrit sur la Liste du Patrimoine Mondial	Lassana Cissé, Mamadou Koné, Wolfgang Lauber, Fritz Wilhem
Ségou, Mali : Protection et développement des centres anciens, et sensibilisation	Marylise Ortiz
Conservation of living sites / Conservation des sites vivants	
L'Adobe au Portugal: Paysage, archéologie, architecture et conservation	Maria Conceicao Lopes, Maria Fernandes
Earthen walls, <i>tapias, bardas or vallados</i> of Villa de Leyva, Colombia	Clara Eugenia Sanchez Gama
The preservation of the indoor decoration in the temple complex at Nako, Himachal Pradesh, India	Maria Gruber, Tatjana Bayerova, Gabriela Krist
Villa Ficana in Macerata, Italy: A significant experience on an earth quarter restoration as well as on the first adobe manufacturing standardisation	Gaia Bollini, Anna Paola Conti
Participatory research design approach: Exploring possibilities for continuing earthen architecture in the trans-Himalayan region in Nepal	Neil Kamal Chapagain
From straw, wood and mud: Evolution of the Xhosa architecture in South Africa	Jean D'Aragon
Conservation of earth building settlements in Fujian, China	Li Hongyan, Yang Kai, Yang Qingcong
The political economy of heritage in Djenné, Mali.	Charlotte Joy
Architectural records, inventory and information systems for the conservation and dissemination of earthen architecture	Margarida Alçada
L'architecture de terre au Sénégal : Chronique d'une fin annoncée ?	Hamady Bocoum
International network on preventive conservation, maintenance and monitoring	Neza Cebron Lipovec
Lancement du Programme du Patrimoine Mondial pour l'Architecture de Terre	Francesco Bandarin, Lazare Eloundou
Local knowledge systems and the intangible aspects of earthen architecture / Les savoirs locaux et les aspects immatériels de l'architecture de terre	
From Nubia to Mali to New Mexico: An exercise in acculturation through earthen architecture	Mohamed Elmannah
L'intervention des femmes dans la préservation et la conservation du patrimoine culturel - Regards croisés au Niger et au Burkina Faso	Amelie Essesse
Restoration and revitalization of earthen structure of Deh-Now Jamea Mosque, Meybod, Iran	Eisa Esfanjari Kenari, Leila Zaker Ameli
Vernacular rural architecture with mud in Bengal and Jharkhand, India	Nikhil Ranjan Mandal
Local knowledge systems and intangible aspects of earthen architecture: Earthen architecture as cultural expression, Porto Santo Island, Portugal	Dalila Peixe Silva
Types of adobe construction in Castilla y Leon and their recovery as intangible heritage	Jose Luis Alonso Ponga, Juana Font Arellano
An atlas of the geographical distribution of mud-brick heritage in Iran	Mohammad Hassan Talebian, Afshin Ebrahimi
The earth architecture of Vredfort Dome World Heritage Site: A strategy for their preservation and a field testing of preservation methods and techniques for a South African context	Karel Bakker, Nicholas Clarke
Conservation and management of archaeological sites / Conservation et gestion de sites archéologiques	
Avatars techniques et durabilité des habitats en terre médiévaux	Claire-Anne de Chazelles
Archaeological Buddhist sites in the Indian Himalayas: A study on their layout and the methods of construction	Hubert Feiglstorfer
Traditional conservation techniques at the archaeological site of Chan Chan, Peru	Asta Meyer
Pre Hispanic architectural surfaces: Conservation and monitoring archaeology project Huaca de la Luna, Peru	Ricardo Morales
Some conservation practices of earthen remains from archaeological activities in Syria	Yasuyoshi Okada
Conservation and stabilization of a Han Dynasty Beacon Tower at Dunhuang, China	Wang Xudong, Li Zuixiong, Sun Manli, Zhang Mingquan

