

# A Pinch of Salt!



November 2010  
Issue 37

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SALTERS'  
Festivals  
*of Chemistry*

SALTERS'  
*Chemistry*  
Camps

The SALTERS'  
*Chemistry*  
Club

**Welcome back to another issue of A Pinch of Salt! packed full of information about the Salters' Institute activities in 2011.**

2011 brings another record breaking year for the Salters' Institute with **19 Salters' Chemistry Camps** due to take place at selected Universities between June and August. Preparations are also underway for the **Salters' Festivals of Chemistry** which will be hosted at Universities throughout the UK and Ireland between March and June 2011.

There are **51 Festivals of Chemistry** taking place in 2011. Schools are invited to enter one team of four students from **Years 7 and/or 8 (or equivalent)** to participate in these popular events. Places are allocated on a first-come-first-served basis so ensure that you enter early to avoid disappointment. The closing date for entries is **31 January 2011**.

Participating students will enjoy two practical Chemistry challenges in University laboratories, and exciting chemical demonstrations!

Winning schools are presented with prizes during a Prizegiving Ceremony at the end of the day, with all participants receiving a fun prize and certificate.

**The Salters' Chemistry Camps** are residential events for students from **Year 10 (or equivalent)**. Participants can learn more about Chemistry while gaining a taste of University life - staying in the Halls of Residence and socialising with new friends during the evening activities.

**FURTHER DETAILS INSIDE.....**



**The Salters' Institute is a Registered Charity No. 328463**

The Salters' Institute is the flagship charity of the Salters' Company (a City of London Livery Company)

# Institute News

## **Salters' National Awards for Science Technicians 2011**

If you have a hard working technician at your school or college that deserves recognition, then please nominate them for the **Salters' National Awards for Science Technicians 2011**.

The Headteacher or Head of Science in schools and colleges with students up to the age of 18, can nominate a technician with 5 or more years experience.

You can download nomination forms online by visiting our website, or contacting the Publicity Co-ordinator (all details below).

Tracey Insuli from the Coloma Convent Girls' School (pictured above right) has provided an account of her experience when she won one of the Awards in 2009:

*"I actually felt very moved that the teachers at my school took time out of their extremely busy working day to nominate me for the Salters' National Awards for Science Technicians 2009.*

*They were all so excited when we found out I was on the shortlist. I was surprised that I had been chosen, and felt a little nervous as the day the judges were coming approached. There was no need to be. The judges were so friendly and were genuinely interested in how I worked day to day, and in the Science Club I run twice a week after school.*

*I and the whole science department were so pleased when we found out I had won an award. In fact, members of the whole school community - both staff and pupils - were very supportive, and I even made it into the local paper!*

*The Awards Ceremony was a very special day, particularly as my husband was able to attend. Everyone was so friendly, and made me feel so appreciated for what I do. It left me with many very happy memories."*

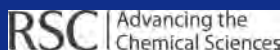


*Salters' National Awards for Science Technicians Winners 2009 - (Pictured above l to r) Caroline Pinder, Colin Littlewood and Tracey Insuli*

## **E-Newsletter**

The paper version of A Pinch of Salt! will soon be phased out but our E-newsletter is currently available. Visit our website and click on 'Subscribe now!' for regular updates on all the Institute activities directly to your inbox!

## **The RSC Bill Bryson Prize for Science Communication 2011**



Looking for ways to help your students gain a greater confidence in their writing and a sense of achievement?

The RSC Bill Bryson Prize 2011, an engaging and popular science writing competition for primary and secondary schools offers just that.

The winning schools and students win a cash prize, get their work

published on the RSC website and get the chance to meet the author. This year to celebrate the International Year of Chemistry in 2011, which provides the theme for this year's competition, there is also an entry category for non-UK schools. The closing date is **31 March 2011**.

[www.rsc.org/billbrysonprize](http://www.rsc.org/billbrysonprize)

## **Book Grants**

Book grants of up to £500 are available to schools who follow the following Salters' Curricula:

Salters-Nuffield Advanced Biology  
Salters Advanced Chemistry  
Salters Horners Advanced Physics

You can apply online by visiting our website. The closing date for applications is **30 April 2011**.

