



# WETS'07

## WELCOME by Lucien Deschamps

### Chairman of the Organization Committee

## WETS'07 Introduction

Thursday 28 June 2007, La Défense

I would like to welcome you all on behalf of PROSPECTIVE 2100 and JICABLE, the organizers, at this workshop sponsored by the CIGRE.

Created in 1996, PROSPECTIVE 2100 is a NGO who imagine, validate and improve programmes for the future in order to respond to the future needs of mankind and nature. PROSPECTIVE 2100 intends to produce a file for each programme consisting of information, comments and proposals directed at decision-makers.

JICABLE has set itself the task of providing a platform for exchanges between research workers, physicists, chemists and other scientists, and manufacturers and users of cables for all voltage levels. Besides successful JICABLE conferences in 84, 87, 91, 95, 99, 2003 and 2007, each with a few hundred participants from as many as 40 to 50 countries, eight workshops have covered different problems : behavior in overload conditions, behavior in high electric fields, fire behaviour, ageing, tropical environments....

In 2003, we have proposed to initiate aims to examine the interest and feasibility of a global energy system in 2050 likely to best distribute power to a maximum number of people. This network would do so whilst simultaneously ensuring a transition towards a sustainable development.

In a future system of this type, what role would insulated power cables play : large transmission or niche market ?

In the present WETS'07 workshop, we are proposing to consider the prospects and problems of long insulated HV and EHV power cable links. Such a study is naturally motivated by the rapid evolution of the world increasing concentration of population in the cities : 10% in 1900, 60% in 2030 !

The achievement of long lengths HV electrical links by insulated cables comes up against the problem of reactive power involved. However, long length links are already in operation. The objective of the workshop is to permit an exchange of information between electrical utilities and manufacturers on the perspectives of power insulated cables for long distance power transmission.

The topics retained for the discussion will be :  
Long length links in the world : characteristics, compensation of the reactive power, operating conditions and results, economical performances and environmental aspects, evolution of the technical and economical performances and finally prospect of development in the world of new long length HV links by insulated power cables.

On behalf of the organizers, I wish to thank Aldo Bolza, who have accepted to chair this meeting and all the experts (48 from 17 countries) who have honored our invitation. I wish naturally also to thank the members of the WETS'07 Organization Committee and particularly the Secretary Jean-Michel Lequeux.

I hope that you will all find this workshop interesting and manage to reach some interesting perspectives.

Thank you  
Lucien DESCHAMPS  
Chairman WETS'07 Organization Committee

