



Region 4

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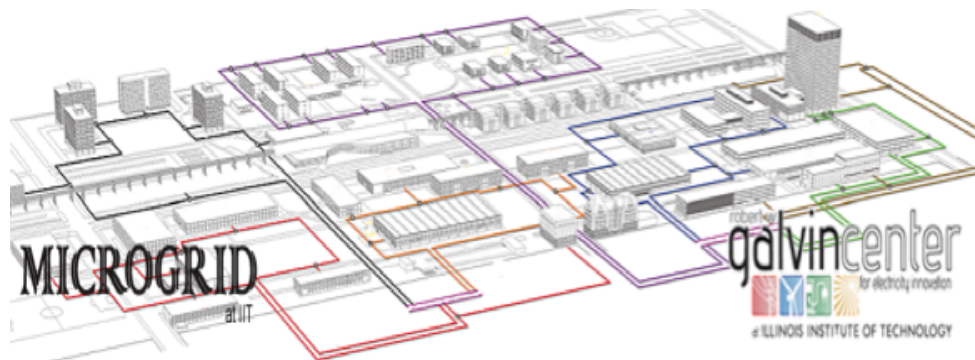


2016 IEEE Region 4 Workshop on Smart Grid and Microgrid Technologies

Thursday, August 18, 2016

Galvin Center for Electricity Innovation

Illinois Institute of Technology - Chicago , IL



Students: \$40

General: \$80

Includes luncheon and coffee breaks

This event is sold out, walk-ins will not be accepted

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This workshop is structured to consider microgrid solutions within the framework of the smart grid. In the morning the theme will be smart grid technologies, among them communications networks for smart grid implementations, wireless sensors, controls, switches, and database management. A panel will explore smart grid solutions that bring these technologies and solutions together.

In the afternoon the workshop will introduce tools for microgrid implementation. The focus will be on applications of the Distributed Energy Resources Customer Adoption Model (DER-CAM), a tool for the optimization of microgrid assets. Examples will be given from feasibility studies for New York Prize projects and IITOs Microgrid Expansion Planning Study. A major workshop activity will be the application of the DER-CAM model and practical training on its use for community leaders as well as technical experts

The program will conclude with a tour of the IIT Microgrid, one of the first and most successful deployments of microgrid and distributed energy resources in the U.S.

Sponsors



ILLINOIS INSTITUTE OF TECHNOLOGY

IEEE-USA is an organizational unit of the Institute of Electrical and Electronics Engineers, Inc. created in 1973 to support the career and public policy interests of IEEE's U.S. members.	
Smart Grid North West NW Demand Response Symposium SEPTEMBER 28, 2016, 8AM - 5PM PACIFIC TOWER, SEATTLE, WASHINGTON	

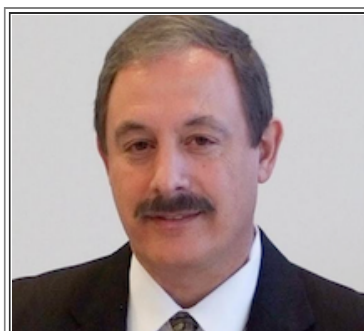
Workshop Agenda

Time	Topic	Leader
8:45-9:00	Welcome and Introduction to the Workshop	Bernie Sander, IEEE Region 4 Director-Elect and Conference Chair
9:00-9:30	Introduction to Smart Grid and Microgrids	Jianhui Wang, Argonne Nat. Lab.
9:30-10:00	Microgrid Operation and Control Solutions	Wanda Reder, S&C Electric
10:00-10:30	OSIsoft Solutions for Sensor-based Smart Grid Database Management	Charles Wells, OSIsoft Mike Mihuc, OSIsoft
10:30-10:45	Coffee Break	
10:45-11:15	Silver Spring Communication Networks for Smart Grid Implementations	Nipesh Patel Silver Spring Networks
11:15-12:00	Panel Discussion on Smart Grid and Microgrids (DOE, IEEE, Argonne, IIT, Willdan, S&C, OSIsoft, Silver Spring Network)	Jim Reilly Reilly Associates
12:00-13:00	Working Lunch	
13:00-13:15	Introduction to DER-CAM	Michael Stadler Lawrence Berkeley National Laboratory
13:15-13:45	Applying DER-CAM to IIT's Microgrid Planning Studies	Zuyi Li, Illinois Tech Chen Chen, Argonne National Laboratory
13:45-14:15	New York Prize Microgrids	Mehdi Ganji, Willdan Energy Patrick Burgess, Willdan Energy
14:15-14:30	Coffee Break	
14:30-15:30	Training Workshop: Applying DER-CAM	Salman Mashayekh, Lawrence Berkeley National Laboratory
15:30-16:00	Discussions on DER-CAM Usability Stakeholder Feedback	All Participants