## **Farewell to Stephanie**



Stephanie Amos, one of our Camps Administrators, has moved on with her career after four successful years with the Institute. We wish her the very best of luck in her new position and welcome a new member of staff, Vicky Gray, to the team.

## **Institute Staff Contacts**



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[publicity@salters.co.uk](mailto:publicity@salters.co.uk)



Miss Michelle Milne  
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# SALTERS' Festivals of Chemistry

*"...they had an absolutely brilliant time and enjoyed every minute...."*

*"...the pupils thoroughly enjoyed themselves and learnt a few things on the way..."*

*"...I wish that I could go again next year..."*

*"...it was a smooth and well planned day. My students had a great time..."*



*"...The opportunities that you have given them through your Camps have confirmed that both our sons want to continue their Chemistry to A Level..."*

*"...The chance to experience a small slice of university life and to carry out experiments using new equipment has been a great opportunity..."*

*"...the students have been raving about the Camps since their return and refuse to take off their Camps t-shirts..."*



# SALTERS' Chemistry Camps



# SALTERS'

*Chemistry*

# Camps



We are excited to announce that there will be **19** Camps taking place across 10 venues in the summer of **2011**, a record number for the Salters' Chemistry Camps. We are delighted to welcome The University of St Andrews and Imperial College London back on board next year.

Each Camp will have four practical activities in the labs, as well as lectures and evening social activities.

**The venues and dates for the 19 Salters' Chemistry Camps in 2011 are as follows: -**  
(Camps run either Monday - Wednesday or Wednesday - Friday)

<i>The University of St Andrews</i>	<i>13-15 June and 15-17 June 2011</i>
<i>Heriot Watt University, Edinburgh</i>	<i>20-22 June and 22-24 June 2011</i>
<i>The University of Nottingham</i>	<i>27-29 June and 29 June-1 July 2011</i>
<i>The University of Bath</i>	<i>11-13 July and 13-15 July 2011</i>
<i>The University of Cambridge</i>	<i>11-13 July and 13-15 July 2011</i>
<i>The University of Leeds</i>	<i>18-20 July and 20-22 July 2011</i>
<i>The University of Manchester</i>	<i>25-27 July and 27-29 July 2011</i>
<i>Imperial College London</i>	<i>3-5 August 2011</i>
<i>The University of Sussex</i>	<i>15-17 August and 17-19 August 2011</i>
<i>The University of York</i>	<i>15-17 August and 17-19 August 2011</i>

### Who is eligible?

The Salters' Chemistry Camps are open to students at all secondary schools in the UK and the Republic of Ireland and teachers may nominate FOUR Year 10 students (S3 in Scotland, Year 11 in Northern Ireland and Year 3 in the Republic of Ireland) from their school. Please note a maximum of two students of the four will be selected for the same Camp.

Fifty student places are available at each Camp and where possible 25 boys and 25 girls will be selected for each one. We are looking for students who are enthusiastic about Chemistry, whether they have already decided to continue studying the subject post-16 or not.

### Cost

Each student will only have to pay a non-refundable course fee of **£90** (the real cost of a student attending a Camp is £250-£300) and the student, or their school, will be expected to cover travel expenses. Payment will only be requested once the students have been selected.

To make the most of this opportunity it is important that students are able to participate for the entire Camp. Therefore, we urge you to check in advance in case your students have **examinations** or **work experience**, for example, which could clash with any Camps. Please note however, that the arrival time at a Camp is not until 12 noon, so any commitments on that day need not necessarily exclude them from attending a Camp.

