

Architect :

Eliot Lee, Partner at Steven Harris Architects

Eun Sun Chun, Partner at 212 Box Architecture

Architect Contact Information:

30 Vesey Street, FL11, New York, NY USA 10007

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Project Name: Lee-house

Project Location: Napa Valley, California

Project Construction Date: 2002-2005

The Property is 30 acres on an intermediary ridge on the Diamond Mountains above Napa Valley. It was important to integrate the modern rammed earth structures with the natural setting. The goal was to create the least amount of disturbance possible around the construction of each structure, to blend the existing grades around the architecture, and to replant the disturbed areas with indigenous and native plants. Special care was taken to collect native seeds from the site prior to construction. Upon entering the property, a windy, uphill, gravel driveway leads to an outdoor parking area with one rammed earth wall and a simple crushed stone path flanked by manzanitas and California lilacs. At this point no sign of the house is in view.

<http://www.asla.org/2009awards/095.html>



Architect :

Ackert Architecture

Architect Contact Information:

176 Grand Street, New York, NY USA 10013

(T)917-566-0056 (F)212-965-8830

Project Name: Monier Residence

Project Location: West Australia

Project Construction Date:

The Monier residence is a wood and rammed earth structure utilizes a variety of sustainable systems to produce its own energy and regulate its climate. The building is situated on a 4-acre site in Perth, West Australia and comprises 3 bedrooms and 2,500 square feet. Ackert Architecture designed the award winning structure “as a demonstration project to show how alternative energy and passive systems could be integrated to create a self sufficient home.”



Architect : al bordE Arquitectos,
David Barragan y Pascual Gangotena

Architect Contact Information:
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Project Name: Casa Entre Muros

Project Location: Tumbaco, Quito, Ecuador

Project Construction Date: 2007-2008

The Casa Entre Muros, built in Tumbaco, Quito, Ecuador and designed by al bordE Arquitectos (David Barragán and Pascual Gangotena), was generated from the starting point: “There is always another way of doing things and another way for living”. Far from the pollution of the city, the house is set in the hillside of the Ilaló volcano in a indomitable land. It's limited by two streams opened to the landscape of the valley. A cut in the sloping land helps to generate a platform for the project and also to get enough raw material to build the massive party walls. The waving form as a result of this cut in the land, defines the position and order of every wall. The succession of rammed earth walls and the different heights of the roof caused the division of the house even for the activity or the user.



Architect :

Allan Powell

Architect Contact Information:

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Project Name: TarraWarra Museum of Art**Project Location:** Victoria, Australia**Project Construction Date:**

Intended to emerge powerfully from the landscape this ultra modern gallery displays the talents of Melbourne architect Allan Powell. Almost like an earthworks sculpture that can be read as an artefact, the TarraWarra Museum of Art in Yarra Glen is a monument to modernism. Allan Powell has constructed a simple shape with the effect of a half built or buried building, which confounds the eye and engages the senses. The stunning tan and clay coloured structure rises out of the green vines of the Yarra Valley creating an unexpected vision in the valley. Sensually curved around the site, the building is primarily of dressed stone and rendered walls, coloured rendered concrete walls, and rammed earth walls, and the architect has achieved the feeling that 'this building is of the earth'. Visitors to this new gallery are convinced that the complex is of handcrafted natural materials and that each of the columns is different. TarraWarra Museum of Art has been entered into Institutional new category of the architecture awards.



Architect :

Anna Heringer

Architect Contact Information:

Badergaesschen 4 5020 Salzburg, Austria

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Project Name: HOMEmade**Project Location:**

Rudrapur and Vinshnupur, Dinajpur district, Bangladesh

Project Construction Date: September 2007 – April 2008

Architect Anna Heringer has recently completed three projects that were winners of the world architecture community awards. These three family houses are the results of a hands-on workshop for students and young architects conducted in a remote rural area of Bangladesh. Eight students of the BRAC University in Dhaka (Bangladesh) as well as five Students from the University of Art in Linz/ projectstudio BASEhabitat (Austria) came to a small and remote village in the North of Bangladesh, Rudrapur, to continue what has started with the Handmade METI-School: to work together with the local people on a model for a sustainable, modern architecture in a dynamic process. The goal of the HOME-made project is to improve the living conditions of the local population and to strengthen national identity while maintaining the current high level of sustainability with regard to home construction.



Architect :

Atelier Bow Wow

Architect Contact Information:

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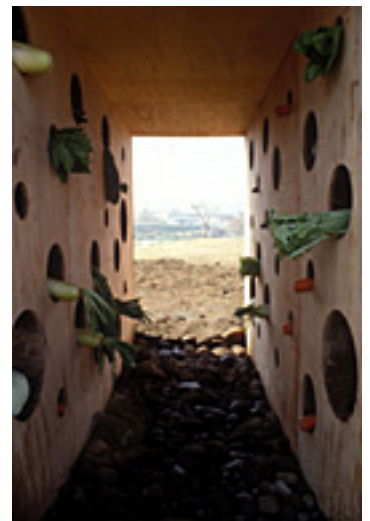
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(E) info@bow-wow.jp

Project Name: Kiosk in rural scape(Kiosk for vegetables)

Project Location:

Project Construction Date:



Architect : BASE habitat

Architect Contact Information:

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(E) basehabitat@ufg.ac.at

Project Name: Tebogo Home for Handicapped Children

Project Location:

Township Orange Farm, Johannesburg, South Africa

Project Construction Date:

Planning phase: 10/2004 – 01/2005

Realisation on site: 6 weeks 01/2005 - 02/2005

BASE habitat was commissioned by the Tebogo Home for Handicapped Children. The Austrian NGO SARCH set up this contact for us. The home for almost 50 children had become too small. In a group of 25 students we planned and built a dining building with a new kitchen, and a therapy building with sanitary facilities. A generously dimensioned pergola, a garden hall, connects the buildings with each other. The buildings we erected in Tebogo have a pleasant indoor climate throughout the year – without the use of energy. In this way we were able to reduce the fluctuation in temperature to only 9°C. Local workers, above all women, were integrated in the project. The building materials were acquired directly from the township: concrete blocks, earth, clay, straw, timber, grass mats – to strengthen the local economy and to make later repetition easier. One of the main aims was to make buildings that suited the needs of the children. They received a home that conveyed a sense of security and joy in living.



Architect : Dan Brill Architects

Architect Contact Information:

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Project Name: Chalk House

Project Location: Winchester, UK

Project Construction Date:

Dan Brill Architects has designed a £50,000 extension to an Edwardian home on the outskirts of Winchester using rammed chalk. The chalk, which makes up the soil of the site was considered as it is a traditional technique in the region and because of the large amount of excavation required to accommodate the addition.

The clients, who wanted something contemporary and innovative, appreciated rammed earth and more so the pristine appearance of the stark, white chalk walls. The material has been used in modern construction in the Pines Calyx project. It was also used in the construction of eight experimental cottages at the Department of Industrial Science and Research at Amesbury between 1919 and 1921. Construction is slated for later this year.



Architect : David Oliver

Architect Contact Information:

Project Name:

Rammed Earth - With a Veneer of Science

Project Location:

Mooloolaba, on Queensland's Sunshine coast

Project Construction Date:

David Oliver, an Australian architect from Queensland has spent a significant part of his professional life applying science to the simplicity of rammed earth construction. He is now recognised as a world leader in rammed earth technology and a significant driving force behind environmentally sustainable design in Australia.



Design Build BLUFF has completed another house. This time a compressed earth block house called the Benally House.

