**Update on the postponed IEEE PES Talk**

**IEEE PES Talk on November 17, 2015 at CalPoly Pomona on the topic “Power Systems Protection Coordination, Reliability and Security**”

IEEE Foothill Society PES chapter and IEEE PES student chapter, Cal Poly Pomona are pleased to sponsor a talk on the topic, Power Systems Protection Coordination, Reliability and Security, by Mr.Tribhuwan Choubey for the benefit of IEEE, particularly the student members, with an interest to Power Systems. This talk is one of several topics in a series of talks on Power Systems the IEEE Foothill Society PES chapter is planning for the student chapter members.

**Address: California State Polytechnic University, Pomona**

**3801 West Temple Avenue, Pomona, CA 91768**

**Room: 117**

**Building: 9 (Main Engineering Building)**

**Parking:** Parking Structure (which has self-service parking dispensers). Please note: $3.00 fee to park on CPP campus on Saturday for this talk. Please carpool as convenient to you and your associates. (**Near Pointee Building**)

GPS location for parking: 34.060253,-117.816782

**Event Schedule:**

7PM – 7:30 PM : Networking and Dinner

7:30AM-8:30PM: Talk : by Tribhuwan Choubey

* An overview of Transmission System Protection and coordination
* Related Regulatory standards to ensure reliable operation of Bulk Electric System
* Issues and Resolutions

8:30PM – 9:00PM : Q&A Session

# Speaker’s Bio:

Tribhuwan Choubey is a Senior Member of the IEEE. He majored in Electrical Engineering from Institute of Technology, BHU, India; He has more than 30 years’ experience in system design, installation, and testing in industry. He specializes in Power System Protection, Disturbance Analysis and Smart Grid Cyber Security applications. He has been associated with Reliability and Cyber Security standards compliance. He is collaborating with NIST on cyber security architecture and requirements of SGIP; He has delivered various papers at IEEE and Engineering school forums on the topic of Disturbance Analysis, Cyber Security and protective systems applied in Electrical Transmission and Distribution systems. He is working with Southern California Edison in their Engineering Compliance and Quality group at Pomona, CA.

# Abstract- Power System Protection coordination and associated reliability and cyber security standards

Power System is the key cog in the wheels of economy. Correct operation of Power System Protection is key to the safety of operating personnel, and healthy operation of the consumer industry and emergency services. An unintended mal operation, also named as misoperation could lead to severe outage leading to disruption of normal life. One such outage happened in August of 2003, leading to a massive blackout, spreading to the entire east coast USA and part of Canada, affecting more than 50 million people and 70,000 Mega Watts of load. This outage led to a massive post outage analysis by federal agencies and the outcome was a 2005 Federal Energy Policy Act and enforcement of 83 reliability and Critical Infrastructure Protection standards in 2007, growing to 118 mandatory standards to-date, leading to several hundred requirements.

The presentation walks you through the importance of Power system protection, key Power System Protection elements, and importance of System Protection Coordination. It also gives a brief history about the 2003 outage, its outcome and the key Reliability and Cyber Security standards enforced by NERC/FERC.

# RSVP: https://www.eventbrite.com/e/ieee-pes-talk-power-system-protection-coordination-reliability-and-security-tickets-19371385335