Applications will be considered in the order in which they are received.  
For students to secure a place at the Camp of their choice, they are advised to  
**apply as early as possible.**

Please photocopy additional copies of the application form if required or download the form from our website  
[www.chemistrycamps.co.uk](http://www.chemistrycamps.co.uk)



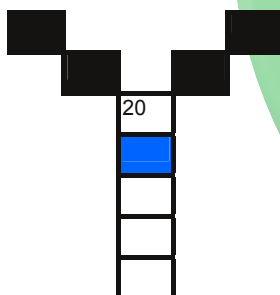
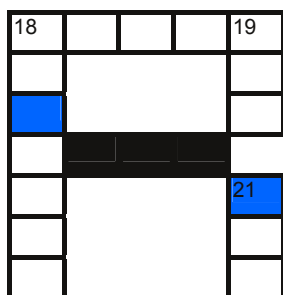
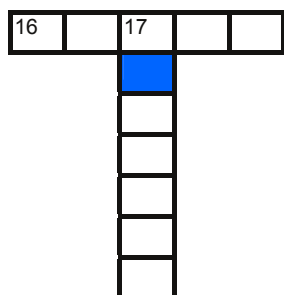
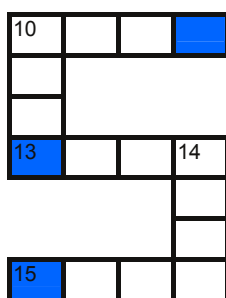
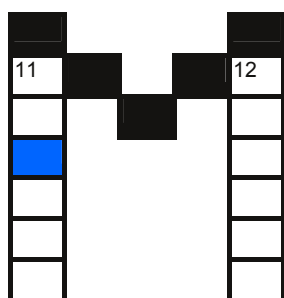
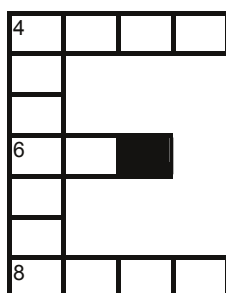
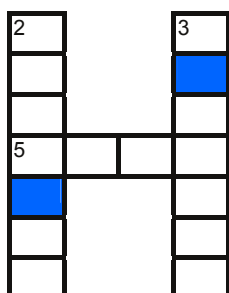
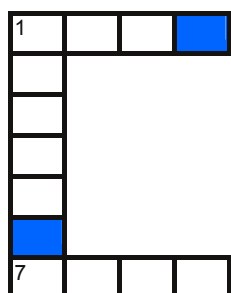
# Competition Time!

A Bit of Fun for your Students!

## CHEMISTRY CROSSWORD

The **SALTERS'**  
Chemistry Club

Entry is  
restricted to  
Years 7, 8 and  
9 only



*The blue shaded squares contain letters which, when arranged in the correct order, form a 2 word valuable chemistry aid.*

### Across

- 1 A solution with a pH between 1-6 (4)
- 4 It provides energy when burnt in engines (4)
- 5 This does not change in a chemical reaction (4)
- 6 The symbol for magnesium (2)
- 7 Sodium chloride (NaCl) is a common.... (4)
- 8 The simplest part of an element (4)
- 10 The colour of copper sulphate (4)
- 13 Use this to stopper a flask (4)
- 15 The opposite of hot (4)
- 16 A yellow, sour fruit (5)
- 18 A sweet substance (5)

### Down

- 1 A solution with a pH of 8-11 (7)
- 2 Anything on the periodic table is an ..... (7)
- 3 You can get a ..... when you evaporate a copper sulphate solution (7)
- 4 Short hand for chemical equations (7)
- 9 You can find acid in this part of the body (7)
- 10 An explosive device (4)
- 11 The paper used for testing pH (6)
- 12 Na is the symbol for..... (6)
- 14 Au is the symbol for.... (4)
- 17 A ..... is a combination of two or more solutions (7)
- 18 Dissolves in water (7)
- 19 ... cabbage makes a good indicator (3)
- 20 The name for H<sub>2</sub>O (5)
- 21 A test tube of hydrogen gas goes ... when a lit splint is applied to it (3)

Answers on a postcard please to:  
Competition Time! 37  
The Salters' Institute, Salters' Hall  
4 Fore Street  
London  
EC2Y 5DE

Schools may enclose multiple entries in one envelope (please ensure correct postage!). Please make sure each entry has student's name, age and school.

