



Training Workshop *Beam Diagnostics* 25th June 2013

This Workshop is bringing all oPAC Fellows together for specialist training in Beam Instrumentation and is hosted by Bergoz Instrumentation, France.

This training will provide insight into the resources available within typical SME technology partners and will include areas such as:

- Assembly of a large dynamic range, 500-MHz RF receiver, with an opportunity to build your own set of components;
- Optical inspection and filters turning on a vector network analyzer test stand;
- Retrieval and assembly of manufacturer data sheets for performance critical components;
- Characterizing of circuit for environmental conditions;
- Review of design and simulation tools used for the circuit development - Mechanical 3D CAD (SolidWorks), Circuit analogue design and simulation (Proteus), RF simulation (Agilent Genesys/Momentum);

- Measuring of instruments - a critical approach: Time domain vs. frequency domain;
- Provision of an overview of oscilloscopes limitations and network analysers limitations.

Beam simulation in the laboratory will be provided together with a demonstration of practical applications.

For further details on the oPAC project see the project web site:

www.opac-project.eu

Contact and further details:

Prof. Dr. Carsten P. Welsch
Associate Director
Cockcroft Institute
Sci-Tech Daresbury
University of Liverpool
Warrington WA4 4AD, UK
c.p.welsch@liverpool.ac.uk



This project is funded by the European Union under contract PITN-GA-2011-289485