Architect : Design Build BLUFF

Architect Contact Information:

Hank Louis DesignBuildBLUFF

P.O Box 3779, Park City, UT USA 84060

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Project Name: Benally House

Project Location: UT, USA

Project Construction Date: Jan 2007-Apr 2007



Architect : Diébédó Francis Kéré

Architect Contact Information:

Dipl.-Ing. Diébédó Francis Kéré

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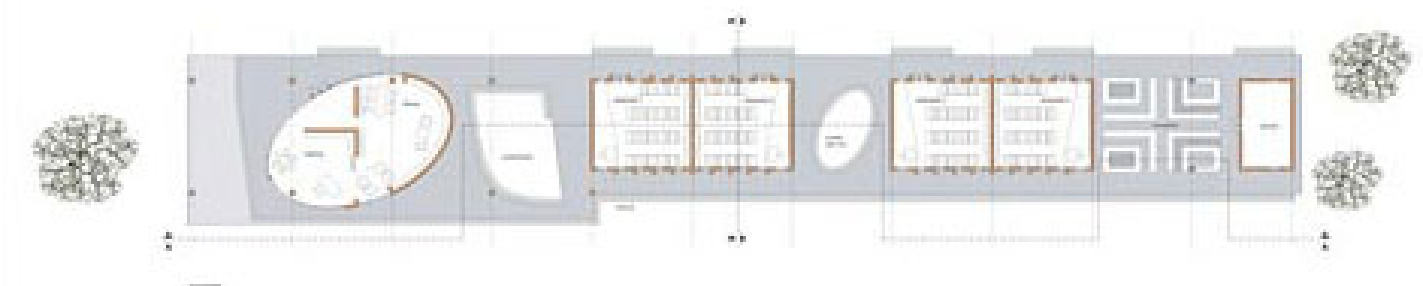
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Project Name: Gando School Extension

Project Location: Gando, Africa

Project Construction Date: 2001

Following the success of his design for a Primary School in Burkina Faso, which prompted growing numbers of students attending the school, architect Diébédó Francis Kéré has completed an extension to the school using many of the same techniques and materials, but with an innovative new compressed earth vault protected by an airy vaulted metal canopy. In addition to classrooms, the extension also houses a kitchen and library.



Architect : Magnus Larsson

Architect Contact Information:

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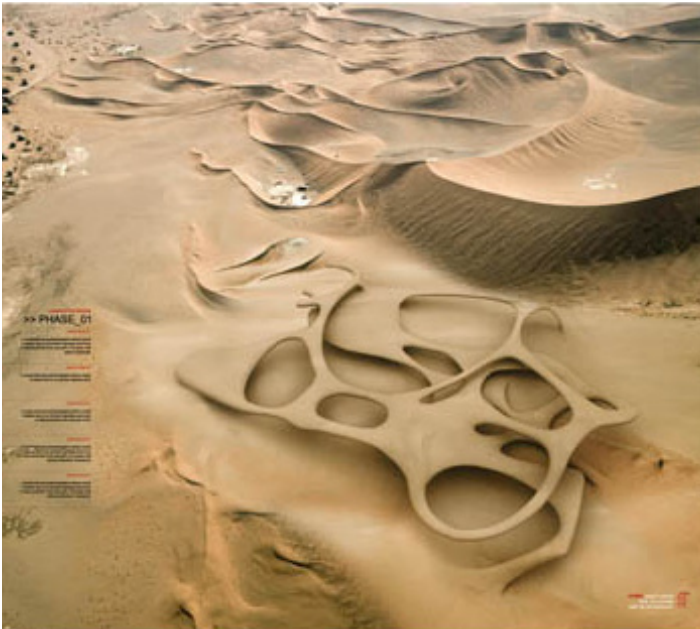
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Project Name: DUNE

Project Location:

Project Construction Date:

Dune Anti-Desertification Architecture investigates adaptive (as opposed to mitigatory) strategies leading to the creation of a climate-conscious architecture that responds to the extreme environments of tomorrow's globally-warmed world. Highly speculative yet buildable, the scheme aims to find innovative solutions to combat desertification in the Sahel region of Africa, where sand dunes are currently moving southward at a breathtaking pace of around 600m per year, ruining the land and making it impossible for the inhabitants of this area to make a living or even stay in their homes. The forced migration of desertification refugees is perhaps more threatening in Nigeria than anywhere else. With a population of over 140 million people, Nigeria is the most populous country in Africa, with serious desertification issues throughout its northern states. It was Nigeria's former president, Olusegun Obasanjo, who initiated the anti-desertification Green Wall Sahara initiative in 2005. This pan-African scheme seeks to plant a shelterbelt across the continent, from Mauritania in the west to Djibouti in the east, in an attempt to stop the dunes from migrating. The trees are being planted right now.



Architect : FARE

Architect Contact Information:

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Project Name: Women's Health Centre

Project Location: Ouagadougou, Burkina Faso

Project Construction Date: 2006-2007

The building walls are constructed using compressed dry stacked clay bricks, BTC [briques en terre comprimée], made on site using a rough mixture of earth, cement and water. The bricks were baked in the hot sun, with no energy consumption, thus limiting the environmental impact of the material.

The choice to use these bricks is based on their temperature and humidity reduction characteristics, enhanced here by their protection against contact with water, perhaps the only serious limitation they pose.

The choice of using this technology represents the desire to introduce alternative and sustainable technologies within a context that is tied to standardized, though not always optimal building practices, and to the importance of importing foreign materials.



Architect : Joe Osae-Addo

Architect Contact Information:

Project Name: Accra House

Project Location: Ouagadougou, Burkina Faso

Project Construction Date: 2006-2007

Joe Osae-Addo, a Ghanaian-born architect, living in Los Angeles was determined to build with the materials found primarily in rural areas of his native country: timber and mud brick. Because mud brick doesn't exist in cities in Ghana, Addo had to build his own during the construction of his own home. He coined a phrase for his approach to contextual modern architecture: "inno-native."



Architect : Jones Studio

Architect Contact Information:

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Project Name: House of Five Dreams

Project Location: Phoenix, AZ

Project Construction Date: 2004

This 30,000 SF residence/private museum was created to serve the needs of a pair of prolific art and artifact collectors. Knowing much of their collection had been excavated, the decision was made to place exhibition space below the horizon, contained within 4-foot thick rammed earth walls. Above the gallery, a floating residential pavilion is spatially composed with translucent light.



Architect : Kendle Design Collaborative

Architect Contact Information:

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Project Name: Redding Residence

Project Location: Scottsdale, Arizona

Project Construction Date:

A tremendous site & an owner with a contemporary minimalist vision & respect for the natural environment inspire the design of this home. Located on an acre plus site overlooking a golf course, the home is oriented toward the lake view. Features include rammed earth walls, extensive use of glass for taking in views, operable windows to allow the house “to breath” and a soaring roof form, clad in copper, that appears to float above the home. Landscaped courtyards to the east provide both privacy & promote outdoor living. Landscape design is done in collaboration with Floor & Associates.



Architect : Kengo Kuma and Associates

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(E) kuma@ba2.so-net.ne.jp

Project Name: Adobe Repository for Buddha Statue

Project Location:

Ooazaatumogou, Toyourachou, Toyoura, Japan

Project Construction Date: 2002.10

The Adobe Repository for Buddha Statue was designed by Kengo Kuma and Associates in 2001-2002 in Toyoura-Gun, Yamaguchi Prefecture, Japan. It is designed to accommodate and exhibit the wood carved statue of Timber Amida (Amidabha) Tathabata. The periphery walls of the site are constructed in hanchiku, or rammed earth, Kuma decided to further utilize this technique in the architecture by using what appears to be compressed earth block, even though it is called out as adobe (mud brick).



Architect : Martin Rauch, Roger Boltshauser

Architect Contact Information:

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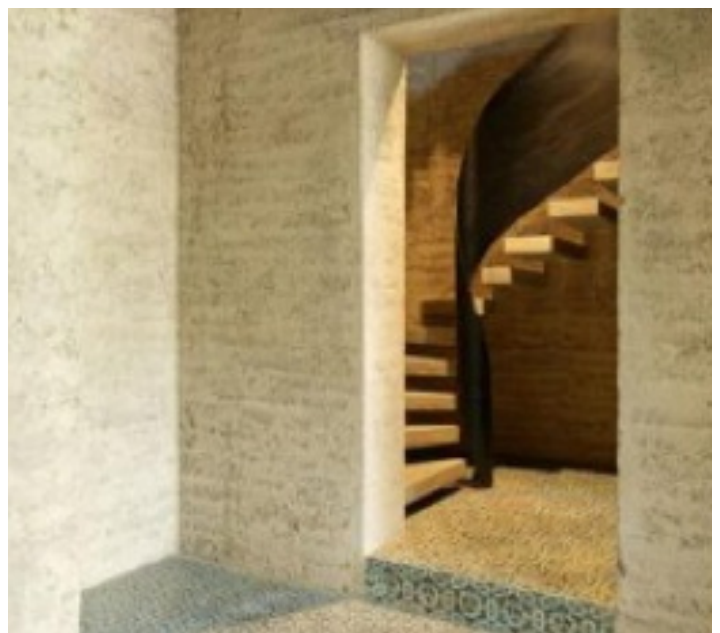
(E) info@boltshauser.info

Project Name: House Rauch

Project Location: Schlins, Austria

Project Construction Date: 2006-2007

Notable rammed earth building Martin Rauch, with the assistance of architect Roger Boltshauser recently completed his own rammed earth home in Schlins, Austria. The house which was finished 2008 reacts in its position and in its character directly to the topographic gradient of the slim plot and its genuine landscape context: A monolithic structure becomes a sculptural bloc, an abstract and artificial nature pressed upward from the underlying earth.



