

A Pinch of Salt!

The Member's Newsletter of the Salters' Chemistry Club

Festivals 2003

Have fun with Chemistry!

Would four young chemists from your school enjoy a day of fun chemistry in a University Department? The Salters' Festivals of Chemistry offer this opportunity!

The Festivals are one-day events held at Universities throughout the UK and Ireland between mid March and mid June. In the morning there is a Practical Challenge, (now called "The Salters' Challenge") which is common to all the Festivals, followed by a second practical in the afternoon chosen by the University ("The University Challenge").

No preparation is required for any of the day's activities - just come along on the day and have fun! For more information see page 3

The closing date for entries is
17 January 2003
(First come first served)

PROJECTS BY POST

Thank you to everyone who entered a project for our Projects by Post Competition.

The Panel of Judges had an interesting time reading through all the projects and awarded each student who entered a certificate of Excellence or Merit along with a fun prize.

Some of the best Projects and Posters will be on display at our stand at the ASE Conference in January 2003.

Details of the projects and awards received can be found on page 4

**Festivals 2003
Entry Form enclosed**

Camps 2003

6 Years of Chemistry Camps!

2003 will see the start of our 6th year of Chemistry Camps.

To date, over one thousand Year 10 (or equivalent) students have participated in the Camps, enjoying hands-on chemistry and the opportunity to visit a chemical company in the local area giving them a true insight into a Career in Chemistry.

Since 1998, Chemistry Camps have been held at Universities all over the UK. We are now preparing a fun packed programme of events for each of the eight Camps to be held next year.

See page 2 for further information

INSIDE

- | | |
|---|--------------------------------------|
| 2 | Institute News and Camps 2003 |
| 3 | Festivals 2003 |
| 4 | Projects by Post Awards 2002 |
| 5 | Competition Winners |
| 6 | Competition Time ! |

SALTERS'
The **Chemistry** Club

Institute News

SALTERS /ICI/RSC INDUSTRY STUDY TOURS

Each year The Salters' Institute co-sponsors, with ICI, Industry Study Tours to give Chemistry Teachers the opportunity to update their knowledge of the chemical and pharmaceutical industries by visiting sites in the UK or abroad. These tours are part of a programme of tours organised by the Royal Society of Chemistry throughout the year.

This year the tours visited UK/Holland 12-15 February and UK/France 18-21 June. All visits were to ICI facilities and in Amsterdam the teachers had the opportunity to meet Dutch teachers and visit Dutch schools.

The Industry Study Tours are set to continue next year. If you would like further information please contact Lorraine Hart, Education Department, The Royal Society of Chemistry, Burlington House, Piccadilly, London W1J 0BA (Tel: 020 7440 3350; e-mail: hartl@rsc.org).

ICT IN SUPPORT OF SCIENCE EDUCATION

A copy of the booklet 'ICT in Support of Science Education; A Practical User's Guide' was sent to each school with the September issue of "A Pinch of Salt!". The booklet was produced by The University of York Science Education Group to enable science departments to make the most of what ICT can offer in support of science teaching.

If you wish further copies of the booklet these can be downloaded from www.uyseg.org. Click on the 'About UYSEG' box, you will then find the icon for the booklet pages in the yellow box on the left-hand side of the page. The web version of the booklet will be updated in 2003.

Please pass your booklet on to your colleagues in the Science Department!

LOOKING FOR EQUIPMENT?

Have you tried one of our three equipment redistribution centres around the country? The centres collect surplus and redundant scientific apparatus from local companies and redistribute it to schools. The only cost to schools is that of transport to collect it from the centre. Items in stock vary but can include glassware (including Quickfit), Bunsen burners and balances. If you are looking for a particular specialist piece of equipment, do ask, you may be lucky! Look out for more details on our website shortly.

Contacts are:

University of Derby
Dr. Chris Cheetham
01332 591752

c.cheetham1@derby.ac.uk

University of Middlesex
Mr. Stuart Rawcliffe
01923 284566
stuart.rawcliffe@virgin.net

University of Newcastle
Mr. Peter Marshall
0191 222 8649

Camps 2003

Nomination Forms

Full Camps details and a nomination form will be sent out to schools with the next issue of "A Pinch of Salt!"

