

1st SPECTRAL PHOTON COUNTING CT WORKSHOP

September 7-8, 2015
Lyon, France

CERMAP
imagerie du vivant

FLI
France Life Imaging



Scientific Committee

Philippe Douek, Loïc Bussel, Philippe Coulon, Ewald Roessl, Luisa Poggi

Informations & registration:

Delphine COUTURIER

Secrétariat Professeur Philippe DOUEK

Hôpital Cardiologique Louis Pradel

Service d'Imagerie Médicale - 28 av. Doyen Lépine
69677 Bron cedex, France

e-mail : delphine.couturier@chu-lyon.fr

SEPTEMBER 7, 2015

**16:00 - Spectral Photon Counting CT Inauguration
CERMEP, 59 Bd Pinel - 69500 Bron**

Dear Colleagues,

We are pleased to invite you to the first Spectral Photon Counting CT Workshop in Lyon (7-8 September 2015).

This international meeting will offer an update on newly development in detector technology, CT Image Reconstruction, Spectral CT Contrast media development and pre-clinical and clinical perspectives on this newest CT technology. There will also be the opportunity to visit the Spectral CT located in our Research Imaging Center CERMEP on September 7 after the inauguration.

**19:00 - Social Event - Boat Cruise on the River
13 bis Quai Rambaud, 69002 Lyon**

You will have the opportunity to visit Lyon from its rivers the Rhône and the Saône. The cruise will pass the Renaissance Old Lyon district along the banks of the Saône River. We will then reach the Ile Barbe, in a natural and secret setting, at the edge of the city.

And we will go down to the Confluence, an urban and innovative area.

Looking forward to welcoming you to Lyon
On behalf of the scientific committee,

Best regards
Philippe Douek

SEPTEMBER 8, 2015

Institut des Sciences Cognitives 57 bd Pinel - 69500 Bron

- 09:00 Introduction - P. Douek, G. Gimenez, G. Pardo Roques, FLI, CERMEP, UCLB, Philips
- 09:20 Quantified characteristics of lesions and diseases using photon counting spectral CT without contrast injection are there enough opportunities and sensitivity?
A. Altman, Philips Research Haifa
- 09:40 Detector technology development - I. Blevis, Philips, Research, Haifa
- 10:00 Pre-clinical application with in vivo photon counting technology:
Preliminary results - L. Bousset, D. Barness, UCLB-HCL, Lyon
- 10:30 *Coffee break*
- 11:00 Image reconstruction and k-edge - E. Roessl, Philips Research, Hamburg
- 11:15 Clinical spectral CT development latest results: M. Danielson, Royal Institute of Technology, Stockholm
- 11:30 Advanced clinical applications for single photon counting CT- P. Noel, Technische Universität, Munich
- 11:45 Micro CT development for K-edge mouse imaging - C. Morel, CPPM, Marseille
- 12:00 New Multi-energy Photon-Counting X-ray Detectors for CT systems - L. Verger CEA, Grenoble
- 12:15 Spectral CT for proton therapy - S. Rit, UCLB, Lyon
- 12:30 *Lunch*
- 13:30 Spectral CT contrast agent newly developments - D. Cormode, University of Pennsylvania, Philadelphia
- 13:45 Gadolinium nanoparticles for spectral CT - F. Lerouge, ENS, Lyon
- 14:00 Contrast agent development for spectral CT - L. Poggi, Bracco
- 14:15 Elastin specific contrast agent: From MR to spectral CT - R. Botnar, UCL, London
- 14:30 Simulation capability for contrast agent development - R. Proksa, Philips Research, Hamburg
- 14:45 Principe and potential of multi-imaging probe for Spectral CT - T. Fleiter, University of Maryland, Baltimore
- 15:00 Contrast media for Spectral CT: Latest results - GM Lanza, Washington University
- 15:15 *Coffee break*
- 16:00 Perspectives of photon counting spectral in clinical application: example in oncology - P. Rousset, UCLB-HCL, Lyon
- 16:20 Mouse Brain K-edge Imaging using synchrotron X ray source - M. Wiart, CNRS, Lyon
- 16:40 Requirements for newly develop CT technology to be cost effective - J.L. Hans Severens Erasme University, Rotterdam
- 17:00 Conclusions P. Douek UCBL-HCL, Lyon

Registration until August 23, 2015

Registration fees: 200 euros
by check or transfer in euro in the order of GRAMPRI

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