Architect : Robert M. Horner

Architect Contact Information:

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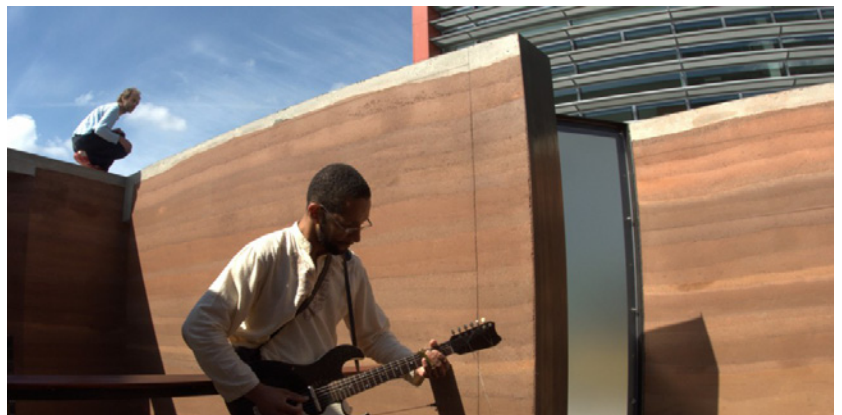
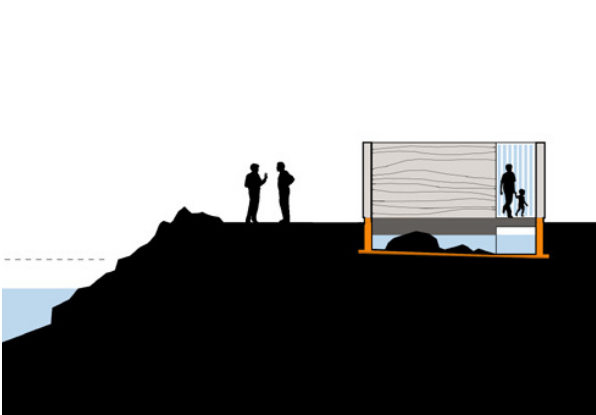
Project Name: Tidal Resonance Chamber

Project Location: Tacoma, Washington

Project Construction Date: 2010

The Tidal Resonance Chamber, designed by Robert Horner is an experiment between human perception and nature; it also serves as conduit for the development of sustainable construction techniques. The Tidal Resonance Chamber provides a harbor for the contemplation and reflection on the manner in which human beings have utilized and manipulated the natural environment.

As the first rammed-earth construct in the City of Tacoma, the Chamber provides a contemplative and relaxation space for users of the Center for Urban Waters (a LEED Platinum Marine research and analysis facility).



Architect : Taller de Arquitectura—Mauricio Rocha

Architect Contact Information:

Miguel Angel de Quevedo #95 Col. Chimalistac

Del. Álvaro Obregón MX- México D.F.

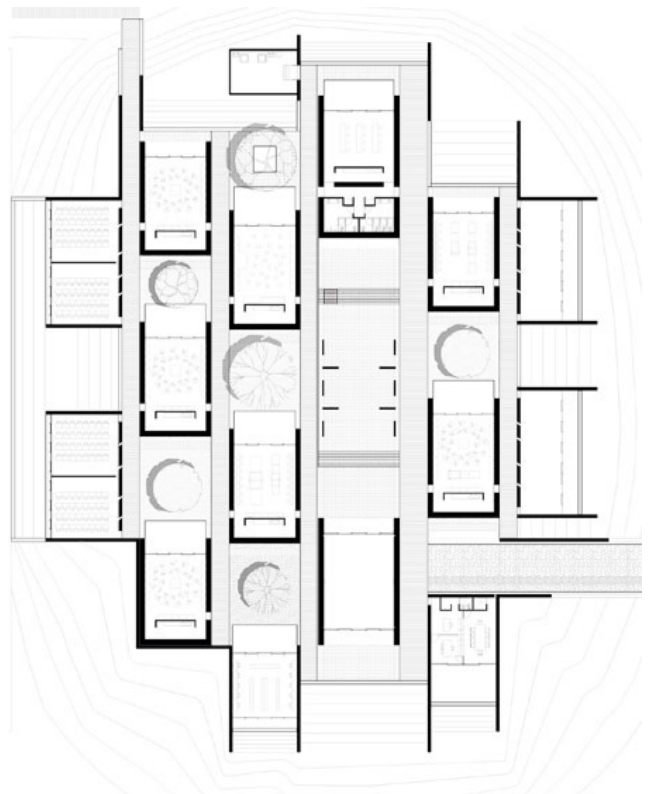
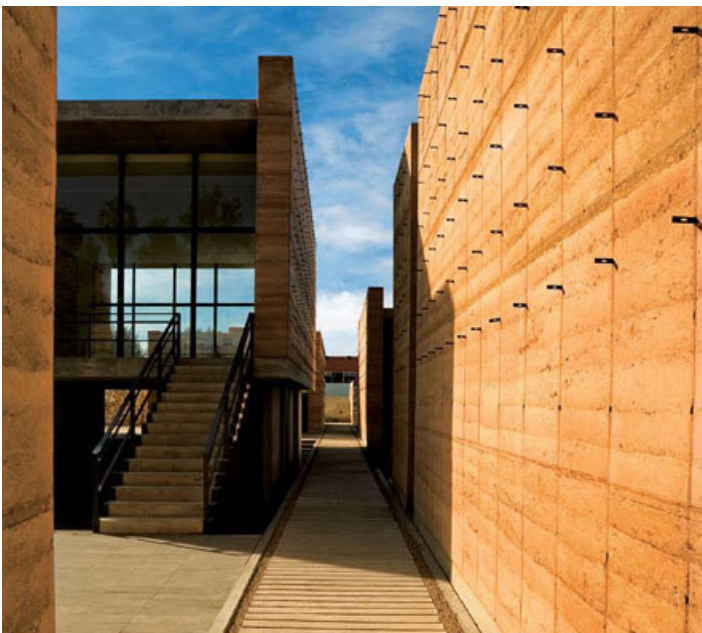
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Project Name: Oaxaca School of Plastic Arts

Project Location: Mexico

Project Construction Date: October 1999 - April 2002

The Oaxaca School of Plastic Arts was designed by Taller de Arquitectura—Mauricio Rocha at the request of artist Francisco Toledo, in collaboration with the Benito Juárez University. An important premise incorporated into the project was the presence on the plot of land of a Mixtec ball game, used on weekends by players. Several campus construction project occurring at the same time made available a tremendous amount of earth, inspiring Rocha to construct several of the buildings within complex out of rammed earth. This enhanced the quality of the exterior courtyards and created a comfortable micro-climate within the building optimal for Oaxaca. Other buildings are made of stone and create a series of inhabitable terraces. Exterior courtyards suggest a floor layout in the shape of a chessboard, where the alternation between mass and space in the walkways creates a variety of views and paths.



