Poster Titles are listed below for the 2017 DistribuTECH Student Poster Session.
The name highlighted in blue is the student presenter and their email address is included.

Markets and Cyber Security

1. **An Io T-based Market Framework for Demand Response in Smart Grids**
   Mahdi Motalleb, Matsu Thornton, Holm Smidt, Reza Ghorbani – University of Hawaii at Manoa
   Contact: motalleb@hawaii.edu

2. **Towards Resilient, Cyber-Enabled Electric Energy and Water Infrastructures: Combined Time-Domain Simulations Utilizing Network Optimization and Control**
   Scott Zuloaga, Puneet Khatavkar, Beibei Liu, Dr. Vijay Vittal, Dr. Junshan Zhang, Dr. Larry Mays - Arizona State University
   Contact: szuloaga@asu.edu

3. **Resilient Power System Restoration Using Network Science Approach**
   Prabin Baidya, Wei Sun – University of Central Florida
   Contact: prabin.baidya@knights.ucf.edu

Microgrids

4. **The Value of Reliability for Microgrids**
   Ryan Hanna, David Victor, Vahid Raousli Disfani, Jan Kleissl,– University of California, San Diego
   Contact: rehanna@eng.ucsd.edu

5. **Development of Residential Microgrid in Matlab Simulink**
   Allison Cameron, Dr. Darshit Shah, Dr. Anitha Subburaj – West Texas A&M University
   Contact: a0471162@amarillocollege.com

6. **An Integrated PV/Battery for EV Charging in a Microgrid Topology**
   Laura Novoa, Jack Brouwer, Scott Samuelsen – University of California, Irvine
   Contact: ldn@apep.uci.edu

7. **Real-time Simulation of a Utility Microgrid**
   Katelyn Riehl, Matt Backes, Prosper Panupabi, Hao Liu – University of Illinois, Urbana-Champaign
   Contact: riehl2@illinois.edu, mbackes2@illinois.edu

8. **Developing a Microgrid Ontology for Cyber Security Assessment**
   Matt Backes[1], Ken Keefe[1], Al Valdes[2] – University of Illinois, Urbana-Champaign, 2) Information Trust Institute
   Contact: *mbackes2@illinois.edu*

Distributed Automation and Distribution Modeling

9. **Optimization-based Residential Load Scheduling to Improve Reliability in the Distribution Grid**
   Abdulelah H. Habib, Elizabeth L Ratnam, Vahid R. Disfani, Jan Kleissl, Raymond A. de Callafon – University of California, San Diego
   Contact: ahhabib@eng.ucsd.edu

10. **Distribution System Model Segmentation and Simplification**
    Andrew Reiman, Dr. Thomas McDermott, Dr. Gregory Reed, Dr. Murat Akcakaya – University of Pittsburgh
    Contact: apr28@pitt.edu

11. **OpenDSS Model for Analysis of Photovoltaic Inverter Transients**
    Santino Graziani, Laura Wieserman, Dr. Thomas McDermott, Dr. Zhi-Hong Mao – University of Pittsburgh
    Contact: sfg10@pitt.edu

12. **Power Distribution System Equipment Failure Identification Using Machine Learning Algorithms**
    Milad Doostan, Dr. Badrul Chowdhury – University of North Carolina, Charlotte
    Contact: mdoostan@uncc.edu

13. **Smart Enterprise Energy Management System Under Real-Time Pricing and Demand Response**
    Juan Ospina[1], Alvi Newaj[1], Omar Faruque[1], Rick Meeker[2], Emmanuel Collins[1], Griffin Francis[1], Nikhil Gupta[1] – 1) Florida State University, 2) Nhu Energy
    Contact: jjospina@fsu.edu

14. **Analysis of Conservation Voltage Reduction by Var Injection of a Utility, Distribution Feeder in OpenDSS**
    Crystal Eppinger – Portland State University
    Contact: crystal.eppinger@gmail.com

15. **State Estimation for Electric Power Distribution Systems Using AMI Data**
    Yuanqi Gao, Nanpeng Yu – University of California, Riverside
    Contact: ygao024@ucr.edu

16. **Dynamic modeling of Distribution Network Systems with Distribution Generator Inverters**
    Ramakrishnan Venkatraman – Iowa State University
    Contact: rvenkat@iastate.edu

17. **Current Sensing with GMR Sensors**
    Jonathan Hammer, Yusuf Ozturk, PhD, Sridhar Seshagiri, PhD, Xiaobai Liu, PhD– San Diego State University
    Contact: jhammer619@gmail.com

