

*The Electrical and Computer Engineering Program presents
ECEN Seminar Series*

HVDC/FACTS Devices Implementation to Resolve Underlying Power System Stalemate(s) at the GCC Power Grid

Tariq Masood (Qatar Petroleum _ Qatar)

D.P. Kothari (Raisoni Group of Institutions, Nagpur _ India)

Thursday, 11 October 2012, 8 a.m. – 12 p.m.

Lecture Hall 144

Light lunch will be served

ABSTRACT INFO:

The subject workshop encompassed of five segments to demonstrate each device operations and control versatility at its defined location. A new FACTS-FRAME control technique introduced and investigated an individual (decentralized) and integrated (centralized) control devices operations and control capacity and capability. The modeling and simulation results will be demonstrated to validate that the HVDC/FACTS devices have a great impact at different locations of the GCC power grid to improve power systems control and operations dynamics in multiple directions.

BIO #1: Tariq Masood (SM'03) received the M.Eng and Ph.D in Electrical power system engineering (FACTS/HVDC control devices) from the University of Bath, Bath, UK., his field of specialization are micro level control system engineering, operations, integration by implementing steady, dynamic and real-time precise modeling and simulation techniques. He is a Chartered Engineer and Senior Member of the IEEE-USA and Member of the IET-UK. He is also certified member of the CET International USA and registered member of the ASCET (American Society of Certified Engineers and Technicians) USA. He has also delivered numerous lectures on FACTS Technology at IEEE Qatar Section and various Universities including University of Bath, Bath, UK. He is also Lean Six-Sigma Green belt certified in modeling and simulation. He joined the Qatar Petroleum since 1997 where he is currently Production Data analyst. He is/has been on several production department technical and management committees' member. He has published 15 technical papers in IEEE Conference, Honeywell Users group and other International Conferences. He is the Secretary/Treasurer of the IEEE Qatar Section. He received several awards in recognition of his outstanding performance and dedication to improve Qatar Petroleum production operations and control presented by the MD/Chairman (Mabrouk Awards) and Director Operations (Al-Hasba Awards) of the Qatar Petroleum. He was the secretary for the GCC oil producing companies (QP-Qatar, PDO-Oman ARAMCO-Saudi Arabia, KOC-Kuwait, TATWEER-Bahrain, and ADNOC-United Arab Emirates) Production and Maintenance Technical Committee in 2008 and 2011



BIO #2: D.P. Kothari, obtained his B.E [Electrical], M.E. [Power Systems] and Doctoral Degree in Electrical Engineering from the Birla Institute of Technology & Science, Pilani. His fields of specialization are Optimal Hydro-thermal Scheduling, Unit Commitment, Maintenance Scheduling, Energy Conservation (loss minimization and voltage control), and Power Quality and Energy Systems Planning and Modeling. Prior to his assuming charge as Vice Chancellor of VIT University, he was the Professor of Centre for Energy Studies, Indian Institute of Technology, New Delhi. He also served as Director i/c, IIT, Delhi [2005], Deputy Director [Administration], IIT, Delhi [2003-06], Principal, Visvesvaraya Regional Engineering College, Nagpur [1997-98], Head, Centre for Energy Studies, IIT, Delhi [1995-97]. He was visiting professor at Royal Melbourne Institute of Technology, Melbourne, Australia in 1982-83 and 1989 for two years. He was NSF Fellow at Purdue University, USA in 1992. He has published 720 research papers in various national and international journals and conferences, guided 32 PhDs, authored 27 books in Power Systems and other allied areas. He is a Fellow of the Indian National Academy of Engineering [FNAE], Indian National Academy of Sciences [FNASc], Institution of Engineers [FIE] and Fellow IEEE.

