

# **2004 Solar Fiesta**

## **Workshop/Speaker Schedule**

**Saturday September 25<sup>th</sup>**

### **Silver Room**

#### **Solar Electricity 101**

10:30-11:45 Marlene Brown, Sandia Labs

This class will provide an introduction to the basics of Photovoltaic electrical systems. Marlene has years of experience in the field.

#### **Clean Power for Homeowners**

12-1:50 Allan Sindelar, Positive Energy Inc

If you have utility power now, you still have several ways that you may use Photovoltaics to run all or part of your home.

This workshop will show many NM installations, and will cover costs, benefits, laws and how to get started. Allan Sindelar is a NABCEP nationally-certified installer and the founder of positive Energy of Santa Fe.

### **2:00-2:30 Rally for Renewables**

#### **Photovoltaics for remote Ranch/Home**

2:40-3:45 Kevin Goodreau, Direct Power and Water Inc.

Photovoltaic power in remote locations is a clean, quiet alternative to gas or diesel generators. Cost-effective power for lights and appliances is here now.

#### **Net Metering & the Interconnection Process**

4:00-5:00 Robert Broderick, PNM

It is easier and cheaper than you may think to use Photovoltaics to provide all or part of your electrical needs when already hooked up to the grid. Robert will explain the Net Metering rules that allow a homeowner to become a net producer of electricity.

### **Turquoise Room**

#### **Solar Radiant Floor Heating**

10:30-12:00 Bristol Stickney, Solar Design Consultant

An independent solar design consultant with over 20 years of hands-on experience, Bristol will cover the practical design and performance of this popular solar application.

#### **Solar Water Pumping Home/Ranch**

12:15-1:50 Windy Dankoff, Dankoff Solar

Solar water pumps are used world-wide for domestic wells, watering livestock and small-scale irrigation applications. Learn to evaluate site conditions and water sources in order to select a system that meets your needs. Windy is considered by many to be the best in his field.

## **2:00-2:30 Rally for Renewables**

### **Solar Hot Water/Air**

2:40-4:30 Chuck Marken, AAA Solar

Chuck brings 25 years of experience to the classroom. Heating your hot water or living space with Solar energy makes more sense with every rise in propane or natural gas prices. Chuck will cover several styles of each system in detail. This workshop will be reprised on Sunday at noon.

### **Antelope Room**

#### **Permaculture Design**

10:30-11:45 Scott Pittman, Permaculture Institute

One of New Mexico's most experienced permaculture experts, Scott will review the many sustainable methods and technologies that define permaculture.

#### **Strawbale Home Design Essentials**

12:00-1:50 Catherine Wanek, Natural Building Resources

Want to build a healthy, beautiful home that nurtures your family and reduces utility bills? Strawbale construction may be the answer. Catherine produced the Building with Strawvideo series and practices permaculture and natural building in Kingston, NM.

## **2:00-2:30 Rally for Renewables**

### **NM Solar Architecture: Integration of Climatic Design with Traditional Form**

2:40-3:40 Mark Chalom, Architect, Solar Design & Analysis

Mark shows how passive solar design can be and has been integrated with traditional NM architectural forms. Learn how to build a home that interacts with the environment.

Mark has been a leading force in passive solar architecture since 1973.

Mark is the founder of Solar Design&Analysis of Santa Fe

### **Rammed Earth Construction**

3:50-5:00 Steve Stephens, Architect, Builder

Steve Stephens will show how to design and build with rammed earth. Steve's approach combines a historical appreciation with an environmental sensibility.

## **Sunday September 26<sup>th</sup>**

### **Silver Room**

#### **Bamboo Basics**

10:30-11:45 Peter Fust, Natural Building Resources

Bamboo is stronger by weight than steel, and can be used as food, fashioned into shelter, tools, and more. This course will identify bamboo species that will thrive in our climate, how to grow, maintain and ways it can be used in building. Peter has a degree in horticulture, and currently practices permaculture and natural building in Kingston, NM.

#### **Solar Hot Water/Air**

12:00-1:45 Chuck Marken, AAA Solar

A solar hot water or thermal heating system  
will pay for itself within a very few years.

Chuck, who has been installing solar systems since 1979,

Will cover several styles of these systems in detail.

#### **Residential Wind Energy Systems**

2:00-3:45 Josh Levinson, Southwest Windpower

Josh will provide an extended look at the practical applications  
of small wind generating systems. Integrating small wind generators with  
PV is cost-effective, and ensures renewable power in inclement weather.

#### **Net Metering & the Interconnection Process**

4:00-5:00 Charlotte Otero-Goodwin, PNM

The class will cover New Mexico's Net Metering rules and procedures for  
interconnecting a residential photovoltaic system to the utility grid.

Charlotte is Senior Engineer with PNM's Customer Generation Program.

### **Turquoise Room**

#### **The 21<sup>st</sup> Century Home**

10:30-11:45 Max Wade, Artistic Homes Inc.

Using state of the art technologies, such as the blower door, Max will show how Artistic  
Homes Inc. of Albuquerque builds extremely energy efficient and comfortable homes.

The American Lung Association and the National Energy and Environmental Building  
Association will discuss the health and economic benefits of these technologies.

### **21<sup>st</sup> Century Strawbale Design**

12:00-2:00 Joe Matesi, Holistic Habitats

Learn about the basics of building with strawbale from someone who does it every day. Joe will provide an overview of the newest methods for building with strawbale. Joe offers opportunities to learn about this building system throughout the year in scheduled hands-on workshops.

### **Passive Solar Design Guidelines**

2:15-3:30 Ben Luce, NMSEA

Incorporate simple passive solar guidelines into your new home design. Save up to 80% of the average heating and cooling bill. Thermal mass, insulation, and solar orientation insure a comfortable, efficient home.

### **Sustainable Financing Options/Permaculture Credit Union**

3:45-5:00 Donald J. Sarich, CEO Permaculture Credit Union

The Permaculture Credit Union is a democratically owned and controlled non-profit financial cooperative, Donald will speak to permaculture ethics, available loans for sustainable projects, and the sustainability discount program on loans.

Donald has been involved with the credit union movement for some fourteen years.

### **Antelope Room**

#### **Taxshine vs Sunshine**

10:30-11:45 Steve Baer, Zomeworks

There are massive subsidies for fossil fuels and nuclear power.

The only way to encourage the growth of renewable energy is to stop subsidizing other energy sources. Discuss this with a solar pioneer.

#### **Household Energy Efficiency Practices**

12:00-1:45 Randy Sadewic, Energy Consultant

The best way to make money, reduce CO<sub>2</sub>, and save our natural resources? Energy Efficiency! Randy will offer demos and share simple approaches for saving energy at yields higher than stock market investments. Randy spent 4 years in Japan, one of the planet's most energy efficient cultures. Cut your utility bills by up to 50%.

#### **Native American Energy Forum**

2:00-3:30 Sandra Begay Campbell, Sandia Labs,

David Melton, Sacred Power Corporation

Sandra and Dave will show how New Mexico pueblos and tribes are using clean solar power for rural electrification, water pumping and many other applications on native lands.

(continued next page)

**Building with Rastra**

3:45-5:00 Robert Montoya, Rastra New Mexico Corp.

A versatile material made from recycled Styrofoam, Rastra blocks allow the homeowner-builder to build strong insulated walls at their own pace.

[www.rastranm.com](http://www.rastranm.com)