Architect : Nicholas Burns Associates

Architect Contact Information:

Singapore

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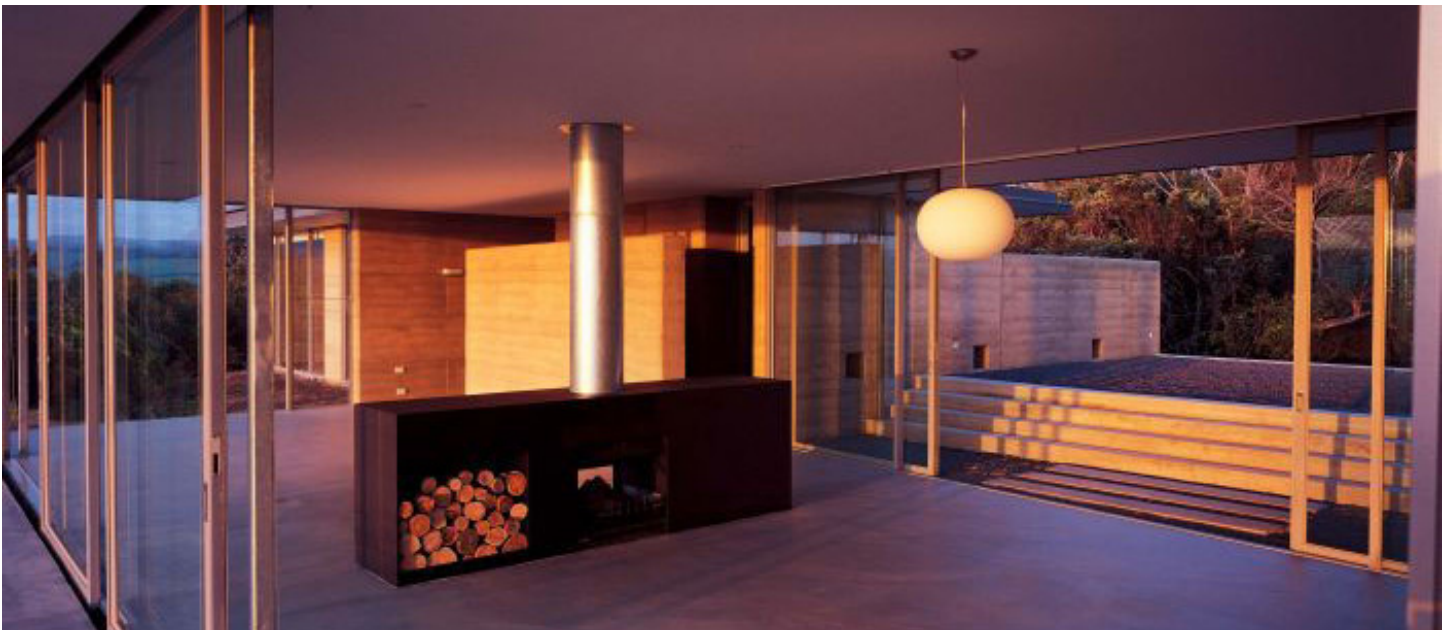
(E) nb@nicholas-burns.com

Project Name: Johanna House

Project Location: Johanna beach, Victoria, Australia

Project Construction Date: 2007-2008

The Johanna House, designed by Nicholas Burns, is a 4 bedrooms, 2 bath house with an open kitchen, dining/living room and cellar located on Johanna beach, Victoria, Australia. The site is on a secluded 100 acres of pristine bush land adjoining the national park with extensive views of the ocean, protected wilderness with known endangered flora and fauna. No trees were cleared in the construction of the house. Materials used were rammed earth, concrete, glass and steel to create a discrete insertion into the landscape, a journey of gradual and layered concealment and opening of the landscape and ocean; contrasting contraction and expansion, heavy and light, opaque and transparent. Pure geometry and detailing to create a stillness, a dematerialising interconnection with nature, landscape and the passing of time, place and present



Architect : Peter Rich Architects

Architect Contact Information:

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Project Name: Mapungubwe Interpretation Centre

Project Location: Limpopo, South Africa

Project Construction Date:

A team carried out a detailed design of structural vaults built from local soil for a new museum at the World Heritage Site of Mapungubwe in South Africa designed by Peter Rich Architects. Michael Ramage (Cambridge), John Ochsendorf, and Philippe Block designed the unreinforced structural masonry vaults in collaboration with Henry Fagan in South Africa. Matthew Hodge developed the cement-stabilized tiles in collaboration with Anne Fitchett (Univ. of Witwatersrand). Based on his experience building the domes of the Pines Calyx in the UK, James Bellamy supervised the vault construction on site. The project was part of masonry research conducted by MIT.



Architect : Pines Calyx

Architect Contact Information:

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(E) enquiries@pinescalyx.co.uk

Project Name: Rammed Chalk: Pines Calyx

Project Location: Kent, UK

Project Construction Date:

The Pines Calyx conference and training centre, an environmentally-friendly building made of chalk extracted from the White Cliffs, at St Margaret's Bay in Kent, is said to be one of Europe's "most sustainable and healthy" structures.



Architect : PlanoB

Architect Contact Information:

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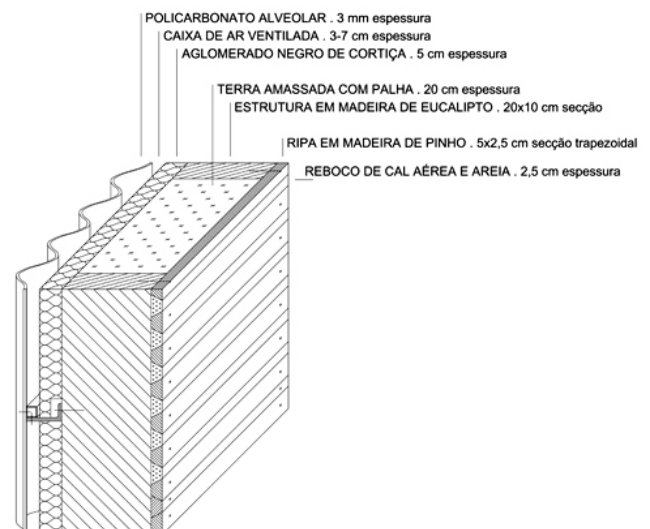
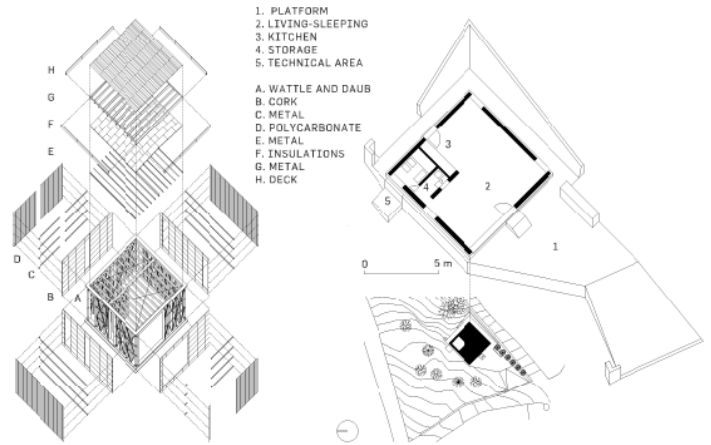
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Project Name: Casa em Arruda Dos Vinhos

Project Location: Portugal

Project Construction Date: 2005-2008

Architects PlanoB from Lisbon, Portugal have completed an innovative house called A Casa em Arruda Dos Vinhos that employs a hybrid earthen wall system that combines elements of rammed earth, cob and wattle and daub similar to the encajonado method used in the historic Briones House in California. The project is a reconstruction of an existing ruin and the site is inside an environmental protection area. This forced the architects to maintain the position, height and use (storage) of the previous building and they proposed to rebuild the house using the previous materials—wood, stone and earth—but in a different way.



Architect : Rael San Fratello Architects

Architect Contact Information:

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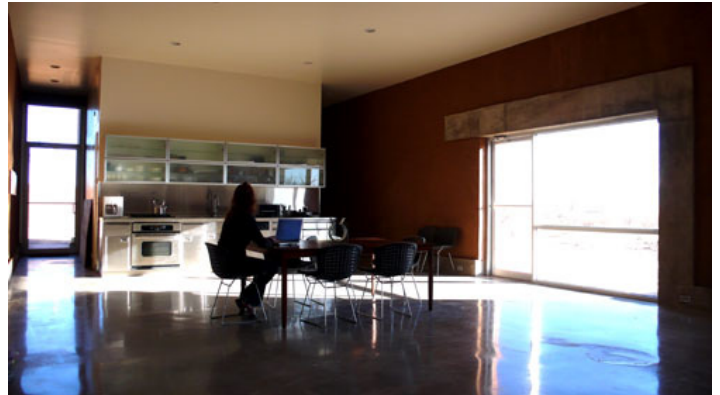
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Project Name: Box Box House

Project Location: Marfa, Texas

Project Construction Date: 2009

The Box Box House is a one bedroom house mud brick house located in Marfa, TX, designed by Ronald Rael and Virginia San Fratello. Ocotillo, mesquite, yucca and sotol serve as the backdrop and the view of the landscape from the house extends out to the Davis Mountains in the distance. The name of the house comes from the large, earthen box that inside contains a smaller box that houses the major utilities of the house (kitchen, bathrooms, storage, boiler, etc). The contrast between the thick, earthen walls and the concrete lintels that interpenetrate the facade to create openings, as well as the use of stainless steel in contrast with the earth, create a tension between old and new, rough and smooth, industrial and non-industrial. Inside, a large courtyard opens to the interior and to the sky.