The closing date for entries is:  
**31 January 2011**

The first 5 correct answers drawn will receive a bag of Salters' Chemistry Club goodies and 25 runners-up will receive smaller fun prizes!



# Competition Winners!

The **SALTERS'**  
Chemistry Club

## Issue 36

### Chemistry Code Breaker!

(Answer: Magnet)

#### Winners

Omer Fidan  
Holly Jacobs  
Rima Ludhi  
Harry Ohri  
Marcus Welsh

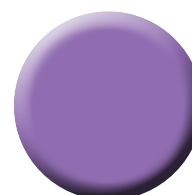
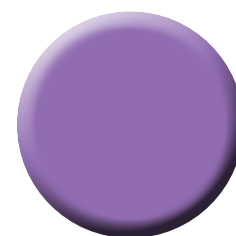
Wheelers Lane Technology College  
Uplands Middle School  
Chase High School  
Hall School Wimbledon  
Notre Dame High School



#### Runners-up

Kalim Amokachi  
Ricky Ashcroft  
Charlotte Bourne  
Clemency Brookfield  
Luke Chamberlain  
Angel Cheng  
Shannon Clare  
Molly Davidson  
Alice Evans  
Jessica Gearing  
Joseph Graham-Jones  
Christopher Halls  
Hazal Hazar  
Declan Hilley  
Ellie Hollis  
Timmy Knifton  
Natasha Leese  
Jack Levermore  
Ying Liang  
Edward Mallen  
Jade Morris  
Emily Oliver  
Alexander Osborne  
Rebecca Parr  
Darren Patterson  
Cameron Robinson  
Owen Stubbs  
Daniel Waldrom  
Joy Wingrave  
Alexia Yelland

Kingsmead School  
Wellacre Technology College  
Dumpton School  
Francis Holland School  
Stopsley High School and Community College  
Ockbrook School  
King Edward VII and Queen Mary School  
Queen Margaret's School  
Walthamstow Hall School  
The Green School  
Austin Friars St. Monica's School  
Chigwell School  
Kelvin Hall School  
The Priory Witham Academy  
Gateways School  
John Warner School  
Eaton Bank School  
Leiston Middle School  
Fairfield High School for Girls  
Melbourn Village College  
King's Norton Girls' School  
Lavant House  
Lanesborough School  
Long Eaton School  
Childwall Sports College  
Garforth Community College  
Bournemouth School  
Holmfirth High School  
Corsham School  
Amberfield School



**Salters' Festivals of Chemistry  
in partnership with  
The Royal Society of Chemistry**

**2011  
ENTRY FORM**

The Salters' Institute, in partnership with the RSC, will be holding **51 Salters' Festivals of Chemistry** between **March and June 2011**. These are one-day events held at various Universities throughout the **UK** and the **Republic of Ireland**.

The morning activity will be a practical challenge ("**The Salters' Challenge**") which will be common to all the Festivals. There will be a second practical challenge in the afternoon chosen by the University ("**The University Challenge**"). These are hands-on activities for which **no advance preparation is required**.

All students taking part will receive **fun prizes and participation certificates**. Prizes will be awarded to the winning schools and members of the winning teams will additionally receive individual prizes and certificates.

Entry is restricted to one team of four students from:-

Years 7 and/or 8 in England and Wales  
Years P7 and/or S1 in Scotland  
Year 8 and/or 9 in Northern Ireland  
Final year primary school and/or Year 1 secondary school in the Republic of Ireland

If you would like to enter a team from your school, please complete and return this form to:-

**Salters' Festivals of Chemistry, Salters' Hall, Fore Street, London, EC2Y 5DE** or by fax to 020 7638 3679 or alternatively enter online via our website **www.festivalsofchemistry.co.uk**

A list of Festival venues and dates is shown overleaf. If we are unable to offer you a place at your preferred choice, we may be able to offer a place at your second choice or nearest alternative venue. Places will be allocated in the order in which entries are received. To secure a place at the Festival of your choice you are advised to **apply as early as possible**.

