

Dear PCaPAC Participant,



Welcome to Karlsruhe!

The 10th International Workshop on Personal Computers and Particle Accelerator Control (PCaPAC 2014) is taking place in Karlsruhe, Germany, from October 14th to 17th 2014. The conference is organized and hosted by the Synchrotron Radiation Facility ANKA, which is part of the Karlsruhe Institute of Technology (KIT). KIT was founded in 2009 with the merger of Forschungszentrum Karlsruhe and University Karlsruhe and with over 9000 employees it is one of the largest teaching and research organizations in the world.

PCaPAC traditionally focuses on the development and management of control and data acquisition systems using PC technology.

This year the focus is on emerging technologies like modern – mobile – user interfaces, DSPs, FPGAs, modern data acquisition systems, cloud computing, software management and databases. An interesting topic will be XLDBs and noSQL DBs.

As is traditional, PCaPAC will start on the first day with a series of tutorials. You will have the chance to join these tutorials and learn ‘hands on’ directly from the experts:

- Tango Control System for newbies, organized by ESRF and SOLEIL, France
- Introduction to noSQL DBs, organized by INFN, Italy
- Introduction into the Web2cToolkit, organized by DESY, Germany
- Set up for success - Creating a development environment from scratch, organized by Softwareschneiderei GmbH, Germany
- Introductory workshop on programmable hardware, organized by KIT, Karlsruhe

The scientific program will include invited talks, contributed talks and a poster session. For the invited talks I am happy to welcome: Pieter Hintjens, subject ZeroMQ; Fabrizio Gagliardi, subject Grids and Clouds; Carola Lilienthal, subject Current Trends in Software Development Management; Heiko Ehrlichmann, subject Machine availability monitoring; Dirk Düllmann, subject overview of current database systems.

On behalf of the Local Organizing Committee, it gives us great pleasure to welcome the more than 100 contributors to PCaPAC 2014, to Karlsruhe, to Baden-Württemberg and to Germany.

The local organizing committee suggests that you see some of the countryside around the city of Karlsruhe. A wine tasting excursion is planned at a vineyard in the palatinate region. A location for technology lovers has been selected for the conference dinner, the Technik Museum Speyer, with a Buran space shuttle on display among other extraordinary exhibits.

Wolfgang Mexner
Chair PCaPAC 2014