

## Advancements in Protection, Automation, Control and Communication (PACC) - Instructor Bios

**Dr. Mohindar S. Sachdev** came to Canada in 1965 and after completing graduate studies, joined the Department of Electrical Engineering at the University of Saskatchewan. He instructed undergraduate and graduate courses as well as conducted research. In recognition of the impact of his research he was awarded the degree of Doctor of Science. He chaired several Working Groups, three subcommittees and served as Standards Coordinator for the Power System Relaying committee. He coordinated the preparation and offering of three IEEE Tutorials; Computer Relaying (1979), Microprocessor Relays and Protection Systems (1988) and Advancements in Microprocessor Based Protection and Communication (1997). Received the Steinmetz Award from the IEEE Standards Association “for contributions to and leadership in the development of guides, recommended practices and standards for power system protection”.



**Dr. Ratan Das** has over 35 years of consulting, R&D and utility experience in power system protection & automation products and solutions development, and EMT studies for power system analysis. He currently focuses on EMT studies for short-circuit behavior characterization for inverter based resources, blackstart of gas turbines, insulation coordination, as well as PAC system solutions for T&D systems including microgrid. He previously worked for icaPower, ABB and NTPC. He is active professionally within IEEE, IEC and CIGRÉ. He is the chair of the IEEE PSRC WG H45 developing the “PC37.300 Guide for Centralized Protection and Control (CPC) Systems within a Substation”. He received his BEE degree from Jadavpur University, Kolkata, India and M.Sc. and PhD degrees in EE from University of Saskatchewan, Saskatoon, Canada.



**Mr. Mark Adamiak** is an independent consultant for the electric power industry. Mark started his career in the utility business with American Electric Power (AEP) and in mid-career, joined General Electric where his activities have ranged from advanced development, product planning, application engineering, and system integration in the Protection and Control industry. Mr. Adamiak is an original member of the IEC61850 WG, a Life Fellow of the IEEE, a registered Professional Engineer in the State of Ohio and a GE Edison award winner. Mark was the Principal Investigator for the EPRI IntelliGrid project to develop a reference architecture for the Smart Grid. In 2012, Mr. Adamiak was elected to the US National Academy of Engineering.



**Dr. Galina S. Antonova** is with Hitachi ABB Power Grids in North America. She has over 20 years of experience in the area of electrical engineering, data communications and time synchronization, which she has been applying to the substation automation and protective relay applications. Galina received her M. Sc. degree (1993) and a Ph.D. (1997) in Electrical Engineering and Data Communications from the State University of Telecommunications, St. Petersburg, Russia, and spent one year at University of British Columbia (UBC) on a scholarship from the Russian President. She is actively involved with IEEE PSRC, PSCC and is a Canadian member of the IEC TC57 WG10. In her spare time she enjoys ice dancing, playing piano and growing lavender.



**Dr. Alexander Apostolov** received MS degree in Electrical Engineering, MS in Applied Mathematics and Ph.D. from the Technical University in Sofia, Bulgaria. He has 45 years' experience in power systems protection, automation, control and communications. He is presently Principal Engineer for OMICRON electronics in Los Angeles, CA. He is IEEE Fellow and Member of PSRC and PSCC Committees. He is past Chairman of the Relay Communications Subcommittee and serves on many working groups. He is member of IEC TC57 working groups 10, 17, 18 and 19. He is Convener of CIGRE WG B5.69 and member of several other B5 working groups. He is Distinguished Member of CIGRE and IEEE Distinguished Lecturer. He holds four patents and has authored and presented more than 500 technical papers. He is Editor-in-Chief of PAC World.



**Dr. Sukumar Brahma** is Dominion Energy Distinguished Professor in Power Engineering and director of Clemson University Electric Power Research Association (CUEPRA) at Clemson university. He has chaired the IEEE Power and Energy Society's Education Committee, Distribution System Analysis Subcommittee, and is a member of the Power System Relaying and Control Committee (PSRCC), where he has been contributing to and leading working groups that produce reports, guides, and standards in the area of power system protection. He has been an editor and a guest editor-in-chief for IEEE Transactions on Power Delivery. Dr. Brahma is a Distinguished Lecturer and a Fellow of the IEEE.



