



The organisers of The Nigel Botting Meeting for Teachers of Chemistry thank the **RSC**, **SSERC** and the **University of St Andrews** for their continued support.

The meeting will be held in the main auditorium of the **Byre Theatre** in St Andrews (KY16 9LA). The map overleaf shows its location. Registration will be at the main entrance.

The Byre Theatre DOES NOT have a car park, however there are public car parks (**P** see map) in town, some free.

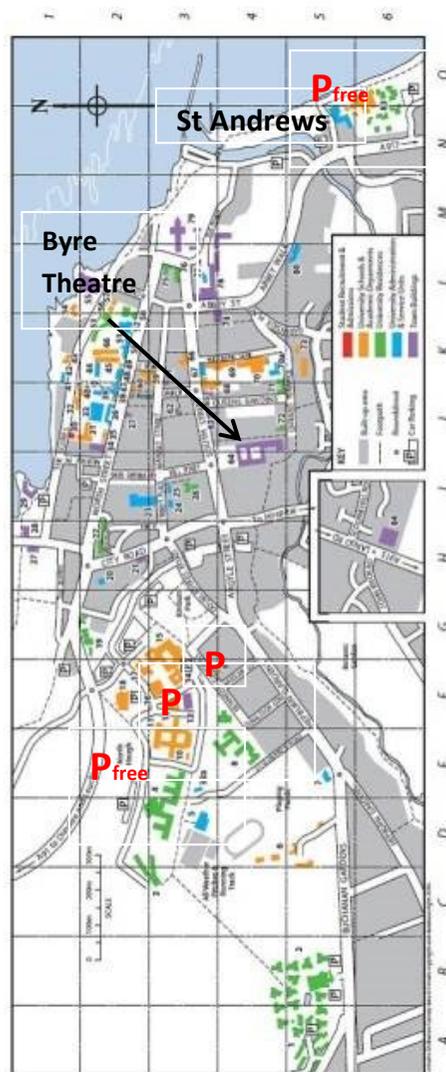
Registration Details

Due to generous sponsorship, **there is no conference fee**, however prior registration is required. To register for a place, please use the online form linked below.

www.st-andrews.ac.uk/chemistry/outreach/schools/

A buffet lunch and refreshments will be provided free of charge.

Enquiries to Professor David O'Hagan
School of Chemistry, St Andrews
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The University of St Andrews is a charity registered in Scotland, No: SC013532

The Nigel Botting Meeting for Teachers of Chemistry

22nd National Scottish Meeting

Chemistry at the Byre Theatre St Andrews



Friday 1st June 2018

Chemistry at the Byre

PROGRAMME (Subject to change)

09.45-10.05 Registration and Refreshments

MORNING SESSION

- 10.10 Welcome and introduction**
David O'Hagan
(Head of Chemistry, St Andrews University)
- 10.15 Web-based Peer-Produced Learning Resources for Higher level Chemistry**
Peter Hoare (University of Newcastle)
- 10.40 SQA and Higher chemistry**
Bill Beveridge /Lesley Jackson (SQA)
- 11.25 The earliest Periodic Table?**

Alan Aitken (St Andrews University)

- 11.45 The virtual lab**
Kevin Jones (CRITICAT CDT)
- 12.15 Lunch and Exhibitions**
AFTERNOON SESSION (Chair: Morag Easson, RSC)
- 13.30 Motivate, inspire & have fun as you teach**
Phil Wooton (The Royal High School)
- 13.55 RSC Education update**
Heather Milton/Nicola Jordon (RSC Education Coordinators)
- 14.10 Biomedical innovation with metal organic frameworks**
Stewart Warrender (MOF-GEN)
- 14.25 Coffee Break**
(Chair: Chris Lloyd, SSERC)
- 14.55 Drugs from the deep**
Marcel Jaspars (University of Aberdeen)
- 15.40 Departure**

All lectures will be held in the main auditorium of the Byre Theatre,

The 22nd Meeting of "The Nigel Botting Meeting for Teachers of Chemistry" is delighted to offer delegates **FREE** registration thanks to the generous sponsorship from the University of St Andrews, The Royal Society for Chemistry and SSERC.

This year's conference moves to a new venue, the splendid Byre theatre. The Byre is now managed in a partnership between the University and Fife Council, and it has become an important venue for educational as well as art events. This is very much a trial venue and we would appreciate your feedback in due course. Hopefully the meeting will be suitably dramatic to impress!

The meeting will begin with **Peter Hoare** from **The University of Newcastle**. Peter has been running Outreach programmes for many years at the Chemistry department at Newcastle and has a fantastic insight into effective University-Schools interactions, particularly associated with Chemistry. Next, **Bill Beveridge** and **Lesley Jackson** will lead a discussion on current updates associated with Higher chemistry and the SQA, with time for questions. **Alan Aitken** of the School of Chemistry at St Andrews will reveal in public for the first

time, what we believe to be the earliest representation of a Periodic Table for teaching purposes. The 'St Andrews Table' was found deep under a lecture theatre in the Purdie Building, kept in storage and essentially lost until it was unearthed in 2014. It dates to the late 1880s, and may be the earliest Periodic Table known. **Dr Kevin Jones** leads PG Teaching within a Centre for Doctoral Training (CDT) at St Andrews, but encompassing Edinburgh and Heriot Watt Universities. He will present a virtual lab experience which he has developed with computer game designers at the University of Dundee.

Lunch will be served at the close of the first session. The exhibition area and tea/coffee will be available as usual and with time for delegates to explore the **exhibitions** and to chat with each other before resuming their seats in the theatre for the **afternoon session**.

The Royal Society of Chemistry (RSC) continues to provide excellent support for chemistry education in Scotland. **Heather Milton** and **Nicola Jordon**, the RSC's Education coordinators will provide an update of their activities and current links to schools. Please talk with them at their exhibition stand at breaks throughout the day. Next, chemistry teacher, **Phil Wooton**, who is becoming acclaimed for his motivational tips and talks, will share his inspiration and experiences with us. His enthusiasm and humour in teaching is bound to be infectious.

Stuart Warrender works for a local spin out company called MOF-GEN which is developing zeolites which can release nitric oxide as an antibiotic and also vasodilator. These materials have applications in surgical stents, and he will outline the development of products and company. We are delighted to have **Marcel Jaspars** from the University of Aberdeen finish the programme with an account of his activity in discovering drugs from marine organisms. The oceans remain untapped in their potential to deliver new anti-infectives...look out for interesting science and wonderful images of coral reefs!