

Pulse Programming

for Philips Achieva/Ingenia Systems

September 5-9 2011, Zurich, Switzerland

The Pulse Programming Course is dedicated to advanced users of the Philips Achieva/Ingenia platform who want 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. Daily hands-on exercises with wrap-up sessions ensure success in implementing an example sequence.

Monday:

- Overview of MR development at Philips
- Introduction of Achieva/Ingenia system architecture
- Introduction to Goal-C
- Installation of programming environment
- Sequence development mode

Tuesday:

- Constructing complex pulse sequences
- Software components
- Software decomposition, file naming
- Advanced sequence development mode
- Quick prototyping concept with exercise

Wednesday:

- Parameter objects, parameter validation
- Coordinate systems and geometry handling
- On-line demo: How to pulse program
- Details on parameter validation
- Hands-on programming project (part I)

Thursday:

- Code details; logging and debugging
- Code structure for spectroscopy
- Controlling image reconstruction
- Simple sequence example
- Safety considerations
- Hands-on programming project (part II)

Friday:

- Software patch installation
- Running custom sequence on MR system
- Multix and custom RF shapes
- Patch migration

Course fee: 2900 EUR

Registration: Online at www.gyrotools.com

