

Keynote Speakers: NPSC 2016



Professor Saifur Rahman (PES President Elect: 2016-17) is the founding director of the Advanced Research Institute (www.ari.vt.edu) at Virginia Tech where he is the Joseph R. Loring professor of electrical and computer engineering. He also directs the Center for Energy and the Global Environment (www.ceage.vt.edu). He is a Fellow of the IEEE and an IEEE Millennium Medal winner. He is the founding editor-in-chief of the IEEE Electrification Magazine. He was also the founding editor-in-chief of IEEE Transactions on Sustainable Energy. He served as a vice president of the IEEE Power and Energy Society (PES) from 2009 to 2013 and currently serving as a member of the Board of Governors of the IEEE Society on Social Implications of Technology. In 2006 he served on the IEEE Board of Directors as the vice president for publications. He served as the chair of the US National Science Foundation Advisory Committee for International Science and Engineering from 2010 to 2013. He is a Distinguished Lecturer for the IEEE PES, and has lectured on smart grid, energy efficiency, renewable energy, demand response, distributed generation and critical infrastructure protection topics in over 30 countries on all six continents.



Prof Chanan Singh is a current Regents Professor and Irma Runyon Chair Professor in the Department of Electrical and Computer Engineering, Texas A&M University, College Station, Texas, USA. From 1995 to 1996, he served as the Director of Power Program at the National Science Foundation, USA and from 1997 to 2005, he served as the Head of the Electrical and Computer Engineering Department at Texas A&M University. His research and consulting interests are in the application of probabilistic methods to power systems. He has authored/co-authored over 300 technical papers and three books and has contributed to several books. He has consulted with many major corporations and given short courses nationally and internationally. Dr. Singh is a Fellow of the IEEE and the recipient of the 1998 Outstanding Power Engineering Educator Award given by the IEEE Power Engineering Society. For his research contributions, he was awarded a D.Sc. degree by the University of Saskatchewan, Saskatoon, SK, Canada, in 1997. In 2008, he was recognized with the Merit Award by the PMAIS International Society. In 2010, he was the inaugural recipient of the Roy Billinton Power System Reliability Award given by the IEEE Power Engineering Society.



Prof Venkataramana Ajarapu received the Ph.D. degree in electrical engineering from the University of Waterloo, Waterloo, ON, Canada, in 1986. Currently, he is a Professor in the Department of Electrical and Computer Engineering at Iowa State University, Ames. His research is in the area of reactive power planning, voltage stability analysis, and renewable integration.

He is a fellow of IEEE



Prof Anil Pahwa is Logan-Fetterhoof Endowed Chair Professor of Electrical and Computer Engineering at Kansas State University and a Fellow of the Institute for Electronics and Electrical Engineering (IEEE). He received PhD from Texas A&M University in 1983, MS from University of Maine in 1979, and BE (Honors) from BITS-Pilani, India in 1975, all in electrical engineering. He served as Department Head of Electrical and Computer Engineering at Kansas State University from 2004 to 2007. Dr. Pahwa has served as officer in several IEEE Power and Energy Society committees over the past 20 years. He was Chair of Power and Energy Education Committee in 2012 and 2013, and presently he is an Editor of IEEE Transactions on Power Systems. Dr.

Pahwa received the Staszeky Distribution Automation Award in 2012 and Prize Paper Award in 2013 from IEEE PES. He received Erickson Public Service Award in 2011 and Frankenhoff Outstanding Research Award in 2012 from the College of Engineering of Kansas State University. His research and teaching interests include smart grid, distribution system planning, intelligent computational methods for power systems, renewable energy, and sustainability. Dr. Pahwa has worked on several research projects sponsored by the utilities in Kansas, the National Science Foundation, and the Department of Energy. His research on power and energy has taken him to several countries including Australia, Nigeria, Kenya, South Africa, Cape Verde, and Turkey. As a faculty adviser for the student chapter of Engineers Without Borders, he has guided students on projects in India, Guatemala, and Ecuador. From 2007 to 2011, Dr. Pahwa served as the electrical engineering coordinator for a World Bank-funded project to strengthen higher education in Afghanistan. In 2007, he spent approximately three weeks at Kabul University to prepare a new curriculum, and mentor faculty and students.



Prof Aniruddha Gole is a Professor of Electrical and Computer Engineering at the [University of Manitoba](#), Winnipeg, Canada. Since 1992, he is also the [NSERC](#) Industrial Research Chair in Power Systems Simulation.^[1] He received the B.Tech. degree from the Indian Institute of Technology (Bombay), and M.Sc. and Ph.D. degrees from the University of Manitoba (Winnipeg, Canada), all in Electrical Engineering. He is an internationally recognized expert in the field of power systems simulation. Gole's research interests include the utility applications of power electronics and power systems transient simulation. As an original member of the design team, he has made important contributions to the PSCAD/EMTDC simulation program. Gole is active on several working groups of CIGRE and IEEE and is a Registered Professional Engineer in the Province of Manitoba.

