

A Pinch of Salt!

The Member's Newsletter of the Salters' Chemistry Club

Festivals 2002

Festivals were held this year at thirty-four Universities throughout the UK and Ireland and over five hundred schools took part, which was an all time record!

All the teams tackled the Practical Challenge - The Great Clean Up! - in the morning and then took part in various chemical "egg races" in the afternoon.

Many Festivals also featured a fun lecture or demonstration and the day concluded with a prize giving, at which everyone received fun prizes and certificates.

Many apologies to those schools who were not offered a place.

Over eight hundred entries were received this year and almost all the Festivals were oversubscribed.

All entries were processed in the order in which they were received. It is planned to hold up to forty Festivals next year so that more schools will be able to take part.

See page 11 for feedback on this year's festivals

ICT in Support of Science Education

Enclosed (for schools) with this copy of A Pinch of Salt! is a copy of ICT in Support of Science Education: a practical users guide. (See page 4)



"Bubbles" Lecture
Kent Chemistry Camp



Fyling Hall School -York Festival

Camps 2002

This year eight Chemistry Camps took place at Universities all over the UK. There were two new Camps, at the University of Wales, Swansea and the University of Ulster, Coleraine.

The Camps were advertised throughout schools last November and they were open to all schools in the UK and Ireland. Hundreds of nominations were received and they were all of such a high standard that picking just four hundred to attend the eight Camps was very difficult.

The students spent 5 days in a university campus, carrying out fun practical work in the labs, attending fun lectures, site visits and a varied social programme.

For feedback on the Camps see page 12

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Institute News

Director of Salters Advanced Chemistry

Gwen Pilling retires as Director of SAC at the end of August 2002. Gwen has led the project for eight years and during that time it has grown to a position where over 8,000 students a year take the AS examination. The great success of SAC both in this country and overseas owes much to Gwen, who has inspired teachers and has been the guiding light behind new editions of the books and the recasting of the course to meet the demands of Curriculum 2000.



Gwen retires with our very good wishes and thanks.



Gwen Pilling's successor as Director of SAC will be Christine Prior who begins work in September 2002. Chris won the Salters' Teachers' Prize in 2000 and has been an inspirational teacher of SAC at Bede College in Billingham.

At her previous school, Hall Garth School, Middlesborough, she led a successful team at the Festival of Chemistry at the University of Teesside in 1998 and then competed in the Grand Final at Imperial College, winning second prize in the Project Competition

We congratulate her on her appointment and look forward to her infectious enthusiasm, which we are sure will convert many more teachers to SAC.

The Salters' Prize for the Teaching of Chemistry 2002

The criteria for the Prize was changed this year to offer four prizes, to promising teachers new to the profession. Each prize is worth £3,000 - £1,500 for the Teacher and £1,500 for the school Science Department. As with previous years the response we received was excellent. Nominations have been considered and a shortlist of 12 candidates selected. Each short listed candidate will have a Lesson Observation in September/October, with interviews held in November when a decision on the winners will be made.

Do you know any teachers who fall into the new criteria?

If you do then keep an eye on our website over the forthcoming months where details for the 2003 Prize will be posted.

Salters' National Science Technicians Awards

The Salters' Institute, in collaboration with the Association for Science Education, the Institute of Biology, the Institute of Physics and the Royal Society of Chemistry, has established National Science Technicians Awards.

In this the first year of the Awards the response has been phenomenal. The Award was open to science technicians in schools and colleges catering for students to age 18, and who had a total of 5 or more years' experience (either full-time or part-time). The closing date was 1 May and nominations have now been considered and a shortlist of 7 selected. Each short listed candidate will receive an informal school visit in September/October, with the winners being announced in November.

If you know a Science Technician eligible for this Award, information for the 2003 award will be posted on our website in the forthcoming months or may be sought by contacting the Institute Administrator.

