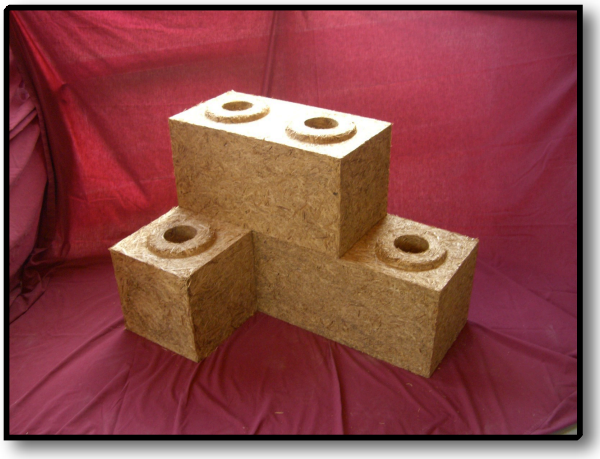
ORYZATECH inc.

Oryzatech is a United States C corporation that produces building materials from straw (Oryza is Greek for "rice"). "Stak Block" is the first product line, a compressed, interlocking rice straw block. Future product lines will utilize other types of straw and include straw panels and "lumber."

Concept: Oryzatech has a simple building solution for a sophisticated housing problem. The company has created a hybrid composite building block from the largest bio-waste crop in the world, rice straw. Through a scalable, low energy-production process, the company can make and sell an almost unlimited supply of highly insulating, carbon-sequestering construction blocks.



Context: Common structural materials like wood, steel and concrete require huge amounts of energy to manufacture and distribute, while all the common insulating materials are themselves oil based products. Oryzatech's Stak block will be the first truly resource-efficient structural/insulating wall system available for builders. The blocks will by definition be manufactured where food is grown, utilizing the annually renewable supply of waste straw that is currently burned. As a locally-produced, 96% recycled content product that sequesters carbon, Stak Blocks will also earn several LEED credits for architectural projects.

Technology: Testing has shown the Stak Block wall system to be:

- Highly insulated: The R-Value is 48 per block, which makes it 30x better then brick, 75x better then concrete, and 2.5x better then a stud wood frame.
- Seismically strong: Better than wood framing and less brittle than concrete walls
- Fast to assemble: Block dimensions are 12"x12"x24", easily dovetailing with other common construction modules. Each block weighs only 30 lbs and interlocks.

US and International patents are issued and pending. Patents issued include 6,951,080 & 7,707,784. All patents are the sole ownership of Oryzatech Inc.

Marketing Plan: The appeal of Stak Block is: reduced operating costs through energy savings, then to a lesser extent as a "green" product that reduces wood use and carbon emissions. Early entry users will probably be residential customers in the US West, Midwest and Southwest, where the need for insulation is acute, and straw bale and other alternative building systems are already common. Profits are generated both from block sales and possible carbon sequestration credits.

Business Plan: The company has operated to date on Directors' personal funds and an early seed grant from the State of California. Partnerships are now sought to:

- Establish regional manufacturing facilities
- Expand ongoing testing program into a code certification process
- Refine the marketing/branding scheme

Funding will also be used to leverage grants and government loans.

Board of Directors: All of the five Directors are also investors in the company.

Jay Ruskey – Director, President, Treasurer and acting Chief Executive Officer - Agricultural production and marketing specialist; Goleta, CA email; jruskey@earthlink.net

Ben Korman - Director and acting Chief Production Officer - Architect;; Cayucos CA email; d2b@yahoo.com

Jack Ruskey - Director and Company Legal Counsel - Advisory Partner with the law firm of Gibson, Dunn and Crutcher; Los Angeles, CA

Richard E. Rominger - Director - Former United States Deputy Secretary of Agriculture; Rice Farmer and Government Policy Specialist; Winters, CA

Bruce King – Director - Structural Engineer/ Author "Design *of Straw Bale Buildings"* and "*Building of Straw and Clay"*; San Rafael, CA