18. **An Adaptive Restorative Method for Resilient Power Distribution Networks**
    Ranadhir Sarkar, Azwirman Gusrialdi, Dr. Zhihua Qu – University of Central Florida
    Contact: ranadhir.sarkar@knights.ucf.edu

19. **Consideration of 2-150 kHz Disturbances in North American Power Systems**
    Elizabeth Devore, Auburn University
    Contact: ead0012@tigermail.auburn.edu

Power System Engineering

20. **Using Design Based Projects to Help Engineering Students Learn Professionalism**
    Tim Gulzow – Portland State University
    Contact: tgulzow@gmail.com

21. **LMP Decomposition with Three-Phase DCOPF for Distribution System**
    Wei Wang, Nanpeng Yu – University of California, Riverside
    Contact: wwang031@ucr.edu

22. **Microgrid Protection Student Laboratory: Fault Detection**
    Ian Hellman-Wylie, Joey Navarro – California Polytechnic State University, San Luis Obispo
    Contact: ihellman@calpoly.edu, jnavar22@calpoly.edu

23. **Microgrid Protection Student Laboratory: System Integration**
    Kenan Pretzer - California Polytechnic State University, San Luis Obispo
    Contact: kpretzer@calpoly.edu

24. **Lab-Scale Circuit Breaker Module for Power System Laboratories**
    Allen Scozzari, Amanda Barley, Joshua Chung - California Polytechnic State University, San Luis Obispo
    Contact: ascozzar@calpoly.edu

25. **Separatrix analysis of a synchronous machine**
    Aristotle Boyd-Martin, Peter Sauer – University of Illinois, Urbana-Champaign
    Contact: arisboydmartin1994@gmail.com

26. **Multi-phase Distribution Feeder Reduction**
    Zachary Pecenak[1], Vahid Disfani[1], Matthew J. Reno[2], Jan Kleissl[1] – 1) University of California, San Diego, 2) Sandia National Laboratory

Contact: pecenak21@gmail.com

Smart Inverters & Power Electronics

27. **Smart inverter voltage control on distribution feeders**
    Zachary Pecenak, Jan Kleissl, Vahid R. Disfani – University of California, San Diego
    Contact: pecenak21@gmail.com

28. **On Smart Functionalities of Decentralized Grid-tied Solar PV Inverter Systems**
    Hamidreza Jafarian, Dr. Babak Parkhideh – University of North Carolina, Charlotte
    Contact: hjafaria@uncc.edu

29. **Multi-Port Power Electronics Interface for Grid-less Rural Applications**
    Jingchen Liang, Dr. Babak Fahimi – University of Texas, Dallas
    Contact: jxl146930@utdallas.edu

30. **Real-Time Adaptive and Autonomous Volt/Var Smart Inverter Control with high PV penetration**
    Ankit Singhal[1], V. Ajjarapu[1], Jason Fuller[2], Jacob Hansen[2] – 1) Iowa State University, 2) Pacific Northwest Natl Lab
    Contact: ankit@iastate.edu

Renewables Generation & Integration

31. **Risk-Based Dynamic Security Assessment in the Future Electricity Grid**
    Sohom Datta, Dr. Vijay Vittal – Arizona State University
    Contact: sohom.datta@asu.edu

32. **Optimal On-Load Tap Changer Control for Higher PV Hosting Capacity of Distribution Feeders**
    Changfu Li[1], Elizabeth L. Ratnam[2], Jan Kleissl[1], Vahid R. Disfani[1], William Torre[1] – 1)University of California, San Diego, 2) University of California, Berkley
    Contact: chl447@eng.ucsd.edu

33. **Mitigating Impacts of Intermittent Renewable Distributed Generation Using Network Reconfiguration**
    Masoud Davoudi Ghiafeh[1], Dr. Valentina Cecchi[1], Dr. Julio Romero Agüero [2] – 1)University of North Carolina, Charlotte, 2)Quanta Technology
    Contact: mghiafeh@uncc.edu

34. **Hardware in the Loop Simulation of a Photovoltaic Generator using a Texas Instrument Platform**
    Sergio Alzate, Edna Rivera, Natalie Rivera, Luis Torres, Dr. Fabio Andrade – University of Puerto Rico, Mayaguez
    Contact: sergio.alzate@upr.edu, edna.rivera@upr.edu

35. **Sensor less Real-time active power control of PV systems**
    Shilpa Marti, Turgay Duman, H. Krishnaswami – University of Texas, San Antonio
    Contact: Shilpa.Marti@utsa.edu

