Come and learn about liquid and solid state NMR spectroscopy from the scientists of the Scottish NMR Users Group (SNUG).

This 1.5 day course is aimed at postgraduate students and PDRAs who would like to advance their undergraduate knowledge of NMR. The course is free of charge for members of Scottish universities and industrial researchers. **This course is compulsory for all new users of the Edinburgh NMR facility.** The programme is detailed on the next page.

The deadline for registration is 26th November 2019. Please register at: [https://edin.ac/2qWz3Vd](https://edin.ac/2qWz3Vd)

If you are a PhD student outside of Edinburgh and need financial assistance to attend this course, we will reimburse travel and accommodation costs for the 2nd of December. To apply for this bursary please e-mail [elaine.adair@ed.ac.uk](mailto:elaine.adair@ed.ac.uk) stating your status. Following an acknowledgment email, book yourself accommodation in one of the suggested hotels. To keep the costs down, please book once you are certain you could come and before 26th November 2019.

**Travelodge Cameron Toll**
**Best Western Braid Hills**
**Salisbury Green Hotel**

You will receive an expenses claim form when you come to attend the course. **Copies of receipts will be required when you submit your claim.**

More information about NMR and its presence at Scottish Universities and institutions can be found at [www.snuq.ac.uk](http://www.snuq.ac.uk).

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**We are grateful to our sponsors for supporting this course!**

[Logos of Cambrex, Bruker, and Magritek]
**Scottish NMR User Group 2019 Postgraduate Course in NMR Spectroscopy**

*School of Chemistry University of Edinburgh, David Brewster Rd, Edinburgh EH9 3FJ*  
*December 2-3, 2019, Rooms T100/T250*

### Monday, December 2

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<th>Time</th>
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| 9.30 – 9.35 | Prof Dušan Uhrín  
University of Edinburgh | Opening Remarks                                       |
| 9.35 – 10.20 | Prof Dušan Uhrín | Introduction to NMR spectroscopy                   |
| 10.20 – 10.40 | Dr David Ellis,  
Heriot-Watt | Diffusion Ordered Spectroscopy (DOSY)               |
| 10.40 – 11.00 | **BREAK** (tea, coffee served) |                                                      |
| 11.00-11.50 | Prof Marcel Jaspars  
University of Aberdeen | Strategy for Solving the Structure of Small Molecule Natural Products |
| 11.50 – 12.20 | Dr John Parkinson  
University of Strathclyde | NMR of Biomolecules – a Brief Overview               |
| 12.20 – 14.00 | **Lunch** (provided). Meet the sponsors |                                                      |
| 14.00 – 14.20 | Dr Claire Dickson  
University of Edinburgh | Benchtop NMR                                         |
| 14.20 – 16.30 | Dr John Parkinson | An example class: structure determination by NMR     |

### Tuesday, December 3

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<tr>
<th>Time</th>
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<th>Talk title</th>
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| 9.00 – 9.50 | Dr Daniel Dawson  
University of St Andrews | Anisotropic Interactions and High-Resolution NMR in Solids |
| 9.50 – 10.15 | Prof Dušan Uhrín | Chemical Exchange in NMR Spectra                    |
| 10.15 – 10.40 | Ms Yael Ben-tal  
University of Edinburgh | NMR and Kinetics                                    |
| 10.40 – 11.10 | **BREAK** (tea, coffee served) |                                                      |
| 11.10 – 12.00 | Dr Daniel Dawson  
University of St Andrews | Structure, Disorder and Dynamics - Applications of Solid-State NMR |
| 12.00 – 12.30 | Dr Dan Fletcher  
University of Dundee | Fragment Screening by NMR                           |
| 12.30 – 12.50 | Mr Alan Smith  
University of Edinburgh | NMR and Multivariate Analysis of Mixtures            |
| 12.50 – 14.00 | **Lunch** for external participants |                                                      |