



ECOLUTION

THE ECO-HOME
JOURNAL

Bulletin

FALL 2003



ECOLUTION BULLETIN

E-co-lu-tion
is derived from ecology,
evolution & solution

Fall 2003

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TABLE OF CONTENTS

Solterre/Eco Acre	3
New Business Members	8
Great Catalogs	10
From the Founder	12
Bulletin Board	14
High Desert Solar Homes	19
Help for Homeowners	21
Holiday Ecology	22
Free Shade Trees	25
Alchemists of Waste	26
Product News	27
Kitchen Renovation - Conclusion	28
Recycling News	31
Book Review	33
Book Store	34

ECO-HOME™ MEMBERSHIP ALERT

Can't remember when you last renewed your Eco-Home Network membership? Good News! You don't have to! Mary Lou Downing has become our new Membership Chair! Many of you have already received and generously responded to Mary Lou's reminder to renew your membership.

However, it still saves us time and expense if you do keep track of when your membership expires and renew before Mary Lou has to send out the reminder letter. So check your mailing label. If the date is prior to today's date, use our membership renewal envelope enclosed in this newsletter to send in your Eco-Home™ Network membership renewal today. Remember, your whole household can join for just \$35.00 (or \$25.00 for an individual).

JAN HOAG,

**E-HN TREASURER & VOLUNTEER
COORDINATOR**

SPECIAL EVENT!

OCT. 29TH • 7 PM

**Book Signing • LA Eco-Village
117 Bimini Place, LA, CA 90004**

Eco-Home™ Network is collaborating with Santa Barbara Permaculture Network (www.sbpermaculture.org), South Coast Permaculture Guild, and the LA Eco-Village to sponsor a book signing of **The New Strawbale Home**, an exciting new book by Catherine Wanek. Catherine will be on hand at 7 PM on October 29th at LA Eco-Village, in the lobby of 117 Bimini Place, LA, CA, 90004. See review of this book on page 33. Sliding scale \$3-\$10 requested donation.

Parking for the book signing is in the Von's parking lot at the end of Bimini Place, south side of 2nd Street. Contact: (323) 662-5207

ECO-HOME™ MEMBER OPEN HOUSE SOLATERRE/ECO ACRE

23139 Gertrude Ave., Perris, CA 92570

Sunday, October 26th, 2003 • 1-4 PM

(Remember to set your clock back Saturday night!)

Eco-Home™ Members Free • Guests \$5 requested donation

Prize to be raffled at site!

A SUSTAINABLE DESERT RESIDENCE

BY GERALD KATZ, OWNER/BUILDER

This project is meant to develop and demonstrate a residence and a self sufficient home site, using the power of the sun for energy, rammed earth for construction, and a variety of energy, water, and resource conserving technologies to sustainably provide for human needs in a desert environment.

Background:

Solaterre/Eco Acre's sustainable design seeks to develop and demonstrate methods of meeting human needs in a way that uses renewable energy, conserves precious resources, and protects the well-being of the of the occupants and the environment. The sustainable challenge of the desert location is to have the site be as self-sufficient as possible in providing energy, water, building materials and food. To live sustainably in the dryland

areas requires maximum efforts to conserve water and protect it from pollution; soils must be built up with composts to be fertile. Trees must be nurtured and carefully used, homes must maintain comfort under conditions of extreme heat or cold, resist high winds, and be fire and termite resistant. Much of the world is desert and many people in desert regions are poor, lacking housing, water, food, and energy. Sustainable development is vital to allow these people to overcome the shortage of resources and the pollution that lead to disease, despair, discord and death. Sustainable desert development is also essential to reduce Greenhouse effects and to allow survival on a possibly much hotter planet.

Solaterre

Solaterre, a self-sufficient home, gets its energy from the sun and is made out of



earth. Solaterre utilizes solar electric and thermal energy to replace grid hook-ups and the use of fossil fuels. It uses rammed earth construction and most of the other building materials are sustainably grown lumber products or are made of recycled materials. The building design, lighting, appliances, and fixtures maximize energy efficiency and water conservation. The building materials will last for an extremely long time, they are non toxic and fire resistant. The owner-builder wants to explore and demonstrate technology and methods that allow people to live a high-quality, healthy, comfortable life that is also economical and helps instead of hurting the environment around us. Not everyone may adopt all the ideas demonstrated at Solaterre, but all can use some of the ideas that are shown.

Eco Acre

The one-acre site used to develop and demonstrate different environmental projects is called Eco Acre. Solaterre is the residence situated on the acre.

It has been opened to the public for Earth Day tours highlighting rammed-earth construction, active solar power production, resource conservation and information. School tours are given at the site to acquaint students with the possibilities of sustainable living. During the tours, children are given hands-on experiences making bricks, planting trees, composting, identifying wildflowers and seeing solar panels pumping water.

Site Description

The site is a one-acre plot of desert land with large boulders and with a slight slope. When we arrived, the only plants were tumbleweeds, a lone palo verde tree, some wild buckwheat and wild grasses. The region is rather dry with less than ten

inches of rain per year. Heavy rains cause run-off from several other properties that flows through the lot and floods the lower end of the property. There was no electricity or gas and would have cost up to fifty thousand dollars to bring water from the nearest connection. For these reasons the land cost ten thousand dollars less than nearby properties with utilities. The ten thousand dollars saved was enough to have a well drilled, install the pump and a photovoltaic system to run it and the home. Even though the site was undeveloped, it's less than one hundred meters from a highway, making it easier for visitors to come to see it.

Water Resources

When the well was dug, water was discovered at forty feet and at fifty feet there was solid granite that continued for two hundred feet until drilling was stopped. Output of the well was only about one quart per minute, which was not considered enough to live on. By allowing water to fill the well hole, about one hundred gallons a day were available to use for living. By using water-conserving fixtures and drip irrigation, our moderate supply of water was enough not only for drinking and washing, there was enough for more than a dozen trees, grape vines and even a small pond. Additional water conservation techniques: mulched water rungs around trees, swales (compost filled ditches for water diversion and absorption) and a percolation pond with water purifying plants, have not only conserved water, but have actually raised the water level in the well and reduced salts and minerals in the water.

Solar Electricity

There are twenty-four 25watt photovoltaic modules producing 600 watts at 12 volts. On average, the system produces

about three kilowatt-hours per day. The modules were bought second-hand and are twenty years old. They have been in the weather since that time and there is no decline in their power output. We use twelve volt DC converted with a 2500 watt, 120 volt DC to AC inverter. We are able to operate a refrigerator, microwave, lights and all appliances, including a washer, using this modest amount of power by using high efficiency equipment. To avoid summertime load on the inverter, an evaporative cooler has been adapted to run directly off solar panels. Electricity produced by the solar panels is stored in 12 six-volt golf cart batteries for use at night. These supply enough power to run the house for a day or two during periods of heavy rain. A gasoline generator is turned on several days per year to provide power and recharge the batteries whenever the voltage drops below 12 volts.

Solar Thermal

We originally used a "batch" solar water heater (a black tank in a box with glass across the front). This was okay for the summer, however in the winter the water had cooled off by the morning. We installed a Solahart solar-thermal thermo syphon flatplate water heater that has given us ninety-five percent of the hot water we have needed. An instantaneous, on-demand propane water heater supplies back-up water heating when needed. With this system we use less than five gallons on propane per year as compared to five gallons per week to run a conventional tank-type water heater. We will be using solar heated water for radiant floor heating to warm the house in addition to passive solar heat gain on the floor and massive walls.

Efficient Appliances

and Appliance Use:

Lighting: All of the lights are compact fluorescent lamps, which use one quarter of the energy of incandescent lamps and last ten times longer. With good fixtures and proper placement it's easy to light a room with less than 20 watts.

Refrigeration: We first tried a conventional frost-free refrigerator. It used nearly twice as much as our daily solar electric output. For several years we used a small manual defrost model; however, it had little freezer capacity. We finally bought a Conserv refrigerator which has a large freezer section, and rarely needs defrosting. It uses as little energy as the manual defrost (about one kW hr. per day). The twin compressors give excellent temperature control in both sections. The Conserv refridge was made in Denmark, and the dealer we got it from is no longer in business, but a web search might turn up another dealer.

Laundry: A front-loading clothes washer uses less electricity and one-third the water of a conventional washer. Clothes become cleaner with less detergent and a high-speed final spin makes it easier to (solar) dry the clothes.

Solaterre

We have named our sustainable home Solaterre because it gets its energy from the sun and is built of earth. We worked to develop a design that carefully uses resources in construction. Walls, floors and countertops are made out of the soil from the earth on site. Recycled steel was used for the roof and framing and form lumber was re-used in cabinets and shelves. Engineered truss joists were economical and fast to erect and were made using less wood and more recycled steel. A septic tank disposes of waste

and a graywater system irrigates some plants. A compost area is convenient to the kitchen. Water conserving plumbing devices are used throughout the house. Materials are non-toxic and painting is not needed.

Rammed Earth

The walls have been built using compacted earth combined with a small amount of Portland cement that has been dampened and tamped into forms erected on the foundation. The forms are held together with pipe clamps. As each section is completed the forms are removed and re-used for the next wall. Earthquake safety standards have been exceeded by installing 1/2 inch rebar vertically and horizontally every 16 inches through the compacted earth. The rebar ties the foundation and a cement bond beam together. Electrical conduit and boxes were built in place when the walls were made.

Steel Roof

The roof is made of twenty-gauge galvanized steel decking screwed to the joists and covered with lightweight cellular insulating concrete. This is an extremely long-lasting, non-toxic, fireproof roofing system material.

Sustainable Lumber

The engineered roof trusses are made by Truss Joist Mc Millan. They use 2" x 4" lumber and metal cross bracing to get maximum strength with as little wood as possible. To avoid using old-growth trees for large dimension lumber the

massive sixty foot long 4" x 12" wood beam supporting the verandah is made of small-dimension trees crushed and reformed into one continuous piece. The wood we used for forms was reused several times and much of it has been incorporated into the structure as recycled lumber.

Heating

The house has been oriented to achieve maximum solar gain in the winter, where sunlight enters large south windows and warms the floors and walls. Flexible tubing under the floor can heat the house with solar heated water or water heated by an on-demand propane heater or waste heat from a back-up electric generator. A wood-burning fireplace and radiant propane heaters can provide additional heat if needed. The eighteen-inch thick rammed earth walls have more than 200 tons of thermal mass that maintains a constant temperature. Tightly fitting double paned windows hold heat in the house while allowing heat gain from the south.