16:00-17:00	IIT Microgrid Tour	Mohammad Shahidehpour, Illinois Institute of Tech.
17:00	Adjourn	

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Workshop Presenters



Dr. Mohammad Shahidehpour

Chairman, Electrical and Computer Engineering
Department, Illinois Institute of Technology

<https://engineering.iit.edu/faculty/mohammad-shahidehpour>

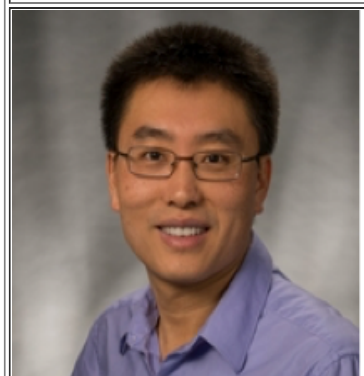


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Wanda Reder

Chief Strategy Officer, S&C Electric Company

<http://www.sandc.com/default.asp>



Dr. Jianhui Wang

Computational Engineer Energy Systems

<http://www.anl.gov/contributors/jianhui-wang>



Dr. Charles Wells

Industry Principal OSIsoft, LLC

<http://www.osisoft.com>



Mike Mihuc
Account Manager OSIsoft, LLC
<http://www.osisoft.com>



Nipesh Patel
Engagement Manager at SILVER SPRING NETWORKS INC
<http://www.silverspringnet.com>



Reilly Associates
Jim Reilly
Chief Executive Officer at Metropolitan Pier and Exposition Authority (MEPA)
<http://www.reillyconsultingcorp.com>



Dr. Michael Stadler
Staff Scientist at Lawrence Berkeley National Laboratory
<http://www.lbl.gov>



Dr. Mehdi Ganji
Adjunct Professor at Illinois Institute of Technology
<http://www.willdan.com/energy/>

**Dr. Zuyi Li**

Professor of Electrical and Computer Engineering,
Associate Director of the Robert W. Galvin Center for
Electricity Innovation

<https://engineering.iit.edu/faculty/zuyi-li>

**Dr. Chen Chen**

Computational Engineer

<http://www.anl.gov>

**Dr. Salman Mashayekh**

Grid Integration Group, Lawrence Berkeley National
Laboratory

<http://eetd.lbl.gov/people/salman-mashayekh>

**Patrick Burgess**

Willdan Energy

<http://www.willdan.com/energy/>

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Workshop Committee

Conference Chair and Region 4 Director-Elect Bernie Sander

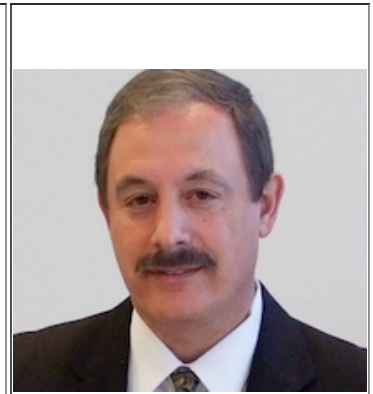
Dr. Bernard (Bernie) Sander is retired from Bell Laboratories and Lucent Technologies. He has EE degrees from St. Louis University (BS), California Institute of

Technology (MS) and Washington University in St. Louis (DSc). Bernie has held several technical and management positions with Bell Labs/Lucent, including hardware and software development in wire-line and CDMA switching, systems engineering and project management. Bernie has consulted at Northwestern and Marquette Universities in the design and construction of equipment used for research in human movement studies.