**Mr. Dale Finney** received his Bachelor of Engineering degree from Lakehead University and his Master of Engineering degree from the University of Toronto. He began his career with Ontario Hydro, where he worked as a protection and control engineer. Currently, Mr. Finney is employed as a principal engineer with Schweitzer Engineering Laboratories, Inc. Mr. Finney holds more than 20 patents and has authored more than 40 papers in the area of power system protection. He is a member of the main committee and past chair of the rotating machinery subcommittee of the IEEE PSRC. He is a senior member of the IEEE and a registered professional engineer in the province of Nova Scotia.



**Dr. Normann Fischer** received a BSEE, with honors, from the University of Cape Town in 1993; an MSEE from the University of Idaho in 2005; and a PhD from the University of Idaho in 2014. He joined Eskom as a protection technician in 1984 and was a senior design engineer in the Eskom protection design department. He then joined IST Energy as a senior design engineer in 1996. In 1999, Normann joined Schweitzer Engineering Laboratories, Inc., where he is currently a Distinguished Engineer in the Research and Development division. He has authored and coauthored more than 70 technical papers and 10 transactions papers. He has 28 patents, related to electrical engineering and power system protection. He is a senior member of IEEE. He was a registered professional engineer in South Africa and a member of the South African Institute of Electrical Engineers.



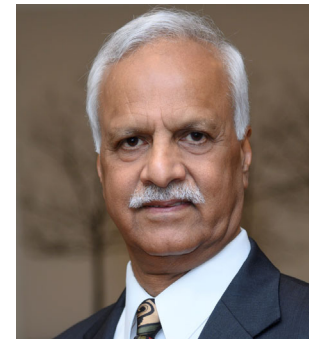
**Dr. Ramakrishna (Rama) Gokaraju** is a professor in the Department of Electrical & Computer Engineering at the University of Saskatchewan, Canada. He received his Bachelor of Engineering degree (with Distinction) in Electrical and Electronics Engineering from the National Institute of Technology, Trichy, India in April 1992. He received the M.Sc. and Ph.D. degrees in electrical and computer engineering from the University of Calgary, Canada, in 1996 and 2000, respectively. From 1999-2002 he worked with the Alberta Research Council, Canada and then later with the IBM Toronto Labs. His current research works are in high speed digital relaying, controlled islanding, impact of inverter based resources on protection, and modeling/applications of nuclear-based ("SMR") power plants



**Dr. Vahid Madani** is Executive Engineer at GridTology. Dr. Madani's experience spans across system planning, operation, protection and control. He is an industry leader for advanced solutions in T & D, and their related standards and conformance; including System Integrity Protection Schemes and wide-area disturbance monitoring, synchrophasor systems and associated cyber security. Dr. Madani has held many advisory roles to WECC, NERC and DOE for Synchrophasor systems and wide-area systems among others, with recent focus on synchronizing renewables for integrated grid. Dr. Madani is a Fellow of IEEE and IEEE Distinguished Lecturer, author of IEEE special publications, and has co-authored textbooks and reference handbooks. He is a Research Faculty and Simulation Manager at Mississippi State University, a board-certified Electrical Engineer in California, and holds multiple US and International patents.



**Mr. Pratap Mysore**, Founder- Pratap Consulting Services, has over forty years of experience in the power system industry. He has developed settings, philosophy documents and performed transient studies for Utilities and other industrial systems. He presented tutorials and papers at various relay conferences. He is a registered Professional Engineer in the State of Minnesota. Pratap is a Senior Member of IEEE and is active in developing IEEE documents as a member Power systems Relaying and Control Committee (PSRC). He served as the Chair of PSRC from 2017-2018. He is also a member of Capacitor Committee. Pratap is also associated with University of Minnesota as a researcher on IBR controls.



