

Nuclear-Magnetic-Resonance spectroscopy (NMR)

22-26 August 2016, 09:00 - 17:30, 5 days

Radboud University, Huygens building, Nijmegen

Content

This five-day course is a combination of tutorials, lectures and practicals. In the mornings lectures on NMR will be taught on the basis of the book "Applied NMR Spectroscopy for Chemists and Life Scientists" by Oliver Zerbe and Simon Jurt. The lectures also contain a practical part, using tutorials from the book. In the afternoons the program will continue with lectures on the most important applications of NMR, taught by experts from academia and industry. At the end of the day you will work on a case using a NMR spectrometer. The obtained data will be used to elucidate the structure of small molecules. The course is given in English.

Target audience

This course is taught in the framework of the MSc+ program for talents in Master (university) education. The course is also aimed at PhD-students in analytical sciences or related fields who are not specialized in NMR (ANAC-basic course). Finally, the course is suitable for graduates (BSc, MSc and PhD) interested in NMR and seeking additional knowledge and understanding.

Topics

Program to be established

Schedule: 09:00 - 17:00 (except for Monday, start 10:00)

Topics:

- Introduction to Modern NMR
- Structural Biology
- Materials Science
- Metabolomics
- MRI & MRS
- Diffusion
- Paramagnetic NMR
- NMR in Industry
- Exercise classes with exercises and/or experiments
- Practical Hands-on NMR training

Lecturers

To be announced soon:

Coordinated by:

Prof. Dr. Arno Kentgens is Professor of Physical Chemistry/Solid State NMR Spectroscopy at the Institute for molecules and materials at Radboud University, Nijmegen. The Kentgens group of Radboud University is one of the partners in the Dutch National Roadmap for large-scale NMR facilities (uNMR-NL) and director of the Netherlands' Magnetic Resonance Research School (NMARRS). Kentgens studied physical chemistry at the University of Nijmegen and completed his PhD thesis on the development of two-dimensional solid-state NMR in 1987.

At the end of the course

You will have (re-)gained a good understanding of the basic principles of NMR and you will have gained detailed knowledge on key experiments used for chemical analysis. Furthermore you will have a good overview of the diverse application areas of magnetic resonance.

Course duration and time investment

Course duration: 5 days, 09:00 - 17:00

Participant's investment: 5 days + optional self-study

Extra Information

This course is taught as a Summer Course in the MSc+ program and is taught every two years.

Course fees:

- €800 (ex. BTW/VAT) per day
- COAST members pay a reduced fee of €400 per day (ex. BTW/VAT) or use a wildcard
- ASTP / MSc+ students: Free

Special fees can be offered to PhD students and companies registering for three or more persons.

For up-to-date information about the course program visit our website at www.ti-coast.com/L3.

Please contact us for more information.

Registration

To register fill out, sign and email the form attached to lifelonglearning@ti-coast.com.

Registration Form

Nuclear-Magnetic-Resonance Spectroscopy

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Radboud University, Huygens building, Heyendaalseweg 135, Nijmegen

Name	
Organization	
Address	
Billing address (if different from above)	
Educational background	
Email address	
Phone number	

I will attend on the following date(s):

- ☐ Day one: Monday August 2016, 10:00 - 17:30
☐ Day two: Tuesday August 2016, 09:00 - 17:30
☐ Day three: Wednesday August 2016, 09:00 - 18:30
☐ Day four: Thursday August 2016, 09:00 - 17:30
☐ Day five: Friday August 2016, 09:00 - 17:00

Payment

- ☐ I will pay the full course fee of €800 per day (ex. BTW/VAT)
☐ I am a member of KNCV and will pay € 600 per day (ex. BTW/VAT)
☐ I qualify for 50% discount, because my employer is a COAST participant, and will pay €400 per day (ex. BTW/VAT)
☐ I am a PhD student and will pay €400 per day (ex. BTW/VAT)
☐ I am a PhD student from a group participating in COAST and will pay €200 (ex. BTW/VAT) per day
☐ I have received a wildcard from: Therefore, I will follow this course for free (note: this person must receive a copy of your registration mail, to indicate approval)

Date:

Place:

Signature:

To register, please email the duly signed registration form to lifelonglearning@ti-coast.com

TI-COAST: A joint Private-Public initiative

Contact: Iris de Lange | T: +31 20 525 8393 | E: lifelonglearning@ti-coast.com | www.ti-coast.com

MSc⁺ Summer Course: Nuclear-Magnetic-Resonance Spectroscopy

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