Architect :

Architect Contact Information:

Project Name: Rammed Earth By Design

Project Location: Australia

Project Construction Date:

Rammed Earth By Design is a rammed earth building company located in Western Australia that provides a complete experience in fully finished residential home design, administration and construction. They offer over 50 predesigned home packages that they can construct throughout Australia and globally.



Architect : Ricardo Higuera

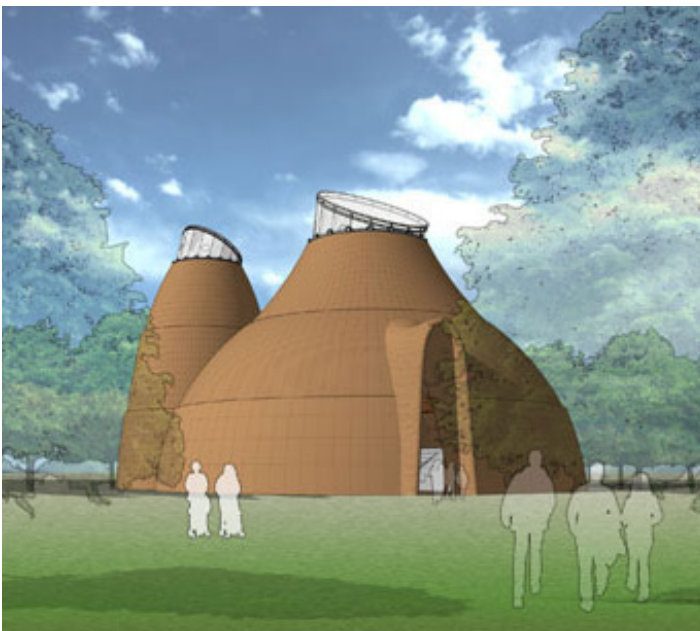
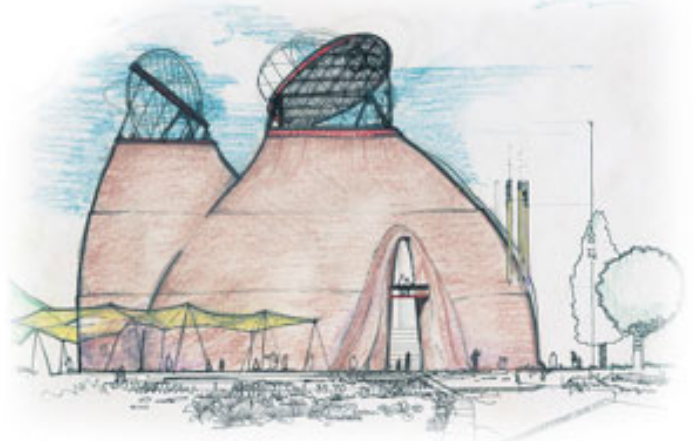
Architect Contact Information:

Project Name: El Faro: The Citizens' Initiative Pavilion

Project Location: Zaragoza Spain

Project Construction Date: 2005-2008

The architectural project of the Citizens' Initiative Pavilion building is the work of the architect Ricardo Higuera for the Zaragoza Expo 2008. The pavilion building will be based on energy efficiency, recycling and sustainability. Both the building's shape and its use are based on the traditional ceramic pitcher. The materials used are natural and come straight from the earth: straw, wood, and clay. Prefabricated clay-plastered panels were attached to a super-structure to enclose the pavilion.



Architect : Rick Joy

Architect Contact Information:

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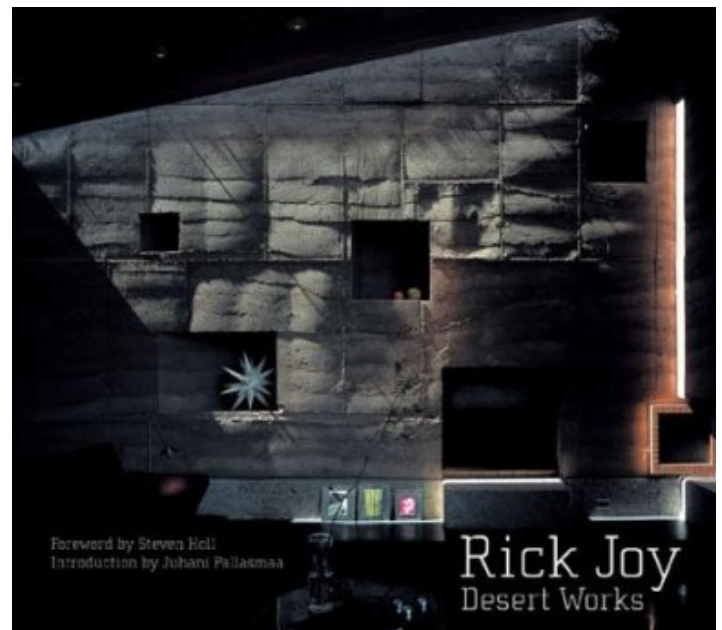
(E) studio@rickjoy.com

Project Name: Desert Work

Project Location: Arizona

Project Construction Date:

Rick Joy: Desert Works contains masterfully modern designs in rammed earth by this Tucson, Arizona based architect. Joy uses color, texture, and materials to turn the six houses shown here into spare and subtle evidence of humanity in a vast natural world. He uses a similar approach, with expanded functionality, in the three studio/office designs that complete this book. The quiet of the settings and the simplicity of Joy's approach are perfect partners in producing architecture appropriate to a vast, unpeopled place.



Architect : Rodrigo Searle y Matías González

Architect Contact Information:

Juan Agustin Alcalde 2876

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Project Name: Hotel Tierra Atacama

Project Location: San Pedro de Atacama, Chile

Project Construction Date: 2007 – 2008

The Hotel Tierra Atacama was built in the historic agricultural lands outside of San Pedro de Atacama, Chile. The hotel offers 32 rooms with a spa and spaces that are in a dialogue with the exceptional countryside. Architects Rodrigo Searle y Matías González designed the hotel using stone, mud brick (adobe) and rammed earth



Architect : Roswag & Jankowski Architekten

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Project Name: Jahili Fort Al Ain

Project Location: Abu Dhabi

Project Construction Date: Dec 2008

The Jahili Fort built in 1898 in Al Ain is now at the centre of an exciting conservation, restoration and development project that will preserve the values of this historic building whilst transforming the site into an active visitor destination.

Renovation and conversion of a historic fort to a visitor centre with exhibition area including the incorporation and design of the exhibition "Mubarak bin London: Wilfred Thesiger and the Freedom of the desert"

Key aspects: strengthening of existing qualities, development of local culture and identity, reutilisation of historic building materials and construction methods, comfortable and energy-efficient air conditioning using radiant cooling.



Architect : Shiro Studio

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Project Name: Radiolaria pavilion

Project Location:

Project Construction Date: 2008

Andrea Morgante, founder of Shiro Studio, has collaborated with D-Shape to produce the Radiolaria pavilion, a complex, free-form structure produced using the world's largest 3D printer. Measuring 3 x 3 x 3 metres, the structure is a scale model of a final 10-metre tall pavilion to be built in Pontedera, Italy, in 2010. D-Shape developed the first large-scale stereolithic printer in 2008 aiming to offer architects the design freedom that rapid prototyping allows them but has so far been confined to scale models. When D-Shape commissioned Andrea Morgante the design for the first large-scale structure to be printed the ultimate aim was to produce a geometry that could be self-supporting and demonstrate the capabilities of this innovative technology: being made of artificial sand-stone material and without any internal steel reinforcement the pavilion's design and execution had to be intrinsically resilient to several static stresses.



Architect : Signer Harris Architects

Architect Contact Information:

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Project Name: West Basin House

Project Location: Santa Fe, NM

Project Construction Date: 2007

Conceived by Boston-based Signer Harris Architects, the Milder residence attempts to “Address the desire of the client to have an antique home of traditional architecture, while avoiding cliché.” The 7,000 square feet residence is off the grid and water efficient and located in the Galiesto Basin Preserve.