**Dr. Mukesh Nagpal** is a Principal Protection Engineer at BC Hydro, a Senior Member and distinguished lecturer of the IEEE-Power & Energy Society (PES), an Adjunct Professor at the University of British Columbia, a Professional Engineer in the Province of British Columbia (BC). He has published approximately 50 technical papers with notable contributions to the economic, safe and reliable integration of renewables to the electric grid. Dr. Nagpal is recipient of 2021 IEEE PES Ramakumar Family Renewable Energy Excellence Award – for protection solutions facilitating the grid integration of renewable resources. In 2016, he received the highest engineering order of BC – R.A. McLachlan Memorial Award – for exceptional leadership in developing practical ways to connect renewables to grid and to improve utility power system in the industry.



**Mr. Russell W. Patterson** received his BSEE in 1991 from Mississippi State University in Starkville, MS and his MSEE in 2013 from the University of Tennessee at Chattanooga, TN. He began his career as a field test engineer for TVA and has thirty years' experience in utility generator and transmission protection. He managed the system protection department for TVA until his retirement in 2008 to enter full time consulting. Russ owns Patterson Power Engineers (PPE), a consulting firm headquartered in Chattanooga, TN. He is past Chairman (2019-2020) of the IEEE Power System Relaying and Control Committee (PSRC) and is a member of the Rotating Machinery Subcommittee and past chair of the Line Protection Subcommittee. He is also a senior member of IEEE and a registered professional engineer.



**Dr. Arun G. Phadke** worked in the Electric Utility industry before joining Virginia Tech in 1982. He became the American Electric Power Professor of Electrical Engineering until 2000 when he was recognized as a University Distinguished Professor. Dr. Phadke was elected a Fellow of IEEE in 1980. He was elected to the National Academy of Engineering in 1993. He has been a member of the Executive Committee of the US National Committee of CIGRE and was the Chairman of their Technical Committee. In March 2008 Dr. Phadke received (with Stanley H. Horowitz) the Karapetoff award from the Honor Society HKN, and in April 2008 Dr. Phadke (with James S. Thorp) received the Benjamin Franklin Medal. In 2016 Dr. Phadke received the IEEE Power Engineering Medal.



**Dr. S. S. (Mani) Venkata** is President of Venkata Consulting Solutions Inc. He was with GE Power/Alstom Grid Inc. from January 2011 to September 2017. He continues his affiliation with the University of Washington (UW), Seattle, Washington where he has taught since 1979. Dr. Venkata is a Life Fellow of the IEEE. At the IEEE level, he served as a member of the IEEE Fellows Committee for five years. He also served on the PES Board as Vice-President, Publications PES during 2004-07. In 2016 he received the Robert M. Janowiak Outstanding Leadership and Service Award from ECEDHA. In 2015 he received the IEEE PES Douglas M. Staszkesky Distribution Automation Award. In 1996 he received the Outstanding Power Engineering Educator Award from the IEEE Power Engineering Society.



**Dr. Murty Yalla** has been with Beckwith Electric since 1989. He earned a BSEE from JNTU, Kakinada in 1981; a MSEE from IIT, Kanpur in 1983; and a Ph.D. in EE from UNB, Canada in 1987. He was president of Beckwith Electric from 2005-2020. He is the chairman (2015-2024) of the IEC TC95. He is also the chairman of the IEEE PSRC committee 2021-2022. He was a member of CIGRE working groups on protection of generators and power transformers. He was a member of the NERC SPCS. He was the chairman of IEEE C37.102-2006 "Guide for AC Generator Protection." He co-authored an IEEE PES tutorial on the "Protection of Synchronous Generators." He became an IEEE Fellow in 2006 "for contributions in computer relays for power systems. In 2021, Dr. Yalla was elected to the National Academy of Engineering (NAE) "for contributions to digital protection and control devices for the grid.

