Conference Agenda

April 8 - 10, 2019 Newport Beach, CA

| 0.00 | Tutorial Sessions Monday, April 8 | | |
|--|--|---|--|
| 8:00 | Registration / Breakfast / Technology Exhibition | | |
| | Industrial Systems | T&D, Generation Systems | |
| | Application of IEEE 1584-2018 and HV Arc Flash in ETAP Essentials of Arc Flash Analysis (LV to HV) | Grid Code Compliance ABC's of Generation Impact Studies | |
| | Albert Marroquin, ETAP Daleep Mohla, DCM Consulting Applying IEEE 1584-2018 Standard AC/DC arc flash hazard assessment & prevention ArcFault™ HV arc flash per OSHA compliance | Tanuj Khandelwal, ETAP Hugh O'Kelly, ioLogic Consulting Technical requirements for integration of renewables Interconnection study methodologies Feeder hosting capacity assessment Screening & impact analysis of distributed generation DER with smart inverter applications | |
| 10:30 | Break / Technology Exhibition | | |
| | Protection & Coordination A Systematic Approach for Performing PDC Studies | Distribution Network Analysis Design, Evaluate, Optimize & Automate | |
| 12:30 | Victor Andrade, ETAP Giovanni Gambirasio, SELECTY Easily determine zones of protection and coordination Effectively conduct studies and validate protective device settings Reduce months of work to a few hours by automatic evaluations Application of rule books to standardize design Lunch / Techno Unified Protection & Dynamic Stability Bridge Transient & Protection Studies Mohammad Zadeh, ETAP Study the interdependency between system dynamics and relay actions Tune relay settings to act properly during transient events | Advanced Distribution Grid Management Integrated Model-Based SCADA, DMS & OMS Derek Dean, ETAP Gustavo Serrate, ETAP Learn about the features, capabilities and benefits of an integrated ADMS built on the scalable and modular ETAP | |
| | Turile relay settings to act properly during transient events Design and test remedial protection schemes Evaluate overcurrent and impendence relays during power swings Study generator protection during loss of excitation | model-driven platform. Improve safety, efficiency and quality of service by making GIS data work for you in the field. | |
| 3:00 | Break / Techno | ~ · | |
| | Transient Stability & Electromagnetics Dynamic Stability & EMT Analysis | Renewable Energy Design & Sizing of Wind Turbine & Solar Farms | |
| | Albert Marroquin, ETAP Dharshana Muthumuni, PSCAD torial on Dynamic Stability and Electromagnetic phenomena with hphasis on renewable energy systems. Simulations based on IEC | Tanuj Khandelwal, ETAP Bjørn Bungum, Unitech Characteristics of WTG and PV components | |
| 3:30 em 614 inc tra inc rea | 400-27-1-2015 with REPCA plant-level controller actions will be cluded to understand the impact of renewable energy systems insients on nearby industrial and on weak grid systems. Topics clude power penetration transients, faults, closed-loop voltage and active power controls, switching transients, insulation coordination, b-synchronous resonance and more. | Production estimation for feasibility studies Effects of intermittency of renewable energy Limitations imposed by utility Grid Code requirements Design and size commercial and utility scale systems | |

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| Time | Technology Session Tuesday, April 9 | | | |
| 8:00 | Registration / Breakfast / Technology Exhibition | | | |
| | Bridging the Gap - Modeling to Operation | | | |
| | Welcome & Introductions: John Francis, ETAP | | | |
| 9:00 | Opening Keynote: Farrokh Shokooh, ETAP CEO | | | |
| | Guest Speaker: Steve Wozniak, Apple Co-founder | | | |
| | Hear this powerful, intriguing session and galvanize your thinking towards the next logical step in technology, and the role of smarter power systems in the digital transformation of industry. | | | |
| 10:30 | Break / Technology Exhibition | | | |
| | Collaborative Engineering Using Smart Management Tools Presentations & Panel Discussions | | | |
| | Panelists: Hala Ballouz, EPE Consulting Sohrab Jalili, KSG Consulting Giovanni Parra, Fluor Fei Gao, ETAP | | | |
| | Moderator: John Francis, ETAP | | | |
| 11:30 | How to shorten a power study from months to weeks? How to conduct system studies while considering other ongoing modifications and future upgrade projects? Discover how ETAP NetPM™ Network Project Modeling & Management and etapAPP™ Field Data Collections & Model Synchronization tools are creating seismic shifts in efficient project execution, allowing for parallel modeling and studies to | | | |
| | drastically shorten project delivery timeframe from months to weeks. | | | |
| 1:00 | Lunch / Technology Exhibition | | | |
| | Leveraging Situational & Operational Awareness to Achieve Real ROI Presentations & Panel Discussions | | | |
| | Panelists: Praveen Goyal, NPCL R C Agarwala, NPCL Tom Eyford, Oracle Geir Nordvik, Unitech Shervin Shokooh, ETAP | | | |
| | Moderator: Hugo Castro, ETAP | | | |
| 2:00 | Join our panelists and speakers on their journey towards intelligent situational awareness through transforming information to actionable decisions to achieve real return on investment. Linking data and analytics across organizational boundaries via model-driven power system analysis & real-time predictive operation solution to achieve fast, proactive decision-making. | | | |
| | We will examine how model-driven approach and process helps engineers and operators increase their understanding of systems in a cost-effective and repeatable environment by offering Situational Intelligent & Operational Awareness to predict system behavior in response to actions and events while proactively recommending and implementing decisions to improve design and operations. | | | |
| 4:00 | Technology Exhibition | | | |
| 5:30 | etap | | | |
| | Dinner & Entertainment | | | |