Architect :

Elie Mouyal and ADAMA Building & Architecture Ltd

Architect Contact Information:

(T) 044-30-05-02 / 044-31-46-56 (F) 044-30-75-51

(E) contact@eliemouyal.com

Project Name: Villa Jasmin

Project Location: Israel

Project Construction Date:

The Villa Jasmin was designed by Moroccan architect Elie Mouyal and ADAMA Building & Architecture Ltd. The walls are constructed of load bearing rammed earth with fired vaulted adobe brickwork ceilings. The house is named after the mediterranean flower, and represents a neo-traditional style of architecture that reflects influences from the bizantine, nubian, greco-roman and moorish styles. The house is build around a patio that has a south aperture. The patio is the center of the house and the center of the patio has a flat fountain that is an allusion to water source of life. Walls are constructed of stabilized rammed earth in compliance with australian standard that reach high strength of near 2200 psi with 5 % of cement content. The ceilings employ the nubian technique for laying bricks without need of forms that reduce timber use to minimum. Bricks are layed with mortar in circular or curved patterns each row laying on the previous with continuous care on stability, transferring thrust to the walls. The pointed arched vaults employ a corbelled coursing of the bricks, alleviating the use of scaffolding.



Architect : Ward Blake Architects

Architect Contact Information:

200 E. Broadway P.O. Box 10399 Jackson, WY USA 83002

(T) 307-733-6867 (F) 307-733-4741

Project Name: TK-Pad

Project Location: Jackson, WY

Project Construction Date:

Ward+Blake's TK Residence outside Jackson, Wyo., adapts rammed earth building techniques by grafting post-tensioning rods into the foundation's walls, thereby making them nearly as strong as pure concrete, a much more environmentally intrusive building material when compared to green-friendly rammed earth.



Architect : Eike Roswag Dipl.-Ing Architekt

Architect Contact Information:

Schlesische Straße 26, Aufgang A D-10997 Berlin

(T) 49 (0)30 398 00 95-0 (F) 49 (0)30 398 00 95-66

(E) architekten@zrs-berlin.de

Project Name: Haus Ihlow

Project Location:

Gemeinde Oberbarnim, Ortsteil Ihlo Germany

Project Construction Date: Dec 2006

Berlin based architect Eike Roswag's Haus Ihlow is a renovation and addition to a historic stone barn using rammed earth built in the country side near Berlin. It is the first load bearing housing project in Germany since the 1950s. The construction is based on the "Lehmbauregeln", but build with surprisingly thin walls (30cm) and large openings for windows.

The house has passive solar heating with a 60 m2 hot water collector and can store 4,000 liters of water supplemented by a wood fire place, connected to a floor and wall heating system. The owners use rain water for toilets and do wastewater treatment before draining the water on their own ground. Roswag's firm, werk_A has many other projects in rammed earth.



Architect : Weddle Gilmore Black Rock Studio

Architect Contact Information:

6916 east fifth avenue

Scottsdale AZ 85251

(T) 480 517 5055 (F) 480 517 5057

(E) studio@weddleilmore.com

Project Name: Gateway to the McDowell Sonoran Preserve
serve

Project Location: Scottsdale, Arizona

Project Construction Date:

The Gateway was designed to celebrate the entry and passage into the 36,400 acre McDowell Sonoran Preserve while minimizing the impact on the native desert. The Gateway is the point of access to over 45 miles of trails within the McDowell Sonoran Preserve for hiking, bicycling, and equestrian enjoyment. The project site design achieved the complete preservation of the existing network of arroyos and minimized earthwork alterations of the natural habitat. The building walls are made of rammed earth, recalling a tradition of indigenous desert building while meeting all of the performance requirements of modern use. The roof is covered in native desert cobble so that it blends into the desert when observed from the mountain trails to the east. The Gateway incorporates numerous strategies for resource conservation. An 18 KW solar system generates as much solar electricity as the Gateway consumes to realize a 'net zero' of energy consumption. Up to 60,000 gallons of rainwater is harvested through roof collection and storage in an underground cistern—providing 100% of the water needed for landscape irrigation.



Architect : Weddle Gilmore Black Rock Studio

Architect Contact Information:

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Scottsdale AZ 85251

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Project Name: Lost Dog Wash Trailhead

Project Location: Scottsdale, Arizona

Project Construction Date:

The Lost Dog Wash Trailhead is an example of commitment to environment through its preservation of native habitat, choice of sustainable building materials, and natural resource conservation. The structures are nested into the landscape and incorporate materials that blend with the natural desert environment. The rammed earth walls of the structures utilize earth material that was excavated during foundation construction. The trailhead restrooms incorporate a composting system which minimizes water consumption and saves approximately 200,000 gallons of water annually over a conventional system. Gray water and rainwater harvesting provides 75,000 gallons of water a year for landscape irrigation. Solar power is provided to the trailhead facilities by a roof integrated 3,000 watt solar electric array that allows the trailhead to be completely self-sufficient and independent of the electric grid.



Architect : Cutler Anderson Architects

Architect Contact Information:

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Bainbridge Island, WA 98110 USA

(T) 206 842 4710 (F) 206 842 4420

(E) contact@cutler-anderson.com

Project Name: Bodega Residence

Project Location: Bodega Bay, California

Project Construction Date: 2008

The house is an L-shape, wrapping a great bay tree with a 70-foot canopy. Once inside, sunlight pours in from the windows that overlook the vineyards, surrounding hills, and the Pacific Ocean. The intention of the design was to heighten the experience of both settings in terms of light, composition, and materials. To contain the darkness of the forest edge, battered rammed earth walls form the north face. Clerestories sit atop the wall and, from inside, frame the upper tree branches of the redwoods. Wood columns and mullions on the forest edges mimic the randomness of the redwoods, while these same elements become rectilinear along the south vineyards face. The massiveness of the rammed earth compounds the difference in light quality between north and south, but also reinforces the lighter nature of wood framing. The tactile qualities and physical strengths of each of the materials - earth and wood - are reinforced by their proximity.



Architect : Architerre

Architect Contact Information:

385-48 Mangwon-dong, Mapo-gu,

Seoul, Korea

(T) 822 323 2407 (F) 822 323 9841

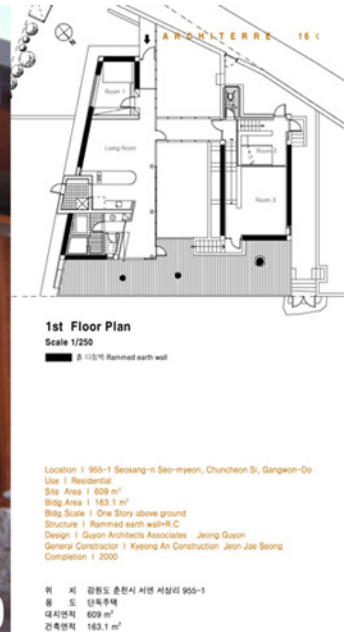
(E) terreshin@hotmail.com

Project Name: Eco-Hameau

Project Location: Belgium

Project Construction Date: 2000

As an exemplary Eco-village project using Mejong cell, Borang near the French borderline has utilized traditional materials of the local community to build an environmentally friendly house in a modern style. Within the timber structure, copeaux bois filled with tree bark and Tromwall System rammed earth of various Eco-Architectural Systems were used. Of particular interest is the rammed earth wall composed of various colors of earth which functions as an art wall at the face of the house.



South Elevation
Scale 1/300



North Elevation
Scale 1/300

Section A
Scale 1/300



Section B
Scale 1/300



Architect : Architerre

Architect Contact Information:

385-48 Mangwon-dong, Mapo-gu,

Seoul, Korea

(T) 822 323 2407 (F) 822 323 9841

(E) terreshin@hotmail.com

Project Name: Gwangju Biennale Exhibition

Project Location: Gwangju, Korea

Project Construction Date: 2000

'The Forest of Humanity and the Forest of Nature' was a representation of the emotions of the earth. An 80 meter long rammed earth wall acts as an axis of culture from the emergence of human civilization to the 21st century. During the exhibition, numerous artists engraved their own expressions onto the wall to signify the evolution of human society, and finally, the termination of civilization. The exhibition sought to represent a balance between human civilization and the continued existence of the natural world.