Camp Locations 2003

University of Birmingham
University of Bristol
University of Kent
University of Manchester
University of St Andrews
University of Ulster at Coleraine
University of Wales Swansea
University of York

Festivals 2003

- Entry is restricted to one team of **four** students only selected from **Years 7 or 8 (or equivalent)**
- All students receive fun prizes and certificates and a grant of **£25** is payable at the Festival to all participating schools.
- An entry form for the Festivals 2003 is enclosed. Please note places are allocated in the order in which entry forms are received. The sooner we have your entry form, the more chance you have of securing a place at the Festival of your choice.

Host Universities 2003

University of Aberdeen	
Anglia Polytechnic University	
Aston University	New!
University of Birmingham	
University of Brighton	
University of Bristol	
University College Cork	
Coventry University	
Trinity College, University of Dublin	New!
University of Durham (Stockton Campus)	
University of East Anglia	
University of Exeter	
Heriot Watt University	
University of Kent at Canterbury	
University of Leeds	
University of Limerick	
University of Liverpool	New!
Liverpool John Moore's University	
Imperial College of Science, Technology & Medicine, London	New!
Kings College London	
Queen Mary College London	
University College London	
University of Luton	
University of Manchester	
UMIST	
University of Newcastle	
University of Nottingham	
University of Paisley	
University of Reading	
University of Sheffield	
University of Southampton	
South Bank University	
University of Surrey	
Institute of Technology, Tallaght	New!
University of Ulster at Coleraine	
University of Wales Bangor	
University of Wales Cardiff	
University of Wales Swansea	New!
University of Warwick	
University of York	

Typical Festival Programme

The programme will follow the same format as last year with a practical challenge in the morning (now called "the Salters' Challenge") which is the same at all the Festivals and an afternoon practical challenge chosen by the University ("the University Challenge").

For those of you who will be taking part for the first time, below is a guide to a typical Festival day, although timings may vary. Your Festival host will let you have exact details nearer the time.

9.30 am	Arrival and Welcome
10.00 am	The Salters' Challenge
12.00 pm	Lunch
12.45 pm	The University Challenge
2.15 pm	Chemical Magic Demonstration
3.00 pm	Prize Giving
3.30 pm	Dispersal

Projects by Post Awards 2002

Students Awarded a Certificate of Excellence

Afon Tâf High School

"A day in the life of Tammy Marie"

"Diesel be the fuels of the future"

Bethan England, Sarah Morris, Louise Treen, Sarah Moore
Huw Jackson, Edward Johnson, Ricky Jones, Paul Kings

Central Newcastle High School

"Everyday Metals"

Rebecca Marr, Alex Russell, Jessica McGurk, Ellie O'Neil

Downham Market High School

"Investigating reactions involving colour"

Clare Bowling, Anthony Foulkes, Lindsay Hallgarth,
Michelle Harding, Siobhan Neary, Stuart Rossm,

Glan Afan Comprehensive

"Operation Food"

Richard Giannini, Jamie Williams, Mathew Warner,
Justin Jenkins, Thomas Kelly

The Hertfordshire and Essex High School

"Chemical Shows"

"Indigestion Dilemmas"

"Oranges and Lemons"

Gemma Terry, Sarah King, Anna Calderon
Hannah Naylor, Kathryn Jenns, Laura Smith,
Amber Reeves-Rush, Sian Tedds
Hayley Campbell, Muriel Chan, Emma Hughes,
Emma Neagle, Hannah Williams

Royal High School, Bath

"Snail shells and acid rain"

"The Bubble Experiment"

Sibylla McGrigor, Mathilda Isherwood, Lucy Philips,
Sarah Freeman
Chloe Alexander, Lucy Howe, Alice Hawker,
Emma Bruce-Jones, Ginerva Cooper, Susie O'Brien

Loreto Grammar School

"Colour"

Rebecca Clark, Catherine Hatami, Rebecca Marchmont
Anna Duckett, Alice McNicholls

Students Awarded a Certificate of Merit

Balforn High School

"Chemistry in the Kitchen and Bathroom"

Anna Fletcher, Romain Furmston-Evans, Catriona Reid,
Lisa Richardson

Brentwood County High School

"Which Tablet is best at curing indigestion?"