Cooling

The design of the house provides for comfort in the summer by the use of extensive overhangs on the south and west side of the home. An eight-foot wide verandah on the west side blocks the

hot afternoon sun. An elevated section over the great room has opening clerestory windows that create a chimney effect and make air circulate through the house. The light-weight insulating concrete on the roof covered by a heat reflecting coating that blocks solar heat gain, combined with the rammed earth walls, keeps the house cool even on very hot days.

For additional cooling an evaporative cooler is run directly with photovoltaic modules. The DC cooler uses only one hundred watts rather than the six hundred watts an AC conventional cooler might consume. The evaporative cooler can drop the temperature 15 degrees F, and using its own solar modules, the cooler goes on when the sun comes up and runs until it sets.

Costs

This house was designed to be low in cost to construct, operate and maintain. The rammed earth walls used about \$1,500.00 in cement and re-bar. The foundation and bond beam together cost less than \$3,000.00. The trusses and beams cost about \$6,000.00. The lightweight cement insulation will cost more than \$8,000.00. Doors, windows, plumbing fixtures, electrical wiring, cabinets and flooring will add another \$10,000.00 to the total. An estimate of \$50,000.00 for the whole project seems reasonable. In addition to these costs, there was much labor by the owner-builder so labor wasn't included in the total. Since the project was pay-as-you-go, no interest costs were incurred.

Long-term operating and maintenance costs are expected to be extremely low because of the self-sufficient energy and water systems and the durable construction material.

Future Plans

Teaching people how to live and build

sustainably at workshops at the site is one objective.

Another plan is a transportation project to get or build a hybrid vehicle that can be charged with solar modules on a carport, or use an efficient onboard generator that would give the vehicle extended range. The vehicle's generator could also be used to provide back-up power for the home.

Landscaping is also planned. We want to grow low water use plants, trees and vines that improve soil quality, and/ or provide nuts or fruit and shade, and develop a sustainable organic garden on some parts of the property. The back of the property will use native species that require no maintenance and would support indigenous animals and insects.

Directions

From L.A.: I like to come east on 60, it's just a mellow freeway. When you come up the hill past Riverside, branch off to the right on 215 South towards San Diego instead of continuing on 60 to Indio. Drive about 15 miles until you reach Perris, highway 74 WEST. (74 east is a little further and would take you to Hemet). Turn right and come through town. Drive about 5 miles, 1 mile past Ellis. Turn left at the Sophie St. SIGN, it is exactly across the street from the dirt lot that becomes Gertrude. You'll see handmade Gertrude St signs, balloons and the Earth flag. 23139 Gertrude Ave. is about 1/8 mile down the dirt road on the right.

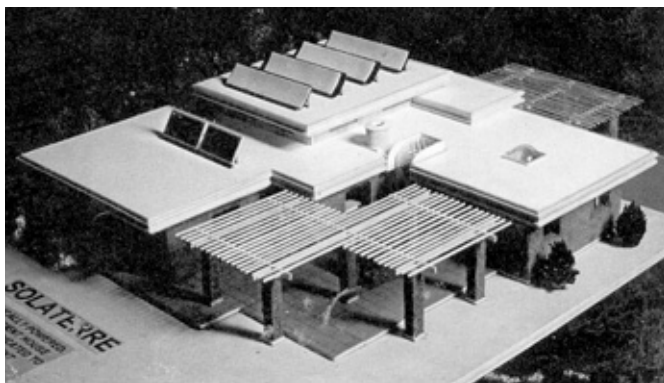
From San Bernardino: South on 215 to Riverside. Merge into the San Diego 215 So/60 carefully. Continue up the hill past Riverside, and then same as above.

From San Diego: North on 215. Exit on 4th St. Perris, Highway 74 W. but turn left. Then continue as above.

Please feel free to call us the day or two before the Open House if you need additional directions.

Phone: (909) 943-1980, Fax: (909) 370-5561. E-Mail: gszkatz@pe.net or gkatz@ci.colton.ca.us

GERALD M KATZ.



NEW BUSINESS MEMBERS

RECYCLED HOME INTERIORS

BY LUCINDA BAILEY

A new Eco-Home™ Network Business member, Lucinda Bailey, Allied Member, ASID, has dual degrees in Ecosystems Analysis and Interior Design. As an interior designer, she employs the principles of reduce, reuse and recycle in developing interiors for residential and commercial clients.

Using the word "recycled" in the same sentence as "home interiors" may make some people think of cardboard furniture or plastic chairs and carpets made from recycled soda bottles. But there are other, even more interesting, ways of incorporating the recycling concept into home interiors, specifically: salvage, reuse and vintage.

Home interior style elements don't have to match perfectly. The trick to successfully combining an eclectic mix of interior furnishings is for the items to have at least one thing in common, be it finish, scale, color or texture.

Salvage yards can provide everything from building materials, windows, doors, hardware, lighting fixtures to artwork for your home. Older items frequently have detail and construction quality not available in today's products. By looking to salvage, you preserve the past, reduce new manufacturing and often find just the piece to enhance the interest and variety of your home decor.

Smart Salvage Shopping

- Check your local building codes, they may require that glass in certain areas of your home be tempered.
- Record and keep handy the exact measurements of your space (door, window, hardware) or size and finish needed for lighting fixtures, handles, etc.
- If you need two of an item, check with the salvage yard owner to see if they have it stored away.

Reuse Ideas

- old fence pieces lined with wire mesh = fireplace grate
- fence sections or old cabinets = room dividers
- flat-topped magazine rack = child's nightstand.
- Old tubs beyond repair = vegetable bed planters, (especially if you live in an area frequented by gophers)

Vintage is defined as "of old, recognized and enduring interest, importance or quality." Vintage furniture, textiles, lighting or housewares differ from just "used" items of the same categories in that they typically represent a particular period of history (such as the 1950s). Vintage items add a touch of nostalgia, a dash of design flair and often have years of life left. Their design character presents a pleasant contrast to a wide range of other styles, from antique to modern. An easy chair from the 50's, can be recovered to serve as a cozy reading spot in the den or in a corner of the master bed room.

Salvage and vintage artifacts are terrific, thought-provoking conversation pieces, and you have rescued a bit of history along the way. There are many environmentally safe refinishing products available should you need to refinish or refurbish your new-found treasure. "Recycled" home interiors are often the most interesting, comfortable, and perhaps most important, environmentally thoughtful.

JAMES HEIMLER, ARCHITECT, INC. A GENERAL PRACTICE ARCHITECTURAL FIRM

Providing quality and timely architectural, master planning and space planning services, our goals are to design for an environmentally sustainable future with passive solar homes, energy efficient office buildings and earth friendly building materials. JHAI is involved in 100+- projects/yr. with approximately 25 residential in nature, with many of these clients converting to flash water heaters and photovoltaic systems.



Example 1: A passive/active solar home in the hills of Malibu. Design concepts in use include: two separate greywater systems for water reclamation, the use of a hydronic floor temperature control system utilizing photovoltaic or solar panels, greenhouse/inside tunnel temperature controlled air will be piped into the residence and angular shape and canopy design work to control sea breezes.

Example 2: A new office building over subterranean parking - integrating passive and active energy efficiency technology, state of the art water features, lighting, atmospheric separation, reflective surfaces, double flush water closets,



waterless urinals, reflective roof surfaces and photovoltaic roof arrays to name a few. Earth friendly building materials used included locally mined slate flooring, woods from certified forests, recycled drywall products and rubber sports floor, and natural materials for wall coverings.



Example 3: A new office building replaced a similar building damaged by fire from the Los Angeles, January 17, 1994, earthquake. Accolades from LADWP were received for the building's energy saving design and use of energy efficient products. They stated "The Scotty Building is one of the most noteworthy projects included in our recent 'Design Advantage,' new construction program. The shading and daylight features are not only important aesthetic additions to the building architecture, but also creative, energy saving items." The design included high efficiency, heat-mirror glazing for the second floor; efficient lighting for the second floor offices and corridor, day lighting controls for the second floor corridor, and efficient, package air conditioning and the advanced building control system that added to the efficiency and flexibility of operation.

Example 4: Proposed development of an environmental Research Facility for UCLA/Stunt Ranch located in the Santa Monica Mountains. This project was to incorporate a passive heating and cooling system with back up high efficiency pellet burning stoves/fireplaces.

JAMES HEIMLER

We're proud to welcome James Heimler, Architect, Inc. as a new Business Member of the Eco-Home™ Network.

GREAT CATALOGS

I'm a great fan of mail order catalogs. Compared to store shopping, it saves energy (mine as well as fossil-fuel energy), protects air quality and offers a virtually unlimited range of products for my consideration. I know they say that on-line shopping is the promise of the future and it has some of the benefits of catalog shopping. But, personally, I don't want to spend any more time in front of my computer than I have to! I much prefer to lounge in a comfortable chair indoors or out and leisurely peruse a colorful catalog. So, here are some of my favorites:

Alternative Gift Catalog

Here's a way to give where it's really needed. The next time a gift-giving opportunity

comes along, instead of giving something to someone who already has enough, which is most of us, the Alternative Gift Catalog offers the option to give to special projects of non-

profit organizations that are meeting urgent needs around the world such as: homelessness, illness, hunger, medicine, food, water, shelter, livestock, education and environmental protection and restoration. When a friend's birthday came around recently, it was a very good feeling to donate the amount I would have spent for a "thing" for my friend, who doesn't need or want any more "things" to take care of, and instead provide sustainable food growing training to 10 Haitian farmers! My friend called me later to say how thrilled she was to receive the

card from the Alternative Gift Catalog informing her of the gift made in her name. She was also delighted to learn about the Alternative Gift Catalog. Now she will be using it for her own gift-giving occasions. It's a win, win, win choice. (800) 842-2243, www.altgifts.org

Lehman's Non-Electric Catalog

This is a catalog for authentic simple living. It was founded over 40 years ago to "serve the Amish and others without electricity with products for simple self-sufficient living." The cover of the 1999 Revised Edition is a pastoral scene of fields and farmhouses with a horse and buggy trotting down the road. Yes, they sell horse buggies and carriages(!), composting toilets, manual water pumps, hand mowers, non-electric toasters, handmade soaps, fruit presses, scythes, an air-powered(!) MiniMaster Mixer, sleds, treadle sewing machines, woodstoves, non-electric lamps, 2 types of solar ovens, hemp rope, weather vanes — every possible aid to non-electrified living you can imagine and more.

