European Network on NMR Relaxometry

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COST is supported by the EU Framework Programme Horizon 2020

NEWSLETTER 5
OF THE COST ACTION

Date: 01.09.2018 - 31.03.2019

Action Chair: prof. dr hab Danuta Kruk

Events:

- **2nd Workshop of Nuclear Magnetic Resonance Relaxometry**, 4/02/2019 - 6/02/2019 (Prague, Czech Republic)
- **3rd Working Group Meeting**, 7/02/2019 (9.0a.m. - 1.0p.m.) (Prague, Czech Republic)
- **3rd Management Committee Meeting**, 7/02/2019 (2.30p.m. - 6.30 p.m.) (Prague, Czech Republic)
- **Training School: NMR relaxometry and Magnetic Resonance Imaging**, 13/02/2019 - 15/02/2019, Basel (Switzerland)
- **Training School: NMR relaxometry data analysis: theory and software**, 18/02/2019 - 22/02/2019, Pavia (Italy)

Short Term Scientific Mission:

- **Magdalena Knapkiewicz, PhD student**, Polish Academy of Sciences (Poznań, Poland), duration of the mission: 8 days
- **Dr. Philippe Bodart**, University of Bourgogne and Agrosup Dijon (Dijon, France), duration of the mission: 10 days
- **Supuksorn Masavang, PhD student**, University of Bourgogne and Agrosup Dijon (Dijon, France), duration of the mission: 10 days
- **Dr. Lionel Broche**, University of Aberdeen (Aberdeen, United Kingdom), duration of the mission: 7 days
- **Peter Urbanovský, PhD Student**, Charles University (Prague, Czech Republic), duration of the mission: 12 days
- **Dr. Maria Enrica Di Pietro**, Department of Chemistry, Materials and Chemical Engineering "Giulio Natta", Politecnico di Milano, Italy, duration of the mission: 8 days
- **Dr. Anton Gradišek**, Jozef Stefan Institute (Ljubljana, Slovenia), duration of the mission: 9 days
- **Baris Ozel, PhD student**, Middle East Technical University (Ankara, Turkey), duration of the mission: 12 days
- **Elif Gokcen Ates, PhD student**, Middle East Technical University (Ankara, Turkey), duration of the mission: 12 days
- **Prof. Frans AA Mulder**, Aarhus University, iNANO center (Aarhus, Denmark), duration of the mission: 11 days
- **Dr. Janez CERAR**, University of Ljubljana (Ljubljana, Slovenia), duration of the mission: 11 days

**ITC Grands:**
- **Dr. Mecit Halil ÖZTOP**, Middle East Technical University (Ankara, Turkey)

**Co-authored Action publications:**


7. *Quadrupole relaxation enhancement and polarization transfer in DMSO solution of [Bi(NO3)3(H2O)3]*18-crown-6 in frozen state*, D. Kruk, E. Masiewicz, E. Umut, M.


12. E. A. Rössler, M. Hofmann, N. Fatkullin, **Application of field-cycling $^1$H NMR relaxometry for studying translational and rotational dynamics in liquids and polymers**, in: Field-cycling NMR relaxometry: Instrumentation, model theories, applications, edited by RSC, 2019


15. **Local and collective molecular dynamics processes in an antiferroelectric liquid crystal with the SmCa* phase**, Knapkiewicz, M. Bielejewski, P. Sebastiao, and A. Rachocki *(manuscript in preparation)*


Conferences:


Projects resulting from Action activities:

1. *Application of NMR relaxation and diffusion measurements to assess dynamics of complex molecular systems*, CZ, Petr Hermann, National, INTER-EXCELLENCE (INTER-COST), grant No. LTC17067 (Europe in a changing world, inclusive innovative and reflective societies)

2. *NMR-based metabolomics of cheese products*, EL, Evangelia Ralli, National, 1st Call of Scholarships for the support of young PhD candidates (Food security, sustainable agriculture and forestry, marine and maritime and inland water research, and the Bioeconomy)