cigre Southern Africa | 10th Regional Conference 2 – 4 Nov 2021. Virtual

Transforming the **power system** for future generations

Tues, 2 Nov 2021	
TUTORIALS	
09:00 - 09:10	Logistics : **S Mtetwa, CIGRE-SA Technical Coordinator**
09:10 - 09:30	Opening Address, **P Moyo, Chairman, CIGRE SA**
09:30 - 10:30	Tutorial 1: B5 - Protection, Automation, and Control of the Evolving Grid. **Dr. A. Apostolov and Dr. N. Nair** Electric power grids around the world are evolving from centralized synchronous generation-based systems towards distributed renewable generation and storage based systems. This is often associated with the use of grid-connected inverters presenting significant challenges to the traditional protection, automation and control (PAC) practices and solutions. In addition, renewable generation like in large wind parks or hydro power plants may profit from bulk power transport over HVDC transmission lines or future grids. The first part analyzes the characteristics of the evolving grid and the issues related to traditional PAC solutions. The second part analyzes the functional and technical evolution in PAC systems that may help addressing the challenges of the evolving grid.
10:30 - 10:45	Q&A
10:45 - 11:00	*Tea Break*
11:00 - 12:00	Tutorial 2: D2 - Transport Networks for utilities. **G.P. Mbouyap**
12:00 – 12:15	Q&A
12:15 - 13:15	Tutorial 3: C6 - Rural Electrification. **Kurt Dedekind**

13:15 – 13:45	*Sponsored Presentation* **Future Cyber Security Considerations of the Energy Sector for Africa** ***Matthew Taljaard (CISSP) (Pr. Eng.), Fortinet*** ***Synopsis** : Operational Technology (OT) Leaders continue to face cybersecurity challenges as the shift to work from home due to the pandemic has accelerated IT-OT network convergence. This accelerated digital transformation puts OT Organizations at increased risk to cyber-attacks. Join us for a high-level discussion around the Future Cyber Security Considerations of the Energy Sector for Africa and how the Fortinet Security Fabric can enable the Energy Sector.*
13:45 - 14:00	*Lunch Break*