Emma Scott, Francesca Porter, Paris Rayfield,
Michael Parkes, William Lloyd

De Ferrers Specialist Technology College

"Greenhouse Gases - The Facts"

Kate Hughes, Johnathan Armstrong, Hannah Boast,
Tom Mole, Narelle Birt, Stephen Jones

Edensor High School

"Colours of Chemistry"

Hayley Booth, Rachel Starkey

Glan Afan Comprehensive School

"The Chemistry of Art"

Stephanie Southall, Alex Evans, Jade Blakemore,
Nathalie Berryman, Siobhan Landeg

The Hertfordshire and Essex High School

"Natural Dyes"

Hannah Sargent, Angela Jacobs, Alison Scott

Loreto Grammar School

"Greenhouse Gases"

"My Chemical Day"

"Rocks"

Rebecca Marchmont, Hannah Dixon, Lucy Darby,
Elizabeth Hatchman, Olivia Thornley, Kate Mooney
Catherine Hatami, Rebecca Clark
Alice McNicholls, Anna Duckett, Ann-Marie Giblin

Royal High School, Bath

"Magic Sand"

Elise Webber, Vicky Chiu, Angel Tang, Saskja Duff

Tideway School

"Why do Fizzy Drinks go Flat?"

Victoria Hale, Alex Marron, Nikkita Parker, James Stewart

Competition Winners

“Missing Elements” Wordsearch Competition

Congratulations! to **Ruby Bedford** and **Emma Baron**, both from **St John Fisher High School** in Harrogate. They each receive a Salters' Chemistry Club T-shirt for winning the “Missing Elements” Wordsearch Competition on the Salters' Website.

The missing elements were Sodium and Carbon.

There is now a new competition up on our Website www.salter.co.uk/chemclub/competition. Answers to competition@salters.co.uk before 28 February 2003.

Winners will receive Chemistry Club T-shirts and fun prizes.

Answers and Winners of the Issue 14 Competition (deadline 7 November 2002) will be published in the next issue

Projects by Post 2003

Due to the success of this year's Projects by Post Competition we will be running it again next year.

- The Competition aims to encourage groups of students from years 8 and/or 9 to work collaboratively on an investigative project.
- The project work should include practical chemistry experiments and should be carried out in school under teacher supervision.
- Certificate of Excellence or Merit and fun prizes will be awarded to all students who take part.

The themes this year are :-

Chemistry and Crime
Chemistry in the Home
Water

For full details and entry forms see our website
www.salters.co.uk/club

Salters' Chemistry Club Handbook Volumes One and Two

The practical activities from both volumes of the handbooks are available to download from :-

<http://www.schoolscience.co.uk/teachers/chemclub>

Email Handbook@salters.co.uk if you would like to receive a copy of Volume Two of the Handbook or complete the online form on our website.

Email Contacts

Institute@salters.co.uk

Club@salters.co.uk

Camps@salters.co.uk

Handbook@salters.co.uk

Competition Time!

Chemistry Code Breaker!

Ινδιχατορσ αρε υσεδ το τεστ ωηετηερ σολυτιο νσ αρε
 αχιδιχ ορ αλκαλινε. Ιν τηε σχηοολ λαβορατορψ ψου
 ωιλλ υσε λιτμυσ παπερ. Βλυε λιτμυσ παπερ τυρνσ πινκ
 ιν αχιδιχ σολυτιονσ ανδ πινκ λιτμυσ παπερ τυρνσ βλυε
 ιν αλκαλινε σολυτιονσ. Ανοτηερ χομμον ινδιχατορ ισ
 υνιϋερσαλ ινδιχατορ, ωηιχη προδυχεσ α ωιδερ ρανγε οφ
 χολουρ χηανγεσ, βασεδ ον τηε χολουρσ οφ τηε ραινβοω,
 δεπενδινγ ον τηε στρενγτη οφ τηε σολυτιον τεστεδ.

Can you read this by using the code below? You will need to find out what the symbols are for the missing letters.

a	b	c	d	e	f	g	h	i	j	k	l	m
	β	χ		ε	φ		η	ι	φ	κ	λ	μ
n	ο	ρ	q	r	s	t	u	v	w	x	y	z
	ο	π	θ		σ	τ	υ	ϖ	ω	ξ	ψ	ζ

Now solve the following:

You can make your own indicator from ρεδ χαββαγε.

Answers on a postcard please to the address in the box below.
 Entry is restricted to students in Years 7, 8 and 9 only.

Don't forget to give your Name, Address, Age and School!

The closing date for entries is **31 December 2002**.
 The first 5 correct answers drawn will receive Salters' Chemistry Club T-shirts and 25 runners-up will receive fun prizes.

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