Their lamp assortment is fascinating. They have kerosene lamps, olive oil lamps, natural gas lamps, table lamps and hanging lamps, carriage lamps and lamps which burn their special pure, non-smoking, non-smelling lantern fuel and also a special citronella oil fuel for outdoor use to repel insects. The Aladdin oil lamp series is spectacular in its variety of style and produces the light equivalent of a 60 watt bulb. Their Best Kerosene Lantern puts out as much light as a 400 watt bulb! Lehman's Non-

Electric Catalog can be ordered from Lehman Hardware and Appliances, Inc., One Lehman Circle, PO Box 41, Kidron, OH, 44636. (330) 857-5757, info@lehmans.com, www.lehmans.com

Unicef Cards And Gifts Collection

The funds received by the United Nations Children's Fund (UNICEF) from the sale of cards and gifts are used in more than 160 countries and territories to provide children with health care, improved nutrition, education, clean water and protection from discrimination and violence. Their catalog is a delight to the eye and spirit. All cards are printed on recycled paper. (888) 238-8096, www.unicefusa.org.

Harmony

Published by GAIAM, which bought Real Goods Company, Harmony takes the place of the Real Goods catalog. It offers a full array of products for healthy sustainable living from organic clothing and bedding and non-toxic cleaning to energy efficient lighting and eco-gardening products. The merchandise is a bit pricey, but well-screened for genuine health and sustainability. 800-869-3446, www.gaiam.com

The Vermont Country Store

This is truly an old-fashioned country store in catalog form. Its products have the quality we oldsters remember from childhood when toys were solidly made of metal and wood, clothing was made with durable and beautiful fabrics to last, styles were classic. Just a few of these fine products are Vermont-made soaps, rubber swim caps and hot water bottles, natural bristle hair brushes, English Rockingham teapots, hand-loomed 100% cot-

ton table linens, Vermont maple syrup, maple butter and candies, spiced windmill cookies — remember those? I get all my ribbed cotton tights and under-shirts for winter warmth and comfort from this catalog and they last for years. Now that I've cut my hair short I'm thinking of ordering their wool scarf hat to keep my neck and ears warm this winter. In the last few years they've been adding carefully chosen modern products, like electronic pest-control devices, full-spectrum light bulbs and plug-in vaporizers. I get a warm and secure feeling just from perusing this catalog. I guess that's the appeal of nostalgia, but with the added benefit of knowing that these high quality products are still being produced today! (802) 362-8440, www.vermontcountrystore.com

Healthy Home

This relatively new catalog published by HealthyHome.com, Inc. has a corresponding website, www.HealthyHome.com. Their inventory of products reflect concern for personal health, environmental health and sustainability. Find items from electric bikes, non-toxic paint and wood finishes, water purifiers and filters, organic bedding, a countertop dishwasher to books. Fascinating! (800) 583-9523



FROM THE FOUNDER

October Open House

Gerald and Sharon Katz's fascinating owner-built rammed earth home, Solaterre/Eco Acre, in Perris, CA, will be open to Eco-Home™ Network members and friends on October 26th! We last visited it in 2001 when the doors and windows had not yet been mounted and the floors not yet laid. We're looking forward to viewing the progress that has been made since then and, as you'll see from the feature article starting on page 3, Solaterre/Eco Acre is in-depth, hands-on, earth-based, genuine, 14-carat, cooking-from-scratch sustainable building and living!

Raffle Prize

The raffle prize we have lined up for this Open House is an LED flashlight, good for 11 years of continuous use without a battery change! See more on this amazing product on page 27.

Book Signing

Eco-Home™ Network is collaborating with the Southern California Permaculture Guild in Santa Barbara and the LA Eco-Village to sponsor a book signing of **The New Strawbale Home**, an exciting new book by Catherine Wanek. Catherine will be on hand at 7 PM on October 29th at LA Eco-Village, in the lobby of 117 Bimini Place, LA, CA, 90004. See review of this book on page 33. Parking for the book signing is in the Von's parking lot at the end of Bimini Place, south side of 2nd Street. Sliding scale \$3 - \$10 requested donation.

Solar Homes Open in October

October is a busy month, even without our usual "Homes for the Future" tour. You can get information about solar homes open to the public during October, 2003, as part of the American Solar Energy Society's

Solar Homes Tour on our web page www.ecohome.org. Click on Solar Homes.

New Membership Chair

Many of you have already received and generously responded to the reminder from our new volunteer membership chair, Mary Lou Downing, to renew your membership. Thanks to Mary Lou and you, Eco-Home™ Network is no longer a leaking cistern!

Two more new Business Members

Lucinda Bailey, Interior Designer, is one of two new Business Members featured in this issue of Ecolution. Lucinda's specialty is environmental interiors. Check out her article on recycled interior design on page 8.

Jim Heimler, Architect, Inc., is one of the first few architectural firms to champion environmental design and building and has been doing so for over a decade. His article on page 9 outlines a sampling of their recent projects.

New Partners

Check out page 21 for an announcement of an exciting new partnership between the Eco-Home™ Network and the League of California Homeowners. The League has been a strong advocate for homeowners and a leader in promoting residential energy efficiency for many years. Our missions and work are complementary and we feel our members will benefit greatly from our greater collaboration.

Co-sponsorship

E-HN is proud to be once again co-sponsoring the annual Local Government Commission's Smart Growth Conference on January 22-24, 2004, in Portland, OR. Portland is famous for its advanced public transportation system. I'm pleased to announce that E-HN President, Ellen

Mackey, and I will be making a presentation entitled "Landscaping a Sustainable Future" on integrating native plants and food production into urban planning.

Restoration Economy

I'm very excited to observe that there are two conferences on restoration scheduled in the next few months. **Restoring Native Ecosystems**, sponsored by the National Arbor Day Foundation in cooperation with **Land and Water Magazine**, breaks new ground in two ways. First it includes the built, even the urban environment, in its definition of ecosystems and second, it presents the concept of the Restoration Economy which was introduced by Mr. Storm Cunningham, author of **The Restoration Economy**, editor of **The Restoration Economy Leader**, and CEO of RestorAbility, Inc. The crux of the concept is that the major driver of economic growth in the twenty-first century will be redeveloping our nations, revitalizing our cities, and rehabilitating and expanding our natural ecosystems. It is based on an evolutionary vision of an economic system that creates local health and wealth without causing a corresponding loss of health and wealth somewhere else. It finally creates a single discipline of ecology and economy, which they should have been doing all along. An economic theory uninformed by ecology is a castle in the clouds, as we are finally beginning to realize.

Assembling the Pieces, Restoration, Design and Landscape Ecology, planned for November in Austin, TX and sponsored by the Society for Ecological Restoration International is somewhat more limited in its scope, but presents case studies and methods and technologies of ecologically sound landscape restoration. These are the people that have been on the ground, doing the work, designing and using

the nuts and bolts of successful ecosystem restoration, demonstrating its benefits, moving it to the point where it can now emerge onto the world stage as the basis for a new and sustainable economic order.

See our Bulletin Board for more info on these conferences.

Holiday Ecology

Wouldn't it be refreshing to stop to take a breath before the holiday rush begins to put the "holy" back in holiday? For me, that means recognizing and giving thanks for the gift of life. It means contemplating the awesome confluence of natural and spiritual forces that enable planet earth to support the dizzyingly diverse family of life on earth to which we belong; the miracle of you, me, here, now, awake!

Grounded in awe and gratitude the concept of gifts and the action of gift-giving and receiving becomes ritual enactment of the unfathomable gift of existence itself. "Think Green" and "Think Global" when planning what to give and how to give it. See pages 22-24 for ideas.

Fall Garden Report

I'm pleased to report that the non-toxic pest control products I ordered to protect my apples this year seem to have been quite effective. Last year every apple from our apple trees was infested with a pest. This year, so far, it looks like about 60 percent of the apples are pest-free! I'm thrilled. It seems like a great success for just one season. I'll continue using them next year and expect to decrease the pest damage to the apples even more.

The non-toxic Apple Maggot Traps and Codling Moth Lures I used can be obtained from Peaceful Valley Farm Supply, (888) 784-1722, web: www.groworganic.com

HAPPY HOLIDAYS!
JULIA S. RUSSELL

CONFERENCES**October 15-17****Building Industry Show (BIS)**

Anaheim Convention Center, Anaheim, CA
(909)396-9993 or www.biasc.org/BIS

October 15-18**EEBA 2003: Excellence in Building Conference Chicago, IL**

Sponsored by the Energy & Environmental Building Association.
(952) 881-1098, www.eeba.org/conference

October 17-18**Xeriscape Conference 2003 Albuquerque, NM**

Sponsored by Xeriscape Council of New Mexico.
(505) 341-5743, www.xeriscapenm.com

October 21-22**Restoring Native Ecosystems Nebraska City, NE**

Sponsored by the National Arbor Day Foundation.
Introducing the Restoration Economy which is based on redeveloping our nations, revitalizing our cities and rehabilitating and expanding our ecosystems. The Restoration Economy adds health and wealth in a way that doesn't cause a corresponding loss of health and wealth elsewhere.

(888) 448-7337,
www.arborday.org/RNEcoconference

October 24-26**Modern Earth Building Int'l Conference and Expo. Berlin, Germany**

Information: www.moderner-lehmbau.com

October 27-28**Sustainable Innovation 03 Towards Sustainable Product Design: 8th International Conference**

Nordic Sea Hotel, Stockholm, Sweden
Organized by Centre for Sustainable Design, UK

Sponsored by The Nordic Council of Ministers, Sweden; Swedish Business Development Agency (NUTEK) and Ministry of Environment, Sweden.

Supported by World Business Council for Sustainable Development (WBCSD), Switzerland; Department for Environment, Food & Rural Affairs (DEFRA), UK; Sustainable Trade & Innovation Centre (STIC), The Netherlands

Register at www.cfsd.org.uk/events/tspd8
Contact: Russ White, Conference Administrator, e-mail: rwhite@surrant.ac.uk
Website: www.cfsd.org.uk

SPECIAL EVENT !**October 29th, 7 PM****Book Signing****LA Eco-Village, 117 Bimini Place, LA**

Eco-Home™ Network is collaborating with the Southern California Permaculture Guild in Santa Barbara and the LA Eco-Village to sponsor a book signing of The New Strawbale Home, an exciting new book by Catherine Wanek. Catherine will be on hand at 7 PM on October 29th at LA Eco-Village, in the lobby of 117 Bimini Place, LA, CA, 90004. See review of this book on page 33. Sliding scale \$3 - \$10 requested donation.

