

Seminar Agenda

Presented by JR Cromer

Rooftop Design Activity

Develop a rooftop design methodology based on standard practices
Perform a site layout and energy estimate
Explore how material selection impacts system design
Finalize a bill of material list and simple payback calculation

Project Presentations

Understand standard project sizes in your local market
Explore installation methodology for various structures
Watch local installer presentations of capstone projects
Identify resources for local project development

Hot Topics in Solar Design and Development: An Interactive Discussion

Ask questions specific to your photovoltaic project needs
Understand regulatory status of local solar market
Debate merits of contrasting design methodologies
Discuss maintenance requirements of solar technologies

Beyond Preliminary Design

Review a complete system design of two arrays with differing
module and inverter technologies
Explore the impacts of aesthetics, power generation
and consumption, and material selection on system design
Explore National Electric Code vocabulary and pitfalls
Discuss structural engineering issues from project case studies

Solar Project Development

Understand solar industry regulations governing
grid-interconnection and permitting
Discuss economics of solar leasing, utility-scale solar, community-
owned solar, off-grid living, and other solar business models
Determine where building design expertise fits into
solar project development
Identify green energy policies in the public and private sectors

Emerging + Future Trends

Understand where solar energy fits into the national energy
portfolio and policy
Learn the basics of combining solar with battery storage,
generators, and other integrated systems
Explore disruptive technologies within solar racking,
inverters, and modules
Explore national trends in price and cost

Solar Photovoltaic Project Design and Development

Wallingford, CT: Thursday, October 1, 2015
White Plains, NY: Thursday, October 8, 2015

Learning Objectives

You'll be able to:

Perform a solar photovoltaic system site layout and energy estimate.

Identify resources for local project development.

Explore a complete system design of two arrays with differing
module and inverter technologies.

Discuss economics of solar leasing, utility-scale solar, community-
owned solar, off-grid living, and other solar business models.

Determine where building design expertise fits into
solar project development.

Learn the basics of combining solar with battery
storage, generators, and other integrated systems.

Solar Photovoltaic Project Design and Development

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This seminar is also being offered in Fort Washington, PA on September 30, Portland, ME
on October 2, Natick, MA on October 7, and Harrisburg, PA on October 9.
Please visit www.halfmoonseminars.org for more information.

Architects

7.0 HSW Contact Hours
7.0 AIA HSW Learning Units

Professional Engineers

7.0 PDHs

NABCEP

7.0 Credit Hours

Building Performance Institute

3.5 CEUs

Contractors

Voluntary CE Opportunity



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www.halfmoonseminars.org**

Faculty

JR Cromer is a master electrician and a mechanical engineer from the University of Pennsylvania, and he is a North American Board of Certified Energy Practitioners (NABCEP)-certified PV installation professional. In 2014, Mr. Cromer led the development, design, and installation of 1.3MW of solar power projects, across a broad spectrum of residential, commercial, and “megawatt” level projects. His recent project experiences cover ground and rooftop mounting techniques, as well as solar leasing. He also tours solar module, racking, and inverter manufacturers to keep track of the latest product improvements. With over 5MW of projects under development for 2015, Mr. Cromer believes the solar industry is preparing for an unsubsidized future which will benefit building design professionals who have PV skill sets.

His well-reviewed solar design programs introduce best practices to the building design community in a pragmatic, content-rich format. Mr. Cromer’s seminars, *Solar Photovoltaic Energy Systems* and *Solar Power Design Workshop* have been offered by HalfMoon Education since 2010, and have been well-reviewed by professionals across the country.

Local Guest Presenters:

Wallingford, CT

Andy Mayshar, *Ross Solar Group*

White Plains, NY

Benoît Bussière, *NRG Energy*

Rick Galbreth, *Sol Providers*

Jean-Pierre Clejan, *Greenlogic, LLC*

About the Seminar

Wallingford, CT

Thursday, October 1, 2015

Courtyard by Marriott New Haven/Wallingford
600 Northrop Road,
Wallingford, CT 06492
203-284-9400

White Plains, NY

Thursday, October 8, 2015

Crowne Plaza White Plains
66 Hale Avenue,
White Plains, NY 10601
914-682-0050

Tuition

\$269 for individual registration

\$249 for three or more simultaneous registrations

Each registration includes one copy of *Solar Photovoltaic Project Design and Development*.