Technical Activity Chair Dr. Mohammad Shahidehpour

Carl Bodine Distinguished Professor and Chairman in the Electrical and Computer Engineering Department at Illinois Institute of Technology. He is the author of more than 300 technical papers and five books on electric power systems planning, operation, and control. He is an IEEE Fellow and is currently the Vice President of Publication for IEEE/PES and also Editor in Chief of the IEEE Transactions on Smart Grid. He is an IEEE Distinguished Lecturer, an Honorary Professor at North China Electric Power University in China and Sharif University of Technology in Iran. Recently, Dr. Shahidehpour was elected to the National Academy of Engineers (NAE) in 2016 and was honored with the 2016 IEEE Douglas M. Staszkesky Distribution Automation Award.



Program Chair Jay Prigmore

Jay Prigmore (MÖ2007) received his bachelor's degree in electrical engineering from Lamar University. He received his M.S. degree and Ph.D. degree in electrical engineering from Arizona State University. Dr. Prigmore presently works at Exponent Inc. as a Senior Engineer. He is a registered professional engineering in the state of Illinois. He is a member of IEEE and a member of the Power and Energy Society, the Power Electronics Society, Industrial Applications Society and the Magnetics Society. He is a member of Sigma Xi, Eta Kappa Nu and Tau Beta Pi. He is the chair for the IEEE IAS Executive Subcommittee for Early Career Professionals.



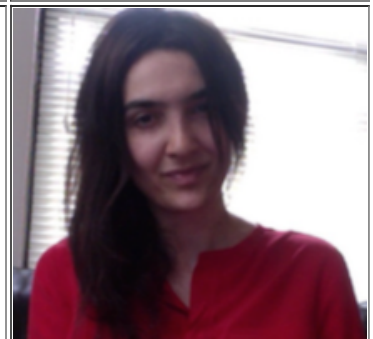
Region 4 Special Projects Coordinator Vickie Peters

Vickie is employed as a consultant at a leading healthcare corporation where she specializes in IT Project management and clinical implementations and is the lead consultant for one of their largest clients. She has held several technical, management and lead analytical positions with the Office of the Honorary Counsel General, Motorola, Blue Cross/BlueShield, BearingPoint, and the Chicago Board of Education among other clients. Vickie studied at Youngstown State University for a Bachelor of Science in Chemistry and earned degrees from University of Phoenix, AZ (BSIT & MIS) and completed PhD studies in Information Systems (Capella University).



Team Lead and Marketing Amy Levine

Amy Levine started her career as a consultant for small and medium corporations in the Chicagoland area and helped take businesses to the next level. In 2013 she decided to follow her passion for technology and go back to school. She is currently studying Computer Science and Electrical Engineering as a dual major at the University of Illinois-Chicago Campus. Amy is a proud member of IEEE.



Registration Chair Banumathi Ramaiah

Banumathi Ramaiah is a graduate student majoring in Data Science at DePaul University. She worked at IBM for two to three years as a Microsoft Developer. She is currently working on a project that will enable organizations to learn from user profiles and provide personalized recommendations for items in any given domain. Her affiliation with IEEE is in the capacity of Student Member since August 2015.

**Registration Chair Lasya Ramesh**

Lasya Ramesh is currently an Intern at Medline Industries, pursuing a Masters in Computer Science at Illinois Tech. She is a former employee of IBM with 2.5 years of experience in ETL and JAVA Development. Lasya is also an active student member of IEEE.

**Moderator & Logistics Chair Shardul Arun Padaki**

Shardul Arun Padaki An aviation enthusiast, earned his Bachelor's degree in Electronics and Communication in 2013. He is currently pursuing his Master's in Software Engineering at DePaul University. Shardul has been an active student member of IEEE Chicago Section since August 2015. He Previously worked for Infosys and Future Business Tech as a Test Engineer.

**Volunteer at Large Hemang Dhamija**

Hemang is a Controls Engineer at Intelligrated. He received his BS and MS in Electrical Engineering from the University of Utah. His professional experience includes electrical design, programming industrial controls, and implementation for material handling projects across the US. He joined IEEE as a student member when he attended the university. Hemang now serves as secretary for the IEEE Chicago Section Executive Committee.

**Team Co-Lead Dan Joseph Cruz San Buenaventura**

Dan graduated from Concordia University with a Bachelor of Art in Computer Information Systems. His latest project design included implementation of an IEEE student website for Concordia when he was enrolled in a Robotics Development class and a database system for the university. Dan is a proud student member of IEEE and is actively engaged on a few high profile IEEE projects.



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