Parking for the book signing is in the Von's parking lot at the end of Bimini Place, south side of 2nd Street, (323) 662-5207

October 30- November 3**ASLA Annual Meeting and Expo New Orleans, LA**

Sponsored by the American Society of Landscape Architects.

(888) 999-ASLA or www.asla.org

November 12-13**Green Power 2003****Ft. Lauderdale, FL**

Sponsored by Green Power Magazine.
(800) 903-9488

November 12-14**USGBC Int'l Conference & Exposition Pittsburg, PA**

Sponsored by the U.G. Green Building Council with AIA-COTE, CSI, and ULI.
(202) 828-7422, www.urgbc.org

November 19-22**Assembling the Pieces, Restoration, Design and Landscape Ecology Austin, TX**

Sponsored by the Society for Ecological Restoration International.

info@ser.org, or

www.ser.org/meeting.php?pg=2003conference

January 22-24, 2004**3rd Annual****New Partners for Smart Growth**

Building Safe, Healthy and Livable Communities
Portland, OR

The latest research, implementation tools and strategies, successful case studies, new partners, new projects, and new policies for creating healthy, walkable, and resource-efficient communities.

Contact: Michele Kelso,
(916) 448-1198 ext. 308

www.outreach.psu.edu/C&I/SmartGrowth/

January 31, 2004**Baer Fair #27****Marin Civic Center, San Rafael, CA**

The largest environmental education event designed for the teaching community.

(510) 657-4847

February 26-28, 2004**1st International****Tropical Architecture Conference Singapore**

The theme for this inaugural conference is "Architecture and Urban Design in the Tropical Regions: Sustainability and Society."

Organized and hosted by the Centre for Advanced Studies in Architecture, National University of Singapore, this international

conference aims to provide a platform for researchers and practitioners in the tropical (and subtropical) belts of the world to share various research and practice solutions to climatic problems to further improve environmental and social sustainability in these regions.

Prospective authors are invited to submit an abstract of 500 words electronically via the conference website at:

www.arch.nus.edu.sg/iNTA/index.htm

Email: inta@inmeet.com.sg

March 15-17**IAQ 2004 - Critical Operations: Supporting the Healing Environment Through IAQ(Indoor Air Quality) Tampa, FL**

Sponsored by ASIHRAE and American Society of Health-care Engineers

(404) 636-8400,
xp20.ashrae.org/MEET/IAQ2004.htm

March 17-20**Greenprints 2004 Atlanta, GA**

Sponsored by Southface Energy Institute and Georgia Environmental Facilities Authority.

(404) 872-3549, www.greenprints.org

August 22-27, 2004**Breaking Out of the Box 2004 ACEEE Summer Study on Energy Efficiency in Buildings**

Asilomar Conference Center,
Pacific Grove, CA

Contact: Rebecca Lunetta at Fax: (302) 292-3965 or rlunetta@comcast.net

COURSES**Institute of Social Ecology (ISE) Plainville, VT**

(802) 454-8493

Three concentrations — on-site study:

Ecological Building
Social Theory and Action
Ecological Land Use

Spring 2003 offerings include a wide array of courses and facilitated study, noncredit workshops, and intensive practica.

www.social-ecology.org/jump.php?id=149

Summer Institute Programs Sustainable Design, Building, & Land Use

Using the Institute for Social Ecology's 50-acre site as a laboratory, this program provides instruction in permaculture, organic agriculture, community design, ecological building, and forest ecology, while fostering a critical understanding of the social and political contexts in which these alternatives may be applied.

www.social-ecology.org/jump.php?id=145

Arts, Media, Activism, & Social Change

This fourteen-day program is intended for artists, activists, and media makers who wish to create and examine socially engaged art and media projects. Over the course of the program, students will receive hands-on experience and exposure to a wide array of activist art and media, including spoken word, culture jamming, puppetry, audio and video production, radio production, and web-based media and art.

www.social-ecology.org/jump.php?id=146

Ecology and Community

This program is intended as an intensive educational experience in the field of social ecology. This interdisciplinary, college-level program explores social ecology, nature philosophy, community development, political theory, social movements and activism, popular education, radical agriculture, capitalism and globalization, racism, feminism, and more.

www.social-ecology.org/jump.php?id=147

Theoretical Inquiries in the Age of Globalization

This eight-day intensive focuses on areas such as philosophy, social and political theory, and history as part of a scholarly inquiry into the "age of globalization." By theoretically exploring the past as well as

the present, this continuing studies program hopes to deepen students' understanding of dynamic social phenomena such as capitalism, statecraft, racism, and the devastation of the natural world, to name a few. This intensive is intended both to rekindle students' desire for further study and offer intellectual inspiration for ongoing activist work.

www.social-ecology.org/jump.php?id=148

For further information on programs, contact the ISE by email at info@social-ecology.org, telephone (802) 454-8493, or visit their web site www.social-ecology.org

IBE Building Biology Online Study Program How Electromagnetic Radiation (EMR) Interacts with Building Design

First in a series of 15 Course Packs tackling all aspects of sustainable building and design created by the International Institute for Baubiologie & Ecology, Inc.

You can view a sample program at:

<http://baubiologie.us/learn/sample>

New upcoming Course Packs include: Electrical Home Wiring, and Indoor Climate
For further details (727) 461-4371, baubiologie@earthlink.net or <http://baubiologie.us>

To register please go to <http://baubiologie.us/secure/register.cfm>

Summer 2004 Naropa University Online Master of Arts Degree in Transpersonal Psychology Ecopsychology Concentration

Students are required to come to Naropa's Boulder, CO, campus for a one-week period each summer and a three-day period each winter. All other coursework may be done at a distance using the internet.

The MA in Transpersonal Psychology with Ecopsychology Concentration (MATP-EP) program integrates theoretical, experiential, and service aspects of ecopsychology and transpersonal psychology. In addition to using the MATP-EP degree for personal enrichment, we

expect graduates will apply it in a variety of career areas including environmental work, education, business, social services, health care, social change, and community development. Professionals in clinical and counseling psychology may also use it to incorporate the natural world into their practice. This program does not prepare students in counseling or clinical psychology or psychotherapy.

Contact: Jed Swift, Director of Naropa's Center for Ecopsychology (614) 921-1997, www.naropa.edu/ecopsychology www.naropa.edu/matponline

Naropa Center
3734 Pleasantbrook Drive
Hilliard, Ohio 43026

PERMACULTURE EVENTS

Mailing Address for South Coast Permaculture Guild and Santa Barbara Permaculture Network, 224 E Figueroa St. #C, Santa Barbara CA 93101

October 26 - November 14 The New Strawbale Home Book signing and Slide Show, With author Catherine Wanek

Santa Barbara Permaculture Network, Hopedance Magazine, South Coast Permaculture Guild and Eco-Home™ Network will be sponsoring a Book Signing tour in Southern California from San Diego to San Francisco. Contact sbpcnet@silcom.com for dates in San Diego, Laguna Beach, Ojai, Santa Barbara, SLO, Santa Cruz, Berkeley and San Francisco. Santa Rosa, Arcata, Ashland Oregon being planned www.sbpcnet@silcom.com
For Los Angeles event contact E-HN at (323) 662-5207
All other locations (805) 962-2571.

**October (call for date)
Water and Grey Water
Sante Fe, NM**
Ecological design courses with Art Ludwig.
Contact: Amy Pilling at Ecovercity.com, 505 424-9797 x2#. www.ecovercity.org

October 3-5 Gaviotas Seminar Gaviotas founder Paolo Lugari

Sunrise Ranch in the foothills of the Colorado Rockies

Join Gaviotas founder Paolo Lugari and Friends of Gaviotas for an interactive weekend retreat based on the 30-year experience of Gaviotas, Colombia. We will inquire about the social context that has fostered an amazing spirit of innovation at Gaviotas.

www.friendsofgaviotas.org,
mail@friendsofgaviotas.org

October 13-17 Sustainable Living 5-Day Intensive at Real Goods, Hopland, CA

Day 1: Passive Solar and Ecological Design
Day 2: Introduction to Permaculture
Day 3: Sustainable Wastewater Design
Day 4 & 5: Introduction to Photovoltaics

Cost \$575. Register for a workshop at (707) 744-2017 or write: Solar Living Institute, PO Box 836, Hopland CA 95449, or online at sli@solarliving.org, www.solarliving.org

October 11-16 2003 Permaculture Teacher Training Course Dimond Light Center for Transformational Healing Arts

3602 Fruitvale Ave., Oakland, CA 94602
Cost \$685 /\$100 deposit required.
Permaculture Teachers: Michael Kramer and Christopher Peck.

Come learn a revolutionary way of teaching: apply the principles of permaculture to the teaching of permaculture. In this fun, interactive class you will learn powerful techniques gleaned from the wisdom of experienced teachers around the globe. Known worldwide as permaculture pranksters, they guarantee you will laugh, learn, and leave saying, "I can heal the world by teaching permaculture!" Special guest instructors include the amazing Brock Dolman and Penny Livingston!

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Call Kat Steele for information /register at (510) 547-7889 or download the brochure: www.holistic-solutions.net/classes.htm and local permaculture webpage www.urbanpermacultureguild.org

November 10 - December 1
2003 New South Africa

In-Depth Reality Tour

Cost: \$1,750 including food, lodging, ground transport and course fees.

Air travel not included.

The tour is available for non-New College students, and space is still available.

Linking indigenous knowledge systems with modern technologies, U.S. students will join South African students and farm workers this November in designing an Eco Homestead at the Tlholego Development Project (TDP) in South Africa. Intending to be one solution to the severe housing crisis in South Africa, this project will be the final phase of an in-depth reality tour of the New South Africa sponsored by New College of California, Builders Without Borders and the Sustainability Institute at TDP in November of this year.

The tour will start in Capetown, and over seven days will visit examples of traditional architecture, new sustainability projects, and "reality checks" of harsh townships realities, and the innovations that some residents are undertaking to address them.

For more information, contact:
Joe Kennedy, (707) 568-3092,
jkennedy@newcollege.edu

November 25 - December 6

Natural Building Ecological Living Experimental Construction

Tlaxcala, Mexico

\$950

Ianto Evans Cob Cottage Company
<http://www.deatech.com/cobcottage/>
P.O. Box 123, Cottage Grove, Oregon
97424; (541) 942-3021 or telephone/FAX
(541) 942-2005

November 30 - December 12

2003 Annual 2-Week

Permaculture Design Course

Lost Valley Educational Center

541-937-3351, info@lostvalley.org,
www.lostvalley.org

January 5-16, 2004

Plants in Human Affairs

January Intensive.

