

following SLOSG milestones:

California

Competition

Communities

United States

Association

building in California

First passive solar building in

First Place Award AIA International

on

First Net Zero energy commercial

First LEED certified synagogue in the

First book on straw bale construction

details for the California Straw Bale

Sustainable

SAN LUIS SUSTAINABILITY GROUP

OTHER RESEARCH AND PUBLICATIONS

RESEARCH AND DEVELOPMENT

Sustainable design is a new approach that requires research and development be integral parts of architectural practice. SLOSG has been in the forefront of research, development, and application of affordability, regional considerations, passive design, green materials, and water resource issues as they affect sustainable design.



AFFORDABILITY was the key to the rejuvenation of Camp Ocean Pines in Cambria, California. This old YMCA camp had worn out infrastructure and an extremely low budget for new buildings. For its transformation into a local arts and conservation camp we developed 12 twelve-person cabins at a very low cost by:

1. Research on camp regulatory and permitting issues, which streamlined the process and greatly reduced fees.
2. Reduction of materials costs by the use of site milled lumber from dead trees on site and straw bale shear walls.

3. Design and construction of a prototype cabin using a design-build process costing \$50 per square foot.
4. Construction of remaining cabins with volunteer workshops.

Community workshop for cabin construction at Camp Ocean Pines in Cambria California shown left.

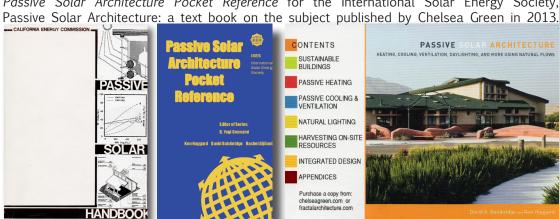
Rainwater catchment systems and a rain garden were later installed at Camp Ocean Pines through a similar community workshop led by SLOSG in conjunction with SLO Green Build's Appropriate Technology Coalition.

CONSTRUCTION DETAILS
A Sourcebook





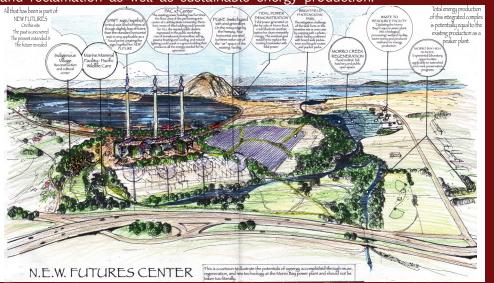
San Luis Sustainability Group has been involved in the development of **Passive Design** from its beginning, designing over 200 passive buildings and developing technical publications such as: *The Passive Solar Handbook for California* for the Energy Commission, *The Passive Solar Architecture Pocket Reference* for the International Solar Energy Society, Passive Solar Architecture: a text book on the subject published by Chelsea Green in 2013.



Poster graphic created by SLOSG for the American Solar Energy Society.



Sustainable design places a new emphasis on localism with less importation of energy and resources. SLOSG has been involved in the development of research that allows for this. For example, the N.E.W. Futures Center project shown below is a conceptual study for the conversion of the obsolete power plant in Morro Bay to a coastal energy/environmental cultural facility with efforts that allow sustainable approaches to water use and reclamation as well as sustainable energy production.

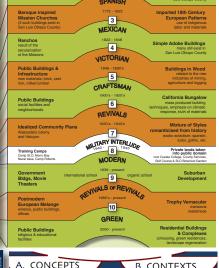


This new localism requires a deeper understanding of place. The book shown below about the architectural history of San Luis Obispo called San Luis Obispo Architecture, was produced to educate clients, planners, and politicians about the unique place in which we are privileged to live and build.

San Luis Obispo Architecture

A Brief Architectural History of San Luis Obispo County

By Ken Heggard an assessment from Bahall

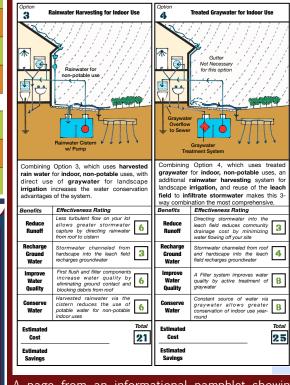


It is our opinion FRACTAL ARCHITECTURE that sustainable design is not modern architecture in green' clothing, a new architecture for the 21st century. The implications of this on the architectural vocabulary geometry, history, and aesthetics are explored this book SIGN FOR SUSTAINABILITY

ľ	A. CONC	EPTS	B. COI	NTEXTS
	1. Sustain- ability	2. Fractal Geometry	1. Time	
n	definitions and concepts	definitions and concepts 53	fractal time & history 87	our dynamic fractal planet
ıs	conceptual problems & approaches	fractal primer 56	some patterns in environmental design 95	scaling of place 112
ıs	language for a sustainable era 21	tools for reintegration 72	historical transformation 97	dynamics of place 119
ıs	aesthetics of sustainability 23	aesthetics and geometry 73	aesthetics and symbolism 98	aesthetics of place 123
ľ	sustainable systems 34	fractal architecture 76	prototypes of sustainable design	regenerative, and life cycle design
	Los Osos 35	a small cottage 78	Ubud region of Bali 107	Trout Farm Complex 135
	51 - 52 general design principles for sustainability	83 - 84 changes in the design process via fractal geometry	the new millennium and cultural era	reconnecting human and natural processes in a



Various publications by SLOSG in combination with SLO Green Build's Appropriate Technology committee shown above.



A page from an informational pamphlet showing research conducted by SLOSG and SLO Green Build for the County of San Luis Obispo's Septic Decommisioning and Reuse Plan for the Los Osos Wastewater Project.