

NMR Workshop

January 20th-21st 2019

Held in conjunction with the 40th Danish NMR meeting at

*Musholm Konference Center
Musholmsvej 100, 4220 Korsør*

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PROGRAMME

12.00 – 13.00 Lunch

13.00 – 16.00 Session 1

13.00 – 13.05 Welcome by Kaare Teilum

13.05 – 13.45 Lecture 1: Setting the scene

Lecturer: Paul Schanda

Keywords: Interactions (Zeeman, dipolar, CSA, J coupling). Tensors, spherical harmonics & rotations, averaging of interactions (isotropic, anisotropic), principles of relaxation theory and solids (“pictorial” – just to make it easier to connect the later more theoretical lectures)

13.50 - 14.00 Break

14.00 – 14.35 Lecture 2: Introduction to solids

Lecturer: Paul Schanda

Keywords: The difference to solution state NMR, REDOR, recoupling.

14.35 – 16.00 Problem solving highlighting key points and practical data analysis

16.00 – 16.30 Break

16.30 – 18 Session 2 part a

16.30 – 17.15 Lecture 3: Molecular motions and rates

Lecturer: Mikael Akke

Keywords: Stochastic processes, Relaxation mechanisms, Correlation functions, Spectral densities, Order parameters

17.15 – 18.00 Lecture 4: Redfield theory

Lecturer: Art Palmer

Keywords: The essentials (also for solids)

18.00 – 19.00 Dinner

19.00 – 20.30 Session 2 part b

19.00 – 20.30 Problem solving highlighting key points and practical data analysis

Monday, 21st

9.00 – 12.00 Session 3

9.00 – 10.00 Lecture 5: Chemical exchange

Lecturer: Art Palmer

Keywords: *Relaxation dispersion and CEST*

10.00 – 10.15 Break

10.15 – 12.00 Problem solving highlighting key points and practical data analysis