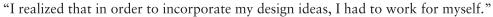
Physics At Work

Debra Rucker Coleman

Architect: Citronelle, AL

Architect Debra Rucker Coleman is the owner of Sun Plans Inc., and has been designing passive solar homes for several years. She believes her love for the environment steered her toward solar energy. Growing up in Arizona with parents who loved the outdoors, Coleman was always fascinated by the Sun and the sky.

After graduating from the University of Arizona with a Bachelor of Architecture, she began working for an architecture firm. "I was appalled at their lack of sensitivity toward the environment," Coleman states.



Coleman opened her own business, Energetic Design, in North Carolina, and began designing for the local school district. She also became an energy consultant on residential development projects where she included passive solar energy. "At first, only 25 percent of my clients were interested in passive solar energy and I realized that the general public needed to be educated." Passive solar design revolves around one simple idea—to take advantage of the Sun's heat without the aid of any mechanical devices.

Passive solar energy is not all Coleman thinks about when she tackles energy efficiency: "I have to be aware of heat loss and heat gain. I have to understand that to let the Sun's energy in the house means putting the thinnest materials on the south side of the house," she explains. "A black roof will also absorb a lot more heat. For one climate you might want a black roof, and in another climate you might want a more reflective, or white roof."



Rochelle Boyl

Music Teacher; Covelo, CA

Rochelle Boyl was introduced to living offthe-grid by her husband, a term which refers to living in a self-sufficient manner without reliance on one or

more public utilities.

But it is the couple's ingenuity with their resources that is not only keeping their way-of-life exciting, but is also keeping Earth green. "We have gravity-fed spring water, hydro-electric power in the winter and solar in the summer. The Boyl's emphasize energy conservation, regardless of its source. "You have to have the desire to want to live this kind of lifestyle. I enjoy learning and want to keep living off-the-grid," pronounced Rochelle.



Senior Composites Engineer, Knight & Carver Wind Group; National City, CA

Craig Robinson has over 20 years experience designing products from composite materials, including tennis rackets, bike frames,

and fiberglass replica cars. Currently, he is a Senior Composites Engineer at Knight & Carver Wind Group, a company that began as a yacht construction firm and today is recognized in the wind energy industry for repairing and building turbine blades.

Craig is optimistic about the wind energy industry. "It is great to be a part of a booming industry. Wind, solar and geothermal are going to be a big part of the future," predicts Craig.



