

# Faculty and Credit Information

## Solar Photovoltaic Webinars

**John-Ross Cromer** has a Mechanical Engineering degree from the University of Pennsylvania and he is a master electrician, NABCEP-certified PV installer, and author of *Solar Power Design and Development: An Introduction to Rooftop Solar*. He brings ten years of solar project experience including residential, commercial, and small utility-scale projects to his work, including an off-grid home.

## Mechanical Forensic Engineering

**Stephen A. Batzer, Ph.D., P.E.**, *Batzer Engineering*

Dr. Batzer is a mechanical engineer with over 25 years of experience. He is an expert on manufacturing and forensic engineering, providing intellectual property, patent infringement, technological and product liability analysis. He has also served as an assistant professor in the Mechanical Engineering Department of the University of Arkansas. He earned his Ph.D. degree in Mechanical Engineering – Engineering Mechanics from Michigan Technological University.

## Retaining Structures

**Liiban A. Affi** is the founder of Foundation Engineering Consultants in the state of California. He specializes in excavation support analysis, drilled pier foundations and sub-structural engineering software. Mr. Affi is a licensed civil engineer in California, has authored three books, and was recently awarded a U.S. patent for a new method of supporting lightly-loaded foundations and pavements on highly expansive soils.

## NFPA 101 Series

**Ralph K. Foster, P.E.**, is the principal fire protection engineer of Foster Engineering and Consulting, LLC, founded in 2006. He earned his degree in Mechanical Engineering from the University of South Carolina and is an NFPA -certified fire inspector I and certified fire plans examiner.

## HVAC Series

**Allen Smith, Jr.** has more than 20 years of experience in the field and the classroom in HVAC/R, sustainable energy, leadership and education and is the instructor of Heating and Air Conditioning Technology at College of Lake County. Mr. Smith has designed and conducted various technician and student workshops for training in all aspects of energy mechanical systems including control systems in direct digital controls.

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## Continuing Education Credit Information

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## September Webinar Series:

- Mechanical Forensic Engineering
- NFPA 101 Series
- HVAC Series
- Retaining Structures
- National Electrical Code: A Solar Photovoltaic System Perspective
- Introduction to Residential Solar and Designing Solar Roofs
- 2017 Changes in Solar Design and Development
- The Distributed Battery Webinar Series



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# September Webinar Series

**Mechanical Forensic Engineering** • September 7 and 8

**NFPA 101 Series** • September 14 and 15

**HVAC Series** • September 21 and 22

**Retaining Structures** • September 28 and 29

**National Electrical Code: A Solar Photovoltaic System Perspective**

• September 6 and 7

**Introduction to Residential Solar and Designing Solar Roofs**

• September 12 and 13

**2017 Changes in Solar Design and Development**

• September 19 and 20

**The Distributed Battery Webinar Series**

• September 26 and 27

# September Webinar Series



## Mechanical Forensic Engineering

Architects: 6.0 HSW Contact Hours AIA: 6.0 HSW LUs Engineers: 7.0 PDHs

## NFPA 101 Series

Architects: 6.5 HSW Contact Hours AIA: 6.5 HSW LUs Engineers: 6.5 PDHs ICC: .65 Fire

## HVAC Series

Architects: 6.0 HSW Contact Hours AIA: 6.0 HSW LUs Engineers: 6.0 PDHs

## Retaining Structures

Architects: 4.5 HSW Contact Hours AIA: 4.5 HSW LUs Engineers: 4.5 PDHs

## National Electrical Code:

### A Solar Photovoltaic System Perspective

Architects: 6.0 HSW Contact Hours AIA: 6.0 HSW LUs Engineers: 6.0 PDHs ICC: Pending

## Introduction to Residential Solar and Designing Solar Roofs

Architects: 6.0 HSW Contact Hours AIA: 6.0 HSW LUs Engineers: 6.0 PDHs

## 2017 Changes in Solar Design and Development

Architects: 6.0 HSW Contact Hours AIA: 6.0 HSW LUs Engineers: 6.0 PDHs

## The Distributed Battery Webinar Series

Architects: 6.0 HSW Contact Hours AIA: 6.0 HSW LUs Engineers: 6.0 PDHs

*Each webinar in these series earns continuing education credit. The credit hours shown above are for all webinars in each series. See inside for credits available for individual webinars.*

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## Mechanical Forensic Engineering

