

**IEEE PES TRANSFORMERS COMMITTEE**  
**SPRING 2019 MEETING: MARCH 24 TO MARCH 28**  
**Hilton Anaheim Hotel; Anaheim, California USA**

3/16/2019

-- Room locations designated as (1), (2), etc., indicate the "button to press" in the elevator.  
 For instance, a room on (1) is located on First Level, and a room on (2) is located on Second Level.

**KEY**

**Note:** A PC projector will be furnished in each meeting room. Arrive early to ensure equipment operates/syncs correctly.  
 > = activity continued into another session / from another session  
 ++ = not a Transformers Committee activity  
 TBD = To Be Determined

**TRACK LEGEND**

|          |   |          |   |
|----------|---|----------|---|
| Admin    | Administrative SC                                 | Ins Life | Insulation Life SC                          |
| Bush     | Bushings SC                                       | Instr TR | Instrument Transformers SC                  |
| DiTests  | Dielectric Tests SC                               | Mtgs     | Meetings Planning SC                        |
| Distr    | Distribution Transformers SC                      | PCS      | Performance Characteristics SC              |
| Dry Type | Dry Type Transformers SC                          | Power    | Power Transformers SC                       |
| HVDC     | HVDC Converter Transfs. and Smoothing Reactors SC | STNP     | Submersible Transf. & Network Protectors SC |
| IF       | Insulating Fluids SC                              | Stds     | Standards SC                                |

**STATUS LEGEND**

|    |                 |
|----|-----------------|
| N  | New             |
| I  | In-Progress     |
| NC | Near Completion |
| B  | Ballot Stage    |
| C  | Complete        |

**THURSDAY, MARCH 21**

No Meeting Registration, Technical Tours, Spouse/Companion Tours, or Social Events Planned

| TIME              | ACTIVITY                          | TRACK | MTG CHAIR  | STATUS | ROOM (FLOOR) |
|-------------------|-----------------------------------|-------|------------|--------|--------------|
| 8:00 AM – 5:00 PM | IEC MT 60076-4 Impulse Test Guide | ++    | T. Hochanh | –      | Balboa A (4) |

**FRIDAY, MARCH 22**

No Meeting Registration, Technical Tours, Spouse/Companion Tours, or Social Events Planned

| TIME              | ACTIVITY                          | TRACK | MTG CHAIR  | STATUS | ROOM (FLOOR) |
|-------------------|-----------------------------------|-------|------------|--------|--------------|
| 8:00 AM – 5:00 PM | IEC MT 60076-4 Impulse Test Guide | ++    | T. Hochanh | –      | Balboa A (4) |

**SATURDAY, MARCH 23**

No Registration and no Meetings, Technical Tours, or Spouse/Companion Tours Planned

| TIME          | ACTIVITY  | TRACK  | MTG CHAIR | STATUS | ROOM (FLOOR) |
|---------------|---|--------|-----------|--------|--------------|
| 6:00 PM – ??? | Early Bird Event: Fire + Ice Interactive Grill + Bar  | Social |           |        |              |
|               | - Advance on-line registration required   |        |           |        |              |
|               | - Meet in hotel lobby at 6:00 PM and walk over to Fire + Ice as a group (0.5 mile / 12 minute walk)   |        |           |        |              |
|               | - Enjoy music and great food – registration fee includes all-you-care-to-eat grilled entrees (choose from a variety of fresh veggies, meats, pastas, seasonings and sauces) |        |           |        |              |
|               | - Cash bar  |        |           |        |              |
|               | - See flyer for details   |        |           |        |              |

**SUNDAY, MARCH 24**

No Technical Tours or Spouse/Companion Events Planned

| TIME              | ACTIVITY  | TRACK | MTG CHAIR  | STATUS | ROOM (FLOOR)          |
|-------------------|---|-------|------------|--------|-----------------------|
| 1:00 PM – 5:30 PM | Meeting Registration  |       |            |        | Registration Desk (2) |
| 2:00 PM – 5:30 PM | Administrative Subcommittee   | Admin | S. McNelly | –      | Avila (4)             |
|                   | - Closed meeting, by invitation only  |       |            |        |                       |
| 6:00 PM – 8:00 PM | Welcome Reception   |       |            |        | Sunset Deck (5)       |
|                   | Renew old friendships and form new ones! This reception will be held outside (weather permitting) so everyone can enjoy the California sunshine. Cash bars, plenty of fabulous food and live music will be provided. Please indicate whether you will attend this reception during the meeting registration process. All registered attendees and spouses/companions are welcome to attend. |       |            |        |                       |

