

brilliant minds  
**BRIGHT FUTURES**  
**IEEE SECTIONS CONGRESS 2017**  
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## Educational Materials for Expert and Non-Expert

### IEEE Power & Energy Society's "Plain Talk"

**Wanda Reder**

*IEEE PES President: 2008 – 2009*

*IEEE Division Director VII: 2014-2015*



## The Future Grid Changes Things...



### Make Energy:

- More distributed supply
- Accommodate growth



### Move Energy:

- More flexible, intelligence, resiliency
- Increase visibility




### Use Energy:

- Integrate end-use activity
- Empower customers

### Apply Technologies:


- Energy storage
- Power electronics
- Distributed intelligence
- Adaptive protection
- Layered architecture
- Self-diagnostic, healing
- Data, cyber, analytics





## Mission Statement

To be the leading provider of scientific and engineering information on electric power and energy for the betterment of society and the preferred professional development source for our members



## Pain Talk Drivers

- Electric utility industry in the middle of a transformational change with opportunities everywhere.

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- It is not just about intelligence, and not just about convergence of power, communications, and information technology.....


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- It is as much about integration of broader resources, more reliable energy, and better use of scarce inputs.

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Drivers of Plain Talk

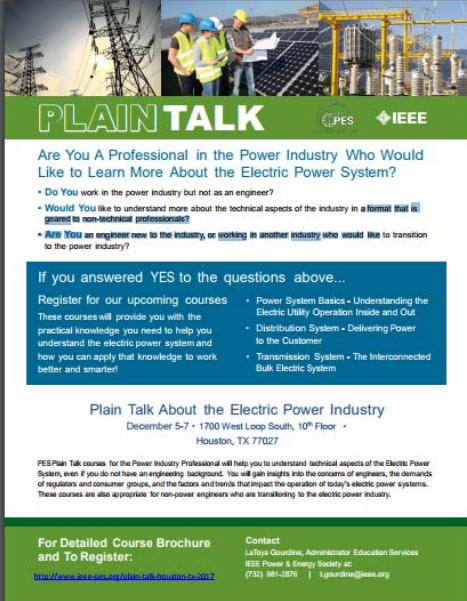
- ✓ Non-technical professional needs understanding
- ✓ Engineers need to relate with them





## Why IEEE Plain Talk

- IEEE Power & Energy Society developed Plain Talk
- To help Power Industry Professionals understand the electric power industry
- Focused on non-engineering professionals and engineers new to the industry
- Provides insights into the concerns of engineers, regulators, and consumer groups

<http://www.ieee-pes.org/professional-development/education/plain-talk>



**PLAIN TALK**  

Are You A Professional in the Power Industry Who Would Like to Learn More About the Electric Power System?

- Do You work in the power industry but not as an engineer?
- Would You like to understand more about the technical aspects of the industry in a format that is geared to non-technical professionals?
- Are You an engineer new to the industry, or working in another industry who would like to transition to the power industry?

If you answered YES to the questions above...

Register for our upcoming courses

These courses will provide you with the practical knowledge you need to help you understand the electric power system and how you can apply that knowledge to work better and smarter!


- Power System Basics - Understanding the Electric Utility Operation Inside and Out
- Distribution System - Delivering Power to the Customer
- Transmission System - The Interconnected Bulk Electric System

Plain Talk About the Electric Power Industry  
December 5-7 • 1700 West Loop South, 10<sup>th</sup> Floor • Houston, TX 77027

PES Plain Talk courses for the Power Industry Professional will help you to understand technical aspects of the Electric Power System, even if you do not have an engineering background. You will gain insights into the concerns of engineers, the demands of regulators and consumer groups, and the factors and trends that impact the operation of today's electric power systems. These courses are also appropriate for non-power engineers who are transitioning to the electric power industry.

For Detailed Course Brochure and To Register: <http://www.ieee-pes.org/plain-talk/course-2017>

Contact  
Lizbeth Gaudin, Administrator, Education Services  
IEEE Power & Energy Society at  
(713) 981-0878 | [lgaudine@ieee.org](mailto:lgaudine@ieee.org)



## Plain Talk = Three Courses

Three courses to work smarter:

1. Power System Basics
  - Understanding How the Bulk Electric Power System Works
2. Distribution System
  - Delivering Power to the Customer
3. Transmission System
  - The Interconnected Bulk Electric System

### WHY ATTEND

*PES Plain Talk courses for the Power Industry Professional will help you to understand technical aspects of the Electric Power System, even if you do not have an engineering background.*

**CONTINUING EDUCATION CREDITS**  
*Each Plain Talk one-day course is eligible for 0.8 CEUs. Participants who complete the full three-day series are eligible to earn 2.4 CEUs.*



## Many Benefits

BENEFITS



- Broadens audience and adds value for IEEE conferences
- Expands IEEE's industry connections
- Enhances the IEEE brand
- Added revenue stream
- Showcases IEEE PES expertise
- Addresses industry need



## IEEE PES Educational Resources

- Plain Talk Courses
- Tutorials
- Videos
- Webinars
- Distinguished Lecturer Program
- eLearning Library
- [PES Resource Center](#)



The screenshot displays the IEEE PES website interface. At the top, there are navigation links for IEEE.org, IEEE Open Digital Library, IEEE Standards Association, Spectrum Online, and IEEE Data. The main header features the IEEE PES logo and a photo of three professionals in hard hats reviewing documents. Below the header is a search bar and social media icons. The main content area is titled 'PROFESSIONAL DEVELOPMENT' and includes a sidebar with navigation options like 'EDUCATION', 'PES CAREERS', and 'WORKFORCE COLLABORATIVE'. The main text area highlights 'Education Programs' and 'PES Programs', with a sub-section for 'Plain Talk Courses for Power Industry Professionals'.

## Conclusion

- Electric utility industry is in transition
- Non-technical professionals need to understand the basic electric utility system
- Life-long learning is integral to IEEE PES Mission
- Plain Talk:
  - ✓ Satisfies an industry need
  - ✓ One facet of the IEEE PES professional development suite
  - ✓ Many IEEE benefits

