

Paper Session T A I: Power System Security and Resiliency

When: 1.10 pm – 3.45 pm, Thursday, March 12th, 2020

Where: Bellsouth Auditorium

Chair: Dr. Komla Folly, University of Cape Town, South Africa

Co-Chair: Dr. Johan Enslin, Clemson University, USA

1:10 pm – 1:35 pm: Toward Developing Metrics for Power System Resilience

Aaron Snyder, Sean Morash

(EnerNex, Knoxville, USA)

1:35 pm – 2:00 pm: Device-Specific Signature Generation Technique for Smart Grid Device

Azadeh Famili, Chirath Pathiravasam, Yingjie Lao, Kumar Venayagamoorthy

(Clemson University, Clemson, SC, USA)

2:00 pm – 2:25 pm: Enhancing Distribution System Resilience Against Extreme Events: A Review

Sibabalo Noludwe, Komla Folly (University of Cape Town, Cape Town, South Africa)

2:25 pm – 2:50 pm: Sparse Representation-based Classification of Geomagnetically Induced Currents

Mohammad Babakmehr, Farnaz Harirchi, Moazzam Nazir, Shiyuan Wang, Payman Dehghanian, Johan Enslin

(Ford Motor Co, MI, USA, Clemson University, SC, USA, George Washington University, Washington D. C., USA)

2:50 pm – 3:15 pm: Grid Cyber-Security Strategy in an Attacker-Defender Model

Yu-Cheng Chen, Vincent Mooney, Santiago Grijalva

(Georgia Institute of Technology, Atlanta, GA, USA)

3:15 pm – 3:40 pm: Power System Protection response under Geomagnetically Induced Currents

Moazzam Nazir, Johan Enslin, Mohammad Babakmehr

(Clemson University, Clemson, SC, USA)