**MONDAY, MARCH 25 - Monday Breaks Sponsored by IFD Corporation \*\***

| No Technical Tours or Social Events Planned |  |            |                      |        |   |  |
|---|--|------------|----------------------|--------|---|--|
| TIME  | ACTIVITY   | TRACK      | MTG CHAIR            | STATUS | ROOM (FLOOR)  |  |
| 7:00 AM – 5:00 PM                           | Meeting Registration   |            |                      |        | Registration Desk (2)                                   |  |
| 7:00 AM – 7:50 AM                           | Newcomers Orientation<br>- Breakfast meeting; arrive early!<br>- Newcomers and guests are encouraged to attend!  |            | B. Forsyth           | –      | California B (2)  |  |
| 7:00 AM – 7:50 AM                           | Distribution & STNP SC Leaders Coordination<br>- Closed breakfast meeting, by invitation only  | Distr/STNP | S. Shull / D. Mulkey | –      | Malibu (4)  |  |
| 7:00 AM – 8:00 AM                           | Breakfast - Attendees (no spouses/companions please)   |            |                      |        | California Ballroom D (2)                               |  |
| 8:00 AM – 9:30 AM                           | Breakfast - Spouses/Companions (no meeting attendees)  |            |                      |        | Avalon (1)  |  |
| 8:00 AM – 9:15 AM                           | Opening Session<br>- All registered meeting participants are encouraged to attend<br>- See separate document on website for meeting agenda<br>- Attendance required to maintain Committee Member status  |            | S. McNelly           | –      | California Ballroom C (2)                               |  |
| 9:15 AM – 4:30 PM                           | Spouses/Companions Tour: Cruisin' the Pacific Coast Hwy<br>- Advance on-line registration required<br>- Bus departs 9:15 AM from Hotel Way and returns ~4:30 PM; includes lunch<br>- See flyer for details   | Tour       |                      |        |   |  |
| 9:15 AM – 9:30 AM                           | Break (beverages only) - Sponsored by IFD Corporation *  |            |                      |        | California Ballroom Foyer (2)<br>& Concourse Lounge (4) |  |
| 9:30 AM – 10:45 AM                          | WG Thermal Evaluation C57.100  | Ins Life   | R. Wicks             | N      | California Ballroom A (2)                               |  |
| 9:30 AM – 10:45 AM                          | TF Transf Efficiency & Loss Evaluation (DOE Activity)  | Distr      | P. Hopkinson         | I      | California Ballroom B (2)                               |  |
| 9:30 AM – 10:45 AM                          | TF PC12.152 PAR Preparation  | Stds       | M. Ferreira          | N      | Capistrano (4)  |  |
| 9:30 AM – 10:45 AM                          | WG Dry Type Reactors PC57.16   | Dry Type   | A. Del Rio           | I      | El Capitan (4)  |  |
| 9:30 AM – 10:45 AM                          | WG Partial Discharge Test - C57.113  | DiTests    | A. Naderian          | I      | Laguna (4)  |  |
| 9:30 AM – 10:45 AM                          | WG Std Transf. Terminology C57.12.80   | Stds       | C. Claiborne         | I      | Malibu (4)  |  |
| 10:45 AM – 11:00 AM                         | Break (beverages only) - Sponsored by IFD Corporation *  |            |                      |        | California Ballroom Foyer (2)<br>& Concourse Lounge (4) |  |
| 11:00 AM – 12:15 PM                         | WG Moisture in Insulation PC57.162   | Ins Life   | T. Prevost           | I      | California Ballroom A (2)                               |  |
| 11:00 AM – 12:15 PM                         | TF PCS Cont. Rev. to Test Code C57.12.90   | PCS        | H. Sahin             | –      | California Ballroom B (2)                               |  |
| 11:00 AM – 12:15 PM                         | WG Control Cabinets PC57.148   | Power      | J. Watson            | I      | Capistrano (4)  |  |
| 11:00 AM – 12:15 PM                         | TF PC57.12.52 PAR Development  | Dry Type   | J. Tedesco           | I      | El Capitan (4)  |  |
| 11:00 AM – 12:15 PM                         | WG Overhead Distr. Transf. C57.12.20   | Distr      | A. Traut             | I      | Laguna (4)  |  |
| 11:00 AM – 12:15 PM                         | WG Bushings Gen. Require. C57.19.00  | Bush       | P. Zhao              | I      | Malibu (4)  |  |
| 12:15 PM – 1:30 PM                          | Standards Development Review Luncheon<br>Everyone is welcome to attend. All SC/WG/TF leaders are highly encouraged to attend. Doors open ~12:00 pm. Come early, get a good seat and start eating. Advance on-line registration required. Admission verified with RFID badge at the door. To listen to the presentation without eating lunch, arrive by 12:30 pm. |            |                      |        | California Ballroom D (2)                               |  |
| 1:45 PM – 3:00 PM                           | <b>WG Installation of Power Transf. C57.93 CANCELLED</b>   | Power      | M. Lau               | C      | California Ballroom A (2)                               |  |
| 1:45 PM – 3:00 PM                           | TF Audible Sound Revision to Test Code   | PCS        | R. Girgis            | –      | California Ballroom B (2)                               |  |
| 1:45 PM – 3:00 PM                           | WG Guide of FRA for Liquid Filled Transf. C57.149  | PCS        | C. Sweetser          | I      | Capistrano (4)  |  |
| 1:45 PM – 3:00 PM                           | WG Dry Type Gen. Requirements C57.12.01  | Dry Type   | C. Ballard           | I      | El Capitan (4)  |  |
| 1:45 PM – 3:00 PM                           | <b>WG 1-ph Padmount Dist Transf. C57.12.38 CANCELLED</b>   | Distr      | A. Ghafourian        | I      | Laguna (4)  |  |
| 1:45 PM – 3:00 PM                           | WG Transformer Impulse Test Guide PC57.98  | DiTests    | T. Hochanh           | N      | Malibu (4)  |  |
| 3:00 PM – 3:15 PM                           | Break (beverages and treats) - Sponsored by IFD Corporation *  |            |                      |        | California Ballroom Foyer (2)<br>& Concourse Lounge (4) |  |
| 3:15 PM – 4:30 PM                           | TF PD Limits for Factory Tests   | DiTests    | V. Mehrotra          | –      | California Ballroom A (2)                               |  |
| 3:15 PM – 4:30 PM                           | WG Bushing Applicat. Guide C57.19.100  | Bush       | T. Spitzer           | I      | California Ballroom B (2)                               |  |
| 3:15 PM – 4:30 PM                           | WG on Loss Measurement C57.123   | PCS        | E. teNyenhuis        | N      | Capistrano (4)  |  |
| 3:15 PM – 4:30 PM                           | WG Transformer Monitoring C57.143  | Power      | M. Spurlock          | I      | El Capitan (4)  |  |
| 3:15 PM – 4:30 PM                           | WG 3-ph Padmount Dist Transf. C57.12.34  | Distr      | R. Stahara           | I      | Laguna (4)  |  |
| 3:15 PM – 4:30 PM                           | SC HVDC Converter Transfs & Smoothing Reactors   | HVDC       | M. Sharp             | –      | Malibu (4)  |  |
| 4:30 PM – 4:45 PM                           | Break (beverages only) - Sponsored by IFD Corporation *  |            |                      |        | California Ballroom Foyer (2)<br>& Concourse Lounge (4) |  |
| 4:45 PM – 6:00 PM                           | WG High Temp Liquid Transformers C57.154   | Ins Life   | R. Marek             | N      | California Ballroom A (2)                               |  |
| 4:45 PM – 6:00 PM                           | TF PCS Cont. Revisions to C57.12.00  | PCS        | T. Ansari            | -      | California Ballroom B (2)                               |  |
| 4:45 PM – 6:00 PM                           | <b>OPEN</b>  |            |                      |        | Capistrano (4)  |  |
| 4:45 PM – 6:00 PM                           | <b>TF IEEE-IEC Cross Reference NOT MEETING</b>   |            |                      |        | El Capitan (4)  |  |
| 4:45 PM – 6:00 PM                           | WG Sec. Network Protectors C57.12.44   | STNP       | M. Faulkner          | NC     | Laguna (4)  |  |
| 4:45 PM – 6:00 PM                           | TF Bushing Overload  | Bush       | M. Weisensee         | N      | Malibu (4)  |  |