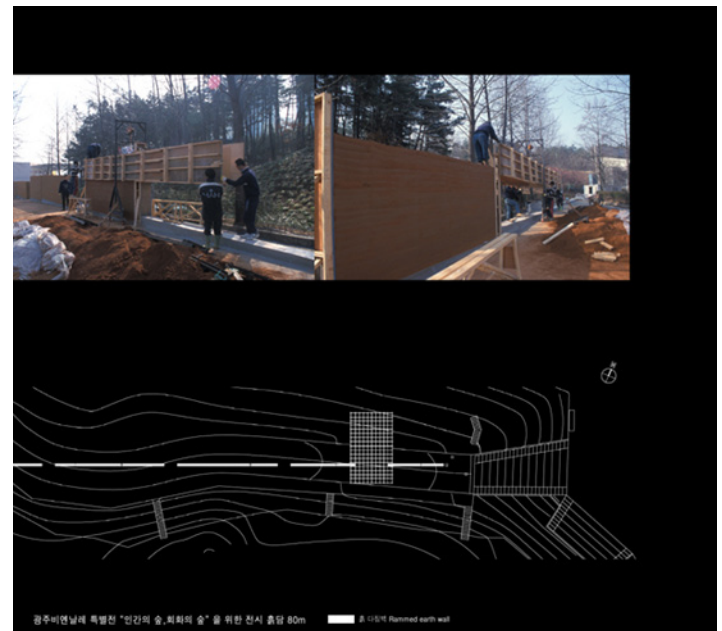
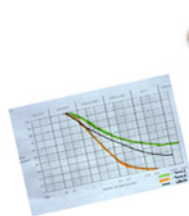


2000년 광주비엔날레 때 기획되었던 "인간의 숲, 지구의 숲" 특별 전시회는 흙이 가지고 있는 또다른 감성을 표현한 사례이다. 자연을 상징하는 흙으로 한층한층 다져서 만들어진 80미터의 흙담은 인간 문명의 생성과 21세기의 문명전에 있는 문화의 축을 상징하였다. 흙 벽 위에 전시회 기간 동안 수많은 작가들이 직접 그들만의 작품을 그리고 칠하고 조각하는 등 감성적인 예술표현을 통하여 인간공동체를 생성 발전시키고 전시회가 끝남과 동시에 허물어 문명의 소멸을 표현 하였다. 이를 통하여 자연속에 존재하는 인간지문과 자연과의 존재의 균형을 찾으려 하였다.

"The Forest of Humanity and the Forest of Nature" was a representation of the emotions of the earth. An 80 metre long rammed earth wall acts as an axis of culture from the emergence of human civilization to the 21st century. During the exhibition, numerous artists engraved their own expressions onto the wall to signify the evolution of human society, and finally, the termination of civilization. The exhibition sought to represent a balance between human civilization and the continued existence of the natural world.

Design : Guyon Architects Associates Jeong Guyon
General Contractor : Kyeong An Construction Jeon Jae Seong
Completion : 2000

총담 길이 : 79.2m
공사 기간 : 22일
설 계 : (주)기공건축 건축사 사무소 정기용
시 공 : (주)광안건설 전재성
완 공 : 2000



Architect : Hannsjörg Voth

Architect Contact Information:

Aldringenstraße 10

D-80639 München

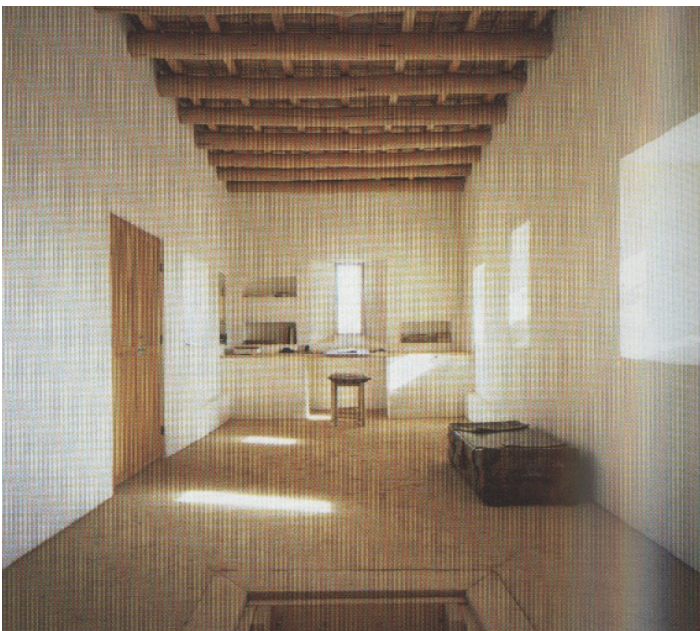
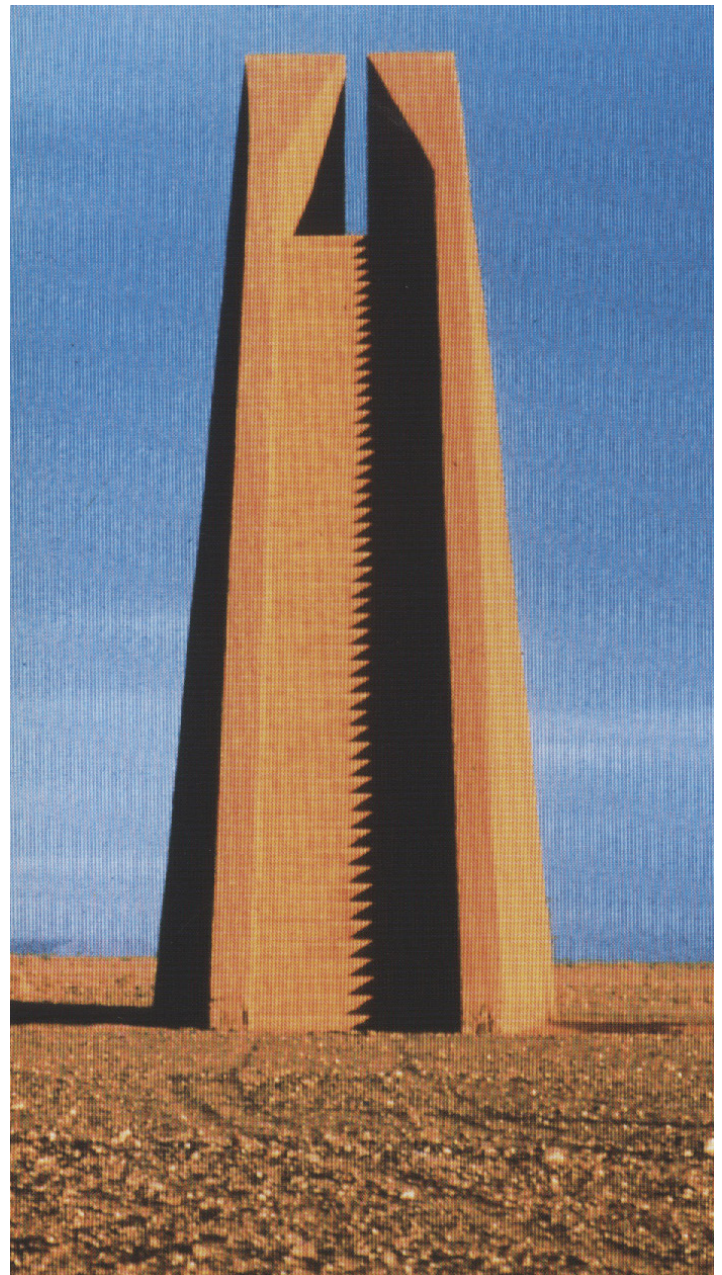
(T)(F) 490 89133596

Project Name: Himmelstreppe

Project Location: Marha-Ebene, Morocco

Project Construction Date: 1980-1987

The building has measured the shape of a triangle, the long limb 23 m, has a height of 16 m. The hypotenuse is 28 m. The front of the building is 6.80 m wide at the base, tapering to the tip to 3.60 m and will be profiled by a 60 cm deep cut and divided vertically. 52 steps lead to a 4 m below the crown lying platform. From this level you can reach untereinanderliegende three floors. In the upper floor of an object from two hand-forged blades installed. The wings, which span is 3.50 m, have a spring dress from hand-forged knives.



