

Symposium on Advanced Analysis 2009

[Biqualyys BV](#) in co-operation with [Wageningen NMR Centre](#)

18-19 June 2009

Location: [Hotel de Bilderberg, Oosterbeek](#)
(Utrechtseweg 261)

To register: <http://www.wnmrc.wur.nl/UK/LSF/User+Meeting+2009/Registration+form/>

User meeting WNMRC 2009

Thursday, June 18: MRI meets plants

13.30 – 13.50 Henk Van As (WNMRC): **Welcome and intro to some MRI basics**

13.50 – 14.25 Carel Windt (FZJülich, Germany): **How variable is phloem sap flow velocity?**

14.25 – 14.55 Andreas Peuke (ADP, Gundelfingen, Germany): **Modelling of nutrient flows in intact plants**

14.55 – 15.25 Patrick Fonti (Switzerland): **MRI meets Wood anatomy: a pilot study on Oak**

15.25 – 16.00: Coffee, tea, drinks

16.00 – 16.25 Natalia Homan (Biophysics, WU): **Radial and axial transport: coupling between xylem and storage tissues in trees**

16.25 – 16.50 Henk Van As (in cooperation with Sperry (Salt Lake City, Utah): **In vivo cavitation vulnerability curves in Oak in relation to storage capacity.**

17.00 – 17.30 Maciek Lubczynski (ITC, Enschede NL): **The role of NMR sensing and MRI to study the impact of trees upon groundwater**

17.30 – 18.00 Gabi Schaumann (Koblenz/Landau, Germany): **NMR relaxometry to study soil porosity and SOM**

18.30 – 20.00: **Dinner**

20.15 – 21.45: Discussion meeting: EU meets MRI and Plants

Biqualyys BV, The Advanced Analysis Company

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Op alle diensten van Biqualyys BV zijn onze algemene voorwaarden van toepassing welke zijn gedeponneerd bij

de KvK te Arnhem onder nummer: 09169428.



Friday, June 19:

9.00 – 12.15 User meeting WNMRC 2009

9.00 – 9.15 Henk Van As (WNMRC): **New developments (equipment, techniques) and status of EC contract**

9.15 – 9.45 Andreas Pohlmeier (FZJülich, Germany): **Water flow visualized by tracer transport in root-soil-systems using MRI**

9.45 – 10.15 Jan Bartacek (Prague, Czech Rep): **MRI applied to measure iron transport in anaerobic granular biofilm**

10.15 – 10.45 Katerina Rokhina (Finland): **Advanced analytical application of NMR- and ESR-spin trapping (ST) method for a comprehensive study of catalyst/PAA/US system for phenol degradation**

10.45 – 11.15 Coffee, tea, drinks

11.15 – 11.35 Elena Golovina (Biophysics, WU): **A combined ESR and NMR spin trap approach to quantify anti-oxidant capacity of extracts**

11.35 – 12.00 Zoltan Gombos (Szeged, Hungary; not yet confirmed): A comparison by $^{13}\text{C}/^{31}\text{P}$ -NMR of *Synechocystis* and *Chlamidomonas* cells that differ in their compartmental volumes under equal conditions of actinic illumination.

12.00 – 12.30 Amaya Castro-Ruiz (Barcelona, Spain): **Identification of neo-clerodane diterpenes from genus *Teucrium*, Labiatae.**

12.30 – 13.30: **Lunch**

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13.30 – 14.00 Ton van Leerdam (KWR Water Cycle Research Institute): **Identification of unknown alarm compounds in surface water by the combination of LC-FTMS and NMR**

14.00 – 14.30 Jacques Vervoort (Biqualy's): **New developments in high throughput hyphenated LC-SPE-NMR/MS**

14.30 – 15.00 Kasper Hettinga (DPQ, WU): **Milk proteomics**

15.00 – 15.30 Coffee, tea, drinks

15.30 – 16.00 Agah Ince (Virology, WU): **Proteomics analysis of Chilo iridescent virus particles**

16.00 – 16.30 John van Duynhoven (Unilever, Vlaardingen): **The impact of dietary polyphenols on humans: NMR-based metabonomics applied to human and in-vitro gut model intervention studies**

16.30 - Closure and drinks