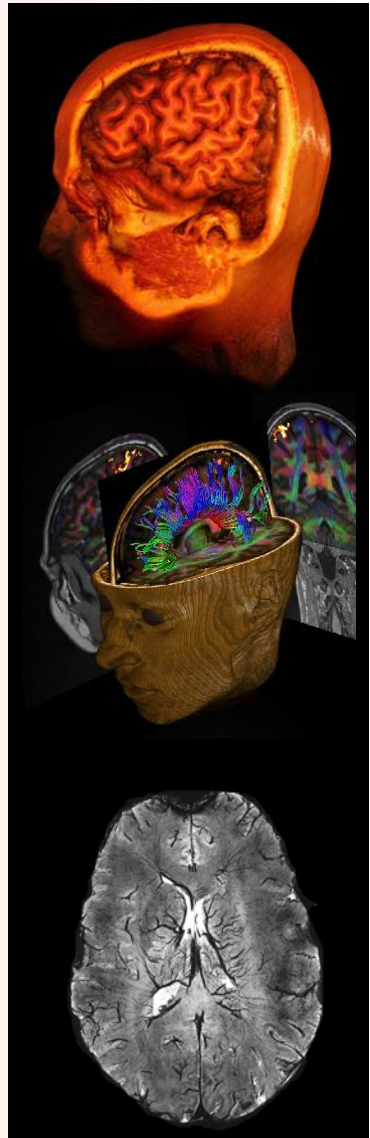




Service de Radiodiagnostic
et Radiologie Interventionnelle
CHUV – 1011 Lausanne
Prof. Reto Meuli



Advanced Clinical Imaging Technology
CIBM-Siemens
EPFL – 1015 Lausanne
Dr. Gunnar Krüger

Research Day 2007 – CIBM-Siemens

Advanced Neuro MR between Research and Clinics - Meet the scientists

Prof. Reto Meuli
Dr. Gunnar Krüger

Tuesday, November 13, 2007

Lausanne - CHUV
Auditoire E. Jéquier-Doge
PMU
Main entrance CHUV - Floor BH 08

Program

- 9h00 : **Welcome & Introduction**
Prof. Reto Meuli
- 9h10 : **Advanced Clinical Imaging Technology – a common effort of the CIBM and Siemens MED**
Dr. Gunnar Krüger
- 9h20 : **Quantitative measures of brain atrophy – an MRI-based application development project to support diagnosis of dementia**
Mrs. Bénédicte Mortamet
- 9h35 : **Intrinsic respiratory monitoring and motion detection for fMRI and anatomical imaging – preliminary developments**
Mr. Tobias Kober
- 9h50 : **A 32-channel head coil for 7 Tesla brain imaging – new technology at the CIBM**
Mr. Martin Hergt
- 10h05 : **Advanced MR Spectroscopy for Clinical Research at 3T and 7T – latest developments and initial results**
Dr. Ralf Mekte
- 10h20 : **Coffee break**
- 10h50 : **Mapping the structural connection network of the human brain with diffusion MRI**
Dr. Patric Hagmann
- 11h05 : **Beyond the surface of diffusion – Diffusion Spectrum Imaging in stroke recovery**
Dr. Cristina Granziera
- 11h20 : **Initial experience and potential of ASL perfusion and SWI contrast in clinical research**
Dr. Magalie Viallon
- 11h35 : **The challenges of MRI at 7T – initial experience and our first results**
Dr. Wietske van der Zwaag
- 11h50 : **Wavelet techniques for fMRI data analysis**
Dr. Dimitri van de Ville
- 12h05 : **Combined fMRI/MTI approach in brain developmental studies**
Dr. Elenora Fornari
- 12h20 : **Comparing and Combining Electrical and Hemodynamic Neuroimaging – from Cognitive Neuroscience to Clinical Intervention**
Dr. Micah Murray
- 12h35 : **Standing Lunch**

