

Electro Expo 2018 WEDNESDAY, MARCH 7

8:00 - 9:00 a.m. 9:00 - 10:00 a.m.		Code Requirements for the Layout and Design of Fire Alarm Systems - Tim Poo, PE (4 CEUs)	Update of Changes for the 2018 NFPA 70E - Steve Abbot, PE (3 CEUs)		Professional Ethics in Engineering - John F. Greenhalge (2 PDH)	Managing LED Luminaire Costs: Correct Specification can Reduce Your Cost - Acuity (1 AIA, LU HSW)	
10:00 - 11:00 a.m. 11:00 a.m 12:00 p.m.			and UL2748 - Dan Hrncir, PE (1 CEU)		The Effect of Light on Health and Well Being: Basics and Applications - Mariana Figueiro (1.5 AIA, LU, PDH)		BICSI North Central
12:00 - 1:00 p.m.							Region Meeting - BIcSI Accreditation
1:00 - 2:00 p.m.	CEUs)	Power Quality: Making the Most of Your Energy -		2017 NEC / Encore and Riffle	Ashrae 90.1 - Matt Priebe (1 CEU)	Interconnection Requirements for Wind Turbines and Solar Panels - FirstEnergy	will be offered
2:00 - 3:00 p.m.	2018 (3 CE	Mario Teti (2 CEU's)	NEC: Protecting Critical Circuits from Fire and Life Safety Circuits - Mark Hall (1 CEU)	& Associaties	Industrial Lighting Fundamentals - Acuity (1 AIA, LU HSW)		
3:00 - 4:00 p.m.	0 20						
4:00 - 5:00 p.m.	Expo						
5:00 - 6:00 p.m.	Electro	NAED Member and Prospective Member Meet					
6:00 - 7:00 p.m.	Ele	Up					
7:00 - 8:00 p.m.							
8:00 - 9:00 p.m.							



Electro Expo 2018 THURSDAY, MARCH 8

9:00 - 10:00 a.m.		Undertanding the Scope of an Arc Flash Study - Steve		Enabling the Internet of Things through Digital Lighting - John McBride ((1 AIA, LU HSW)		Physical Security at the Infrastructure Layer - Scott W. Ware (1 BICSI)
10:00 - 11:00 a.m.		Abbott (3 CEUs)	Top Ten 2017 Changes, Top Ten	The Future of the Lighting Industry - Dr. Jack Curran (1 AIA, LU HSW)		HDBAseT Deep Dive Technology Exploration - Joseph Cornwall - (1 BICSI)
11:00 a.m 12:00 p.m.		New Generation of Medium Voltage Switchgear - Joseph Richard (1 CEU)	2020 Proposed Changes, Codes, Standards & Sumbission Process - Tim McClintock (2 CEUs)	Evaluating Light Source Color Quality Using IES TM-30-15- IES Regional Meeting - Dr. Kevin Houser (1 AIA, LU HSW)		5 Steps to Building Better WiFI Networks - Jussi Kivineimi / Jerry Olla (1 BICSI)
12:00 - 1:00 p.m.	-					
12:30 - 1:00 p.m.			Smart Grid with the Illumiating Company			
1:00 - 2:00 p.m.	3 CEUs)	How to Perform an Electrical Risk Assessment - Steve Abbott (3 CEUs)	Standby Power Generator Systems - Designs & Applications - Mike Sonnhalter (1 CEU)	IES Cleveland Board of	FirstEnergy Commercial & Industrial Incentive Programs Chris Joss (1)	Emerging Clinical Solutions Center - Cleveland Clinic - Dr. Will Morris/Brent Hicks (1 BICSI)
2:00 - 3:00 p.m.	2018 (Managers and District Meeting	Lean for Design & Construction - Rocco Gallo and Armando Francisco (1 CEU)	Everything IP: In Three Short Years, Everything will Change. Is Your Network Ready (1 BICSI, AIA)
3:00 - 4:00 p.m.	dx					
4:00 - 5:00 p.m.	Electro Expo					
5:00 - 6:00 p.m.	Ele					
6:00 - 7:00 p.m.						
7:00 - 8:00 p.m.						
8:00 - 9:00 p.m.						