In 2007, the IEEE Power Engineering Society awarded Gole the prestigious Nari Hingorani FACTS Award "*..for Contributions to the Education in the Field of Power Systems and Embedded Power Electronics Apparatus Simulation*".^[2] He was elected a Fellow of [IEEE](#) in 2010 "for contributions to the modeling of power electronics apparatus



Dr Ram Adapa (S'82-M'85-SM'90-F'12) received the B.S. degree from Jawaharlal Nehru Technological University, India, the M.S. degree from IIT Kanpur, India, and the Ph.D. degree from the University of Waterloo, ON, Canada, all in electrical engineering. He is a Technical Executive in the transmission and substations area with the Power Delivery and Utilization Sector. His research activities focus on high voltage direct current (HVdc) transmission, flexible ac transmission systems, fault current limiters, dynamic circuit ratings to increase transmission capacity, and transmission system reliability performance metrics.

He joined EPRI in 1989 as a Project Manager in the Power System Planning and Operations program. Later, he became Product Line Leader for Transmission, Substations, and Grid Operations, where he developed the research portfolio and business execution plans for the grid operations and planning areas, a portfolio that focused on the needs of a deregulated utility environment. Some of the tools in this portfolio included market restructuring, transmission pricing, ancillary services, and security tools to maintain the reliability of the grid. Before joining EPRI, he was with the Systems Engineering Department, Cooper Power Systems as a Staff Engineer.

He has been honored several times by the IEEE for his outstanding contributions to the profession. He has authored or co-authored over 125 technical papers and is an IEEE Distinguished Lecturer. He is an Individual Member of CIGRE, a Technical Advisor of IEC

TC115-HVdc Transmission Standards Development, and a Registered Professional Engineer.



Dr Ratan Das is the founder of icaPower, which serves customers in power system protection, automation and control. Ratan is the chair of the IEEE PSRC WG K15 on Centralized Substation Protection and Control. Ratan received his B.E.E. (Hons.) degree from Jadavpur University, Kolkata, India, and M.Sc. and Ph.D. degrees in Electrical Engineering from the University of Saskatchewan, Canada. He has worked in power system protection, automation and control for 29 years: with NTPC Ltd., India, for 11 years, and with ABB Inc., USA, for 18 years. Ratan holds four patents and has contributed to over 30 publications.



Dr Anurag K. Srivastava is working as an Associate Professor of electric power engineering and Director of Smart Grid Demonstration and Research Investigation Lab (SGDRIL) within Energy System Innovation Center (ESIC) at Washington State University since August 2015. He received his Ph.D. degree in Electrical Engineering from the Illinois Institute of Technology, Chicago, USA in 2005. In the past, he worked as an Assistant Professor at Washington University during 2010-2015, as an Assistant Research Professor at Mississippi State University during 2005-2010, as a Senior Research Associate at the Indian Institute of Technology, Kanpur, India and as a Research Fellow at Asian Institute of Technology, Bangkok, Thailand. His research interest includes power system operation and control using smart grid data. Dr. Srivastava is a senior member of IEEE and past-chair of IEEE PES career promotion subcommittee, chair of IEEE PES student activities and co-chair of microgrid working group within IEEE power and energy society generation and storage subcommittee. He is also past co-chair of IEEE synchrophasor conformity assessment committee and general chair of 2014 North American Power Symposium. He is the recipient of best paper award from IEEE industry application society and is working closely with number of electric power companies. Dr. Srivastava is an associate editor of the IEEE transactions on smart grid, IEEE distinguished lecturer and author of more than hundred technical publications including a book on power system security.



Shri. S. K. Soonee graduated in Electrical Engineering from Indian Institute of Technology (IIT), Kharagpur in 1977. He started his illustrious career as the Factory Incharge of Techno-Electric Company and has worked as Executive Engineer at Central Electricity Authority for a period of 16 years. He has served in Power Grid Corporation of India Ltd. at various positions starting from the Deputy General Manager, ERLDC Kolkata to the Executive Director (System Operation). Since, June 2010, he has been the CEO at Power System Operation Corporation Limited (POSOCO).

His contribution to the Indian Power Industry has been outstanding. In his more than three decades of experience, Shri. Soonee has been amongst the pioneers, responsible for setting up a national transmission grid in India. He is an industry expert and a proven leader with vast experience in Electric Power System Operation and Planning. His role in developing interstate transmission lines for interconnection of different sections of fragmented transmission networks, development of large transmission expansion projects, development of availability based tariffs (ABT) and ancillary services markets has been remarkable. He has published several research papers in refereed journals and conference proceedings in the areas of power systems operation, power market design and operation, and regulatory affairs. He is a senior member of IEEE, member of CIGRE, and a Life Fellow of Institution of Engineers (India). He is a recipient of the Distinguished Alumnus Award from IIT Kharagpur. He was awarded as the '2011 PES Chapter Outstanding Engineer' by the PES-IAS Delhi chapter. He is also the recipient of Distinction in Power Engineering Technology by Central Electricity Authority 1993 - 94, and of the Best Performance Award for 'Planning a Regional Electricity Grid in South Asia' by South Asia Regional Initiative in Energy, in 2002.