Series Tuition: ~~-\$350~~ **\$300** when you register for all four webinars

**Total Credits: Architects:** 6.0 HSW Contact Hours **AIA:** 6.0 HSW LUs **Engineers:** 7.0 PDHs

### Mechanical Forensic Engineering Basics and Warnings

Thursday, September 7, 2017, 11:00 AM - 12:30 PM CDT **Tuition:** \$75

Credits: Architects: 1.5 HSW Contact Hours AIA: 1.5 HSW LUs Engineers: 1.5 PDHs

### Composing Defensible Opinions and the Forensic Engineering Report

Thursday, September 7, 2017, 1:00 - 3:00 PM CDT **Tuition:** \$100

Credits: Architects: 2.0 HSW Contact Hours AIA: HSW 2.0 LUs Engineers: 2.0 PDHs

### Material and Nonmaterial Causes of Failure

Friday, September 8, 2017, 11:00 AM - 1:30 PM CDT **Tuition:** \$125

Credits: Architects: 2.5 HSW Contact Hours AIA: 2.5 HSW LUs Engineers: 2.5 PDHs

### Forensic Engineering as a Profession

Friday, September 8, 2017, 2:00 - 3:00 PM CDT **Tuition:** \$50

Credits: Engineers: 1.0 PDH

## NFPA 101 Series

Series Tuition: ~~-\$325~~ **\$275** when you register for all four webinars

**Total Credits: Architects:** 6.5 HSW Contact Hours **AIA:** 6.5 HSW LUs  
**Engineers:** 6.5 PDHs **ICC:** .65 Fire

### NFPA 101 Basics

Thursday, September 14, 2017, 11:00 AM - 12:00 PM CDT **Tuition:** \$50

Credits: Architects: 1.0 HSW Contact Hour AIA: 1.0 HSW LU Engineers: 1.0 PDH ICC: .1 Fire

### Occupancy and Means of Egress

Thursday, September 14, 2017, 12:30 - 2:30 PM CDT **Tuition:** \$100

Credits: Architects: 2.0 HSW Contact Hours AIA: 2.0 HSW LUs Engineers: 2.0 PDHs ICC: .2 Fire

### Fire Protection Features and Equipment

Friday, September 15, 2017, 11:00 AM - 1:00 PM CDT **Tuition:** \$100

Credits: Architects: 2.0 HSW Contact Hours AIA: 2.0 HSW LUs Engineers: 2.0 PDHs ICC: .2 Fire

### Interior Finish, Special Structures and High Rises

Friday, September 15, 2017, 1:30 - 3:00 PM CDT **Tuition:** \$75

Credits: Architects: 1.5 HSW Contact Hours AIA: 1.5 HSW LUs Engineers: 1.5 PDHs ICC: .15 Fire

## HVAC Series

Series Tuition: ~~-\$300~~ **\$250** when you register for all four webinars

**Total Credits: Architects:** 6.0 HSW Contact Hours **AIA:** 6.0 HSW LUs **Engineers:** 6.0 PDHs

### Heating, Ventilation and Air Conditioning Principles

Thursday, September 21, 2017, 11:00 AM - 1:00 PM CDT **Tuition:** \$100

Credits: Architects: 2.0 HSW Contact Hours AIA: 2.0 HSW LUs Engineers: 2.0 PDHs

### HVAC System Design Considerations

Thursday, September 21, 2017, 1:30 - 2:30 PM CDT **Tuition:** \$50

Credits: Architects: 1.0 HSW Contact Hour AIA: 1.0 HSW LU Engineers: 1.0 PDH

### Evaluating HVAC Systems and Equipment

Friday, September 22, 2017, 11:00 AM - 12:00 PM CDT **Tuition:** \$50

Credits: Architects: 1.0 HSW Contact Hour AIA: 1.0 HSW LU Engineers: 1.0 PDH

### HVAC System Controls and Techniques

Friday, September 22, 2017, 12:30 - 2:30 PM CDT **Tuition:** \$100

Credits: Architects: 2.0 HSW Contact Hours AIA: 2.0 HSW LUs Engineers: 2.0 PDHs

## Solar Photovoltaic Webinars

### National Electrical Code: A Solar Photovoltaic System Perspective

Series Tuition: ~~-\$300~~ **\$250** when you register for both webinars

**Total Credits: Architects:** 6.0 HSW Contact Hours **AIA:** 6.0 HSW LUs  
**Engineers:** 6.0 PDHs **ICC:** Pending

#### National Electrical Code: A Solar Photovoltaic System Perspective, Part I

Wednesday, September 6, 2017, 11:00 AM - 2:15 PM CDT (incl. 15 min. break) **Tuition:** \$150