Ohana Keauhou Beach Resort on the Big Island's beautiful Kona Coast

4-credit, 12-day intensive course explores humanity's ago-old symbiotic relationship to plants. Taught by ethnobotanist Kathleen Harrison and ethnopharmacologist Dennis McKenna, this course covers the role of plants in the evolution of civilizations, wars, migrations, religion, spirituality, art, medicine, and science. Guest lectures by local experts and frequent field trips bring the subject alive in one of the most beautiful and biodiverse environments on the planet. The Center for Spirituality and Healing (www.csh.umn.edu) is the integrated medicine program within the Academic Health Center at the University of Minnesota. Info and details of costs, credit, accommodations:

Contact Nancy Feintheil at (612) 626-5166,
feintheil@umn.edu,
www.csh.umn.edu/WhatsNew/index.html

January 4-18, 2004

2004 Earth Activist Training

Coastal hills of Sonoma County, California

Instructors: Starhawk and Penny Livingston-Stark

Learn to create the world you want to live in! A unique, visionary, hands-dirty two-week intensive that synergizes permaculture, effective activism, nature awareness, and spirituality. Registration required by December 1.

Cost: \$1100-\$1600 sliding scale, loans and scholarships available (scholarship deadline November 1). www.earthactivisttraining.org
(707) 583-2300 x 119, mer@starhawk.org

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ECOTECTURE®: The Online Journal of Ecological Design

<http://www.ecotecture.com>

ONGOING EVENTS

Permaculture Discussion Group Meetings in Downtown San Diego, CA

Contact San Diego Permaculture Center
(619) 298-8879, sdecc@igc.org

Permaculture talks lead by Marcia Boruta followed by a walk and discussion around the immediate community

Permaculture Discussion Group Ojai

Contact for monthly meetings: Jodi Womack (805) 646-4450 x 2,
Jodi@davidco.com and
DorothyWallstein, (805) 646 0752,
dwallstein@uncommonconsulting.com

Introductory Permaculture (PC) Group East County San Diego

Contact Barbara Lind: bslind@earthlink.net:

HIGH DESERT AND WRIGHTWOOD SOLAR TOUR

OCTOBER 4 AND 11

Three southern California sites participating in the American Solar Energy Society's National Solar Tour 2003 feature the use of solar and/or wind energy and environmentally-sound design. Using such resources to create comfortable housing and to run businesses efficiently, cleanly, and profitably will reduce our dependence on foreign oil and help protect our environment.

OPEN HOUSE HOURS AT ALL SITES: 10 A.M. TO 3 P.M.
ALL THREE OPEN HOUSES ARE FREE TO THE PUBLIC.

NOTE: The Cal-Earth Site is open October 4 ONLY

CAL-EARTH INSTITUTE, HESPERIA

Cal-Earth (California Institute of Earth Art and Architecture) is dedicated to research and education of the public on environmentally oriented arts and architecture. It is at the cutting edge of Earth Art and Ceramic Architecture technologies today, including technical innovations published by NASA for lunar base construction, and housing for the world's homeless for the United Nations. Founded and directed by architect Nader Khalili, its philosophy is based on the equilibrium of the natural elements of earth, water,

air, and fire, and their unity at the service of the environment and humanity.

Visitors can tour a variety of prototype structures which demonstrate passive solar design and use of on-site earthen materials. The occasion also celebrates the mystic poetry of Rumi in relation to the building designs and construction with earth, water, air, and fire.

Directions from Los Angeles: 15 Fwy North, towards Las Vegas; Exit on Hesperia, go right; after 1 mile go left on Topaz Avenue; follow Hesperia City signs directing you to Cal-Earth.

Tours from 10 a.m. through 3 p.m., pot-luck lunch 1 p.m.. For more information see: www.calearth.org/, (760) 244-0614

NOTE: The Wrightwood sites are open Oct. 11 ONLY

MOUNTAIN HARDWARE, WRIGHTWOOD

Photo-voltaic panels on the roof provide solar energy to operate this hardware store (except for paint-mixing) year-round and to sell energy back to the grid during peak solar production.

Mountain Hardware has a roof that faces south, so during planning for a remodel in 2000, photo-voltaic panels were installed. We felt that our business was an ideal fit as we do not have any large motors or freezers running. This not only is making us a bit more energy independent; it is a patriotic thing to do.

The system is a 2kW, 48 volt, with battery backup system. There are 20 BP Solar SX120 panels mounted on 5 adjustable roof racks. These feed to a Trace C40 charge control that controls the eight 6 volt L16 Trojan Batteries. The inverter is a Trace SW5548 that changes the 48 volt DC to 110 AC for use in the store or to sell down line to SCE.

We are on a net metering plan with SCE. Most of the time we are selling all the energy produced back to SCE, which slows down our meter. Current saving in dollars is approx \$100.00 per month with system payoff 10 years from the start date.

Directions: Take I-15 north; exit on Hwy 138 towards Wrightwood/Palmdale; turn left on Hwy 2 and follow it into Wrightwood. Location: east side of Highway 2, central Wrightwood. Phone: (760) 249-3653 Contact: Mike Troeger, owner

OLSON/YOCUM RESIDENCE, WRIGHTWOOD

This double-A-frame 1969 house was remodeled by the current owners in 1990 to create a green and healthy living space. Passive solar heating and cooling is enhanced by a wall of duo-pane, low-e windows on the south; a double insulated roof; ceramic floor tile; and deciduous vines and trees. A pellet stove provides back-up heat from forest waste without polluting the air. Water- and energy-efficient appliances and plumbing fixtures reduce usage. Toxic-free paints and materials were used throughout the house. In the yard, a drip-irrigation system and drought-resistant, fire-resistant, and native plants reduce water usage. A small fishpond and plants chosen for beauty, fragrance, and attractiveness to birds and beneficial insects assist organic, pesticide-free gardening.



Ask how the passive solar features help protect the antelope of Wyoming.

Phone (760) 249-4110 for directions. Contact: Emelie Olson, Glenn Yocum

This tour is part of the National Solar Tour sponsored by the American Solar Energy Society. For further information, contact their website at: www.ases.org

HELP FOR HOMEOWNERS

Based on the complementary nature of the Eco-Home™ Network (E-HN) and the League of California Homeowners (LCH), we are pleased to announce a closer collaboration between the organizations. The enhanced cooperation will include regular columns in both journals, joint workshops and other collaborative events.

BY KEN WILLIS, PRESIDENT OF LEAGUE OF CALIFORNIA HOMEOWNERS (LCH)

The League of California Homeowners was founded in 1993 by a group of homeowners focused on developing a centralized clearinghouse for consumer tips and home improvement information.

LCH provides homeowners with a background checking service on contractors, so that homeowners can learn more about a prospective contractor before they actually sign a contract and hire them. There is a lot more to this screening than just checking whether or not the contractor has a license. Screening also provides background research on public records in County Courthouses as well as the County Records Office. The system also provides credit reports pertaining to the contractor's business activities. For legal reasons, the homeowner seeking the information must be a member of LCH and some information must be regarded as confidential. Also, because the reports must be purchased, LCH charges for the cost of the report with a five-dollar over-charge to cover association overhead.

LCH's background checking program is well recognized and has been or is being used by companies such as The Southern California Gas Company, Volt VIEWtech, Southern California Edison, San Diego Gas & Electric, Fannie Mae, the Electric & Gas Industries Association, the Los Angeles Dept. of Water & Power to name a few.

As a consumer organization, LCH also enjoys presenting home improvement workshops wherein homeowners can learn about the

"process" of home remodeling. Information includes planning, budgeting, materials, contractor hiring, mechanics' lien law and, how to know if you have a good contract.

When homeowners have problems or complaints, LCH will respond with information and some form of appropriate direction on how to go about resolving the issue, even if the homeowner is not a member. If the homeowner is a member of LCH, they will arrange for a free telephone conference with an attorney. Of course, LCH cannot guarantee that every caller will receive the perfect answer, especially when the issue is too far gone or if the homeowner has taken some mistaken action on their own.

To assist members, LCH also provides access to one of California's premier credit unions, Lockheed Federal Credit Union. Moreover, there is help with homeowner's insurance, discounts on some home products and more.

One of the best parts of LCH membership is "California Homeowner." This unique consumer newspaper provides the reader with information on energy conservation programs, State Legislative briefs (on consumer issues that affect housing only) and topical articles which benefit home ownership.

Membership in LCH is also inexpensive. The first year is only \$25 and subsequent membership renewal is just \$12 per year. You can look for LCH on the internet at www.homeowners.org or call them on a statewide "toll-free" line which is 1-800-692-HOME (4663).

LCH and the Eco-Home Network are offering discount joint memberships to both organizations of \$45 annually.

HOLIDAY ECOLOGY

This Holiday Season, "Think Green" and "Think Global" when planning what to give and how to give it. Here are a few ideas:

Saving The Forests: Tree

If you plan to buy a tree this holiday season, consider a living one. Several types of evergreens are available that can be replanted in your yard or a nearby park once the holidays have passed.

Start a family tree-planting tradition. Plant a tree together once a year. This has to be planned together ahead of time. You need to decide where a tree is needed, what it's needed for and what kind of tree will best meet that need. For help and information on tree planting and planning, contact:

The National Arbor Day Foundation,
www.arborday.org.

TreePeople,
(818) 753-4600,
www.treepeople.org

If you choose to buy a cut tree, be sure to take it to a mulching or chipping center for composting after the holidays so all the valuable nutrients from the tree go back to the earth.

Recycled Paper Saves Trees

Buy greeting cards and gift-wrap that are made of recycled paper.

UNICEF - United Nations Children's Fund - all their cards are printed on recycled paper. www.supportunicef.org - click on donations, gifts and cards. (212) 925-7313 - ask them to send you a catalog.

Make your own wrapping paper - Newspaper or recycled brown wrapping paper with painted or crayoned designs on them. Tie

with natural jute twine or grasses you've collected and dried with a spring of pine, rosemary, holly, pinecone or red toyon, pyracantha or holly berries tied in.

Wrap your gift in a lovely piece of cloth or scarf which can be used again and again.

Save or reuse anything that can be and put all paper waste into the recycling bin.

As for the gifts themselves -

Give With The Whole Earth And Future Generations In Mind:

Give friends and family the gift of life.