**Please note that schools who cancel within fourteen days of the Festival, or who fail to show up on the day, will be charged a cancellation fee of £25 (€30). If you need to cancel your entry for any reason it is essential that you contact the Festivals Administrator at The Salters' Institute and not the University Host. Failure to do so will incur the cancellation fee.**

Name of School.....

Address.....

.....Post code.....

Preferred Festival Venue (see overleaf).....

Second choice of Festival Venue.....

Name of Teacher supervising entry  
(in BLOCK CAPITALS).....Job title.....

Telephone.....Fax.....

E-mail (please write clearly).....

We will use this e-mail address to forward to you our E-newsletter, "A Pinch of Salt!"

Please tick here if you do not wish to subscribe to this

I agree to abide by the above conditions of entry. (Please photocopy this form for your records)

Signature.....

**THE CLOSING DATE FOR ENTRIES IS 31 JANUARY 2011**

**SALTERS'**  
**Festivals**  
*of Chemistry*

**Salters' Festivals  
of Chemistry  
2011**

**RSC** | Advancing the  
Chemical Sciences

UNIVERSITY	FESTIVAL DATE	FESTIVAL DAY
Aberystwyth University	8 June	Wednesday
Aston University	11 May	Wednesday
Bangor University	12 April	Tuesday
The University of Bath (1st Festival)	17 May	Tuesday
The University of Bath (2nd Festival)	19 May	Thursday
The University of Bedfordshire (Luton Campus)	25 May	Wednesday
The University of Birmingham (1st Festival)	17 May	Tuesday
The University of Birmingham (2nd Festival)	19 May	Thursday
The University of Bradford	5 May	Thursday
The University of Brighton	6 June	Monday
The University of Bristol	16 May	Monday
The University of Cambridge	23 March	Wednesday
Cardiff University	4 May	Wednesday
The University of Dublin, Trinity College	7 May	Saturday
The University of Durham (Stockton Campus)	30 March	Wednesday
The University of East Anglia (1st Festival)	4 May	Wednesday
The University of East Anglia (2nd Festival)	5 May	Thursday
The University of Glasgow (1st Festival)	24 May	Tuesday
The University of Glasgow (2nd Festival)	25 May	Wednesday
The University of Greenwich (Medway Campus)	17 May	Tuesday
Heriot-Watt University (1st Festival)	31 May	Tuesday
Heriot-Watt University (2nd Festival)	2 June	Thursday
Keele University (1st Festival - Priority will be given to special schools)	27 April	Wednesday
Keele University (2nd Festival)	29 April	Friday
The University of Leeds	12 May	Thursday
The University of Leicester	4 May	Wednesday
The University of Liverpool	8 June	Wednesday
Liverpool John Moores University	10 May	Tuesday
The University of East London (Stratford Campus)	18 May	Wednesday
Imperial College London	10 June	Friday
Queen Mary, University of London	6 May	Friday
University College London (1st Festival)	4 May	Wednesday
University College London (2nd Festival)	5 May	Thursday
London South Bank University (1st Festival)	18 May	Wednesday
London South Bank University (2nd Festival)	15 June	Wednesday
The University of Manchester (1st Festival)	20 June	Monday
The University of Manchester (2nd Festival)	22 June	Wednesday
The University of Manchester (3rd Festival)	24 June	Friday
Newcastle University	7 June	Tuesday
The University of Nottingham	12 May	Thursday
The University of Oxford	15 March	Tuesday
The University of Plymouth	5 April	Tuesday
Queen's University Belfast	Date to be advised	
The University of Reading (1st Festival)	11 May	Wednesday
The University of Reading (2nd Festival)	18 May	Wednesday
The University of Sheffield	18 May	Wednesday
The University of Southampton (1st Festival)	5 April	Tuesday
The University of Southampton (2nd Festival)	7 April	Thursday
The University of Surrey	5 May	Thursday
The University of Warwick	24 March	Thursday
The University of York	5 April	Tuesday