

Pulse Programming for Philips Achieva Platform

March 22-26 2010, Zurich, Switzerland

The Pulse Programming Course is dedicated to advanced users of the Philips Achieva platform willing to develop their own experimental pulse sequences in MRI and MRS. Targeting scientists with basic programming skills, this 5-day course provides all knowledge required to develop and run custom pulse sequences using the Philips pulse programming environment.

Monday:

- Historical overview of MR research and development at Philips
- Introduction of Achieva system architecture
- Introduction to Goal-C (Gyrosan Object Oriented Acquisition Language C)
- Programming environment: Overview and installation
- Sequence development mode

Tuesday:

- Constructing complex pulse sequences
- Software components and their relation to hardware
- Software decomposition, file naming conventions
- Introduction of prototyping concepts with practical exercise

Wednesday:

- Parameter objects, parameter validation steps
- Coordinate systems and geometry handling
- On-line demo: How to pulse program – frequently used steps involved in programming
- Details on parameter validation and sequence calculation
- Hands-on programming project (part I)

Thursday:

- Overview and code structure for MR Spectroscopy
- Controlling image reconstruction
- Hands-on programming project (part II)

Friday:

- Installing and running custom sequences on the MR system
- Advanced topics: Custom RF shapes, SNR measurements

Course fee: 2900 EUR

Registration: Online at www.gyrotools.com