**TUESDAY, MARCH 26 - Tuesday Breaks Sponsored by JST Transformateurs \*\***

| No Technical Tours or Social Events Planned |   |          |                       |        |   |  |
|---|---|----------|-----------------------|--------|---|--|
| TIME  | ACTIVITY  | TRACK    | MTG CHAIR             | STATUS | ROOM (FLOOR)  |  |
| 7:00 AM – 11:30 AM                          | Meeting Registration  |          |                       |        | Registration Desk (2)                                   |  |
| 7:00 AM – 7:50 AM                           | EL&P Delegation (End-users only please)<br>- Breakfast meeting; arrive early!   |          | J. Murphy             | –      | Santa Monica (4)  |  |
| 7:00 AM – 8:00 AM                           | Working Group Officer Training  |          | J. Graham             | N      | California Ballroom B (2)                               |  |
| 7:00 AM – 8:00 AM                           | Breakfast - Attendees (no spouses/companions please)  |          |                       |        | California Ballroom D (2)                               |  |
| 7:00 AM – 9:30 AM                           | Breakfast - Spouses/Companions (no meeting attendees)   |          |                       |        | Avalon (1)  |  |
| 8:00 AM – 5:00 PM                           | Spouses/Companions Tour: Hooray for Hollywood!<br>- Advance on-line registration required<br>- Bus departs 8:00 AM from Hotel Way and returns ~5:00 PM; includes lunch (breakfast open early to accommodate)<br>- See flyer for details   | Tour     |                       |        |   |  |
| 8:00 AM – 9:15 AM                           | TF on Winding Insulation PF   | DiTests  | D. Robalino           | –      | California Ballroom A (2)                               |  |
| 8:00 AM – 9:15 AM                           | WG Encl Int C57.12.28, C57.12.29, C57.12.31, C57.12.32  | Distr    | D. Mulkey             | I      | California Ballroom B (2)                               |  |
| 8:00 AM – 9:15 AM                           | WG Neutral Grounding Devices Amendment C57.32a  | PCS      | S. Panetta            | N      | Capistrano (4)  |  |
| 8:00 AM – 9:15 AM                           | TF Temp Rise Test Procedures C57.12.90, Clause 11   | Ins Life | A. Varghese           | N      | El Capitan (4)  |  |
| 8:00 AM – 9:15 AM                           | WG Dry Type PD Detection PC57.124   | Dry Type | T. Prevost / R. Marek | I      | Laguna (4)  |  |
| 8:00 AM – 9:15 AM                           | WG Station Service Volt. Transf. C57.13.8   | Instr TR | D. Wallace            | I      | Malibu (4)  |  |
| 9:15 AM – 9:30 AM                           | Break (beverages only) - Sponsored by JST Transformateurs *   |          |                       |        | California Ballroom Foyer (2)<br>& Concourse Lounge (4) |  |
| 9:30 AM – 10:45 AM                          | TF Condition Assessment Guide   | Power    | B. Sparling           | I      | California Ballroom A (2)                               |  |
| 9:30 AM – 10:45 AM                          | WG Shunt Reactors C57.21  | PCS      | S. Som                | I      | California Ballroom B (2)                               |  |
| 9:30 AM – 10:45 AM                          | WG Submersible Transf. C57.12.24  | STNP     | G. Termini            | I      | Capistrano (4)  |  |
| 9:30 AM – 10:45 AM                          | WG Temp Measurement PC57.165  | Ins Life | P. McClure            | I      | El Capitan (4)  |  |
| 9:30 AM – 10:45 AM                          | TF Low Frequency Test Guide   | DiTests  | D. Sauer              | N      | Laguna (4)  |  |
| 9:30 AM – 10:45 AM                          | WG Tests for Instrument Transf. C57.13.5  | Instr TR | P. Riffon             | I      | Malibu (4)  |  |
| 10:45 AM – 11:00 AM                         | Break (beverages only) - Sponsored by JST Transformateurs *   |          |                       |        | California Ballroom Foyer (2)<br>& Concourse Lounge (4) |  |
| 11:00 AM – 12:15 PM                         | WG Transportation Issues C57.150  | Power    | G. Anderson           | I      | California Ballroom A (2)                               |  |
| 11:00 AM – 12:15 PM                         | WG Semicond. Power Rectifier Transfs C57.18.10  | PCS      | S. Kennedy            | I      | California Ballroom B (2)                               |  |
| 11:00 AM – 12:15 PM                         | WG Liquid-immersed Sec. Network TRs C57.12.40   | STNP     | D. Blew               | N      | Capistrano (4)  |  |
| 11:00 AM – 12:15 PM                         | WG HVDC Converter Neutral Devices Entity PC 57.32.10  | PCS      |                       | N      | El Capitan (4)  |  |
| 11:00 AM – 12:15 PM                         | WG Distrib. Transf. Bushings PC57.19.02   | Bush     | E. Smith              | I      | Laguna (4)  |  |
| 11:00 AM – 12:15 PM                         | WG PLC Caps & CCVTs PC57.13.9   | Instr TR | Z. Roman              | I      | Malibu (4)  |  |
| 12:15 PM – 1:30 PM                          | Awards Luncheon<br>All meeting attendees are encouraged to attend to show appreciation and recognize accomplishments. Doors open ~12:00 pm. Come early, get a good seat and start eating. Advance on-line registration is required. Admission verified with RFID badge at the door. |          |                       |        | California Ballroom D (2)                               |  |
| 1:45 PM – 3:00 PM                           | TF Cont. Revision to Low Frequency Tests  | DiTests  | B. Griesacker         | –      | California Ballroom A (2)                               |  |
| 1:45 PM – 3:00 PM                           | TF Bar Coding for Distr Transf. C57.12.35   | Distr    | R. Chrysler           | N      | California Ballroom B (2)                               |  |
| 1:45 PM – 3:00 PM                           | WG Consolidation Insulating Fluid Guides PC57.166   | IF       | T. Prevost            | N      | Capistrano (4)  |  |
| 1:45 PM – 3:00 PM                           | WG Therm Eval of Insul Systems, Dry Type C57.12.60  | Dry Type | R. Wicks              | I      | El Capitan (4)  |  |
| 1:45 PM – 3:00 PM                           | WG Instrument Transf. Tests PC57.13.2   | Instr TR | T. Sizemore           | I      | Laguna (4)  |  |
| 1:45 PM – 3:00 PM                           | WG Determine Max Winding Temp Rise PC57.169   | Ins Life | S. Digby              | N      | Malibu (4)  |  |
| 3:00 PM – 3:15 PM                           | Break (beverages and pretzels) - Sponsored by JST Transformateurs *   |          |                       |        | California Ballroom Foyer (2)<br>& Concourse Lounge (4) |  |
| 3:15 PM – 4:30 PM                           | WG Gas Interpretation Guide C57.104   | IF       | C. Beauchemin         | B      | California Ballroom A (2)                               |  |
| 3:15 PM – 4:30 PM                           | WG Sw Transients Ind by TR/Bkr Interaction PC57.142   | PCS      | J. McBride            | N      | California Ballroom B (2)                               |  |
| 3:15 PM – 4:30 PM                           | TF Freq Domain Spectroscopy of Bushings C57.12.200  | DiTests  | P. Patel              | N      | Capistrano (4)  |  |
| 3:15 PM – 4:30 PM                           | TF Volts per Hertz  | PCS      | K. Yule               | N      | El Capitan (4)  |  |
| 3:15 PM – 4:30 PM                           | WG High Temp Insulat. Materials, P 1276 CANCELLED   | Ins Life | R. Wicks              | I      | Laguna (4)  |  |
| 3:15 PM – 4:30 PM                           | WG Std Terminal Markings C57.12.70  | Stds     | J. Varnell            | I      | Malibu (4)  |  |
| 4:30 PM – 4:45 PM                           | Break (beverages only) - Sponsored by JST Transformateurs *   |          |                       |        | California Ballroom Foyer (2)<br>& Concourse Lounge (4) |  |
| 4:45 PM – 6:00 PM                           | WG Loading Guide PC57.91  | Ins Life | D. Wallach            | I      | California Ballroom A (2)                               |  |
| 4:45 PM – 6:00 PM                           | WG Short Circuit Withstand PC57.164   | PCS      | S. Patel              | I      | California Ballroom B (2)                               |  |
| 4:45 PM – 6:00 PM                           | TF Cont. Rev to Imp. Test Sect of C57.12.00 & C57.12.90   | DiTests  | P. Riffon             | –      | Capistrano (4)  |  |
| 4:45 PM – 6:00 PM                           | WG Guide for Monitoring Distr Transf PC57.167   | Distr    | G. Hoffman            | N      | El Capitan (4)  |  |
| 4:45 PM – 6:00 PM                           | WG Dry Type Test Code C57.12.91   | Dry Type | D. Walker             | I      | Laguna (4)  |  |
| 4:45 PM – 6:00 PM                           | TF Instrument Transf. Accuracy  | Instr TR | I. Ziger              | N      | Malibu (4)  |  |

