# AGENDA
## ETAP Nuclear Utility Users Group (NUUG)
## 2016 Conference
ETAP Learning Center – Irvine, CA
June 21 – 23, 2016

## Tuesday, June 21

| 8:00 -9:00 | • Registration<br>• Continental Breakfast<br>• Networking | | |
|---|---|---|---|
| 9:00 -10:00 | **WELCOME AND INTRODUCTIONS**<br><br>• Opening, Officer and Attendee Introductions<br><br>• Review Agenda and NUUG Purpose<br><br>• ETAP Master Designers & Developers | Mark Bowman<br><br>Paul Colaianni<br><br>Farrokh Shokooh | NUUG Chair<br><br>NUUG Technical Chair<br><br>ETAP |
| 10:00 -10:30 | **Keynote Address:** *The NPEC Family Tree of IEEE*<br>Chair, IEEE NPEC Subcommittee 4, Auxiliary Power<br>Member, Nuclear Power Engineering Committee (NPEC) | Keith Bush | Enercon Services |
| **BREAK** | | | |
| 10:45 -11:15 | **State of the Company - ETAP 30th Anniversary** | Farrokh Shokooh | ETAP |
| 11:15 -12:00 | **Selected Features of ETAP 14**<br>*Why should I Upgrade?* | Tanuj Khandelwal | ETAP |
| **LUNCH** | | | |
| 1:00 -2:30 | **ETAP Education Session**<br>• Induction Machine Characteristics and Parameter Estimation | Farrokh Shokooh | ETAP |
| **BREAK** | | | |
| 3:00 -3:45 | **ETAP Battery Discharge Analysis with Control System Diagrams to Evaluate an Extended Battery Discharge Scenario for NFPA 805** | Tom Dunbar | MPR |
| 3:45 -4:30 | **Conversion of NETWORK Circuits to ETAP CSD** | Jeff Shearer | Zachry Nuclear |
| 4:30 -5:00 | **120 VAC Panel System Modeling in ETAP** | TJ Homayooni | Enercon Services |
| 5:30 -9:00 | • Tour New ETAP Building<br>• Casino Night<br>• Dinner | | |

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## <span style="color:red">Wednesday, June 22</span>

| Time | Session | | |
|------|---------|---|---|
| 8:30 - 9:00 | • Continental Breakfast<br>• Networking | | |
| 9:00 - 9:30<br><br>9:30 -10:00 | **Degraded Voltage Relay (DVR) Settings**<br>• Clinton Station DVR Setting Methodology Overview<br>• McGuire/Catawba DVR Setting Methodology Overview | Jim Mosley<br>Neal Simmons | Exelon<br>Duke Energy |
| | **BREAK** | | |
| 10:30 -11:00<br><br>11:00 -11:30<br><br>11:30 -12:00 | **Degraded Voltage Relay (DVR) Settings (cont.)**<br>• Point Beach DVR Setting Methodology Overview<br>• Sequoyah DVR Setting Methodology Overview<br>• Diablo Canyon DVR Setting Methodology Overview | Tim Lensmire<br>Tim Fallesen<br>Greg Reimers | NextEra Energy Point Beach<br>TVA Nuclear<br>Pacific Gas & Electric |
| 12:00 -12:15 | **NUUG Group Photo** | | |
| | **LUNCH** | | |
| 1:00 -2:45 | **NEI 15-01,** *An Analytical Approach for Establishing DVR Settings -* **Comparison to Existing Plant Methodologies**<br>• Presentation & group discussion | Mark Bowman<br><br>Panelists | TVA Nuclear |
| | **BREAK** | | |
| 3:15 -3:30 | **NUUG Business Meeting**<br>• NUUG Charter<br>• Officer Nominations | NUUG Officers | |
| 3:30 -4:30 | **NRC CDBI Electrical Issues Operating Experience Group Discussion** | Paul Colaianni | NUUG Technical Chair |
| 4:30 -5:00 | **Browns Ferry ETAP Model Review** | Tim Fallesen | TVA Nuclear |
| 5:00 -6:00 | **Networking/Social** | | |
| | Open Evening — No Group Event<br>See you at 8:30 am tomorrow. | | |

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## <span style="color:red">Thursday, June 23</span>

| Time | Session | Speaker | Organization |
|---|---|---|---|
| 8:30 -9:00 | • Continental Breakfast<br>• Networking | | |
| 9:00 -9:45 | **Open Phase Analysis at Catawba Nuclear Station** | Tom Solinsky | Zachry Nuclear |
| 9:45 -10:30 | **Motor Performance Under Unbalanced Voltage Conditions** | Tammy Womack | TVA Nuclear |
| **BREAK** | | | |
| 11:00 -12:00 | **ETAP Model Management Best Practices** | NUUG Officers | |
| **LUNCH** | | | |
| 1:00 -2:30 | **ETAP Education Sessions**<br>• Cable Ampacity Standards and Thermal Analysis        Conference<br>• Short Circuit and Arc-Flash Result Analyzers        Learning Center | Haijun Liu<br>Albert Marroquin | ETAP<br>ETAP |
| **BREAK** | | | |
| 3:00 -3:45 | **Watts Bar – The Next Generation** | Mark Bowman<br>Ronald Cox | TVA Nuclear<br>TVA Nuclear |
| 3:45 -4:30 | **ETAP Future Enhancement Symposium** | Jun Qiu | ETAP |
| 4:30 -5:00 | • **NUUG Business Meeting**<br>• Officer Voting<br>• Conference Close | Mark Bowman | NUUG Chair |
| 5:00 -5:30 | **Networking/Social** | | |
| 6:30 -9:00 | • Dinner at (TBD)<br>• Conference Awards | | |

**Agenda**
# ETAP 211 Nuclear Power System Analysis – Advanced
# 1-Day Workshop
ETAP Learning Center – Irvine, CA
June 24, 2016
9:00 am – 4:00 pm

**Morning Session**                    **Afternoon Session**

➢ Unbalanced Load Flow & Open Phase Fault Analysis

- Introduction to Unbalanced Load Flow
- Harmful Effects of System Unbalance
- Burried Delat Winding & No Load Losses for 2/3 Winding Transformers
- Motor Modeling for Unbalanced Studies
- Open Phase Fault Analysis
- Output Reports / Alerts

➢ User-Defined Dynamic Models - ETAP 16.0.0

- Creating Exciter and Governor Models
- Checking Models with New Test Routines
- Test Results Visualization with New Scope Functionality and Using TS Outputs
- Bus Transfer Analysis Review

➢ Fast Bus Transfer Analysis Review

- Setting up simulations
- Visualizing the results

**http://etap.com/events/211-irvine-0624.htm**