WEDNESDAY, MARCH 7

8:00 a.m 12:00 p.m.		Timothy G. Pool, PE, RCDD, ESI 7011,	4 credits / OCILB, PDH
	Code Requirements for the Layout and Design of Fire Alarm Systems	Director of Electrical Engineering, Principal,	
8:00 a.m 11:00 a.m.	Update of Changes for the 2018 NFPA	Steve Abbott - Stark Safety Consultants	3 credits / OCILB, PDH
8:00 a.m. 10:00 a.m.	Professional Ethics in Engineering	John F. Greenhalge, State of Ohio	2 credits / PDH
9:00 a.m 10:00 a.m.	Managing LED Luminaire Costs: Correct Specification Can Reduce Your	Acuity	1 AIA, LU HSW
	Cost		
9:00 a.m 4:00 p.m.	BICSI North Central Regional Meeting		5 BICSI CECs
10:30 a.m 12:00 p.m.	The Effect of Light on Health and Well Being: Basics and Applications	Mariana Figueiro PhD., Director - The	
		Lighting Institute Research Center (LRC) and	
		Professor of Architecture at Rensselaer	1 AIA, LU HSW, PDH
11:00 a.m 12:00 p.m.	Arc Quenching Technology and UL2748	Dan Hrncir, PE - Eaton Corp.	1 credit/ OCILB, PDH
12:00 p.m 9:00 p.m.	Electro Expo 2018 Trade Show	Trade Show	3 credits / OCILB, PDH
12:00 p.m 4:00 p.m.	NEC 2017	Encore Wire /Riffle & Assoc.	4 credits / OCILB, PDH
1:00 p.m 3:00 p.m.	Power Quality: Making the Most of Your Energy	Mario Teti, Schneider Electric	2 credits / OCILB, PDH
1:00 p.m 2:00 p.m.	ASHRAE 90.1-2010 Energy Standard for Buildings Except Low Rise	Matt Priebe, Karpinski Engieering	1 credit / OCILB, PDH
	Residential Buildings		
1:00 p.m 2:00 p.m.	Requirements for Wind Turbines and Solar Panels	FirstEnergy	1 credit / OCILB, PDH
2:00 p.m 3:00 p.m.	NEC: Protecting Critical Circuits from Fire and Life Safety Circuits	Mark Hall, Pentair	1 credit / OCILB, PDH
2:00 p.m 3:00 p.m.	Industrial Lighting Fundamentals	Acuity	1 AIA, LU HSW
5:00 p.m 7:00 p.m.	NAED New Member and Prospective Member Meet Up		

THURSDAY, MARCH 8

Understanding the Scope of an Arc Flash Study	Steve Abbott, Stark Safety Consultants	3 credits / OCILB, PDH
Enabling the Internet of Things through Digital Lighting	John McBride, Acuity	1 AIA, LU HSW
Physical Security at the Infrastructure Layer	Scott W. Ware, Great Lakes Case & Cabinet	1 BICSI AIA
HDBaseT Deep Drive Technology Exploration	Joseph Cornwall, Legrand	1 BICSI
NEC: Top Ten 2017 Changes, Top Ten 2020 Proposed Changes, Codes & Submissions	Tim McClintock NEPA	2 credits / OCILB, PDH
	· ·	1 AIA, LU HSW
		1 credit/ OCILB, PDH
	Enabling the Internet of Things through Digital Lighting Physical Security at the Infrastructure Layer HDBaseT Deep Drive Technology Exploration	Enabling the Internet of Things through Digital LightingJohn McBride, AcuityPhysical Security at the Infrastructure LayerScott W. Ware, Great Lakes Case & CabinetHDBaseT Deep Drive Technology ExplorationJoseph Cornwall, LegrandNEC: Top Ten 2017 Changes, Top Ten 2020 Proposed Changes, Codes & SubmissionsTim McClintock, NFPAThe Future of the Lighting IndustryDr. Jack Curran, LED Transformations

11:00 a.m 12:30 p.m.	IES Cleveland: Evaluation Light Source Color Quality Using IES TM-30-15	Dr. Kevin Houser, Penn State University	1 AIA, LU HSW
11:00 a.m 12:00 p.m.	5 Steps to Building WiFI Networks	Jussi Kivineimi, Jerry Olla - Ekahau	1 BISCI
12:00 p.m 3:00 p.m.	How to Perform an Electrical Risk Assessment	Steve Abbott, Stark Safety Consultants	3 credits / OCILB, PDH
12:00 p.m 8:00 p.m.	Electro Expo 2018 Trade Show	Trade Show	3 credits / OCILB, PDH
12:30 p.m 2:30 p.m.	IES Cleveland Board of Managers and District Meeting		
12:30 p.m 1:30 p.m.	Smart Grid with the Illuminating Company	The Illuminating Co./FirstEnergy	1 credit / OCILB, PDH
1:00 p.m 2:00 p.m.	Standby Power Generator Systems: Design & Applications	Mike Sonnhalter, Buckeye Power Sales	1 credit / OCILB, PDH
1:00 p.m 2:00 p.m.	FirstEnergy Commercial and Industrial Incentive Programs	Sodexo	1 credit / OCILB, PDH
1:00 p.m 2:00 p.m.	Emerging Clinicial Solutions	Clinic	1 BICSI
2:00 p.m 3:00 p.m.	Lean for Design & Construction: Saying "No" to the Status Quo	Rocco Gallo, Karpinski Engineering and Armando Francisco, Lake Erie Electric	1 credit / OCILB, PDH
2:00 p.m 3:00 p.m.	Everything IP: In Three Short Years, Everything will Change. Is Your Network Ready?	Troy Parvin, Berk-Tek LLC	1 BICSI, AIA

Colors indicate educational track, classes are open to all:

Clean Energy

Lighting

Low Voltage Systems

Power/Electrical