**IEEE PES TRANSFORMERS COMMITTEE**  
**SPRING 2019 MEETING: MARCH 24 TO MARCH 28**  
**Hilton Anaheim Hotel; Anaheim, California USA**

3/16/2019

**WEDNESDAY, MARCH 27 - Wednesday Breaks Sponsored by R.L. Components \*\***

No Registration and no Technical Tours or Spouse/Companion Events Planned

| TIME                | ACTIVITY   | TRACK    | MTG CHAIR      | STATUS | ROOM (FLOOR)                  |
|---------------------|--|----------|----------------|--------|-------------------------------|
| 7:00 AM – 8:00 AM   | Breakfast - Attendees (no spouses/companions please)   |          |                |        | California Ballroom D (2)     |
| 7:00 AM – 8:00 AM   | SC Meetings Planning<br>- Breakfast meeting; arrive early!<br>- All interested individuals welcome   | Mtgs     | T. Behrens     | -      | Capistrano (4)                |
| 7:00 AM – 8:00 AM   | IEC TC-14 Technical Advisory Group<br>- Breakfast meeting; arrive early!<br>- All interested individuals welcome   | ++       | P. Hopkinson   | -      | Laguna (4)                    |
| 8:00 AM – 9:30 AM   | Breakfast - Spouses/Companions (no meeting attendees please)   |          |                |        | Avalon (1)                    |
| 8:00 AM – 9:15 AM   | SC Instrument Transformers   | Instr TR | R. McTaggart   | -      | California Ballroom A (2)     |
| 8:00 AM – 9:15 AM   | SC Insulation Life   | Ins Life | S. Kennedy     | -      | California Ballroom B (2)     |
| 9:15 AM – 9:30 AM   | <i>Break (beverages only) - Sponsored by R.L. Components *</i>   |          |                |        | California Ballroom Foyer (2) |
| 9:30 AM – 10:45 AM  | SC Distribution Transformers   | Distr    | E. Smith       | -      | California Ballroom A (2)     |
| 9:30 AM – 10:45 AM  | SC Bushings  | Bush     | P. Zhao        | -      | California Ballroom B (2)     |
| 10:45 AM – 11:00 AM | <i>Break (beverages only) - Sponsored by R.L. Components *</i>   |          |                |        | California Ballroom Foyer (2) |
| 11:00 AM – 12:15 PM | SC Submersible Transf. & Network Protectors  | STNP     | D. Mulkey      | -      | California Ballroom A (2)     |
| 11:00 AM – 12:15 PM | SC Dielectric Test   | DiTests  | A. Varghese    | -      | California Ballroom B (2)     |
| 12:15 PM – 1:30 PM  | <i>Lunch (on your own)</i>   |          |                |        |                               |
| 1:30 PM – 2:45 PM   | SC Dry Type Transformers   | Dry Type | C. Johnson     | -      | California Ballroom A (2)     |
| 1:30 PM – 2:45 PM   | SC Power Transformers  | Power    | B. Griesacker  | -      | California Ballroom B (2)     |
| 2:45 PM – 3:00 PM   | <i>Break (beverages and treats) - Sponsored by R.L. Components *</i>   |          |                |        | California Ballroom Foyer (2) |
| 3:00 PM – 4:15 PM   | SC Insulating Fluids   | IF       | D. Wallach     | -      | California Ballroom A (2)     |
| 3:00 PM – 4:15 PM   | SC Performance Characteristics   | PCS      | C. Stiegemeier | -      | California Ballroom B (2)     |
| 4:15 PM – 4:30 PM   | <i>Break (beverages only) - Sponsored by R.L. Components *</i>   |          |                |        | California Ballroom Foyer (2) |
| 4:30 PM – 5:45 PM   | SC Standards   | Stds     | J. Murphy      | -      | California Ballroom A (2)     |
| 6:45 PM – 10:00 PM  | Magical Evening at Disneyland's California Adventure Park<br>Social<br>- Advance on-line registration required; admission confirmed with RFID name badge and wristband<br>- First shuttle bus departs Hilton on Hotel Way at 6:45 PM for DCA and will run every 15 minutes until 7:30 PM; first return shuttle departs Disney at 8:30 PM and will run every 15 minutes until 10:30 PM<br>- Enter park beginning at 7:00 PM; walk to Hyperion Courtyard right inside the park for buffet dinner, cash bar and entertainment<br>- After eating, enjoy all the park has to offer until close at 10:00 PM; SEE FLYER FOR DETAILS |          |                |        |                               |

