



Earth Building Association of New Zealand

... promoting the art and science of earth building

www.earthbuilding.org.nz

PO Box 1452, Whangarei

EB News 14, 17 April 2006

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The Earthbuilding Association of New Zealand (EBANZ)

EBANZ is a network of enthusiastic and experienced volunteers, who are interested in promoting environmentally friendly, sustainable building, with a focus on earth as a construction material.

EBANZ publishes this bi-monthly magazine, runs an interactive web site, lobbies government organisations, sends out regular email newsletters (EB News), organises an Annual Conference and local events in your area to promote earth building.

Pictures from Ian Redfern's Home in Whangarei



Hands on Adobe Course

April 22-25, 2006, 37 Timaru Rd, Waimate, South Canterbury.

Our aim is to offer participants a fun-filled hands-on experience of adobe brick making and laying and experience of other alternative building technologies.

Saturday 22nd April, 11:00 am: Introduction to Earthwood, Rusty and Wal's adobe house (in progress) and to Robert and Marieke's house (completed). Hands on adobe brick making. Tour of Robert and

Marieke's adobe house followed by dinner.

Sunday 23rd April, 9:00am: we will be laying up adobe bricks to construct a wall, making a cob pizza oven and if time allows a light earth demo.

Monday 24th April, 9.00am: we will be finishing the cob pizza oven and experimenting with straw bale seat as time allows.

Tuesday 25th April: working bee to assist in restoration of local cob cottage. A fantastic morning tea has been promised to all those who attend.

For further information on the course, meals, accommodation and costs contact us:
Ruth Clark, trusteerustee@yahoo.com, 027 2415849 or 03-689-6189.

Hi! My name is Tish

I'm interested in all type of alternative construction (earthbuilding, loghouse, ...) and I'm at the moment looking for a place in the South Island to offer my help in exchange of food and accomodation. Let me know if you, or somebody that you know, is interested by my request?

Cheers,

Tish eyendel@wanadoo.fr

Earth Building Workshop

The Quarry Arts Centre, Whangarei. 6-7 May, 2006.

These two day hands on workshops cover Earth Building Techniques and applications including adobe, in-situ adobe, rammed earth, cob, paving, pizza ovens and passive solar design.

Cost is \$150 p.p. per weekend

Tutor: Henery Mackeson

For further information or to enrol, call us on 09-4381215, or email us on nctrust@ihug.co.nz



Climate Change and Peak Oil

Below is a links to a pdf on the combined global challenges of Peak Oil (the end of Cheap Oil Era) and Climate Change.

This 1.9 MB PDF is the Keynote address given to a recent energy conference in Florida. Also below are links to the Sunday Morning Nat. Radio which (in the "Ideas" sections) focus on Climate Change in NZ (Simon Upton's address to the climate change conference in the second part of the second link is particularly good). Although a side step from Earthbuilding, these links are a good backgrounder to the new world we will face. If there was any doubt that we all need to minimise our greenhouse gas

emissions and maximise our carbon lock up (in trees), these articles should put paid to that.

Peak Oil/Climate Change

http://www.natresnet.org/conference/2006/presentations/Fairey_Keynote.pdf

Climate Change in NZ part 1

<http://www.radionz.co.nz/nr/programmes/sunday/20060402>

Climate Change in NZ part 2

<http://www.radionz.co.nz/nr/programmes/sunday/20060409>

Straw Bale Design & Construction Workshop

Peel Forest, South Canterbury April 24-28, 2006

This week-long straw bale design and construction workshop will be a blend of both theory (classroom) and practical (hands-on) experience. Our project will be a 6-bunk straw bale bunkhouse in which the instructors will guide you through each of the steps of the building process, from foundations to finish work. The building will incorporate use of on-site timber, interior & exterior natural plasters and a living roof. Multiple techniques will be discussed, drawn and one then implemented for each portion of the building system.

We will inform you of the NZ Standards and Codes that you will have to meet, give suggestions on approaching and working with your natural building project with your local Council, update you on recent changes to the code and how those changes affect homeowners, professionals and tradesmen within the industry and describe methods in which to get your project a building consent!

During the week we will also tour local straw bale homes and enjoy evening slide shows. Come prepared to learn lots and get some hands-on experience building a straw bale structure! Workshop limited to 15 participants.

Cost: \$750 + GST for workshop, on-site accommodations + 3 meals/day

Lecturers: Sarah Johnston, Sven Johnston, Julian Kirkwood, Blue Forsyth

Contact: Peel Forest Outdoor Pursuits Centre @ 03 696 3832 or email: pfopc@xtra.co.nz for more information.



International Conference Eco-Architecture 2006

14 - 16 June 2006, The New Forest, UK

Unlike the mechanistic buildings it replaces, eco-architecture ought to be in harmony with nature, including its immediate environs. Decisions have to be taken on ecological grounds concerning locations, siting and orientation, as well as the well-informed choice of materials.

