

AC-Link Seminar Half Wavelength Transmission Lines

Chairpersons:

Maria Cristina Tavares – UNICAMP
Camilo Machado Júnior - ELETRONORTE
Marcelo Maia - CHESF
Éden Luiz Carvalho Junior - ENTE

PROGRAM

Tuesday, November 26th, 2013

8 am - Registration
9 am - Opening Ceremony
9:30 am - Presentation of Research Project - Half Wavelength Transmission Line Energization Maneuver - Technical Reports
Presenter : Camilo Machado Junior (Eletronorte)
10 am - Basic Concepts of Half Wavelength Transmission
Presenter : Prof. German Samorodov (SibEPRI - Russia)
10:45 am - Break
11 am - Compensation technology for electrical length of Half Wavelength AC power transmission lines
Presenter : Prof. Lei QI (NCEPU - China)
11:45 am - Energizing HWL Line without the Occurrence of Faults
Presenter : Profa Maria Cristina Tavares (Unicamp)
12:30 am - Lunch

2 pm - Energization of HWL Line Considering the Occurrence of Single Phase and Three-Phase Faults

Presenter : Prof. Marcos de Araujo Paz (UEFS)

2:45 pm - Experimental study on secondary arc physics with Half Wavelength power transmission lines.

Presenter : Prof. Qingmin Li (NCEPU - China)

Break - 3:30 pm

3:45 pm - HWL lines application to multiterminal systems

Presenter : Prof. Antônio Carlos Siqueira de Lima (COPPE/UFRJ)

4:30 pm - HWL Corridors in Brazilian Interconnected System - Power Flow Analysis
Presenter : Prof. Luiz Carlos Pereira da Silva (Unicamp)

5:15 pm - Closing

Hotel transportation

Wednesday, November 27th, 2013

8:30 am - Complex tests of the Half Wave transmission system and introduction of Half Wave technology in the near future in Russia.

Presenter : Prof. German Samorodov

9:15 am - Circuit-Breaker TRV Requirements during HWL Transmission Line Tripping

Presenter : Prof. João Bosco Gertrudes (UEFS)

10:00 am - HWL Transmission Line Protection for Energization under Single-Phase Fault - Adjust of Existing Conventional Relay

Presenter : Elson Costa Gomes (PTI/Itaipu)

10:45 am - Break

11:00 am - HWL Transmission Line Protection for Energization under Three-Phase Faults - Adjust of Existing Conventional Relay

Presenter : Renzo Fabián (Unicamp)

11:45 am - FACTS for tapping and power flow control in HWL transmission

Presenter : Prof. Mauricio Aredes (COPPE/UFRJ)

12:30 am - Lunch

2 pm - Synchronous generator performance during HWL Transmission Line Energization
Presenter : Prof. Walmir de Freitas (Unicamp)

2:45 pm - PANEL - What is still necessary to have a HWL Transmission Line in Operation around the World

Panelists : Professor Maria Cristina Tavares; Eng. Machado Junior; Eng. Marcelo Maia; Professor Qingmin Li, Professor Lei Qi, Professor German Samorodov

3:30 pm - Closing Session

4:00 pm - Visit to UNICAMP RTDS - HWL energization protection simulation

4:30 pm - Viracopos Airport transportation