**THURSDAY, MARCH 28**

No Meeting Registration, Technical Tours, Spouse/Companion Tours, or Social Events Planned

| TIME                | ACTIVITY   | TRACK    | MTG CHAIR  | STATUS | ROOM (FLOOR)                  |
|---------------------|--|----------|------------|--------|-------------------------------|
| 7:00 AM – 8:00 AM   | Breakfast - Attendees (no spouses/companions please)   |          |            |        | California Ballroom D (2)     |
| 8:00 AM – 9:30 AM   | Breakfast - Spouses/Companions (no meeting attendees please)   |          |            |        | Avalon (1)                    |
| 8:00 AM – 9:15 AM   | Technical Presentation 1<br>Keeping Grids Resilient – Transformer Exchange Within Days and Additional Options to Maximize Network Stability Through Use of State-of-the-Art High Temperature Materials and Connectivity, By: Richard Marek (DuPont), Peter Mueller (Pfisterer), Anastasia O'Malley (ConEd) and Ewald Schweiger (Siemens) - See flyer on website for details ** | Tutorial |            |        | California Ballroom C (2)     |
| 9:15 AM – 9:30 AM   | <i>Break (beverages only)</i>  |          |            |        | California Ballroom Foyer (2) |
| 9:30 AM – 10:45 AM  | Technical Presentation 2<br>IEEE C57.161-2018 — Newly Published Guide for Dielectric Frequency Response Test<br>By: Ali Naderian, Poorvi Patel and Peter Werelius - See flyer on website for details **  | Tutorial |            |        | California Ballroom C (2)     |
| 10:45 AM – 11:00 AM | <i>Break (beverages only)</i>  |          |            |        | California Ballroom Foyer (2) |
| 11:00 AM – 12:00 PM | Closing Session<br>- All attendees are encouraged to attend<br>- See separate document on website for meeting agenda   |          |            |        | California Ballroom C (2)     |
| 12:00 PM            | <i>Lunch (on your own)</i>   |          |            |        |                               |
| 12:30 PM – 4:30 PM  | NEMA Transformers  | ++       | J. Stewart | -      | El Capitan (4)                |

\* Contact Ed Smith (edsmith@ieee.org) if you are interested in sponsoring a day of coffee breaks at a future meeting.

\*\* Contact Tom Prevost (tprevost@ieee.org) if you are interested in making a technical presentation at a future meeting.

