

POSTERS

**42nd Anniversary Meeting of the Dutch NMR-DG at Radboud University Nijmegen
Friday 12 October 2007**

1. "What one can learn about polymers networks using solid-state NMR?"
V.M. Litvinov, (Solid-state NMR, DSM Resolve, Geleen)
2. "Real-time NMR. How fast can we do it?"
V.M. Litvinov, A.A. Dias (Solid-state NMR, DSM Resolve, Geleen)
3. "Photo-CIDNP MAS NMR on photosynthetic reaction centres"
Jörg Matysik (Leiden Institute of Chemistry, University of Leiden)
4. "Photo-CIDNP observed in isolated membrane fragments of *Heliobacillus mobilis* by ¹³C MAS NMR"
Esha Roy, Alia, Thierry Rohmer, Peter Gast, Gunnar Jeschke, Jörg Matysik
(Leiden Institute of Chemistry, University of Leiden)
5. "Nanosecond-flash photo-CIDNP in a bacterial reaction centre"
Eugenio Daviso, Anna Diller, Shipra Prakash, Alia, Peter Gast, Gunnar Jeschke, Jörg Matysik (Leiden Institute of Chemistry, University of Leiden)
6. "CP/MAS NMR on phytochrome Cph1Δ2: Protonation state and dynamics of the tetrapyrrole cofactor"
Thierry Rohmer, Holger Strauss, Huub de Groot, Peter Schmieder, Jon Hughes, Wolfgang Gärtner, Jörg Matysik (Leiden Institute of Chemistry, University of Leiden)
7. "Combination of the solid-state photo-CIDNP effect and selective isotope labeling"
Karthick Babu Sai Sankar Gupta, Alia, Anna Diller, Eugenio Daviso, Peter Gast, Huub de Groot, Gunnar Jeschke and Jörg Matysik (Leiden Institute of Chemistry, University of Leiden)
8. "The temperature dependence of the solid-state photo-CIDNP effect"
Geertje J. Janssen, Eugenio Daviso, A. Alia, Shipra Prakash, Peter Gast, Gunnar Jeschke, Jörg Matysik (Leiden Institute of Chemistry, University of Leiden)

10. “Probing the meso- and microstructural heterogeneity of low dense networks with dendrimer probes and NMR/MRI diffusometry”

Gert-Jan W. Goudappel¹, Magnus Nydén², John P.M. van Duynhoven¹

¹ Unilever Food and Health Research Centre, Unilever Vlaardingen

² Applied Surface Chemistry, Chalmers University of Technology, Göteborg, Sweden

11. “NMR investigation of hydrogen storage materials”

Margriet Verkuijlen, Jan van Bentum, Arno Kentgens

(Physical Chemistry / Solid State NMR, Institute for Molecules and Materials, Radboud University Nijmegen)

Bernard Dam (Condensed Matter Physics, Vrije Universiteit Amsterdam)

Michiel van Setten, Gilles de Wijs, Rob de Groot (Electronic Structure of Materials, Institute for Molecules and Materials, Radboud University Nijmegen)

Kees Balde, Harry Bitter, Petra de Jongh, Krijn de Jong (Inorganic Chemistry and Catalysis, Utrecht University)

12. “HRMAS NMR Spectroscopy for the Investigation of Grafted Organotin Catalysts at the Solid-Liquid Interface”

Vanja Pinoie, Kevin Poelmans, Ingrid Verbruggen, Monique Biesemans, Rudolph Willem (High Resolution NMR Centre, Department of Materials and Chemistry, Vrije Universiteit Brussel)

13. “Latest developments on the study of N,N',N" triacetylchitotriose binding elderberry lectin. What does DOSY say about the binding stoichiometry”

Camelia Mihai¹, José C. Martins², Lieven Buts³, Willy Peumans⁴, Els Van Damme⁴, and Rudolph Willem¹

¹ MACH-HNMR Centre, Vrije Universiteit Brussel, Belgium

² Vakgroep Organische Scheikunde, NMR en Structuur Analyse, Universiteit Gent

³ Dienst Ultrastructuur-VIB, Vrije Universiteit Brussel, Belgium

⁴ Vakgroep Moleculaire Biologie, Universiteit Gent, Belgium

14. “The structure of the lanthanide aquo ions in solution as studied by 17O NMR spectroscopy and DFT calculation”

Kristina Djanashvili, Carlos Platas-Iglesias and Joop A. Peters

Delft University of Technology, Biocatalysis and Organic Chemistry

15. “Towards highly efficient Contrast Agents for molecular imaging by means of MRI”

