



# IEEE Power Quality Subcommittee Meeting

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# IEEE Power Quality Subcommittee

## IEEE

### IEEE Power & Energy Society

- IEEE Transmission and Distribution Committee
  - **IEEE Power Quality Subcommittee**
    - Working Group on Monitoring Power Quality
    - Working Group on Voltage Quality
    - Working Group on Harmonics
    - Working Group on Power Quality Solutions
    - Working Group on Power Quality Activities

# IEEE Power Quality Subcommittee

- Chair: Dan Sabin
- Vice Chair: Tim Unruh
- Secretary: Rich Bingham
  
- Web Site: <http://grouper.ieee.org/groups/td/pq/>

# Attendee Introductions

- Include mention of which working groups or tasks forces for which you are an officer

# Officer Rotation

- The current officers have been in place for the past three years, so it is time to rotate them
- Proposed New Officers
  - Chair: Tim Unruh
  - Vice Chair: Rich Bingham
  - Secretary: TBD

# Working Group Status

## Working Group on Harmonics

- *IEEE 519 Recommended Practices and Requirements for Harmonic Control in Electrical Power Systems*
  - Working to have a vote and/or extension to IEEE 519 before December 31
- Writing a tutorial paper with a survey of spectral, time-frequency and probabilistic techniques for dealing with harmonics
- Proposing to Write Tutorial Paper on Aggregation of Harmonics Caused by Wind and PV Systems
- Planning to begin IEEE P519.1 Application Guide balloting in 2012

# Working Group Status

## Working Group on Voltage Quality

- *IEEE 1250 Guide for Service to Equipment Sensitive to Momentary Voltage Disturbances*
  - The guide was approved this spring. Presenting a summary of the standard during a Wednesday afternoon panel session.
- Discussed taking on a “black box” testing protocol for retrofit energy savings devices.
- IEEE P1564 Guide for Voltage Sag Indices
  - Formed ballot pool and will submit most recent draft for MET by IEEE Standards next week. Expects first ballot within months.

# Working Group Status

## Working Group on Voltage Quality

- *IEEE P1453 Recommended Practice for Measurement and Limits of Voltage Flicker on AC Power Systems*
  - Administratively withdrawn about 18 months ago via oversight, but was since balloted twice is waiting for approval by IEEE Standards. Based on 61000-4-15 Revision 2.
- Starting a new project (P1453.1) to adopt IEC 61000-3-7 as an IEEE standard with balloting expected to begin before end of year.
- Planning a new project (P1453.2), which would be an Application Guide with start in 2012



# Working Group Status

## Working Group on Monitoring Electric Power Quality

- *IEEE 1159 Recommended Practice for Monitoring Electric Power Quality*
  - Revised and published in 2009.
- Discussing whether next steps will be a revision to IEEE Std. 1159-2009 or to reform IEEE P1159.1
- Will focus on a white paper on power quality phenomena not discussed already in Std 1159

# Working Group Status

## Working Group on Power Quality Solutions

- *IEEE P1409 Guide for the Application of Power Electronics for Power Quality Improvement on Distribution Systems Rated 1 kV Through 38 kV*
  - Completed first ballot and addressed negative votes at this meeting
  - Expects to reballot within weeks.
- *IEEE 1346 Recommended Practice for Evaluating Electric Power System Compatibility with Electronic Process Equipment*
  - Withdrawn and no action yet within working group to write a replacement standard

# Working Group Status

## Working Group on Power Quality Activities

- Panel Sessions for GM 2012
  - “Alternative Uses of PQ Data” chaired tentatively by Wilsun Xu
  - “Theories, Experiences, and Practice with Waveform Distortion Assessment” chaired by Gary Chang and Roberto Langella

# Working Group Status

## Working Group on ICHQP

- International Conference on Harmonics and Quality of Power
- Planning next conference for Hong Kong from June 17-20, 2012

# Subcommittee Paper Reviews for IEEE Transactions on Power Delivery

- Bill Moncrief
- Wilsun Xu

# Next Meeting of Subcommittee and Working Groups

- January 10-12, 2012
- Orange County, California, USA