**FRIDAY, MARCH 29**

No Events Planned

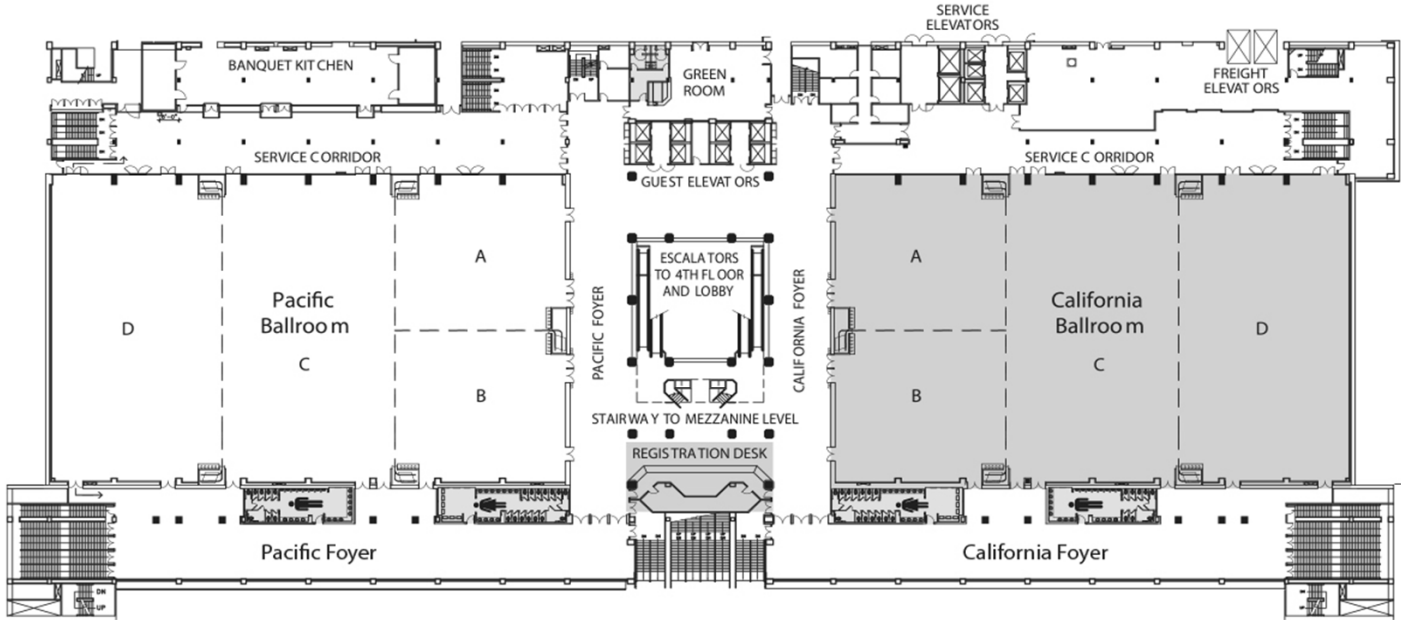
**FUTURE COMMITTEE MEETINGS**

Fall 2019: October 27–31; Columbus, Ohio, USA

Spring 2020: TBD

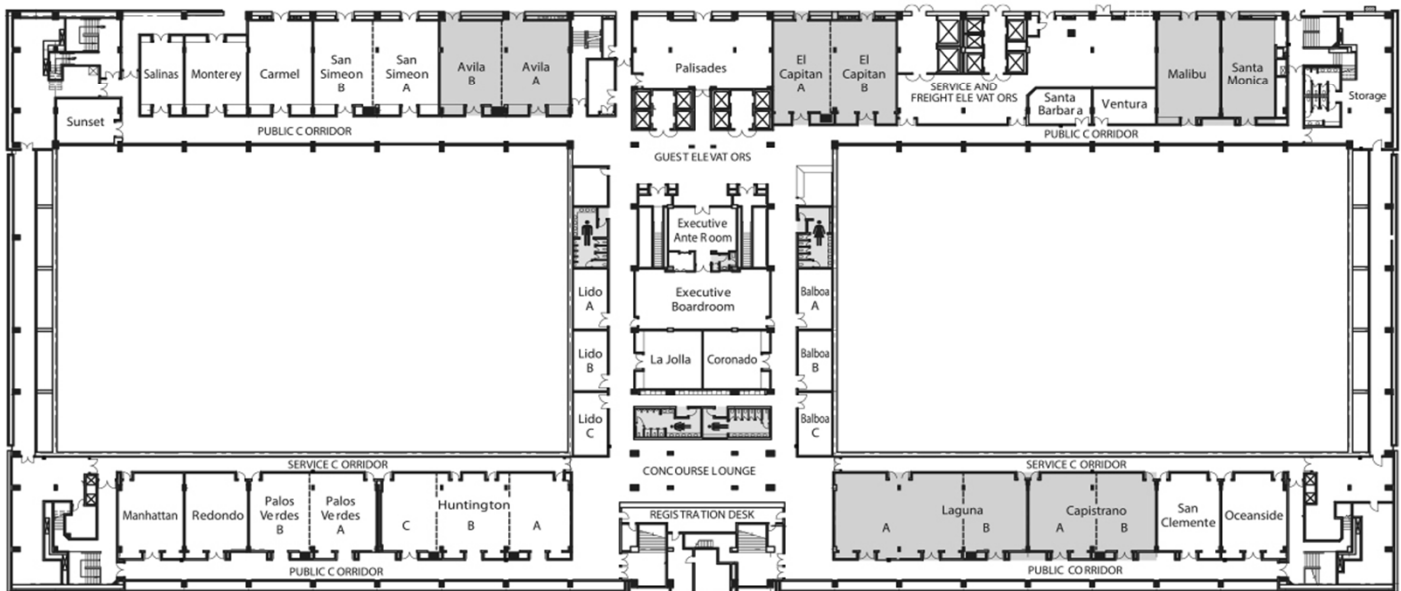
# BALLROOM LEVEL

## SECOND FLOOR



# CONCOURSE LEVEL

## FOURTH FLOOR



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## SUBCOMMITTEE MEETING LIST