Program

Centre International de Conférences de Bamako

Programme

**TERRA 2008 10TH INTERNATIONAL
CONFERENCE ON THE STUDY
AND CONSERVATION OF EARTHEN
ARCHITECTURAL HERITAGE**

**TERRA 2008 10ÈME CONFÉRENCE
INTERNATIONALE SUR L'ÉTUDE
ET LA CONSERVATION DU
PATRIMOINE BÂTI EN TERRE**

Posters presented / Posters présentés	Authors / Auteurs
Location : Second floor lobby of CICB / Endroit : Foyer 2ème étage CICB	
Advances in research / Avancées dans la recherche	
Parametric study of earth brick masonry under monoaxial compression: Correlation between earth masonry and fired masonry behavior	Georgia Bei
Effect of moisture content on the compressive strength of ancient adobe walls	Daniel Torrealva
Seismic protection of earthen buildings	Marcial Blondet, Julio Vargas
Earth as building material: A possibility to reduce heat-islands in the metropolitan region of Rio de Janeiro, Brazil.	Ana Maria de Paiva Macedo Brandao, Ana Cristina Villaca Coelho, Heitor Soares de Farias, Leandro da Silva Gregorio
An experience under development: The use of rice bark to make adobes for a social project in Sao Jose do Rio Pardo, Brazil	Anna Cristina Villaca Coelho, Rosana Parisi, Glacir Fricke, Obede Faria, Francisco Vecchia
The mineralogical and mechanical characteristics of earth used in the earthen buildings of the Draa Valley, Morocco	Luisa Rovero, Fabio Fratini
Thermal radiation and earthen buildings: New research on the thermal radiation emission value of earth as a building material	Hauke Haupts
Seismic and other natural forces / Séismes et autres phénomènes naturels	
Critical evaluation of the behavior of seismic-resistant systems and solutions for earthen architecture	Eduardo Muñoz Gonzalez, Monica Bahamondez
Experimental qualification of injection admixtures for strengthening earthen constructions in seismic areas	Charu Chaudhry
Le torchis et les coteaux vulnérables aux glissements de terrain au Brésil	Rosa Flores
Vaulted structures of <i>quincha</i> in the Viceroyalty of Peru	Pedro Hurtado Valdez
Rancho Santa Margarita y Las Flores, USA: Partnering to preserve threatened adobes	Douglas Porter, Jake Barrow, Stan Berryman
Myths about using cement stabilized mud blocks in the Himalayan region	Sandeep Sikka
The Getty Seismic Adobe Project research summary	E Leroy Tolles
Brown for Green: Earth as an alternative building material in hot arid regions	Hisham Mortada
The Getty Conservation Institute Earthen Architecture Initiative	Claudia Cancino, Gail Ostergren
Challenges and opportunities of conservation and development / Défis et opportunités de la conservation et du développement	
Studies of earth-based ecological architecture in China's Loess Plateau region	Edward Ng Yan-yung, Mu Jun
Marché Central de Koudougou, Burkina Faso	Laurent Séchaud
Authenticity in modern earthen architecture in the United Arab Emirates	Emman Assi
Promoting sustainability of earth-constructed private and public buildings in South Africa	Gerhard Bosman
Valoriser un patrimoine menacé - les <i>Aghems</i> de la Saoura, Algérie	Nesma Brahimi, Rafik Bensalem
Vernacular architecture and cultural landscapes in the western Egyptian desert	Francesca de Filippi, Riccardo Balbo
Culture de l'architecture en terre et culture de la consommation : Confrontation et rapprochement	Daniel Duchert
The Nubian vault: Updating an African architectural tradition	Tony Kaye, Thomas Granier, Emilio Caravatti
Murad Khane: The urban restoration and vernacular architecture of an historic quarter of Kabul, Afghanistan	Andre Ullal, Randolph Lagenbach, Grahame Hunter
Enhancing traditional earthen building techniques to pursue sustainable management of cultural heritage in the Arab States	Guido Licciardi
Contemporary earth architecture: Low cost, climatically comfortable	Simone Swan
Standards and guidelines for new and existing structures / Normes et principes directeurs pour structures nouvelles et existantes	
The Australian experience: Update on "earthen building regulations" and case studies	Daniela Deperini
Vers un code local de construction pour l'architecture en terre dans la Vallée du Draa, Maroc	Saverio Mecca, Ugo Tonietti, Ahmed Zainabi
Earthen architecture in South Africa	Lesley Townsend
Training / Formation	
Qualification of manpower specialized in traditional masonry and historic mortar in labor context in Brazil	Alexandre Ferreira Mascharenas
Preservation and teaching of earth construction techniques to conserve monuments in Brazil	Marco Antonio Penido de Rezende, Raymundo Rodrigues, Izabela Naves Coelho Teobaldo
Collaboration and dissemination: A joint project between UK and Nigeria / Training and education in earthen architecture	Theophilus Shittu, Linda Watson
Réhabiliter les cultures constructives par la recherche et la formation : Création du Laboratoire des Architectures de Terre du Maroc	Abdelghani Tayyibi