

Symposium Program

Thursday, 6th November – Day 1

09:00 - Registration and Poster Setup

10:00 - Welcome

Educational Session 1

Chair: *Dr. Elien Derveaux*

10:10 - Tutorial: *“Decoding modern NMR methods to unlock their full potential”*
Prof. Laura Castanar-Acedo

11:05 - Tutorial: *“What can and cannot be simulated in Magnetic Resonance”*
Prof. Ilya Kuprov

12:00 - Lunch

Plenary Session 1

Chair: *Dr. Luca Fusaro*

13:00 - Invited Speaker: *Prof. Laura Castanar-Acedo* (Universidad Complutense de Madrid)
Simplifying complexity: novel NMR tools to aid spectral analysis

Chair: *Dr. Roy Lavendomme*

13:50 - 3D printing of subject-specific passive shims to improve *in vivo* MRI - *A. Vanduffel*
14:10 - Synthesis and optimisation of gallium-doped dendritic silica materials for CO₂ conversion: a structure–activity correlation via ssNMR - *N. Pierard*

14:30 - Flash Presentations of Posters

14:50 - Poster Session 1 & Coffee Break (1h30)

Plenary Session 2

Chair: *Prof. José Martins*

16:20 - Invited Speaker: *Prof. Ilya Kuprov* (Weizmann Institute, Rehovot)
Deep neural networks in magnetic resonance data processing

Chair: *Dr. Ewoud Vaneckhaute*

17:10 - ¹H-NMR metabolomics of cocoa beans and derived cocoa liquors and chocolates after spontaneous or starter culture-initiated fermentation - E. Tuenter

17:30 - Integrating NMR and dielectric spectroscopy in a single multi-diagnostic probe-head for the investigation of nanoconfined water - A. F. Morais

17:50 - Monte Carlo study of high-field transverse relaxation induced by iron oxide nanoparticles coated by a slow water diffusion layer - E. Martin

18:10 - End of Session

18:30–19:00 - General Assembly

19:00 - Reception & Networking - followed by Dinner

Friday, 7th November – Day 2

Educational Session 2

Chair: *Dr. Anthony Morena*

09:00 - Tutorial: “*Understanding Quadrupolar Nuclei in Solid-State NMR: From Theory to Practical Aspects*” – Prof. Laurent Delevoye

09:55 - Cracking MOF secrets with NMR crystallography: Isorecticular expansion in porous Al(III) and Ga(III) phosphonates - J. Theissen

10:15 - Poster Session 2 & Coffee Break (1h30)

Plenary Session 3

Chair: *Dr. Yoanes Maria Vianney*

11:45 - Hyperpolarized protic solvents as a general resource for polarization transfer - E. Vaneckhaute

12:05 - Silica-based nanotubes and nanospheres: versatile materials from micellization studies to greener pathways - V. Marsala

12:25 - Unlocking homonuclear geminal couplings for conformational analysis of flexible molecules - E. Norzagaray

12:45 - Multi-harmonic EPR detection of melanin in skin melanomas: from mice to men - M. Wehbi

13:05 - Lunch & Group Photo

Plenary Session 4

Chair: *Prof. Peter Adriaensens*

14:30 - Invited Speaker: Prof. Laurent Delevoye (Université de Lille / CNRS)
Structure–activity relationships in catalysts with advanced solid-state NMR of quadrupolar nuclei

Chair: *Prof. Peter Adriaensens*

15:20 - Unravelling competitive adsorption in zeolites with solid-state NMR - S. Radhakrishnan

15:40 - Mapping cancer's metabolic footprint: plasma NMR for early NSCLC diagnosis - J. Meynen

16:00 - Solution-state NMR spectroscopic characterization of metal–organic assemblies - R. Lavendomme

16:20 - Coffee Break

16:50 - Awards and Closing Remarks

17:10 - End of Symposium