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| Ti | Solution Sessions | | |
|-------|--|--|--|
| Time | Wednesday, April 10 | | |
| 8:00 | Breakfast / Technology Exhibition | | |
| | Industrial Systems | MicroGrid, Transportation Systems | |
| | IEEE 3002.2 & 3002.3 Standards | MicroGrid Control | |
| | Recommended Practice for Conducting | Deeper Insights, Faster Decisions, Real-Time Actions | |
| | Load Flow & Short Circuit Studies and Analysis of | Fabian Uriarte, ETAP Mohammad Zadeh, ETAP | |
| | Industrial and Commercial Power Systems | rabian orialte, ETAP - Monaninau Zauen, ETAP | |
| | Farrokh Shokooh, ETAP Albert Marroquin, ETAP Jun Qiu, ETAP | Best practice in a systematic process for designing, testing | |
| 9:00 | rarrotti oriotoon, 2771 Yusor marroquin, 2771 Gun Qia, 2771 | and deploying a microgrid controller with analytical insights to | |
| | Presentation of the new IEEE 3002™ Dot Standards (formerly | improve decision-making. Leverage distributed energy | |
| | IEEE Brown Book) covering specific recommendations for | resources (DER) including solar, wind and energy storage | |
| | conducting power system studies and analysis. | systems for optimal system operation with ETAP µGrid™. | |
| | • 3002.2 - Load Flow | | |
| | 3002.3 - Short Circuit | | |
| 10:30 | Break / Techno | ology Exhibition | |
| | IEEE 3002.7 & 3002.8 Standards | Geospatial Network Modeling | |
| | Recommended Practice for Conducting | Distribution Power Network Connectivity Model | |
| | Motor Starting & Harmonic Studies and Analysis of Industrial | | |
| | and Commercial Power Systems | Victor Andrade, ETAP | |
| | JJ Dai, Eaton Tanuj Khandelwal, ETAP Yoshihide Hase, Eltechs | A naturally compositivity model is the most crucial step towards | |
| 11:00 | 33 Dai, Laton Tanaj Khandelwai, LTAF ToShinide Hase, Effectis | A network connectivity model is the most crucial step towards situational awareness and situational intelligence. View the | |
| | The focus of this presentation is for conducting Motor Starting | latest techniques incorporated in ETAP that are making the | |
| | and Harmonics studies and analysis based on the latest | process automated for model development and maintenance. | |
| | software technologies. | process automated for model development and maintenance. | |
| | 3002.7 - Motor Starting | | |
| | • 3002.8 - Harmonics | | |
| 12:30 | | ology Exhibition | |
| | Load Shedding for Industrial Facilities | Railway Traction & Airport Power Systems | |
| | Economic Benefits of Faster-Than-Real-Time System | From railways to the highways in the skies | |
| | Hugo Castro, ETAP Ronal Mezquita, Lafarge Holcim | Tanuj Khandelwal, ETAP Aleksei Korolev, ETAP Systems | |
| | riugo Castro, ETAF Konar mezquita, Lararge Holcilli | | |
| | ETAP ILS™ Intelligent Load Shedding solution continuously | Vladimir Loginov, MIIT | |
| 1:30 | predicts and simultaneously responds to system disturbances | Gain better understanding of the challenges and | |
| | as they happen. Case studies will demonstrate the realized | corresponding ETAP solutions offered to airports and railways | |
| | savings of implementing model-based load shedding | systems. Case studies will cover the practical application and | |
| | technology for mid-to-large industrial facilities including: | benefits of eTraX™ Railway Traction Power as well as | |
| | mining, data centers, manufacturing, oil & gas offshore / | solutions used for design and operation of airport facilities. | |
| | onshore installations. | 23.2.276 acca for accign and operation of anyor facilities. | |
| 3:00 | Break / Technology Exhibition | | |
| | Ground Grid & Electric Shock Protection | eProtect™ | |
| | Fast, accurate design & analysis of earthing mat | Relay Protection & Asset Management System | |
| | Haijun Liu, ETAP | Derek Dean, ETAP Mohammad Zadeh, ETAP | |
| | | 20.00.2000, 2170 mondimined Eddon, 2170 | |
| | Practical solutions on effective design and analysis of ground | A behind-the-scenes preview of the Enterprise Asset and | |
| 3:30 | grid configuration and electric shock protection for high and | Protective Relay Settings Management Solution with | |
| | low voltage electrical installations. | integrated Advanced Fault Analysis System (AFAS™). | |
| | Optimal construction and sizing of rods & conductors | | |
| | IEEE 80 & IEEE 81 Standards | | |
| | Finite Element Method | | |
| | Ground resistivity calculator from field measurements | | |
| | Step & touch potentials & electric shock requirements | | |
| 5:00 | | | |