36. **PV-Powered Cart Suitable for Educational Purposes**
    Carolyn Majane, Anina Mu, Maimouna Niang, Morteza Rezaee, Ronald G. Harley – Georgia Institute of Technology
    Contact: c.r.majane@gatech.edu, aninamu@gatech.edu, mrezaee@gatech.edu

37. **Distributed Monitoring and Control of PV Generation**
    Briana Luckey, Jerrod Wigmore, Dr. Andrea Benigni, Yan Chen – University of South Carolina
    Contact: luckeyb@email.sc.edu, jwigmore@email.sc.edu

DER Control & Smart Home

38. **Using the AllJoyn® Framework for Smart Grid-Based Applications**
    Anne Clarke – Portland State University
    Contact: anclarke@pdx.edu

39. **Distributed Control of a Swarm of Buildings Connected to a Smart Grid**
Baris Aksanli, Alper S. Akyurek, Madhur Behl, Meghan Clark, Alexandre Donze, Prabal Dutta, Patrick Lazik, Mehdi Maasoumy, Rahul Mangharam, Truong X. Nghiem, Vasumathi Raman, Anthony Rowe, Alberto Sangiovanni-Vincetelli, Sanjit Seshia, Tajana Rosing, Jagannathan Venkatesh – University of California, San Diego
Contact: aakyurek@eng.ucsd.edu

40. **A Computational Modeling Approach of User Behavior for Swarm Control Applications**
Dhanesh Pradhan – University of California, San Diego
Contact: dpradhan@eng.ucsd.edu

41. **Residential Energy Simulation and Context-Aware Automation**
Christine Chan – University of California, San Diego
Contact: csc019@eng.ucsd.edu

42. **A Context-Driven IoT Middleware Architecture For Residential Energy Management**
Bekhzod Soliev[1], Nima Mousavi[1], Jagannathan Venkatesh[1], Christine Chan[1], Alper Sinan Akyürek[1], Baris Aksanli[2], Tajana Šimunić Rosing[1] – 1) University of California, 2) San Diego State University
Contact: bsoliev@eng.ucsd.edu

43. **Context Engine for the Indoor Swarm**
Nima Mousavi, Christine Chan, Jagannathan Venkatesh, Dhanesh Pradhan, Ivan Huang, Michael Ostertag, Tajana Šimunić Rosing - University of California
Contact: jvenkate@eng.ucsd.edu

44. **How do we Plan Electric Power Grid with Centralized and Distributed Generation?**
Shikha Sharma, James D. McCalley, Ian Dobson – Iowa State University
Contact: ssharma@iastate.edu

45. **Reduced-Order Modeling of Distributed Energy Resources (DERs) in a Microgrid—Grid Feeding Inverter**
Olaolu Ajala, Alejandro Dominguez-Garcia, Peter Sauer – University of Illinois, Urbana-Champaign
Contact: ooajala2@illinois.edu

Energy Storage and Electric Vehicles

46. **High Efficiency Wireless Charging System for Electric Vehicles**
Devendra R. Patil, Dr. Babak Fahimi – University of Texas, Dallas
Contact: drp140230@utdallas.edu

47. **Multi-Port Power Electronics Interface for Electrified Vehicles and Intelligent Buildings**
Lizon Maharjan, Dr. Babak Fahimi – University of Texas, Dallas
Contact: lxm125130@utdallas.edu

48. **Inverter Exporting Power From a Solar-Powered Battery Charging Station**
Vanu Kapoor, Jordan Burrows, Dean Philip, Michael Mitchell – University of South Carolina
Contact: vkapoor@email.sc.edu

49. **Grid-Tied DC Microgrid for PV Recharging of Electric Scooters**
Andrew Wunderlich, Tyler Hamby, Harold McGill, James Walkup, Patrick Ford – University of South Carolina
Contact: andreww@email.sc.edu

50. **Algorithm for Battery Storage Siting and Sizing on Distribution Feeders**
Oytun Babacan, William Torre, Jan Kleissl – University of California, San Diego
Contact: obabacan@ucsd.edu

51. **Utility Owned Residential Battery Energy Storage Systems for Ancillary Services**
Tylor Slay – Portland State University
Contact: tylor.slay@gmail.com

52. **Fuel Cells as Transmission Integrated Grid Energy Resources**
Brendan Shaffer, Kate Forrest, Brian Tarroja, Scott Samuelsen – University of California, Irvine
Contact: bps@apep.uci.edu