## SPRING 2019 MEETING: MARCH 24 TO MARCH 28

Hilton Anaheim Hotel; Anaheim, California USA

| Date      | Time Start | Time End | Session Title  | Track      | Chair               | Room/Location             |
|-----------|------------|----------|--|------------|---------------------|---------------------------|
| 3/24/2019 | 2:00 PM    | 5:30 PM  | Administrative Subcommittee<br>- Closed meeting, by invitation only                                | Admin      | S. McNelly          | Avila (4)                 |
| 3/25/2019 | 11:00 AM   | 12:15 PM | WG Bushings Gen. Require. C57.19.00  | Bush       | P. Zhao             | Malibu (4)                |
| 3/25/2019 | 3:15 PM    | 4:30 PM  | WG Bushing Applicat. Guide C57.19.100  | Bush       | T. Spitzer          | California Ballroom B (2) |
| 3/25/2019 | 4:45 PM    | 6:00 PM  | TF Bushing Overload  | Bush       | M. Weisensee        | Malibu (4)                |
| 3/26/2019 | 11:00 AM   | 12:15 PM | WG Distrib. Transf. Bushings PC57.19.02  | Bush       | E. Smith            | Laguna (4)                |
| 3/27/2019 | 9:30 AM    | 10:45 AM | SC Bushings  | Bush       | P. Zhao             | California Ballroom B (2) |
| 3/25/2019 | 9:30 AM    | 10:45 AM | TF Transf Efficiency & Loss Evaluation (DOE Activity)  | Distr      | P. Hopkinson        | California Ballroom B (2) |
| 3/25/2019 | 11:00 AM   | 12:15 PM | WG Overhead Distr. Transf. C57.12.20   | Distr      | A. Traut            | Laguna (4)                |
| 3/25/2019 | 1:45 PM    | 3:00 PM  | WG 1-ph Padmount Dist Transf. C57.12.38 CANCELLED  | Distr      | A. Ghafourian       | Laguna (4)                |
| 3/25/2019 | 3:15 PM    | 4:30 PM  | WG 3-ph Padmount Dist Transf. C57.12.34  | Distr      | R. Stahara          | Laguna (4)                |
| 3/26/2019 | 8:00 AM    | 9:15 AM  | WG Encl Int C57.12.28, C57.12.29, C57.12.31, C57.12.32   | Distr      | D. Mulkey           | California Ballroom B (2) |
| 3/26/2019 | 1:45 PM    | 3:00 PM  | TF Bar Coding for Distr Transf. C57.12.35  | Distr      | R. Chrysler         | California Ballroom B (2) |
| 3/26/2019 | 4:45 PM    | 6:00 PM  | WG Guide for Monitoring Distr Transf PC57.167  | Distr      | G. Hoffman          | El Capitan (4)            |
| 3/27/2019 | 9:30 AM    | 10:45 AM | SC Distribution Transformers   | Distr      | E. Smith            | California Ballroom A (2) |
| 3/25/2019 | 7:00 AM    | 7:50 AM  | Distribution & STNP SC Leaders Coordination<br>- Closed breakfast meeting, by invitation only      | Distr/STNP | S. Shull / D. Mulke | Malibu (4)                |
| 3/25/2019 | 9:30 AM    | 10:45 AM | WG Partial Discharge Test - C57.113  | DiTests    | A. Naderian         | Laguna (4)                |
| 3/25/2019 | 1:45 PM    | 3:00 PM  | WG Transformer Impulse Test Guide PC57.98  | DiTests    | T. Hochanh          | Malibu (4)                |
| 3/25/2019 | 3:15 PM    | 4:30 PM  | TF PD Limits for Factory Tests   | DiTests    | V. Mehrotra         | California Ballroom A (2) |
| 3/26/2019 | 8:00 AM    | 9:15 AM  | TF on Winding Insulation PF  | DiTests    | D. Robalino         | California Ballroom A (2) |
| 3/26/2019 | 9:30 AM    | 10:45 AM | TF Low Frequency Test Guide  | DiTests    | D. Sauer            | Laguna (4)                |
| 3/26/2019 | 1:45 PM    | 3:00 PM  | TF Cont. Revision to Low Frequency Tests   | DiTests    | B. Griesacker       | California Ballroom A (2) |
| 3/26/2019 | 3:15 PM    | 4:30 PM  | TF Freq Domain Spectroscopy of Bushings C57.12.200   | DiTests    | P. Patel            | Capistrano (4)            |
| 3/26/2019 | 4:45 PM    | 6:00 PM  | TF Cont. Rev to Imp. Test Sect of C57.12.00 & C57.12.90  | DiTests    | P. Riffon           | Capistrano (4)            |
| 3/27/2019 | 11:00 AM   | 12:15 PM | SC Dielectric Test   | DiTests    | A. Varghese         | California Ballroom B (2) |
| 3/25/2019 | 9:30 AM    | 10:45 AM | WG Dry Type Reactors PC57.16   | Dry Type   | A. Del Rio          | El Capitan (4)            |
| 3/25/2019 | 11:00 AM   | 12:15 PM | TF PC57.12.52 PAR Development  | Dry Type   | J. Tedesco          | El Capitan (4)            |
| 3/25/2019 | 1:45 PM    | 3:00 PM  | WG Dry Type Gen. Requirements C57.12.01  | Dry Type   | C. Ballard          | El Capitan (4)            |
| 3/26/2019 | 8:00 AM    | 9:15 AM  | WG Dry Type PD Detection PC57.124  | Dry Type   | T. Prevost / R. Ma  | Laguna (4)                |
| 3/26/2019 | 1:45 PM    | 3:00 PM  | WG Therm Eval of Insul Systems, Dry Type C57.12.60   | Dry Type   | R. Wicks            | El Capitan (4)            |
| 3/26/2019 | 4:45 PM    | 6:00 PM  | WG Dry Type Test Code C57.12.91  | Dry Type   | D. Walker           | Laguna (4)                |
| 3/27/2019 | 1:30 PM    | 2:45 PM  | SC Dry Type Transformers   | Dry Type   | C. Johnson          | California Ballroom A (2) |
| 3/25/2019 | 3:15 PM    | 4:30 PM  | SC HVDC Converter Transfs & Smoothing Reactors   | HVDC       | M. Sharp            | Malibu (4)                |
| 3/26/2019 | 1:45 PM    | 3:00 PM  | WG Consolidation Insulating Fluid Guides PC57.166  | IF         | T. Prevost          | Capistrano (4)            |
| 3/26/2019 | 3:15 PM    | 4:30 PM  | WG Gas Interpretation Guide C57.104  | IF         | C. Beauchemin       | California Ballroom A (2) |
| 3/27/2019 | 3:00 PM    | 4:15 PM  | SC Insulating Fluids   | IF         | D. Wallach          | California Ballroom A (2) |
| 3/25/2019 | 9:30 AM    | 10:45 AM | WG Thermal Evaluation C57.100  | Ins Life   | R. Wicks            | California Ballroom A (2) |
| 3/25/2019 | 11:00 AM   | 12:15 PM | WG Moisture in Insulation PC57.162   | Ins Life   | T. Prevost          | California Ballroom A (2) |
| 3/25/2019 | 4:45 PM    | 6:00 PM  | WG High Temp Liquid Transformers C57.154   | Ins Life   | R. Marek            | California Ballroom A (2) |
| 3/26/2019 | 8:00 AM    | 9:15 AM  | TF Temp Rise Test Procedures C57.12.90, Clause 11  | Ins Life   | A. Varghese         | El Capitan (4)            |
| 3/26/2019 | 9:30 AM    | 10:45 AM | WG Temp Measurement PC57.165   | Ins Life   | P. McClure          | El Capitan (4)            |
| 3/26/2019 | 1:45 PM    | 3:00 PM  | WG Determine Max Winding Temp Rise PC57.169  | Ins Life   | S. Digby            | Malibu (4)                |
| 3/26/2019 | 3:15 PM    | 4:30 PM  | WG High-Temp Insulat. Materials, P-1276 CANCELLED  | Ins Life   | R. Wicks            | Laguna (4)                |
| 3/26/2019 | 4:45 PM    | 6:00 PM  | WG Loading Guide PC57.91   | Ins Life   | D. Wallach          | California Ballroom A (2) |
| 3/27/2019 | 8:00 AM    | 9:15 AM  | SC Insulation Life   | Ins Life   | S. Kennedy          | California Ballroom B (2) |
| 3/26/2019 | 8:00 AM    | 9:15 AM  | WG Station Service Volt. Transf. C57.13.8  | Instr TR   | D. Wallace          | Malibu (4)                |
| 3/26/2019 | 9:30 AM    | 10:45 AM | WG Tests for Instrument Transf. C57.13.5   | Instr TR   | P. Riffon           | Malibu (4)                |
| 3/26/2019 | 11:00 AM   | 12:15 PM | WG PLC Caps & CCVTs PC57.13.9  | Instr TR   | Z. Roman            | Malibu (4)                |
| 3/26/2019 | 1:45 PM    | 3:00 PM  | WG Instrument Transf. Tests PC57.13.2  | Instr TR   | T. Sizemore         | Laguna (4)                |
| 3/26/2019 | 4:45 PM    | 6:00 PM  | TF Instrument Transf. Accuracy   | Instr TR   | I. Ziger            | Malibu (4)                |
| 3/27/2019 | 8:00 AM    | 9:15 AM  | SC Instrument Transformers   | Instr TR   | R. McTaggart        | California Ballroom A (2) |
| 3/27/2019 | 7:00 AM    | 8:00 AM  | SC Meetings Planning<br>- Breakfast meeting; arrive early!<br>- All interested individuals welcome | Mtgs       | T. Behrens          | Capistrano (4)            |