Think beyond traditional gift ideas. Sponsor or adopt a wild or protected animal in a loved one's name. Certain organizations offer adoption programs. The best website I found was www.dolphindreaming.com It has Adoption Kits for:

Dolphins • Wolves • Giant Pandas • Humpback Whales • Sea Turtles • Manatees • Orangutans • Orcas • American Eagles • Siberian Tigers • Wild Mustangs

Eleven (11) in all. Dolphin Dreaming may also be contacted by calling (302) 227-5290.

Make a donation to a local homeless shelter or relief organization in a loved one's name.

Alternative Gifts International at (800) 842-2243 or www.altgifts.org has a catalog describing 25 to 35 nonprofit organizations dedicated to helping those who need it around the world. Your donation in the name of your loved one goes to the organizations of your choice. Your loved

one receives a lovely card announcing your gift in their name and describing the organization the people their gift benefited.

I've received many thank you calls from friends who've received these cards. They're thrilled to know that someone was helped in their name and also thrilled to know about this service provided by Alternative Gifts International.

Heifer Project International runs a similar program. They specialize in providing farm animals to people in need around the world. They have a cute slogan. "Shop 'til World Hunger Drops!" You can find them at 1015 Louisiana Street, Little Rock, AR 72202, or (800) 422-0474 or visit www.heifer.org.

Or, buy someone an annual membership to a national park or zoo in his or her area or a national environmental organization. There are many, but just a few are:

Sierra Club
35 Second Street, 2nd Fl.
San Francisco, CA 94105
(415) 977-5500
www.sierraclub.org and click on "My Chapter" for the chapter nearest you.

Natural Resources Defense Council
40 Est 20th Street
NY, NY 10011
(212) 727-2700
web: www.nrdc.org

The Public Interest Research Groups (PIRG)
Web: www.pirg.org and click on your state for information on your state PIRG

How about a gift membership to Eco-Home™ Network? Send in the enclosed membership envelope with a check and the name and address of the person you wish to gift with a note saying who it is from. We'll sign 'em up and send

them a note letting them know that you are the "gifter."

Or a subscription to a magazine focused on something they're interested in - or should be interested in. For the environment:

E magazine (813) 734-1242,
www.emagazine.com

Earth Island Journal (415) 788-3666,
www.earthisland.org/ei

Natural Home Magazine
(800) 340-5846,
www.naturalhomemagazine.com

Giving Yourself

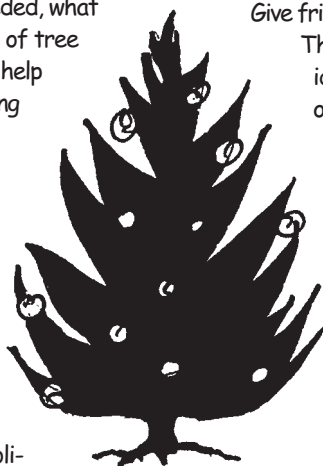
Often the best gifts are gifts of yourself - your time, your skill, your attention, your caring - which can be expressed as:

- a certificate redeemable for a half-hour foot, neck or shoulder massage, or, if you have the time and the stamina, a whole hour's whole body massage given by you,
- a promissory note for a visit to local point of interest, like the zoo or the planetarium or even the library. And, if you go everywhere by car, taking public transit can be part of the special-ness of the experience. (and it doesn't add to air pollution)
- bread, cake, cookies, jam, herb vinegar, soap or anything yummy and/or useful made by hand by you with all organic ingredients.

If you decide to go more traditional in your purchasing, choose durable long-lasting gifts: solar-powered items, water conserving devices, energy saving gifts, home composting bins, canvas shopping bags, ceramic mugs, insulated travel mugs or reusable lunch bags.

The Organic Option

Whether it's food or clothing or bedding or... whatever it is - if there's an organic option, take it.



This is one of the most important ways to protect our environment because organic methods are healthy alternatives to highly toxic chemical-based processes that pollute our land, water, air and ourselves.

One catalog I'm aware of with great natural and organic products is Harmony from GAIAM. Call (800) 869-3446. Website www.gaiam.com

For organic food, your local health food store is your best bet — or — if you want to buy a long-lasting gift for your whole family, buy a membership to a local community-supported farm, commonly known as a CSA. One I know of in the southern California area is the Tierra Niguel Foundation. They can be contacted at (760) 742-1199. Website: www.tierraniguel.org For an annual membership fee, you will be provided with premium quality fresh organic produce on a weekly basis. For those not located in southern California, check out www.umass.edu/umext/csa

Food:

And now what about holiday feasting?

For most of us, holiday meals traditionally have some type of meat, usually turkey or ham, as the main course. But meat that's been grown specifically for human consumption takes a very high toll on the environment.

In his book, *Diet for a New America*, Mr. John Robbins documents both the severe environmental destruction and pollution and the chronic health consequences to us of eating animals grown for human consumption.

Just a few facts from this book follow: The current agricultural system, designed to supply America's meat habit, wastes almost all the food it grows by feeding it to livestock rather than people. (pg. 360) It

takes 10 - 16 lbs. of grain and soybeans fed to livestock to produce 1 lb. of meat.

Deforestation is occurring to make room for meat production... Forests are one of the few places where topsoil erosion is not taking place. But after being cleared for use in livestock production, ex-forestland begins to lose soil rapidly. (pg. 361)

Those who consume meat daily face an almost 4 times greater risk of developing breast cancer than those who eat little or no meat. (pg. 264)

Foods of animal origin (are) the major source of... pesticide residues in the diet. (pg 315)

Are you ready to try a meat-free holiday meal for the good of the earth and for good health?

If so, tofurky & Unturkey are available in health food stores nationwide. And, all the rest of the meal is already meat-free!

Tofurky is available in Rayley's, Albertson's and a few other chains in California. But for the most part it is at health food stores. More information on what stores have tofurky can be found at www.tofurky.com

Energy

Decorate your home while conserving energy. Save money on your electric bill by decorating your holiday tree with strands of popcorn or berries as an alternative to lights. Or, if you can't do without Christmas tree lights, as I can't, only turn them on after dark and be sure to turn them off before you go to bed. Conserve more energy by only lighting small areas outside your home and focus on daytime visuals for the rest of the space.

HAVE HAPPY HOLY-DAYS!

**JULIA S. RUSSELL
FOUNDING DIRECTOR
ECO-HOME™ NETWORK**

FREE SHADE TREES

In May my next door neighbor cut my 7 foot hedge between our properties to the ground and lopped off the major limbs of three fruit trees. I won't go into the whys, hows and social/personal ramifications of this event. I tell it to set the stage for my involvement in the Los Angeles Department of Water and Power's (DWP) free shade tree program, "Trees for a Green LA."

My neighbor's peremptory strike suddenly exposed my front yard and west-facing wall of Eco-Home to the full impact of the afternoon sun just as the warm season was about to begin. I needed some shade protection fast. Budgetary restrictions made immediate purchase and replacement of shade trees impossible.

I called the DWP to sign up for their "Trees for a Green LA" program. A few weeks later I attended the mandatory training session in the Eagle Rock Community Center taught by Richard Owens. About 25 people were gathered in the vaulted main hall of the historic building.

Mr. Owens's interesting and informative slide show instructed us on the planting and placement of shade trees for climate control and prepared us to create our landscape plans indicating where we intended to plant the shade trees we were requesting.

We were also provided with an extensive and very attractive packet of information on the program, sample landscape plan, plan worksheet, and a wonderful

tree selection and planting guide including full color illustrations and descriptive information on the tree species and varieties available. Nearly 40 species of trees, both deciduous and evergreen, all either drought tolerant or requiring only moderate water, are offered through this program.

I completed my site plan at home later and sent it in with my list of requested trees the next week. The trees were delivered about three weeks later. They were about 6 feet tall and each one had a enough fertilizer for a year. All free of charge.

The free training workshops are held throughout the city, in every Council District. To participate in this program call 1(800) GREENLA (473-3652) or visit www.GreenLA.com. The workshop calendar is posted on their website.

This program receives my highest recommendation. It is well planned, the implementation is excellent and it provides a very important environmental and quality of life service to our city by helping citizens add to our urban forest in a knowledgeable way.

JULIA S. RUSSELL



ALCHEMISTS OF WASTE:

SANITATION DISTRICTS OF LOS ANGELES COUNTY (COUNTY SAN)

We are proud to have had the support of the Sanitation Districts of Los Angeles County for the Eco-Home™ Network's Homes for the Future Tour 2002.

The Sanitation Districts of Los Angeles County are responsible for two tasks critical to our urban ecosystem – the management of solid waste, or trash, and the purification of wastewater, or sewage. They are leaders in transforming these wastes into resources. Without their diligence and continual evolution of more effective and ecologically sound methods of waste handling, urban dwellers and surrounding environments would be smothered in waste.

The Sanitation Districts' policies and programs are increasingly based on Nature's own design for sustainability: recycle and reuse. There is the art and science of the alchemy of waste

The Sanitation Districts of Los Angeles County is in charge of one of society's least favorite jobs, managing waste. But problems always create opportunities. There are resources in those wastes and the Sanitation Districts' staff has become "resource farmers". In all of Los Angeles County, we produce 66,000 tons of trash each day and, with the help of many organizations, recycle 45% of it. That 30,000 tons of recycled newspapers, bottles, cans, plastics, yard waste and other materials are used to make new products or compost. A portion of the remaining 36,000 tons a day, specifically 1,740 tons, goes to energy production (trash to energy plants) and the rest of the 34,260 tons is landfilled and creates methane gas for electrical energy production. Landfills will ultimately become public parks and open space, even helping to finance purchases of additional wildlife habitat.

Sewage is mostly waste and water, hence "wastewater". The Sanitation Districts manage over 500 million gallons of wastewater each day for 5 million people. SDLAC has the largest

water recycling program in the world, where 200 million gallons a day of highly purified water goes to schoolyards, nurseries, freeway landscaping, buffer zones, river habitat, and the like. Groundwater supplies that could otherwise dry up are also replenished with this reclaimed water. The remaining wastewater is treated to purity levels required by state and federal standards and goes to the ocean because it has a high mineral content (salt, like the ocean itself). What happened to the "waste"? It was removed in the water cleaning processes and treated several times, including "digestion" and composting, to create soil conditioners, fertilizers, reusable organics and minerals to replenish soils. SDLAC makes land more productive. So a lot of the water and the waste get recycled.

