



## 1st Working Group Meeting of CA15209

16/02/2017 - 17/02/2017

Olsztyn (Poland)

### Thursday, 16<sup>th</sup> February

9<sup>00</sup> – 9<sup>20</sup> - **Opening and Introduction**

#### Introductory lectures of WG Leaders

9<sup>20</sup> – 9<sup>40</sup> - **WG1 – Jan Lang**  
Charles University in Prague (Prague 8, Czech Republic)

9<sup>40</sup> – 10<sup>00</sup> - **WG2 – Mauro Botta**  
Dipartimento di Scienze e Innovazione Tecnologica, Università del Piemonte Orientale "Amedeo Avogadro" (Alessandria, Italy)

10<sup>00</sup> – 10<sup>20</sup> - **WG3 – Anne-Laure Rollet**  
Laboratoire PHENIX (UMR 8234 -CNRS/UPMC) (Paris cedex 5, France)

10<sup>20</sup> – 10<sup>40</sup> - **WG4 – Pär Håkansson**  
University of Oulu (Oulu, Finland)

10<sup>40</sup> – 11<sup>00</sup> - **WG5 – Dominique Petit**  
CNRS & Université de Montpellier (Montpellier Cedex 5, France)

11<sup>00</sup> – 11<sup>40</sup> - break



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Horizon 2020

# COST Action **CA15209**: "European Network on NMR Relaxometry"

[http://www.cost.eu/COST\\_Actions/ca/CA15209](http://www.cost.eu/COST_Actions/ca/CA15209)

<http://eurelax.uwm.edu.pl/>

## Lectures of WG Members

- 11<sup>40</sup> – 12<sup>00</sup> - *Structure and dynamics of materials by NMR spectroscopy and relaxometry: research activities at the Pisa Solid State NMR joint laboratory*  
Lucia Calucci  
ICCOM (Istituto di Chimica dei Composti OrganoMetallici) (Pisa, Italy)
- 12<sup>00</sup> – 12<sup>20</sup> - *NMR relaxation in partially saturated pores: applications to porous glasses and cement paste*  
Ioan Ardelean  
Technical University of Cluj-Napoca (Cluj-Napoca, Romania)
- 12<sup>20</sup> – 12<sup>40</sup> - *NMR relaxometry study of liquid crystal dimers exhibiting a peculiar nematic phase*  
Carlos Cruz  
Instituto Superior Técnico, University of Lisbon (Lisbon, Portugal)  
Center of Physics and Engineering of Advanced Materials, Instituto Superior Técnico, University of Lisbon (Lisbon, Portugal)
- 12<sup>40</sup> – 13<sup>00</sup> - *Zinc responsive contrast agents*  
Patrick Malikidogo  
Centre de Biophysique Moléculaire, CNRS (Orléans, France)
- 13<sup>00</sup> – 14<sup>30</sup> - lunch
- 14<sup>30</sup> – 14<sup>50</sup> - *Potential applications of NMR relaxometry in medicine using FFC-MRI*  
Lionel Broche  
University of Aberdeen, Biomedical Engineering Building (Aberdeen, United Kingdom)
- 14<sup>50</sup> – 15<sup>10</sup> - *What FFC-relaxometry can do to get more insight into the issues related to Gd-retention in the brain*  
Eliana Gianolio  
University of Torino, Dept. Molecular Biotechnologies and Health Science (Torino, Italy)
- 15<sup>10</sup> – 15<sup>30</sup> - *NMR Spin-lattice relaxation models fitting to experimental results using a web-based platform*  
Pedro Sebastião  
Instituto Superior Técnico (Lisboa, Portugal)

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- 15<sup>30</sup> – 15<sup>50</sup> - *High Spin Quadrupolar Relaxation- analytical lineshape calculations and experimental validation*  
Christian Gösweiner  
Institute of Medical Engineering, Graz University of Technology (Graz, Austria)
- 15<sup>50</sup> – 16<sup>10</sup> - *The validity range of the Redfield relaxation theory*  
Danuta Kruk  
University of Warmia and Mazury in Olsztyn (Olsztyn, Poland)
- 16<sup>10</sup> – 16<sup>30</sup> - *Recent theory/simulation developments and challenges in relaxometry*  
Pär Håkansson  
University of Oulu (Oulu, Finland)
- 16<sup>30</sup> – 17<sup>00</sup> - *Designing 3 generations of FFC equipment: different targets & technical challenges*  
Duarte Sousa  
AC Energia/Instituto Superior Técnico/Universidade de Lisboa (Lisboa, Portugal)
- 17<sup>00</sup> – 17<sup>30</sup> - break
- 17<sup>30</sup> – 18<sup>15</sup> - Round - table discussion on a collaboration network
- 18<sup>15</sup> – 19<sup>00</sup> - Round - table discussion on research funding opportunities at national and EU level
- 19<sup>00</sup> – 20<sup>00</sup> - dinner

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### Friday, 17<sup>th</sup> February

- 9<sup>00</sup> – 9<sup>30</sup> - **Wrap-up** the discussions from the previous day
- 9<sup>30</sup> – 11<sup>00</sup> - Discussions within individual WGs (parallel) on their action plan, deliverables and future strategies
- 11<sup>00</sup> – 11<sup>30</sup> - break
- 11<sup>30</sup> – 12<sup>30</sup> - **Wrap-up** of the individual discussions followed by a discussion on a collaboration action plan involving all WGs (plenary)
- 12<sup>30</sup> – 13<sup>00</sup> - *Open-source hardware for FFC relaxometry*  
Lionel Broche  
University of Aberdeen, Biomedical Engineering Building (Aberdeen, United Kingdom)
- 13<sup>00</sup> – 14<sup>30</sup> - lunch
- 14<sup>30</sup> – 15<sup>30</sup> - Round – table discussion on collaboration strategy and deliverables related to the planned joint research and the strategy of knowledge dissemination and industry participation
- 15<sup>30</sup> – 16<sup>00</sup> - **Closing remarks**