Research Day – CIBM – Siemens

Organization

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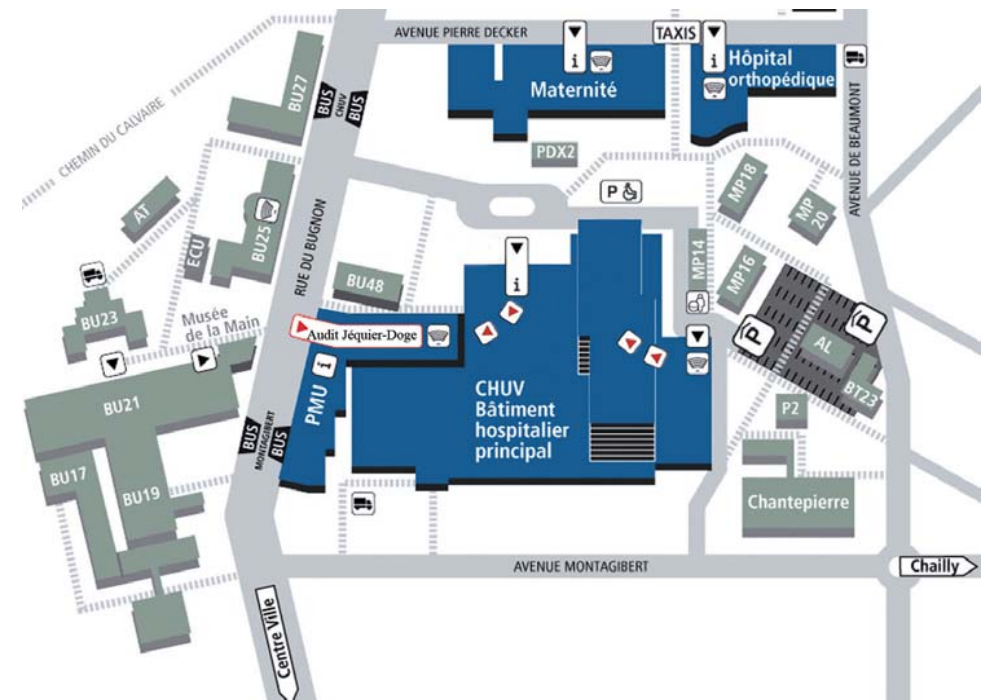
Further information

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Speakers

- Prof. R. **Meuli**, MD, PhD, Head of the MRI Unit, Head of the CIBM-CHUV Unit, President of the Steering Committee of the CIBM, Department of Radiology, University Hospital, CHUV, Lausanne
- Dr. Gunnar **Krüger**, Head of the Advanced Clinical Imaging Technology. CIBM-Siemens Development Group, Lausanne-Geneva
- Mrs Bénédicte **Mortamet**, Advanced Clinical Imaging Technology, CIBM-Siemens Development Group, Lausanne-Geneva
- Mr Tobias **Kober**, Advanced Clinical Imaging Technology, CIBM-Siemens Development Group, Lausanne-Geneva
- Mr Martin **Hergt**, Advanced Clinical Imaging Technology, CIBM-Siemens Development Group, Lausanne-Geneva
- Dr. Ralf **Mekle**, PhD, CIBM, Lausanne, Laboratory for functional and metabolic imaging (LIFMET), EPFL, Lausanne & Department of Radiology, UNIL, Lausanne
- Dr. Patric **Hagmann**, MD, PhD, Department of Radiology, University Hospital, CHUV, Lausanne
- Dr. Cristina **Granziera**, MD, PhD, CIBM-CHUV Unit and Department of Neurology, University Hospital, CHUV, Lausanne
- Dr. Magalie **Viallon**, PhD, Department of Radiology, University Hospital, HUG, Geneva
- Dr. Wietske **van der Zwaag**, PhD, CIBM, Lausanne, Laboratory for functional and metabolic imaging (LIFMET), EPFL, Lausanne & Department of Radiology, UNIL, Lausanne
- Dr. Dimitri **van de Ville**, PhD, CIBM Signal Processing Core, University Hospital, HUG, Geneva
- Dr. Elenora **Fornari**, PhD, CIBM-CHUV Unit, Department of Radiology, University Hospital, CHUV, Lausanne
- Dr. Micah **Murray**, PhD, CIBM-CHUV Unit, Associate Director EEG Brain Mapping Core, Director of The Functional Electrical Neuroimaging Lab., Neuropsy & Neurorehabilit. Unit & Dept of Radiology, University Hospital, CHUV, Lausanne



The "Research Day – Siemens & Centre d'Imagerie BioMedicale (CIBM)" is a meeting for scientists and clinicians of the Lemanic area and the CIBM-Siemens development group "Advanced Clinical Imaging Technology". The meeting is conceived as a platform to discuss Neuroimaging development projects in clinical high field magnetic resonance imaging.

[Directions to CHUV - Lausanne](#), Rue du Bugnon 46 - 1011 Lausanne