

## LOCATION

The location of the workshop is SH Villa Gadea Resort, around 3km from Altea city centre. For more information please see [www.hotel-villa-gadea.com](http://www.hotel-villa-gadea.com)

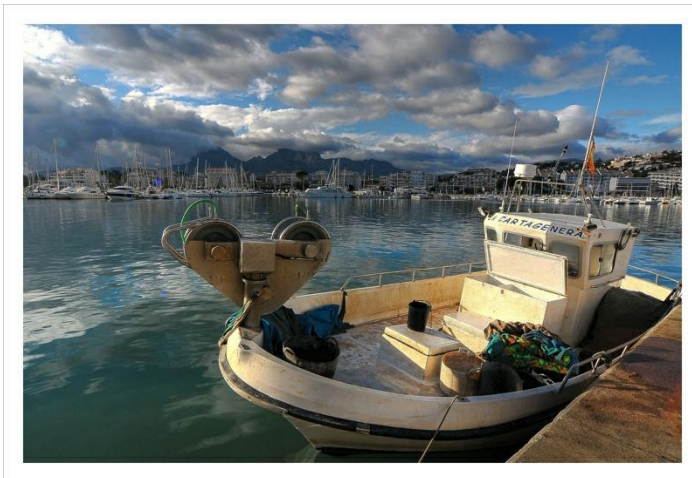
Hotel accommodations will be arranged by the National Organizing Committee

## SUBMISSION OF PARTICIPATION FORM

*To finalize the planning of the workshop venue facilities the participation form should be returned as soon as possible, preferably not later than **March 1, 2011**.*

*Workshop registration and hotel reservation forms will be emailed to all applicants and should be returned by **May 8, 2011**.*

More information at: [www.epcc-workshop.net](http://www.epcc-workshop.net)



## INTERNATIONAL STEERING COMMITTEE

<i>T.E.Dy-Liacco, Chairman Emeritus</i>	<i>USA</i>
<i>D. Sobajic, Chairman</i>	<i>USA</i>
<i>R. Apel</i>	<i>Germany</i>
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<i>J. Corera</i>	<i>Spain</i>
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<i>O. Gjerde</i>	<i>Norway</i>
<i>E. Handschin</i>	<i>Germany</i>
<i>A. Kaszas</i>	<i>Hungary</i>
<i>T. Koronides</i>	<i>Greece</i>
<i>M. Kristensson</i>	<i>Sweden</i>
<i>K. Lakmeharan</i>	<i>South Africa</i>
<i>P. Panciatici</i>	<i>France</i>
<i>C. Sabelli</i>	<i>Italy</i>
<i>N. Singh</i>	<i>Switzerland</i>
<i>Y-H. Song</i>	<i>UK</i>
<i>L. Wehenkel</i>	<i>Belgium</i>
<i>N. Yorino</i>	<i>Japan</i>
<i>B. Zhang</i>	<i>China</i>

## NATIONAL ORGANIZING COMMITTEE

*Jose Corera, Chairman*  
*Carlos Chico Garcia, Vice-Chairman*  
*Felipe Martinez Corcoles, Secretary*

## REGISTRATION FEE FOR PARTICIPANTS

Delegates	€ 490.0
Family members	€ 160.0
Ph.D. Students	€ 90.0

# EPCC

## The 11<sup>th</sup> INTERNATIONAL WORKSHOP ON ELECTRIC POWER CONTROL CENTERS



Experiences and Trends in Generation, Transmission, and Distribution Control Centers: Architectures and Functions

**May 22-25, 2011**  
**Altea, Spain**

Second Announcement and Call for Participants



Sponsored, Organized and Supported by IBERDROLA  
 Additional support by SIEMENS, NARI, ALSTOM, EPRI, Ventyx and KEMA

# The 11<sup>th</sup> International EPCC Workshop

The 11<sup>th</sup> International Workshop on Electric Power Control Centers will be held on May 22-25, 2011 in SH Villa Gadea Hotel, Altea, Spain (see [www.hotel-villa-gadea.com](http://www.hotel-villa-gadea.com)).

