

*The Missouri Solar Energy Industries Association in collaboration with The Evergreen Institute presents a full-day seminar*

## **National Electric Codes for Photovoltaic Systems**

**Instructor:** Dan Chiras, Ph.D.

**Date:** Monday - March 12, 2012

**Location:** St. Louis Community College - Corporate Center  
3221 McKelvey Rd., Bridgeton, MO 63044

**Time:** 9 a.m. - 5:00 p.m.

### **Synopsis**

This one-day course on the National Electric Code for PV systems, is taught by Dan Chiras, Ph.D., solar energy expert and author of numerous books on the subject, including *The Homeowner's Guide to Renewable Energy*, *Power from the Sun*, *Solar Electricity Basics*, and *Power from the Wind*. Participants study major provisions of article 690 and other relevant sections of the National Electrical Code including rules and regulations that apply to grid-connected and off-grid solar electric systems. Seminar covers many of the task analyses for NABCEP PV Installer Certification and is designed to help participants prepare for the NABCEP Solar PV Installers Exam. Students learn about wire sizing, code compliance, proper installation of solar electric systems, proper conduit runs, anti-islanding requirements, and much more. This course provides essential solar industry knowledge that has practical applications for a variety of individuals.

### **Who Should Attend?**

- \* Individuals preparing for the NABCEP Entry-level exam and PV Installer Certificate
- \* Energy professionals interested in expanding their knowledge of solar electricity
- \* PV installers and companies interested in installing PV systems
- \* DIY Homeowners eager to learn more about solar installations
- \* Building Code Enforcement and Electrical Inspectors
- \* Individuals interested in entering the solar field
- \* Educators teaching solar electricity



**Instructor Profile** - Dan Chiras, Ph.D. is an internationally renowned author and expert on green building and renewable energy. Dan teaches seminars on solar electricity, wind energy, passive solar design, energy efficiency, green building, natural building, and electric car conversion. Dan is founder and Director of The Evergreen Institute and President of the consulting firm, Sustainable Systems Design, Inc. Dan has published 26 books and nearly 300 articles on green building, residential renewable energy, energy efficiency, and sustainability. He has taught courses on renewable energy at the college level for over 30 years and numerous workshops on passive solar design, green building, and renewable energy through the Continuing Education program at the University of Colorado, American Solar Energy Society, Midwest Renewable Energy Association, Colorado Strawbale Association, and the Colorado Renewable Energy Society. Dan consults to

builders, homeowners, architects, and developers on green building and renewable energy and has worked on projects throughout Canada, the United States, and Central America. For 14 years Dan lived in a state-of-the-art green-built, passive solar/solar electric home made of natural materials circa 1995 in Evergreen, Colorado. In 2010, Dan moved to Gerald Missouri - 70 miles west of St. Louis and founded the Center for Renewable Energy and Green Building.

# REGISTRATION FORM

**Rates:**

MOSEIA Members: \$100

Register 3 or more participants from same organization, pay only \$75 per participant

Non-Members of MOSEIA: \$135

Register 3 or more participants from same organization, pay only \$125 per participant

UTILITY, GOVERNMENT & EDUCATOR: \$125

Discounted flat rate for educators of accredited educational institutions, employees of utility companies or municipal, county, and state government agencies.

Seminar includes free parking and lunch.

Each registrant receives Mike Holt's *Understanding NEC Requirements for Solar Photovoltaic Systems* textbook - a \$48 value.

Registrant Information - please print:

Name \_\_\_\_\_ E-mail \_\_\_\_\_

Name \_\_\_\_\_ E-mail \_\_\_\_\_

Name \_\_\_\_\_ E-mail \_\_\_\_\_

Name \_\_\_\_\_ E-mail \_\_\_\_\_

If more registrant information is required please use reverse side.

Total Number of Registrants \_\_\_\_\_

Address: \_\_\_\_\_

Primary Phone: \_\_\_\_\_ Cell: \_\_\_\_\_

Amount Enclosed: \_\_\_\_\_

Make checks payable to Missouri Solar Energy Industries Association  
and mail with registration form to:

MOSEIA, PO Box 434040, St. Louis, MO 63143

Registration with credit card available at the MOSEIA website [www.moseia.org](http://www.moseia.org).

If you have questions please contact: Heidi Schoen - 314-677-4076 - [HeidiSchoen@moseia.org](mailto:HeidiSchoen@moseia.org)