Architect : Ar2com

Architect Contact Information:

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Project Name: Scarab's School

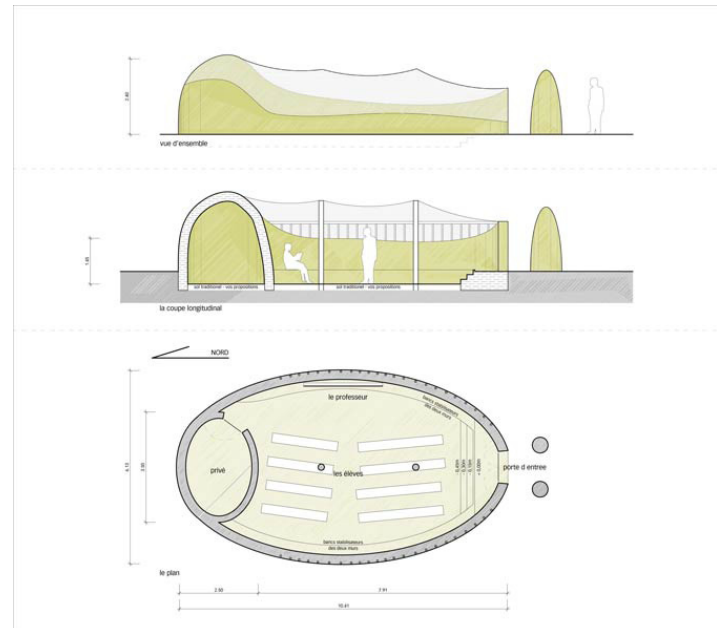
Project Location: Timbuktu, Mali

Project Construction Date: 2009

school for touaregs kids, north of timbuktu

a tribe of touaregs needed a school for ca. 20 to 30 children (5 to 8 years old).

Students did not want a tent but something more durable. They chose a mixed construction of banco and a tent above to protect the adobe of rain. The tent and the banco construction are divided by a wooden gallery to provoke natural ventilation.



Architect : JCL Architecture

Architect Contact Information:

<http://www.theartofconstruction.com>

Colorado:

401 South Mason St., Fort Collins, CO 80524

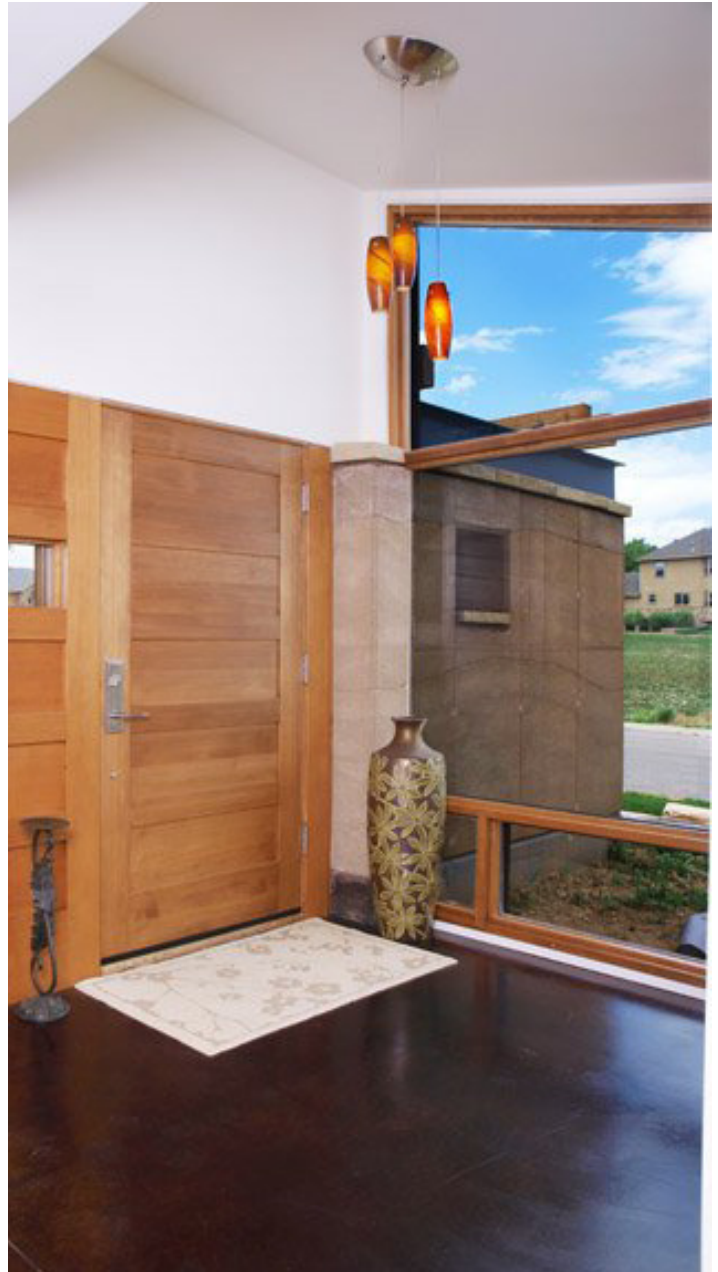
(T)970.224.5710

Project Name: Eddy Residence

Project Location: Colorado

Project Construction Date: 2010

Designed to show the owners' love of nature and appreciation for the environment around them, this single family home looks out at natural open space with Colorado's landscape and nature trails to the south...The sustainable design first features a carefully designed partnership of passive solar strategies combined with high thermal mass. Proper roof overhangs and southern exposure were calculated to allow maximum solar gain in the winter while minimizing heat gain in the summer. The thermal absorbent qualities of the rammed earth walls and dark stained concrete floors on both levels stabilize temperature swings from night to day and mitigate the need to run an air conditioning unit during the summer. These features are then supported by a high efficiency geothermal supplied radiant floor heating system as well as soy based insulation in roof and walls.



Architect : João Caeiro, Capurso Fulvio, Benito Guzman Canseco

Architect Contact Information:

Project Name: The San Isidro Labrador Chapel

Project Location: San Bartolo Coyopec, Mexico

Project Construction Date: May 2010

The San Isidro Labrador Chapel is a collaborative effort of many people, the tangible demonstration of the cooperation of architects, engineers, craftsmen, peasants, creative people and students. João Caeiro e Capurso Fulvio got together with Benito Guzman Canseco (President of the Consejo y Oaxaca Nopal Tuna, e Mayordomo de San Isidro in the years 2009-2010) to organize a series of courses to endorse people with the ability to build houses with noble materials from the region. These courses, mostly hands-on, are addressed to people seeking to build their own houses, within a philosophy of low cost, high quality and contemporary design. The first opportunity emerged in San Bartolo Coyopec, for the construction of a chapel for the saint patron of the cultivated fields, annually celebrated. The building was finished in may 2010.



Architect : Pat Borer and David Lea

Architect Contact Information:

Pat Borer, Cwmwr Isaf, Penybontfawr, Powys, SY10 0HP

(T)(F) 01691 860277 / 453 (M)07870 686799;

David Lea, Ogo Ronwy, Rhyd, Penrhyndeudraeth, Gwynedd, Wales, LL48 6DJ

(T)01766770713

Project Name: The Wales Institute for Sustainable Education

Project Location: Machynlleth, Powys, Wales

Project Construction Date: June 2010



The Wales Institute for Sustainable Education (Wise), designed by architects Pat Borer and David Leais, uses “Basically plants and earth,” to quote Borer. Also animals, as in addition to a timber frame, rammed earth walls and a coating of lime and hemp, it uses sheep’s wool for thermal insulation... Wise is part of Cat, the Centre for Alternative Technology... At Wise, they have used thick walls of rammed earth and avoided PVC, an especially energy-intensive material, in pipes and electrical insulation...[Wise] could have been built of concrete and steel and almost felt the same, but only almost. The choice of materials subtly changes the feel of the place, as well as its carbon footprint. There’s that smell, but also a different touch and acoustic. It’s not spectacular, or fanatical, but it shows one way of doing sustainable architecture in the fullest sense: not just a pile of box-ticking, but making spaces.



Architect : BCHO Architects

Architect Contact Information:

(T) +82 10 8611 8261

(E) bc@bchoarchitects.com

Project Name: Earth House

Project Location: Seoul, Korea

Project Construction Date: 2009

BCHO Architects have completed this house buried in the ground in Seoul, Korea to honour the late Korean poet Yoon Dong-joo. The concrete-lined residence has two courtyards with earth floors, to which all rooms are connected. The earth used for the walls is from the site excavation. Even though the viscosity of the existing earth was low, only minimal white cement and lime was used so the earth walls can return to the soil later. Rammed Earth walls provide all the interior spatial divisions and the walls facing both courtyards. Rammed-earth walls make use of the excavated earth while wood from a pine tree from the site is embedded in the concrete courtyard walls.