The Workshop is organized and supported by Iberdrola. Additional support for the Workshop has been provided in the past by a number of power utilities, vendors, universities and manufacturers including EirGrid, ENEL, CESI, EPRI, MVM, EPFL, KEMA, EdF, PPC, Hewlett-Packard, Siemens, ABB and Areva.

## The Workshop Format

The Workshop will consist of five technical sessions, each dedicated to a specific topic. The technical sessions will be strictly discussion and not paper sessions. No formal papers are solicited for the Workshop. Moreover, in order to encourage free exchange of ideas, verified or not, no discussion records will be kept.

## How to Participate

Participation in the Workshop will be through informal discussions during the sessions and during the breaks throughout each day. Participants may present prepared discussions with the aid of PowerPoint slides. Such presentations will be limited on average to 5-10 minutes. Novel ideas will be allocated longer presentation times. Discussion questions should be sent ahead of time.

*A one page abstract of the prepared discussion and/or discussion questions shall be mailed to [dsobajic@gridengineering.com](mailto:dsobajic@gridengineering.com) by **May 1, 2011**.*

After the Workshop, presentation slides & abstracts of invited and prepared discussions and other used materials will be made available at the EPCC website [www.epcc-workshop.net](http://www.epcc-workshop.net).

## Who Should Attend

Attendance to the Workshop is open to all professionals and PhD students with experience, involvement, or interest in the Workshop topics. English will be the language of all presentations and discussions during the technical sessions.

# Workshop Technical Topics

## #1 - System Operations

Operations under disturbance conditions – objectives, processes, command chain; Integrated system operations, competition/cooperation among partners, information sharing; Convergence of protection and control, dynamic information networks; Balancing unpredictable patterns of renewable generation; Managing reversed flow directions; Monitoring and control of voltage profiles;

## #2 – Operations Planning

Increased system dimensionality, volatility and uncertainty; New constraints; Different levels of detail required in operation planning and control; Need for stochastic security assessment and enhancement tools; Flexible network topology; PMU based preventive and emergency control;

## #3 - Market Functions

Additional requirements due to increased local or dispersed renewables penetration; Faster, sub-hourly markets; Renewables forecast and market integration; Measured and unmeasured renewables production, and impact on security analysis; Balancing market optimization algorithms; Interoperability of balancing market solvers with the EMS; Accommodation of renewables in bidding regimes;

## #4 – Technology Issues

Control algorithms and technologies to utilize high speed resources for stabilization - renewables, fast storage; Synthetic voltage dynamics, governor response, inertia; Integrated control of high speed system resources - inverter based renewables and large scale fast grid connected storage; Siting fast speed energy resources; Modeling of new grid elements: HVDC, wind parks, batteries, etc., Gap between R&D and real life implementation;

## #5 – Vendors Panel

Vendors will present most recent developments in control center design and implementation; Presentations will be followed by Q&A sessions addressing vendors key challenges and other topics of interest including the impact of intermittent renewables on control center design and performance of system operators, and coexistence of control center solutions with substation automation, outage management and other corporate systems.

# Participation form

Prospective participants are requested to fill out this participation form and email it no later than March 1, 2011 to:

Carlos Chico Garcia  
[carlos.chico@iberdrola.es](mailto:carlos.chico@iberdrola.es)

Name : .....

Title : .....

Affiliation : .....

Mailing Address : .....

Phone : .....

Cell: .....

E-mail: .....

I intend to present a prepared discussion on topics:  
1    2    3    4    5  
Please circle each applicable topic number

I intend to contribute discussion questions on topics:  
1    2    3    4    5  
Please circle each applicable topic number

I have a direct interest in topics:  
1    2    3    4    5  
Please circle each applicable topic number

I intend to stay in the location for .....nights and be accompanied by ..... family members

Signature : .....

Date : .....