Credits: Architects: 3.0 HSW Contact Hours AIA: 3.0 HSW LUs Engineers: 3.0 PDHs ICC: Pending

#### National Electrical Code: A Solar Photovoltaic System Perspective, Part II

Thursday, September 7, 2017, 11:00 AM - 2:15 PM CDT (incl. 15 min. break) **Tuition:** \$150

Credits: Architects: 3.0 HSW Contact Hours AIA: 3.0 HSW LUs Engineers: 3.0 PDHs ICC: Pending

### Introduction to Residential Solar and Designing Solar Roofs

Series Tuition: ~~-\$300~~ **\$250** when you register for all three webinars

**Total Credits: Architects:** 6.0 HSW Contact Hours **AIA:** 6.0 HSW LUs **Engineers:** 6.0 PDHs

#### Introduction to Residential Solar

Tuesday, September 12, 2017, 11:00 AM - 2:15 PM CDT (incl. 15 min. break) **Tuition:** \$150

Credits: Architects: 3.0 HSW Contact Hours AIA: 3.0 HSW LUs Engineers: 3.0 PDH

#### Design Your Solar Roof

Wednesday, September 13, 2017, 11:00 AM - 2:15 PM CDT (incl. 15 min. break) **Tuition:** \$150

Credits: Architects: 3.0 HSW Contact Hours AIA: 3.0 HSW LUs Engineers: 3.0 PDH

### 2017 Changes in Solar Design and Development

Series Tuition: ~~-\$300~~ **\$250** when you register for both webinars

**Total Credits: Architects:** 6.0 HSW Contact Hours **AIA:** 6.0 HSW LUs **Engineers:** 6.0 PDHs

#### Solar Photovoltaic Project Design and Development, Part I

Tuesday, September 19, 2017, 11:00 AM - 2:15 PM CDT (incl. 15 min. break) **Tuition:** \$150

Credits: Architects: 3.0 HSW Contact Hours AIA: 3.0 HSW LUs Engineers: 3.0 PDHs

#### Solar Photovoltaic Project Design and Development, Part II

Wednesday, September 20, 2017, 11:00 AM - 2:15 PM CDT (incl. 15 min. break) **Tuition:** \$150

Credits: Architects: 3.0 HSW Contact Hours AIA: 3.0 HSW LUs Engineers: 3.0 PDHs

### The Distributed Battery Webinar Series

Series Tuition: ~~-\$300~~ **\$250** when you register for all four webinars

**Total Credits: Architects:** 6.0 HSW Contact Hours **AIA:** 6.0 HSW LUs **Engineers:** 6.0 PDHs

#### The Distributed Battery Webinar, Part I

Tuesday, September 26, 2017, 11:00 AM - 2:15 PM CDT (incl. 15 min. break) **Tuition:** \$150

Credits: Architects: 3.0 HSW Contact Hours AIA: 3.0 HSW LUs Engineers: 3.0 PDHs

#### The Distributed Battery Webinar, Part II

Wednesday, September 27, 2017, 11:00 AM - 2:15 PM CDT (incl. 15 min. break) **Tuition:** \$150

Credits: Architects: 3.0 HSW Contact Hours AIA: 3.0 HSW LUs Engineers: 3.0 PDHs

## Retaining Structures

Series Tuition: ~~-\$225~~ **\$200** when you register for all four webinars

**Total Credits: Architects:** 4.5 HSW Contact Hours **AIA:** 4.5 HSW LUs **Engineers:** 4.5 PDHs

### Earth Pressures and Surcharges

Thursday, September 28, 2017, 11:00 AM - 12:30 PM CDT **Tuition:** \$75

Credits: Architects: 1.5 HSW Contact Hours AIA: 1.5 HSW LUs Engineers: 1.5 PDHs

### Cantilever & Apparent Earth Pressures

Thursday, September 28, 2017, 1:00 PM - 2:30 PM CDT **Tuition:** \$75

Credits: Architects: 1.5 HSW Contact Hours AIA: 1.5 HSW LUs Engineers: 1.5 PDHs

### Apparent Earth Pressures

Friday, September 29, 2017, 11:00 AM - 12:30 PM CDT **Tuition:** \$75

Credits: Architects: 1.5 HSW Contact Hours AIA: 1.5 HSW LUs Engineers: 1.5 PDHs

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