## SUBCOMMITTEE MEETING LIST

## SPRING 2019 MEETING: MARCH 24 TO MARCH 28

Hilton Anaheim Hotel; Anaheim, California USA

| Date      | Time Start | Time End | Session Title  | Track | Chair          | Room/Location             |
|-----------|------------|----------|--|-------|----------------|---------------------------|
| 3/25/2019 | 11:00 AM   | 12:15 PM | TF PCS Cont. Rev. to Test Code C57.12.90             | PCS   | H. Sahin       | California Ballroom B (2) |
| 3/25/2019 | 1:45 PM    | 3:00 PM  | TF Audible Sound Revision to Test Code               | PCS   | R. Girgis      | California Ballroom B (2) |
| 3/25/2019 | 1:45 PM    | 3:00 PM  | WG Guide of FRA for Liquid Filled Transf. C57.149    | PCS   | C. Sweetser    | Capistrano (4)            |
| 3/25/2019 | 3:15 PM    | 4:30 PM  | WG on Loss Measurement C57.123                       | PCS   | E. teNyenhuis  | Capistrano (4)            |
| 3/25/2019 | 4:45 PM    | 6:00 PM  | TF PCS Cont. Revisions to C57.12.00                  | PCS   | T. Ansari      | California Ballroom B (2) |
| 3/26/2019 | 8:00 AM    | 9:15 AM  | WG Neutral Grounding Devices Amendment C57.32a       | PCS   | S. Panetta     | Capistrano (4)            |
| 3/26/2019 | 9:30 AM    | 10:45 AM | WG Shunt Reactors C57.21                             | PCS   | S. Som         | California Ballroom B (2) |
| 3/26/2019 | 11:00 AM   | 12:15 PM | WG HVDC Converter Neutral Devices Entity PC 57.32.10 | PCS   |                | El Capitan (4)            |
| 3/26/2019 | 11:00 AM   | 12:15 PM | WG Semicond. Power Rectifier Transfs C57.18.10       | PCS   | S. Kennedy     | California Ballroom B (2) |
| 3/26/2019 | 3:15 PM    | 4:30 PM  | TF Volts per Hertz                                   | PCS   | K. Yule        | El Capitan (4)            |
| 3/26/2019 | 3:15 PM    | 4:30 PM  | WG Sw Transients Ind by TR/Bkr Interaction PC57.142  | PCS   | J. McBride     | California Ballroom B (2) |
| 3/26/2019 | 4:45 PM    | 6:00 PM  | WG Short Circuit Withstand PC57.164                  | PCS   | S. Patel       | California Ballroom B (2) |
| 3/27/2019 | 3:00 PM    | 4:15 PM  | SC Performance Characteristics                       | PCS   | C. Stiegemeier | California Ballroom B (2) |
| 3/25/2019 | 11:00 AM   | 12:15 PM | WG Control Cabinets PC57.148                         | Power | J. Watson      | Capistrano (4)            |
| 3/25/2019 | 1:45 PM    | 3:00 PM  | WG Installation of Power Transf. C57.93 CANCELLED    | Power | M. Lau         | California Ballroom A (2) |
| 3/25/2019 | 3:15 PM    | 4:30 PM  | WG Transformer Monitoring C57.143                    | Power | M. Spurlock    | El Capitan (4)            |
| 3/26/2019 | 9:30 AM    | 10:45 AM | TF Condition Assessment Guide                        | Power | B. Sparling    | California Ballroom A (2) |
| 3/26/2019 | 11:00 AM   | 12:15 PM | WG Transportation Issues C57.150                     | Power | G. Anderson    | California Ballroom A (2) |
| 3/27/2019 | 1:30 PM    | 2:45 PM  | SC Power Transformers                                | Power | B. Griesacker  | California Ballroom B (2) |
| 3/25/2019 | 9:30 AM    | 10:45 AM | TF PC12.152 PAR Preparation                          | Stds  | M. Ferreira    | Capistrano (4)            |
| 3/25/2019 | 9:30 AM    | 10:45 AM | WG Std Transf. Terminology C57.12.80                 | Stds  | C. Claiborne   | Malibu (4)                |
| 3/26/2019 | 3:15 PM    | 4:30 PM  | WG Std Terminal Markings C57.12.70                   | Stds  | J. Varnell     | Malibu (4)                |
| 3/27/2019 | 4:30 PM    | 5:45 PM  | SC Standards   | Stds  | J. Murphy      | California Ballroom A (2) |
| 3/25/2019 | 4:45 PM    | 6:00 PM  | WG Sec. Network Protectors C57.12.44                 | STNP  | M. Faulkner    | Laguna (4)                |
| 3/26/2019 | 9:30 AM    | 10:45 AM | WG Submersible Transf. C57.12.24                     | STNP  | G. Termini     | Capistrano (4)            |
| 3/26/2019 | 11:00 AM   | 12:15 PM | WG Liquid-immersed Sec. Network TRs C57.12.40        | STNP  | D. Blew        | Capistrano (4)            |
| 3/27/2019 | 11:00 AM   | 12:15 PM | SC Submersible Transf. & Network Protectors          | STNP  | D. Mulkey      | California Ballroom A (2) |