Energy squeezed out of both solid waste and wastewater produces a surplus of over 100 megawatts for Southern California's electrical grid, providing enough electricity for over 200,000 homes.

SANITATION DISTRICTS OF LOS ANGELES COUNTY



SDLAC provides water, fertilizer and energy for the arid desert climate of water-short Southern California. All of this is done in an environmentally sound and cost effective manner. With the help of an environmentally conscious public, we take waste and make resources.

The Sanitation Districts' staff is proud to work with local schools and conservation education programs like Eco Home™ Network. SDLAC salutes Julia Russell and her team for their common sense advice and their fine example, Eco Home™ itself, which shows the public how to "walk the walk".

PRODUCT NEWS

Michael Weinberg wrote enthusiastically to us about an LED flashlight that gives as much light as a 2-D flashlight battery on three AA batteries lasting for 105 hours of continual use. Even more amazing, the LED bulb lasts 100,000 hours! That's about 11 and one half years of continual use! It looks like an oversize penlight and has a screw-in switch like some penlights.

Most household energy is wasted in three ways: air-conditioning, food refrigeration, and lighting (including television and tube computer monitors). Fluorescent bulbs are less wasteful than incandescent but bulky and create enough mercury to require that they be disposed of as hazardous waste. LED is the lighting of the future. It's highly sparing of energy, very compact, easy to use, durable and provides bright white illumination.

The penlight is made in China and is available from Heartland America, (800)229-2901, for \$19.95. The product order # is P/N 95779.

Thanks to Michael Weinberg and Esther Goldstone for this information.

After receiving this information, I

ordered a penlight and was very pleased with it. In fact, I liked it so much I bought a second one to give away as a raffle prize at our next Open House out in Perris, CA!

I was also interested in finding out what progress has been made in fabricating LED bulbs for regular household use. I found a wonderful website www.theLEDLight.com with an extensive inventory of LED lights for almost any application, from ceiling lights to wall lights to in-ground lights to submersible lights to lights for use with solar power systems! And the LEDs come in many colors. The LEDLight.com telephone # is (877) 964-4215.

I never seem to be able to find the particular item I need on websites, so I called and asked about a replacement bulb for the floodlight outside the Eco-Home™ office. They recommended AC 36 which produces the equivalent of 30 watts of light and lasts for 11 years continual use. However, its price was \$180! That put it out of my reach. Back to compact fluorescents for that floodlight until the LED technology becomes more affordable.

JSR

KITCHEN RENOVATION – CONCLUSION

Enter Meier Brief. As I mentioned in the previous installment of this report, Meier's estimate to build the new cabinets was within my budget and he didn't argue with me about the angles in my design. His workshop is in Echo Park which is near Eco-Home™. He was a licensed contractor with a current license and he agreed to use the materials I specified which were:

Medex II, a formaldehyde-free medium density fiberboard (MDF) from the Medite Corporation and recycled fir for cabinet trim from Maxwell Pacific in Malibu. Existing molding and trim in the house is fir and I wanted the kitchen trim to match.

I hired Meier to build the cabinet boxes, doors and drawers. He took measurements and built the cabinets in his workshop. Most of the finished cabinets



fit the first time, which surprised me. There were a couple that didn't and had to be taken back to the workshop and redone. That was done with no trouble or haggling for more money.

The cabinet doors and drawers were delivered later. As all had gone so well with Meier up to this point, I became unwary. I allowed the doors to be delivered in the evening and paid for them before inspecting them in the daylight. In the morning, I discovered to my horror that much of the recycled fir trim on the doors had ugly black stains on it! I called Meier and complained. He said he didn't know I had planned to stain, not paint, the wood trim. "Why," I asked him, "do you think I specified fir if I were going to paint it?" I'm quite sure I had mentioned that I wanted to match the existing wood trim in the house. He wouldn't budge, though, and there was nothing I could do about it as I had already paid him.

There were a total of forty-eight doors. The first thing I tried, to no effect, was just to sand away the black stains. But the stains were deeply embedded in the wood and persisted no matter how much I sanded. My guess is that the wood had been left out in the rain and had begun to mold. So I realized I would have to bleach the wood. I bought wood bleach and spent several hours a day over a period of about a week, applying bleach to the wood stains. I soon realized I would have to bleach all the wood trim, as the bleached areas became a totally different color than the unbleached areas. So now the fir color was all bleached out which meant I would have to stain the wood to bring back the color to match the rest of the wood trim in the house.

I had to bleach and sand and bleach and sand over and over again to finally get rid of all the black stains. It was during this period that I bought a really good set of earphones so that I could listen to the radio or a book on tape while I used the sander. It was the only thing that allowed me to keep my sanity as I worked on this for weeks!

When the wood trim was finally free of black stains, I mixed up a combination of oak and redwood Safecoat DuroStain to get an approximation of a fir color stain. First I applied a Safecoat sealer and then the stain. No matter how I tried, I wasn't able to get an even stain on the trim. It just looked blotchy and completely unsatisfactory.

I finally gave up and called in a professional finisher. Of course, I had to resand the doors I had tried to stain, which was most of them, before the finisher could proceed. That meant more time slaving with the sander. I called several finishers and settled on GF Finishers based on price and the nice-ness of their representative, Rufino. He was quiet and gentle and smiled. He offered to refinish one of the doors as a sample of what the finished product would be. It looked really good and I contracted with him to do the rest. Now I must admit, I didn't ask what kind of materials he used.



I know, after all my trouble and extra expense to get formaldehyde-free MDF and VOC-free paints, to cave in on the wood finish is ridiculous. But I was just so tired and frustrated by then, that's what I did.

Now, what I should have done is call my friend Mary Cordaro at H3 Environmental to get her recommendation for

someone to do the finishing who uses nontoxic materials. I can't explain my befuddlement at this point. I just wasn't thinking clearly.

Nevertheless, Rufino did a fine job on the doors and I've been very happy with them. I did notice a slight odor from the finish for the first 2 or 3 days, but that's all. By the time they were installed they were emitting no detectable odor.

Some of the doors were destined to have leaded glass instead of solid panels within the wood frames. I mentioned to a friend that I wanted to install leaded glass matching the pattern of leaded glass in two windows in the dining room. He said he could do that for me, so I turned them over to him. He came back the next week to take measurements and discuss the patterns. He was going to come back with some proposed designs the next week.



later he called. He had LOST the doors I had given him! Don't ask!

Many weeks of futile search ensued. There was nothing for it but to order replacements from Meier. My friend agreed to make restitution by installing the cabinet doors free of charge. This he did. But I have no leaded

glass doors in my kitchen.

By this time, my tried and true contractor, Javier Hernandez, who did my bathroom renovation, was available and able to complete the rest of the kitchen. He installed the wainscotting, molding, cabinets, shelves and drawers. He tiled the countertops and painted the walls. No more nasty surprises. I felt myself return to sanity.

Did an alarm bell go off in my brain? Did my inner guide call out to me, "Beware! You are being un-professional yet again!" No. He was a friend. He had done much volunteer work for Eco-Home. It didn't occur to me that I had done anything unwise. Until, after three weeks, when I hadn't heard from him and my calls were not being returned, I began to wonder. The weeks dragged on. I heard nothing. I called a mutual friend and heard from her that he had gone into some kind of tail-spin and lost his house. She didn't know how to reach him. "If you happen to see him." I asked her, "please let him know I very much need him to contact me." A week or so



There is still some ceiling molding I'd like to add, to be consistent with that in the dining and living rooms. But that's a \$700 investment and that's not feasible right now. And, I would still like to get the glass doors leaded, but that's another \$300 - \$400 cost.

One cost-cutting strategy I'm experimenting with is fabricating a shade for the lamp in the kitchen ceiling fan by cutting a hole in the middle of a painted aluminum pie pan. So far, each one I've tried looks silly, but I'm going to keep experimenting since I've not been able to find a ready-made lamp shade to fit this fixture and an aluminum pie pan is about all I can afford at this point!

I spent more than twice what I budgeted for this project and nearly lost my mind in the process. I hope that my confession will help you avoid my errors. And, despite it all, as I work in the cheery, spacious, convenient and beau-

ACKNOWLEDGEMENTS:

Medite Corporation, (800) 676-3339

Mary Cordaro, H3 Environmental, (818) 766-1787

Richard Ayerst, Maxwell Pacific, Malibu, (310) 457-4533

All Valley Paints, (818) 776-0594

I.M. Cabinets, Meier Brief, (323) 853-8009

GF Finishing, Rufino, (323) 810-0038

Javier Hernandez, Javo's Home Improvement, (323) 280-3593

tiful new kitchen, I must admit, it all seems worth it. Come and see it!

JULIA S. RUSSELL

RECYCLING NEWS

Recycling Christmas Cards

For the last 25 years St. Jude's Ranch, a non-profit youth home, has operated a holiday card reuse program. The Ranch provides counseling and opportunities for troubled youth. The kids operate a business taking used greeting cards, neatly cutting off the front covers, gluing on new back covers and selling the result. The children earn money, experience and a sense of purpose. You send either entire cards or cards with the backs cut off. Send bundles of cards via UPS ground or the third rate at the post office. St. Jude's Card Recycling, 100 St. Jude Street, P.O. Box 60100, Boulder City, NV 89006.

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Cell Phone Recycling

Cell phone users now have a way to recycle their old phones and support the Sierra Club in the process. About a million mobile phones are tossed out each week in the U.S. as consumers upgrade or switch to different phone service providers, and those old phones leak a bunch of toxic substances, including mercury, lead, and arsenic, into the environment.

CollectiveGood, a recycling group, has teamed up with Staples, the office-supply chain, to set up bins in all Staples

stores in the U.S., where people can drop off cell phones, pagers, and personal digital assistants (PalmPilots and the like) for reuse or recycling.

About half of the phones are expected to be in good enough shape that they can be refurbished and put back into circulation; many will end up being sold at discounted prices in Latin America. If phones can't be put to good use, *CollectiveGood* will recycle them and properly dispose of toxic elements. The Sierra Club will get a portion of proceeds from sales of refurbished phones.

Check out the *CollectiveGood* website www.gristmagazine.com/forward.pl?forward_id=1114

Free Paper For Old Ink Cartridges

Bring your old HP, Brothers or Lexmark ink cartridge to Office Depot and you will receive a ream of EnviroCopy™ Recycled Copy Paper in exchange! This is a fabulous program. Please note however, at this time it only applies to the three brands of ink cartridges mentioned above.