M. Norek, J.A. Peters (Biocatalysis and Organic Chemistry, Department of Biotechnology, TUDelft)

16. “Site-directed spin-label ESR approach to protein structures”
Janez Strancar, Primoz Ziherl, Aleh A. Kavalenka, David Stopar, and Marcus A. Hemminga (Laboratory of Biophysics, Wageningen University)
17. “¹H NMR metabolite profiling of faeces as a tool to assess the impact of nutrition on the human microbiome”
Doris M. Jacobs, Nancy Deltimple, Ewoud van Velzen, Max Bingham, John van Duynhoven (Unilever Food and Health Research Institute, Vlaardingen)
18. “TD and CP-MAS spectroscopy to study water as a plasticizer in food materials”
M. Witek, H. Van As, W. Weglarz, J. van Duynhoven (Wageningen University, Lab of Biophysics and Wageningen NMR Centre)
19. “MRI of radial and axial water transport in trees”
N. Homan, F. Vergeldt, E. Gerkema, H. van As (Wageningen University, Lab of Biophysics and Wageningen NMR Centre)
20. “Flow MRI teaches us some lessons on hydraulic conductivity in trees”
H. van As, C. Windt, N. Homan, E. Gerkema, F. Vergeldt (Wageningen University, Lab of Biophysics and Wageningen NMR Centre)
21. “Investigating cheese pressing by NMR and MRI”
B. Venne, D. Polders, F. Vergeldt, H. van As (Wageningen University, Lab of Biophysics and Wageningen NMR Centre)
22. “MRI flow imaging of long distance transport to fruits”
C. Windt, E. Gerkema, H. van As (Wageningen University, Lab of Biophysics and Wageningen NMR Centre)
23. “Imaging moisture ingress in cereal crackers: an SPI study”
C. Windt, F. Vergeldt, W. Weglarz, J. van Duynhoven (Wageningen University, Lab of Biophysics and Wageningen NMR Centre)
24. “Multilevel data analysis in a crossover designed nutritional metabolomic study”
Ewoud J.J. van Velzen, Johan A. Westerhuis, Age K. Smilde, John P.M. van Duynhoven, Ferdi A. van Dorsten, Doris Jacobs and Richard Draijer (Unilever)
25. “RF heating in multinuclear biomolecular NMR. Implications for relaxation dispersion NMR experiments”
K.Tamiola, K.Dijkstra and F.A.A. Mulder (Department of Biophysical Chemistry, University of Groningen)

26. “Tracking of immune cells using paramagnetic particles in an animal model for multiple sclerosis”

Kurt Baeten, Jerome J.A. Hendriks, Niels Hellings, Evi Theunissen, Leen De Ryck, Piet Stinissen, Jan Gelan and Peter Adriaensens (Hasselt University and School of Life Sciences of the Transnational University Limburg, Belgium)

27. “Characterizing Colloidal Nanocrystals with NMR by looking at the Capping Ligand”

Bernd Fritzing¹, Iwan Moreels², Petra Lommens², Zeger Hens² and José C. Martins¹

¹ NMR and Structure Analysis Unit, Department of Organic Chemistry and

² Physical Chemistry of Nanomaterials, Department of Inorganic and Physical Chemistry, Universiteit Gent, Belgium

28. “Rapid assessment of grape extract composition by ¹H NMR”

E. Van Velzen, M.F.H. Klinkenberg, J.P.M. van Duynhoven (Unilever Food and Health Research Institute, Vlaardingen)

29. “Solid-state NMR study on chemical crosslinks, chain entanglements and network heterogeneity in peroxide-cured EPDM”

Ramona A. Orza^{1,3}, Pieter C.M.M. Magusin¹, Victor M. Litvinov^{2,3}, Martin van Duin², M. A. J. Michels^{1,3}

¹ Eindhoven University of Technology

² DSM Research, Geleen

³ Dutch Polymer Institute, Eindhoven

30. “Fire spalling of concrete as studied by NMR”

Gijs van der Heijden, Leo Pel, Henk Huinink and Klaas Kopinga (Eindhoven University of Technology)

31. “Alkyd coatings studied with high resolution NMR”

Bart Erich, Leo Pel, Henk Huinink and Klaas Kopinga (Eindhoven University of Technology)

32. “Salt crystallization pressure inside porous building materials as studied by NMR”

Leo Pel, Henk Huinink, Lourens Rijniers and Klaas Kopinga (Eindhoven University of Technology)

33. “Folding of single repeats of the LDL receptor ligand binding region”

J.P. Smit, H. Zabranska, T. Wassenaar, I. Braakman and R. Boelens (Utrecht University)

34. “Hydrogen Storage in Magnesium Alloys with Transition Metals: Hydrogen Siting Dynamics studied with ^1H and ^2H NMR”

Pieter C.M.M. Magusin¹, W.P. Kalisvaart¹, S.Subramanian¹, P.H.L. Notten², R.A. Van Santen¹, M.S. Conradi³, R.C. Bowman⁴, Sonjong Hwang⁴

¹ Eindhoven University of technology

² Philips Research Laboratories, Eindhoven

³ Washington University, St Louis, USA

⁴ Caltech and Jet Propulsion Lab, Pasadena, USA

35. “NMR studies of FepB: ligand binding and protein dynamics”

Renee Otten¹, Karla D. Krewulak², Hans J. Vogel² and Frans A.A. Mulder¹

¹ Groningen Biomolecular Sciences and Biotechnology Institute (GBB),

Department of Biophysical Chemistry, University of Groningen

² Structural Biology Research Group, Department of Biological Sciences, University of Calgary, Canada

36. “Dynamics and interaction of two (partially) unstructured viral protein domains”

Klaartje Houben^{1#}, Laurence Blanchard¹, Nicolas Tarbouriech², Martin Blackledge¹, Rob Ruigrok² and Dominique Marion¹

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² Unit of virus host cell interactions UMR 5233 UJF-EMBL-CNRS, Grenoble, France

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37. “100% complete assignment of non-labile ^1H , ^{13}C , and ^{15}N signals for calcium-loaded Calbindin D9K P43G”

Nur Alia Oktaviani, Klaas Dijkstra, Renee Otten, Ruud M. Scheek and Frans A.A. Mulder (Groningen University)

38. “Cut and Paste: Domain Ligation Approach for Large Proteins”

G.E. Karagöz, O. Hsieh and S. Rüdiger

(Utrecht University, Bijvoet Center for Biomolecular Research, Cellular Protein Chemistry Section)

39. Floris Meilof (Buchem B.V./ ARC Technologies, Apeldoorn)