Eco-architecture makes every effort to minimise the use of energy at each stage of the building's life cycle, including that embodied in the extraction and transportation of materials, their fabrication, their assembly into the building and ultimately the ease and value of their recycling when the building's life is over. The

design may also take into consideration the use of energy in building maintenance and changes in its use, not to mention its lighting, heating and cooling.

Substantial savings can be achieved by passive energy systems, especially natural ventilation, summer shading and winter solar heat gain. Solar energy may be used in panels of pipes for heating water and photo-voltaic cells.

The development of Eco-Architecture is principally due to the depletion of natural resources, especially fossil fuels and the need to preserve the balance of nature. The extensive use of steel and glass and the built-in problems of discomfort from solar over-heating and winter heat loss, has led to the widespread use of mechanical systems with the problem of "sick building" syndrome.

Eco-Architecture, wrongly seen by many as dull, inelegant and mundane, is providing instead imaginative and expressive solutions driven by a generation of highly creative designs. It has important cultural as well as architectural impacts.

Eco-Architecture is by definition inter-disciplinary; it requires the collaboration of engineers, planners, physicists, psychologists, sociologists, economists, and other specialists, in addition to architects.

Conference Topics

Historical and philosophical aspects, Ecological and cultural sensitivity, Human comfort and sick building syndrome, Energy crisis and building technologies, Carbon neutral design, Alternative sources of energy (wind, solar, wave, geothermal etc), Design with nature, Design with climate, Siting and orientation, Re-use of brownfield sites, Material selection, Minimal transportation approaches and use of indigenous materials, Life cycle assessment of materials, Design by passive systems, Conservation and re-use of water, Building operation and management, Applications in different building types, Regulations and contracts.

Rachel Green is the Senior Conference Co-ordinator, email: rgreen@wessex.ac.uk

Visit the conference website at:

<http://www.wessex.ac.uk/conferences/2006/eco-arch2006/cfp.html>



EBANZ Magazine- What in the next edition?

- Report from the Award winning EBANZ Stand at the Organic River Festival, near Levin.
 - Earth plastering, with Verena Maeder, in Nelson.
 - Adobe blocks, with Jason Montgomery.
 - Earth Architecture in Southern India.
 - Alan Drayton reports from Earth Song, Auckland.
 - Book review: EcoNest: Creating Sustainable Sanctuaries of Clay, Straw and Timber.
 - Plus: Courses, Regional Contacts details, Advertisers and more wonderful colour pictures.
- (Sorry about the delay in the magazine's production - we are experiencing some technical difficulties)

Traditional Timber Framing Workshop

Post & Beam – Mortise & Tenon Construction

Sun 30 April – Sun 14 May, 2006. Golden Bay Nelson

LEARN: mortise & tenon construction in a hands-on residential workshop held at Tui Community, Wainui Inlet, Golden Bay, Nelson Province. Participants will construct a traditional 'shaker timber-frame' from rough timbers, using traditional tools and methods. In USA and Europe, this is a popular structure for 'light earth' and wattle & daub walls, and is supported by our local building inspector. Areas covered will include history, wood selection, care and use of tools, types of joinery, layout and foundations, frame assembly, plus raising and roofing. Moderate physical fitness and strength will be necessary.

This workshop is akin to an apprenticeship, and only 4 places in total are available.

Instructor: Huckleberry Leonard (from USA).

Huckleberry is a builder of 35 years experience. He is a shipwright and master craftsman, and has cut and assembled several timber frame buildings in North America. He practices traditional methods, and uses hand tools wherever possible. All frames are constructed using joinery and wooden pegs (trunnels) and raised without the use of machinery.

Cost: Residential: \$1075 - \$1250 (means-based sliding scale) Includes: food & accommodation, instruction & instructor, tool use & materials.

Non Residential option for locals: subtract \$180 from the above cost (includes lunches & teas).

Contact: Robina McCurdy, email: robina@win.co.nz, phone: 03-5258605

Special Deal for EBANZ Members Purchasing The Earth Building Standards

30% discount for individual Earth Standards. 40% discount for the full set.

The four special deals are available until 31 May 2006

NZS 4297:1998 Engineering design of earth buildings

Provides for the structural and durability design of unfired earthen wall buildings. The scope is limited to adobe, pressed brick, poured earth and rammed earth and which contain clay and silt and which rely on the clay and silt particles present to achieve satisfactory performance with or without chemical stabilization. Such materials shall comply with NZS 4298 "Materials and Workmanship for Earth Buildings".

