2018 ACE SCHOOL & RUS SYMPOSIUM
TERMINUS
CONNECTING POINTS OF OPPORTUNITY

Welcome and Introduction

Speaker:

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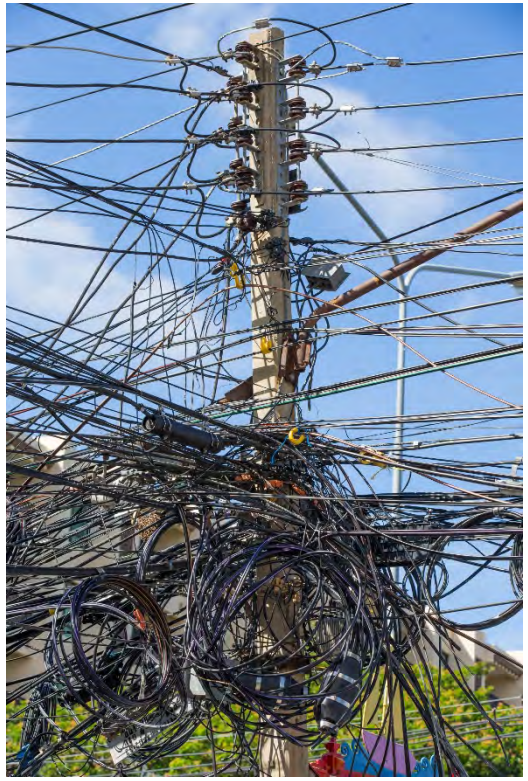
President
Yates Engineering Services, LLC

ACE Purpose and History

- Association of Communication Engineers
- Founded in 1950 (one year after start of REA Telephone program in 1949)
- A national non-profit association of firms providing professional engineering services to the telecommunications industry.
- One of ACE's primary objectives: To maintain professional standards as legally required and as outlined in the code of ethics of the National Society of Professional Engineers.
- ACE serves the telecommunications industry through coordination efforts with various professional organizations, industry associations and government agencies to advance and maintain initiatives, contracts, standards, and practices of benefit to the industry as a whole.

ACE Communication Partner Results

Before ACE



After ACE

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Association of Communication Engineers
ACE

Professional Engineering

- Why do states license engineers and regulate engineering firms?
  - To protect the health, welfare and safety of the public by ensuring the practice of engineering is only carried out by qualified persons
  - PE license requires combination of education, experience and exams
  - Only firms with a PE in responsible charge may offer engineering services
  - Most states require a certificate of authorization (COA), which lists names and license numbers of individuals in responsible charge
  - Engineer in responsible charge must be full-time employee
  - http://ace-engineers.com/links/ "How to Verify PE License"
  - All of this leads to Accountability

Telecommunications Engineering

- Includes elements of:
  - Electrical, electronics and communications
  - Information and traffic theory
  - Civil, construction, structural
  - Mechanical, materials
  - Computer networking
  - Industrial - project management & engineering economics
  - Project Management – art of balancing budget, schedule, and quality
  - Environmental

Telecom Engineering

- Public Safety is often a clear consideration: e.g. construction in proximity to other critical utilities, communication facilities, towers and grounded infrastructure.
- To Plan, design and implement telecommunications infrastructure requires understanding and proper application of:
  - the National Electrical Safety Code (NESC)
  - National Electrical Code (NEC).

America’s Infrastructure Scores a D+

PE’s Role in Infrastructure Deployment

“Professional engineers provide critical expertise and serve an essential and unique role in this process as the individual in the decision chain who has a duty that puts public safety first and overrides competitive, deadline-driven or short-sighted budgetary pressures. ”

ACE Members committed to the NSPE Code of Ethics

- NSPE Ethics (at http://www.nspe.org/resources/ethics/code-ethics)
  - Hold paramount public safety, health & welfare
  - Perform services only in areas of competence
  - Issue public statements only in objective and professional manner
  - Act for each client as faithful trustee
  - Avoid deceptive acts
  - Conduct self honorably, responsibly, ethically and lawfully so as to enhance the honor and reputation of the profession
  - Disclose known and potential conflicts
  - Not soliciting or accepting valuable consideration from third parties such as vendors and contractors
  - Confidentiality

ACE Activities in support of Rural Telecom

- ACE maintains dialogue and coordination with industry organizations
  - NTCA
    - Labor rate trends in Broadband Network Deployment
    - Data privacy and Cybersecurity
  - PCCA (Power & Communications Contractors Assoc.)
    - Better Facility Damage Reporting
    - Permit costs and delays in Public ROW
- Recent ACE activities with RUS
  - ACE comments on RUS contract, unit and procedure updates
    - RD Apply
    - FCC CAF II Auction rules

Welcome to

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ATLANTA MAY 15 - 17

INTERCONTINENTAL BUCKHEAD