

Mobile NMR for Art Diagnostics

RWTH, Aachen University, April 28 – 29, 2011



Programme

Thursday, April 28, 2011

09:00 Opening

09:15 Diagnostics of Art and Cultural Heritage by NMR (*B. Blümich*)

09:45 Principles of NMR (*S. Haber-Pohlmeier*)

10:45 *Break*

11:15 Mobile NMR devices (*F. Casanova*)

12:30 *Lunch*

14:00 How to measure: relaxation and depth profiles (*W. Zia*)

14:45 How to process the data (*W. Zia*)

15:30 How to interpret the data (*W. Zia*)

16:00 *Break*

16:30 Exercises in parallel groups

a) Easel and wall paintings

b) Stone and mortar

c) Bones, paper, and wood

18:00 Wrap-up reports from each group

19:00 *Dinner*

Friday, April 29, 2011

09:00 NMR of paintings (*F. Presciutti*)

09:35 NMR of buildings (*E. Del Federico*)

10:10 NMR of mummies and bones (*B. Blümich*)

10:30 *Break*

11:00 Exercises in parallel groups

a) Bones, paper, and wood

b) Easel and wall paintings

c) Stone and mortar

13:00 *Lunch*

14:30 Exercises in parallel groups

a) Stone and mortar

b) Bones, paper, and wood

c) Easel and wall paintings

16:00 *Break*

16:30 Developments in Mobile NMR

17:15 Wrap-up and conclusion

An NMR tutorial publication is foreseen, especially addressed to art conservators.