NZS 4298:1998 Materials and workmanship for earth buildings

Sets out requirements for the materials and workmanship requirements for the use of unfired earth in the form of adobe, pressed earth brick, rammed earth or poured earth. It applies to buildings which are designed in accordance with NZS 4297 "Engineering Design of Earth Buildings" and NZS 4299 "Earth Buildings Not Requiring Specific Design". This Standard provides a means of compliance with the materials and workmanship requirements of earth walled structures. Test methods for earth building materials and criteria for acceptable results are included.

NZS 4299:1998 Earth buildings not requiring specific design

Sets down construction requirements for earth walled buildings not requiring specific engineering design. Many drawings of construction details which have been proved in New Zealand are included to help builders in earth to achieve durable and weatherproof buildings. To be used in conjunction with NZS 4298 "Materials and Workmanship for Earth Buildings".

For more information on an EBANZ membership. For information on the special New Zealand Earth Building Standards discount please contact:

Richard Morrison, phone: 04-5686838, email: RFMdesign@paradise.net.nz

Sculptured Earthbuilding

3-6 May 2006 New Plymouth

Dhaj and Guenther are holding an insitu adobe workshop. In-situ adobe is a flexible, sculptural, user friendly, method that leaves the doors wide open to let your imagination run free. It also lends itself to incorporate different materials. Our Workshops are project oriented and we leave behind an installation that is an amalgamation of the host's ideas, ours and whoever participates in the course.

Dhaj Sumner, Phone: 09 4085723, email: dhaj@paradise.net.nz

Guenther Andraschko, Phone: 09 4085570, email: guenther65@yahoo.com

Website: www.dhajs-place.co.nz



Are you interested in helping to guide our Organisation into the future? We are always looking for Volunteers for a range of tasks.

Our EBANZ Organisation needs volunteers, someone with vision and guiding hands to act as Chairperson until the next Conference and also someone to help with computer stuff (collection of information for the website and layout of information). If you would like any more information on the either role or have any other jobs that you could assist with please contact:

Richard Morrison, phone: 04-5686838, email: RFMdesign@paradise.net.nz

Peter Olorenshaw, phone: 03-5466176, email: petero@tasman.net

Additional Courses of Interest

Click-through to the courses below to find further information (please ensure that you confirm all event details with the organisers). If you have any events or courses you would like listed in a future EB News, please email the details to the editor, [Richard Morrison](mailto:Richard.Morrison@paradise.net.nz).

Radio FM 104.6	Green Planet Discussion	Radio FM 104.6	Thur 8-9 am
trusteerustee@yahoo.com	Adobe workshop	Waimate	22-25 April 06
www.Koanga.org	Pizza ovens	Koanga	22 April 06
	Sustainable design for your home site	Koanga	3 June 06
	Recycling waste		

	water	Koanga	21 October 06
	Various Lifestyle Courses	Koanga	Various dates
pfopc@xtra.co.nz	Strawbale course	Geraldine	24-28 April 06
www.solidearth.co.nz	Experimental earth building- Hands on	Nelson	29-30 April 06
robina@win.co.nz	Post and Beam- Mortise and tenon construction	Golden Bay	30 April-14 May
nctrust@ihug.co.nz	Earth building workshop	Whangarei	6- 7 May 06
https://jasperweb.cpit.ac.nz	Earth and Strawbale Building	CPIT Christchurch	13-14 May 06 4-5 December 06
www.enviroaust.net	Enviro 06 Conference and Exhibition	Melbourne	9-11 May 06
www.schumachercollege.org.uk	The Sustainable City Course	Devon (UK)	14 May-2 June 06
www.wessex.ac.uk/conferences/2006/eco-arch2006/cfp.html	Eco Architecture 2006	New Forest (UK)	14-16 June 06
www.ecofestnelsontasman.co.nz	Ecofest 2006	Nelson	13-14 August 06

www.solidearth.co.nz	Experimental earth building- Hands on	Nelson	25-27 August 06
www.ecoinnovation.co.nz	Wind Hydro Solar PV and Hot Water	New Plymouth	7-8 October 06
www.earthbuilding.org.nz	Annual Conference Earth Building Association of New Zealand	Thames	21-22 October 06
https://jasperweb.cpit.ac.nz	Wind Water Earth and Sun Sustainable living	CPIT Christchurch	28 October 06
www.Rainbowvalleyfarm.co.nz	Open days	Warkworth	Various dates
www.branz.co.nz	BRANZ CITE course on Sustainability	Wellington	6-10 November 06

In this space we would like to acknowledge members who have contributed to the success of the EBANZ organisation.

This month we introduce Iain Redfern your Assistant Editor and Committee Member



Adobe South is a "boutique" architectural design studio focussing on Best Practice for eco-healthy and sustainable homes, especially for the Owner Builder and offers a full architectural service along with a well founded mentoring service.

We at Adobe South focus on straw bale and earth building and have many of successful

projects undertaken by owner builders to confirm our techniques.

160 Dent Street, Whangarei. ph: (09) 4302020 email: ian@adobesouth.co.nz

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