



CHESAPEAKE

IEC

PRIDE

March 6, 2018
Dulles, Virginia

March 7, 2018
New Castle, Delaware

March 8, 2018
Laurel, Maryland

Price Includes:

- Lunch
- PV/NEC Suggested Practices Manual

Early Bird Price: \$ 400.00
ends February 6, 2018

Standard Price: \$ 445.00
IEC Members receive a 25% discount

Cancellation deadline is 15 business days prior to seminar. All cancellations received after deadline and/or no-shows will be billed and/or are non-refundable. IEC Chesapeake A&T has the right to cancel class if less than 15 students register.

PV Systems & the NEC



The 7-8 hour, one-day session will cover the 2011, 2014 and 2017 *National Electrical Code (NEC)* requirements for designing and installing PV systems. A basic knowledge of the *NEC* is required since Code basics will not be addressed. Conductor selection, ampacity calculations and overcurrent devices and disconnects will be covered. How to do it correctly and what not to do are items on the agenda. The focus will be on utility-interactive systems. 2014 *NEC* requirements in major areas related to PV systems will be addressed. Electricians, electrical inspectors and PV installers should attend. PV installers will receive 6 hours of NABCEP (North American Board of Certified Energy Practitioners) continuing education credits for the course.

Instructor: John Wiles retired in April 2013 as a Senior Research Engineer at the Southwest Technology Development Institute at New Mexico State University. However, he works part time as 25% employee and continues to assist the PV industry, electrical contractors, electrical inspectors, and purchasing agencies in understanding the PV requirements of the *National Electrical Code (NEC)*. He is an active member on six UL Standards Technical Panels. John served as Secretary for the PV Industry Forum involved with Article 690 of the *NEC*. Over 30 submissions were accepted for the 2011 *NEC* and 55 proposals were submitted for the 2014 Code. He drafted the text for Article 690 in the 2005 *NEC Handbook* and 2008 *NEC Handbook*. Fieldwork involves balance of systems design for PV systems, inspections and acceptance testing of PV systems, test and evaluation of PV components, and the design and installation of data acquisition systems. He bought his first codebook in 1960 and installed his first PV system in 1984. He lived in an off-grid, PV/wind-powered home (permitted and inspected, of course) with his wife Patti, two dogs, and a cat for more than 16 years. His retirement home currently has a 8.5 kW utility-interactive PV system will full-house battery backup and now has three dogs and two cats. He writes the "Perspectives on PV" series of articles for the International Association of Electrical Inspectors in their *IAEI News* magazine and has published an *IAEI* book on PV and the *NEC* for inspectors and plan reviewers. He has a Master of Science Degree in Electrical Engineering.

IEC Chesapeake Continuing Education

For more information or to register, please visit www.iec-chesapeake.com or contact us at (301)621-9545