Four Easy Ways to Register!

Register online at www.halfmoonseminars.org, mail in registration form to **HalfMoon Education Inc.**,

PO Box 278 Altoona, WI 54720-0278, fax the form to

(715) 835-6066, or call a customer service representative at (715) 835-5900.

Cancellations: Cancel at least 48 hours before the start of the seminar, and receive a full tuition refund, minus a \$39 service charge for each registrant. Cancellations within 48 hours will receive a credit toward another seminar. You may also send another person to take your place.

Registration

8:00 - 8:30 am

Morning Session

8:30 am - 12:00 pm

Lunch (On your own)

12:00 pm - 1:00 pm

Afternoon Session

1:00 - 4:30 pm

Credit Information

This seminar is open to the public. It offers up to 7.0 HSW continuing education hours to architects and 7.0 PDHs to professional engineers in all states with continuing education requirements for license maintenance.

This seminar is approved by the American Institute of Architects for 7.0 HSW Learning Units (Provider No. J885).

HalfMoon Education is an approved continuing education sponsor for architects in Florida and is deemed an approved sponsor in New York. HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana, Louisiana, Maryland, New Jersey (Approval No. 24GP0000700), New York (NYSSED No. 35), North Carolina, and North Dakota.

This program is approved by the North American Board of Certified Energy Practitioners (NABCEP) for 7.0 credit hours and the Building Performance Institute (BPI) for 3.5 CEUs.

This seminar offers a non-mandatory continuing education opportunity for construction contractors. It has not been reviewed by any state contractor licensing entity with a continuing education requirement.

Attendance will be monitored, and attendance certificates will be available after the seminar for most individuals who complete the entire event. Attendance certificates not available at the seminar will be mailed to participants within fifteen business days.

Online Learning

Technical Writing for Engineers Webinar Series

August 11 and 12, 2015

- Technical Writing Basics
- Writing Documents
- Planning Documents
- Revising and Editing Documents

September Webinar Series

International Residential Code - September 16th and 17th

- International Residential Code, Part I
- International Residential Code, Part II
- International Residential Code, Part III

Structural Forensic Engineering - September 23rd and 24th

- Introduction to the Forensic Engineering Process
- Causes of Failures and the Forensic Engineering Report
- Forensic Examination of Structures and Use in Litigation

Navigating the National Electrical Code 2015 - September 30th and October 1st

- Navigating the National Electrical Code 2015, Part I
- Navigating the National Electrical Code 2015, Part II

Visit www.halfmoonseminars.org/webinars/ for more information

Registration

Solar Photovoltaic Project Design and Development

How to Register

Online:

www.halfmoonseminars.org

Phone:

715-835-5900

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Key Code:

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HalfMoon Education, Inc.,
PO Box 278, Altoona, WI
54720-0278

Complete the entire form.

Attach duplicates if necessary.

Registrant Information

Name: _____

Company/Firm: _____

Address: _____

City: _____ State: _____ Zip: _____

Occupation: _____

Email: _____

Phone: _____

Additional Registrants:

Name: _____

Occupation: _____

Email: _____

Phone: _____

Name: _____

Occupation: _____

Email: _____

Phone: _____

Email address is required for credit card receipt, program changes, and notification of upcoming seminars and products. Your email will not be sold or transferred.

()  I need special accommodations. Please contact me.

I will be attending the live seminar:

() **Wallingford, CT** - Thursday, October 1, 2015

() **White Plains, NY** - Thursday, October 8, 2015

Single Registrant - **\$269.00**. Three or more registrants from the same company registering at the same time - **\$249.00** each.

Checks: Make payable to HalfMoon Education, Inc.

Credit Card: *Mastercard, Visa, American Express, or Discover*

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