Thanks to Jan Hoag for this information and for donating her ream of paper to Eco-Home™ Network.

On a less positive note we have just received the following from Evan, Paper Campaign Organizer for Forest Ethics:

Office Depot has over \$11 billion in sales and more than 1000 retail office supply stores across the country. Since Staples released its commitment to dramatically increase the recycled content in the paper it sells and stop selling products from endangered forests, activists have asked Office Depot to do the same. But instead of keeping up with its competitors, Office Depot, under the direction of CEO Bruce Nelson, released an "environmental" policy that allows for the continued destruction of endangered forests

for the paper products it sells.

So, our advice is to turn in your ink cartridges for the recycled paper, but don't buy anything there and tell the store manager why.

Recycle Your Compact Fluorescent Lamps

Although compact fluorescent lamp manufacturers have significantly reduced the mercury content of their products, they still contain enough of this health-threatening heavy metal to require special disposal. The packages of these products will soon display the international symbol for mercury, "Hg."

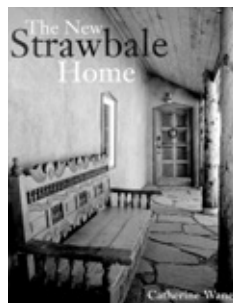
A national industry now exists for recycling compact fluorescent lamps, reducing them to four separate products, glass, aluminum, phosphor powder and mercury, which are resold and reused. This keeps the toxic elements from dispersing into the environment and conserves resources. It's a great model for industrial sustainability. When all our products are thus handled we'll have moved a substantial distance toward a truly sustainable industrial civilization.

In Los Angeles County we can take our worn out compact fluorescent lamps and electronic waste to a Hazardous Waste Roundup in our neighborhoods. For the Roundup Schedule, call (800) 773-2489. Anything that can be recycled is recycled from there. Outside of LA County call your local or county Sanitation District Office for instructions on proper disposal for recycling.

To find out more about compact fluorescent lamp recycling go to www.almr.org and click on "Mercury." Another excellent website is www.earthpro.com.

Thanks to Marian Acha Tam, architect, for this information.

BOOK REVIEW



The New Strawbale Home,
By Catherine Wanek. 188 pages. \$39.95

Mention strawbale building to most people and you get a quizzical smile and a little piggy joke. That's changing as

creative people looking for environmentally sound alternatives to "stick" buildings - that use acres of forest to build one residential home - build, educate and advocate for building with straw bales.

Straw is what is left over after grains - such as wheat, rice, oats, barley, rye, flax and triticale - are harvested. It has been used for millenia as fiber reinforcement for cob, adobe and straw-clay homes. Straw bales are bunches of straw tied tightly with string or wire. Baling machines in the 1870's provided straw bales that pioneers soon used to create temporary homes on the treeless plains. Rice and flax straw provide the best bales for rot resistance, but firm, dense rectangular tightly tied bales from any grain are suitable building material.

Catherine Wanek, author of **The New Strawbale Home**, organized the building of a strawbale greenhouse in 1992 and has been an advocate ever since. She produced and directed the Building with Straw video series and spent five years publishing and editing **The Last Straw Journal** and coauthored **The Art of Natural Building**.

Wanek's new book, **The New Strawbale Home**, compiles floor plans and images from forty cutting-edge homes across North America, discussing varying climate considerations and essential design details. Chapters include information on budget matters, code compliance, siting and energy efficiency, structural systems, and finishing touches. It also offers valuable insights and hind-sights of architects, contractors and owner/builders, and an extensive resource section.

Though **The New Strawbale Home** is a practical book, an essential resource for anyone seriously interested in strawbale building, it is also a visual delight. Gorgeous and informative color photos and illustrations adorn virtually every page. I leafed through it first as a fascinating picture book, filling my consciousness with images of exquisitely planet-and-human-nurturing homes of surprising diversity of design. It amply answers the question, "What does a strawbale house look like?" Evidently, "anything you want!"

Strawbale building resources at the back of **The New Strawbale Home** include a two page list of architects/designers, one page of builders, and several listings each of consultants, engineers, organizations, books, videos and workshops, internet resources, 2 listings each of home plans and publications and 1 each for plastering and product resources. Seven strawbale buildings open to the public are also listed.

JSR

ECO-HOME™ BOOKSTORE

A HOUSE OF STRAW: A Natural Building Odyssey, by Carolyn Roberts, Chelsea Green, 2002, 20.94

A PRIMER ON SUSTAINABLE BUILDING, by Barnett and Browning, Rocky Mtn. Institute, 1999, \$19.82

ACHIEVING ECO-NOMIC SECURITY ON SPACESHIP EARTH, by Jim Bell, 1994, \$17.54

ALL ABOUT LANDSCAPING, Ortho Books, 1988, \$11.72

BACKYARD COMPOSTING, by John Roulac, \$8.27

BUILDING PROFESSIONAL'S GREY-WATER GUIDE: The Guide to Professional Installation of Greywater Systems, by Art Ludwig, 1995, \$14.67

CHOOSE TO REUSE, An Encyclopedia of Services, Products, Programs & Charitable Organizations That Foster Reuse, by Nikki and David Goldbeck, 1995, \$18.54

EARTH USER'S GUIDE TO PERMACULTURE, by Rosemary Morrow, 1999, \$16.02

ECO-RENOVATION: The Ecological Home Improvement Guide, Edward Hartland, 1994, \$19.00

GAIA: A NEW LOOK AT LIFE ON EARTH, James Lovelock, 2000, \$18.06

GAIA'S GARDEN, A Guide to Home-Scale Permaculture, by Toby Hemenway, 2001, \$27.53

GAVIOTAS: A Village to Reinvent the World, by Alan Weisman, 1995, \$25.60, hardcover

SALE! GUIDE TO RESOURCE EFFICIENT BUILDING ELEMENTS, 4th Edition, Center for Resourceful Build-

ing Technology, 1994, \$10.00

HEALTHFUL HOUSES, How to Design and Build Your Own, by Clint Good, \$13.14

HEALTHY HOUSE BUILDING FOR THE NEW MILLENNIUM: A Design and Construction Guide, by John Bower, 2001, \$24.38

HOW TO GROW MORE VEGETABLES than you ever thought possible on less land than you can imagine, by John Jeavons, 1991, \$16.57

HUMANURE HANDBOOK, A Guide to Composting Human Manure, by Joseph Jenkins, 1999, \$21.80.

LOS ANGELES: History of the Future, by Paul Glover, 1989, \$5.00

NATURAL PEST CONTROL: Alternatives to Chemicals for the Home & Garden, Revised Edition, by Andrew Lopez, 1994, \$20.44

PERELANDRA GARDEN WORKBOOK, 2nd Edition, by M. Wright, 1993, \$22.44

REGENERATIVE DESIGN FOR SUSTAINABLE DEVELOPMENT, by John Tillman Lyle, 1994, \$37.10

SALE! STATE OF THE WORLD, 1995, Worldwatch Institute Report on Progress Toward a Sustainable Society, \$8.00

SALE! STATE OF THE WORLD, 1996, Worldwatch Institute Report on Progress Toward a Sustainable Society, \$8.00

SALE! STATE OF THE WORLD, 1999, Worldwatch Institute Report on Progress Toward a Sustainable Society, \$8.00

SALE! STATE OF THE WORLD, 2001, Worldwatch Institute Report on Progress Toward a Sustainable Society, \$8.00

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watch Institute Report on Progress Toward a Sustainable Society, \$21.51

SUSTAINABLE CITIES: Concepts and Strategies for Eco-City Development, Edited by Walter, Arkin & Crenshaw, 1991, \$22.99

THE ECOLOGY OF COMMERCE, A Declaration of Sustainability, by Paul Hawken, 1993, \$17.00

THE FUEL SAVERS, Solar Ideas for Your Home, Edited by Bruce N. Anderson, \$6.32

THE HAND-SCULPTED HOUSE: A Practical & Philosophical Guide to Building a Cob Cottage, by Ianto Evans, Michael Smith & Linda Smiley, Chelsea Green, 2002, \$38.02

THE NEW STRAWBALE HOME by Catherine Wanek, Gibbs Smith Pub., 2003, \$42.95

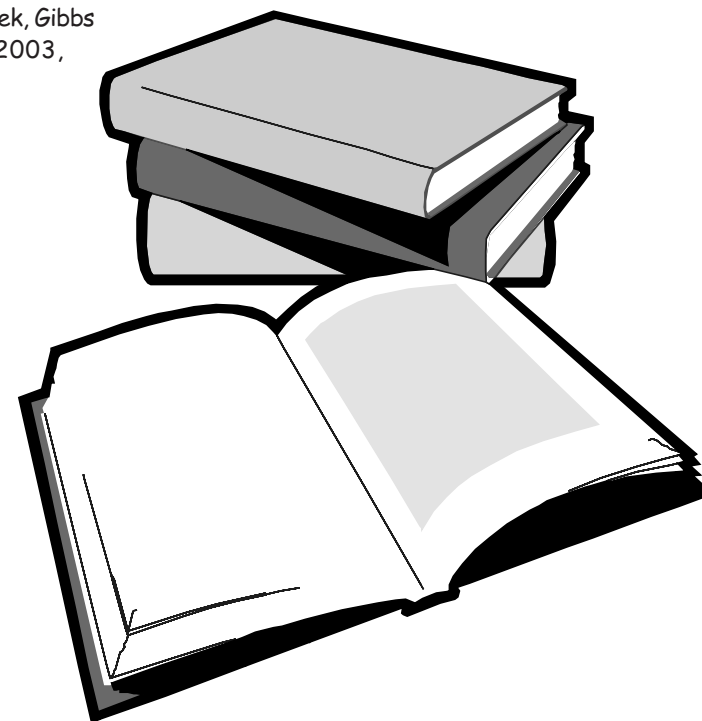
THE NEXT AMERICAN METROPO-LIS, Ecology, Community, and the American Dream, by Peter Calthorpe, 1993, \$25.81

THE PASSIVE SOLAR HOUSE BOOK, Using Solar Design to Heat and Cool Your House, by James Kachadorian, 1997, \$27.52

THE SMART KITCHEN: How to Design a Comfortable, Safe, Energy Efficient & Environment-Friendly Work Space, by David Goldbeck, 1994, \$17.

TREEHOUSES: The House that Jack Built, by David Pearson, 2001, \$19.82

Prices quoted include the 10% members' discount plus tax, shipping and handling. To order send a check to the Eco-Home™ Network in the amount indicated above.



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