

ELTEE 2018

International Conference on Evolution of
Functional Performance and Expected LifeTime of Electrical Equipments

FINAL PROGRAM

Tuesday, October 16th

- 09:00** Registration/Breakfast
09:30 Welcome
ENSE3 – Y. MARECHAL,
CEA-LITEN – F. LEFEBVRE-JOUD (to
be confirm)
10:00 Conference Introduction:
H. MOREL – ELTEE Chairman

Session 1 : STANDARDIZATION & NEW CHALLENGES

- 10:15** Standardization on Material Efficiency for longer lifespan within circular economy
10:45 Improving maintenance efficiency and life duration of electrical installation through implementation of Augmented Reality / Remote Expertise functionality

11:15 Coffee Break

Session 2 : POWER ELECTRONIC COMPONENTS

- 11:30** Determination of parameters for lifetime evaluation of SiC MOSFETs based power modules
12:00 Toward a static power switch with integrated condition monitoring function
12:30 Aging laws of electrolytic capacitors

13:00 Lunch

Session 3: ELECTROTECHNICAL COMPONENTS

- 14:30** Distribution transformers Loss of Life under distorting loads
15:00 Risk analysis of switching on a large transformer on the power grid
15:30 Improvement of circuit breaker's lifetime by controlled switching and monitoring
16:00 Ground connections influence on the voltage stress in a PWM-fed motor

16:30 Coffee Break

KEYNOTE : SURVEY PAPER ON CABLES

- 17:00** New approaches on the underground power cables – Structure, diagnostic techniques, life and reliability prognosis (L. PIERRAT)

17:30 Closing of Day 1 and Informations

- 19:00** Diner at CAFFEFORTE
Tramway B – stop at “Notre-Dame Musée” station

Wednesday, October 17th

- 09:00** Registration/Breakfast

- 09:30** Introduction to GIMELEC – P. TAILHADES (to be confirm)

Session 4: STATISTICAL & PROBABILISTIC APPROACHES

- 9:45** Entropy-based method for health assessment of electrochemical devices
10:15 Shading probabilities of PV modules in a partially shaded solar array : a probabilistic approach to availability calculation
10:45 What kind of service for PV modules ?

11:15 Coffee Break

Session 5: RAM & LIFE CYCLE MANAGEMENT

- 11:45** Gestion d'un actif technique sur son cycle de vie : application au transformateur de puissance
12:15 Methods of exchange between network operator and manufacturers to control dependability indices of new electrical equipment

12:45 Conclusion

H. MOREL – Chairman

13:00 Lunch

14:00 Closing

