

2009 PES CHAPTER OFFICERS and STAFF

The Institute Of
Electrical And
Electronics
Engineers, Inc.



Columbus Chapter

| Position | Name | e-mail | Affiliation | Phone | Cell Phone |
|-------------|-----------------|---------------------------|-------------------------|---------------|---------------|
| Chair | Howard Jones | hrjones@aep.com | American Electric Power | *614-552-1107 | 614-209-3289 |
| Vice Chair | Evan Wilcox | erwilcox@aep.com | American Electric Power | *614-552-1648 | 614-506-9545 |
| Secretary | Ajit Kadakia | Kadakia@scp.utilities.com | South Central Power Co. | *740-689-6225 | 614-361-0194 |
| Treasurer | Vinod Simha | vsimha@aep.com | American Electric Power | *614-552-1717 | 817-937-2105 |
| Membership | Richard Smelker | rdsmelker@aep.com | American Electric Power | *614-552-1697 | none |
| Past Chair | John Lauletta | jlauletta@exacterinc.com | Exacter Inc. | *614-880-9320 | 216-496-1219 |
| Program | Jason Byerly | jmyberly@aep.com | American Electric Power | *614-552-1492 | 614-537-3777 |
| Publicity | Tim Regan | tim.regan@ametek.com | AMETEK | *585-978-0000 | 585-978-0000 |
| Hospitality | Susie O'Brien | susantwc@sbcglobal.net | | 614-487-0099 | *614-560-4070 |

* Preferred contact number



The Institute
Of
Electrical And
Electronics
Engineers, Inc

IEEE PES April 13, 2010 PROGRAM

Date: Tuesday, April 13, 2010

Refreshments: 5:30 to 6:00 pm

Meeting: 6:00 to 7:00 pm

Earn one CPD Hour

Location: AEP Office, Conference Room 2C, 700 Morrison Rd., Gahanna, Ohio 43230

Title: Energy Storage Projects in American Electric Power

Abstract: After a successful deployment of a 1 MW, 7.2 MWh energy storage system in 2006 and its successful peak shaving performance, AEP decided to deploy more distributed energy storage systems. During 2008-9, three 2MW, 14.4MWh substation batteries were installed in Ohio, West Virginia and Indiana. In December 2009 a heavy snow storm caused a 2-day power outage in West Virginia and one of the 2MW batteries provided backup power for many houses, serving them for two cold days until the normal power feed was restored. This was the first application of battery backup power system of this scale. In pursuit of its goal to realize more value from each energy storage application while keeping the application cost down, AEP is now developing Community Energy Storage (CES), a new technology-neutral platform for utility energy storage applications. CES is a "virtual substation battery" located at customer sites. It's a group of small kW-scale batteries installed in customers' backyards run as fleet, responding to a "control hub" located in a substation.

Presenters: Dr. Ali Nourai (AEP Distribution Research and Technology) & Tom Walker (AEP Grid Management Deployment). Nourai retired from AEP in March and joined KEMA Inc as an executive Consultant.



Dr. Ali Nourai is chairman of the Electricity Storage Association (ESA), promoting development and commercial application of energy storage technologies as solutions to power and energy problems. He is also a Strategic Technology Consultant in American Electric Power (AEP). During his 30 years of activities in AEP, he received six US patents and was granted the Walter Fee Award from IEEE's Power Engineering Society for "Professional Contributions and Technical Competence through Significant Engineering Achievements". He championed the deployment of the 11MW, 75MWh of NAS batteries in AEP that was the first in the US. He also defined, specified and launched the Community Energy Storage (CES) program as a new broadly distributed utility-scale energy storage system that leverages the synergy with the emerging electric vehicle market by utilizing transportation batteries.



Tom Walker is a Principal Engineer for American Electric Power (AEP) working in the Distribution Grid Management Deployment Section in Columbus, Ohio. Mr. Walker joined AEP after graduating from Purdue University with a B. S. in Electrical Engineering in 1976. His responsibilities with AEP have been primarily within the Distribution Engineering realm including system planning, standards, computer applications, and asset quality assurance. With this diverse background he is presently focusing on projects relating to Grid Management as a part of AEP's drive towards smart grid implementations. Tom is a Professional Engineer registered in the State of Virginia and is an IEEE member.

Please RSVP to Vinod Simha by email to vsimha@aep.com or by phone at 614-552-1717 by 4:00 PM, April 12, 2010. Advise when you RSVP, if IEEE member and/or P.E., Map follows

Map 700 Morrison Rd

