



PROTECTION, AUTOMATION & CONTROL WORLD CONFERENCE 2010 Dublin, Ireland

We are happy to announce that the inaugural Protection, Automation and Control (PAC) World Conference will take place from 21 to 24 June 2010 at Trinity College in Dublin, Ireland. Members of the PAC World community, professionals from utilities and universities, manufacturers and consultants, are invited to take part in a unique event that will help us build better understanding and knowledge in our industry.

Why?

Maybe some of you will ask: "Why do we need another conference?". Here is why:

We are getting closer to the end of the first decade of the twenty first century at a time of financial and energy crisis, loss of expertise in the field of electric power systems Protection, Automation and Control (PAC), dramatic changes in computing and communication technologies, as well as increased requirements for system stability and power quality. The wide spread penetration of alternative energy sources, the foreseeable availability of millions of electric vehicles introduce additional challenges for PAC professionals and move the industry towards the development and implementation of a "Smart Grid".

This all sounds very promising. But if you ask anyone "What is a Smart Grid?", you will get as many answers as the people you asked. For some people it is automatic meter reading, for other it is distribution automation or the integration of distributed energy resources. Adaptive protection, dynamic stability estimation, synchrophasor applications and distributed PAC systems will pop-up in some of the answers. All these answers are correct. They are trees in the forest. But many times we, as specialists, focus so much on "our" tree, that we don't see the forest.

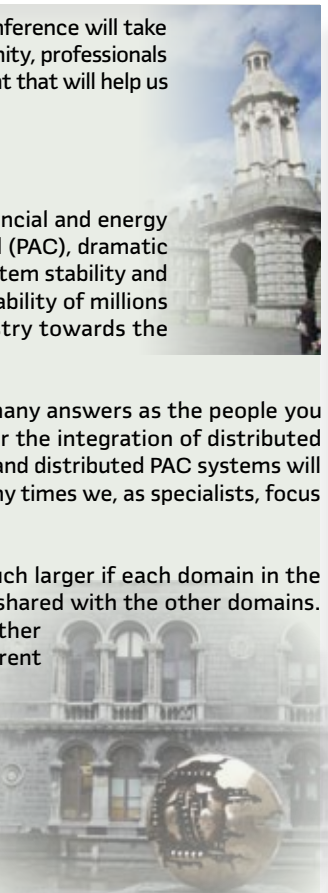
The investments that are required to build a smart grid will be huge. However, they will be much larger if each domain in the electric power system builds their own piece of the smart grid without checking what can be shared with the other domains. That is why we decided that we need the PAC World conference. The other conferences are either too broad, or too narrow. They offer many parallel sessions that keep the experts from the different domains isolated in their own, well known environment. We will try to find the middle ground, the "razor's edge", by having for three days experts from around the world in the same conference hall at the historical Trinity College. We will present to the attendees the challenges, the requirements and the solutions that each one of us needs to be part of the Smart Grid. We will look at the past, the present and the future. We will argue and challenge each other. We will find out what divides us and what unites us. And at the end we will learn that we can work together to optimize our industry efforts and build in the most efficient way the Smart Grid of the future.

The same way that the PAC World magazine is the forum for open discussions in the PAC industry, we want to make the PAC World Conference the annual gathering of the people that are our community, where they can meet each other, learn from each other, become friends and as Rainer Aberer (the person that triggered this event) used to say "Have fun!".

Where?

If you are wondering why we chose Dublin for the host city, the answer is also very simple. It is a wonderful place to visit, with friendly people that know how to work hard and enjoy themselves. It has excellent facilities, easy access from anywhere in the world and a great mix of history and modern life.

The conference venue - Trinity College - fits perfectly this concept as well. One of the oldest universities in Europe, it represents the transition from traditional education to advanced research and innovation.



When?

The dates for the conference were also not randomly selected. If you look at the sine wave of the daylight time, you will see that the days of the conference are at the maximum, providing the highest level of energy for the participants – something that we hope will energize the discussions at the conference as well.

How?

The conference format will be unique not only in bringing experts from different domains of the PAC space together in the same room. The conference will be held in five half-day sessions. Each session will include five presentations by world-renowned experts that will give their vision on the subject and the papers submitted to the conference. This will be followed by a round table discussion, when the attendees will have the opportunity to ask questions to the speakers or the authors of the submitted papers.

This format will allow us to capture the pulse of our industry and to provide to the participants at the conference and the members of the PAC World community around the globe a snapshot of the state of technology, challenges, experience and future developments that will shape protection, automation and control systems as part of the Smart Grid of the future.

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Call for papers

Protection, automation and control specialists from industry and academia around the world are invited to submit abstracts on the following topics:

1. The Future of Electricity – PAC challenges of today and tomorrow
2. Smart Grid – what is it?
3. System analysis
4. Standardization and harmonization of system models
5. Wide area monitoring and control
6. Communications
7. IEC 61850, applications and benefits
8. Standard protocols and common data formats
9. Cyber security
10. Multifunctional Protection IEDs – acceptable functional integration
11. Advanced protection, automation and control functions
12. Adaptive protection
13. System Integrity Protection Schemes (SIPS)
14. Synchrophasors, applications and benefits
15. Testing of devices, distributed functions and systems
16. Power quality
17. Automatic fault analysis
18. Substation automation
19. Distribution and home automation
20. Impact of wind power on PAC
21. Distributed Energy Resources Integration
22. Asset management and condition monitoring
23. Engineering
24. Visualization, situational awareness
25. Power system education challenges for professionals and administrators



All abstracts should be around 500 words. The authors should indicate which topic the paper addresses and keep in mind that the focus of their papers should be on presenting challenges, applications, solutions and ideas related to the above topics in a non-commercial and practical manner. Preference will be given to papers that discuss the functionality and performance requirements of the application, the communications requirements and how the application fits within a distributed multi-domain smart grid architecture and interacts with other applications in the smart grid hierarchy.

The abstracts should be e-mailed as an attachment in Word or PDF to pacwc2010@pacw.org.

Important dates:

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| Abstracts deadline: | 30 November 2009. |
| Acceptance notification: | 31 December 2009. |
| Papers submission: | 15 March 2010. |