If you have any thing
you would like to
contribute to future
issues of

A Pinch of Salt!
please contact :-

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Fax: 020 7638 3679

Institute News

Salters Advanced Science Courses

Salters Advanced Chemistry (**SAC**) and Salters Horners Advanced Physics (**SHAP**) are well established and becoming increasingly popular. The newest Advanced course, Salters-Nuffield Advanced Biology (**SNAB**), begins its trials in 48 schools and colleges in September 2002. The pilot specification has received full approval from QCA. Books and fully integrated ICT, produced by Heinemann, will support pilot schools. Following completion of the pilot the course will become open to all schools and colleges, probably from 2005.

For further details of Advanced Salters courses, please contact:-

SAC - Sandra Wilmott

Tel: 01904 432601

Email: slw5@york.ac.uk

SHAP and **SNAB** – Nancy Newton

Tel: 01904 432524

Email: nn2@york.ac.uk

21st Century Science

The Salters' Institute is providing funding for a major new development in GCSE science known as *21st Century Science*. Following an initiative of the QCA, the University of York Science Education Group (UYSEG) is producing a suite of GCSE science courses which emphasise scientific literacy and provide additional options for those who wish to take science further as a preparation for A level or vocational studies.

The new course will be piloted in a limited number of schools from September 2003 and, depending on the outcome of the pilot, could become the new model for national curriculum science. UYSEG is developing the resources and training to support the pilot with funding from the Salters' Institute, the Nuffield Foundation and the Wellcome Trust.

Further information can be obtained from Katrina Sayer

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Don't forget to visit our
website to find out more
information about
The Salters' Institute.

www.saltersinstitute.co.uk

ICT in Support of Science Education – A Practical Users Guide

This booklet has been produced by Derek Denby and John Holman, with funding from the Salters Institute to make it available free of charge to schools, and provides a down-to-earth guide to using ICT in science lessons.

The idea for the Guide originated in a seminar on ICT in Support of Science Education held by the Chemical Education Group at Salters' Hall in May 2001. The Guide builds on the seminar themes, drawing on the results of visits to schools, colleges, publishers and software developers. It is in two sections:

Section A gives some general principles and will be of interest to school managers as well as teachers of science;

Section B has specific examples that will be of practical help to science teachers.

We would be very interested to receive any comments on this Guide, please send them to the author Derek Denby at derekdenby@aol.com

“Projects by Post” Competition 2002

Thank you to everyone that entered our Projects by Post Competition, the results of which will be published in the next issue of A Pinch of Salt !

The Salters' Chemistry Club Handbook Volume 2

The Salters' Chemistry Club Handbook Volume 2 contains lots of new ideas for activities, demonstrations and puzzles as well as useful contact names and addresses.

If you would like a copy and have not yet ordered one, please email us at handbook@salters.co.uk or order through our website.

Salty Picture

The Salters' Chemistry Club was established in 1991 as an initiative of the Salters' Institute.

Its main objective is to make chemistry more relevant, exciting and fun to 11–14 year olds through encouraging the formation of school chemistry clubs and the promoting of university based regional competitions.

For more details please visit our website

<http://www.salters.co.uk/club>

— SALTERS' —
The **Chemistry**
Club

Sponsors

**Many thanks to the following organisations who sponsored
the Salters' Chemistry Club and the Chemistry Camps in 2002:-**

The Salters' Chemistry Club

Akzo Nobel	Janssen Pharmaceuticals
ATOFINA (UK) Ltd	Johnson Matthey
Aughinish Alumina Ltd	Pfizer Ltd
Avecia	Procter & Gamble Technical Centres Ltd
BASF Plc	Roche
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The BOC Group	Royal Society of Chemistry North Wales Local Section
The Boots Company Plc	Royal Society of Chemistry Birmingham and West Midlands Local Section
Ciba Specialty Chemicals - Pigments	Royal Society of Chemistry Liverpool Local Section
Contract Chemicals	Smith & Nephew Group Research Centre
Dupont (UK) Ltd	Unilever
Exxon Mobil (Esso UK)	Unilever Research Port Sunlight
GlaxoSmithKline	
Irish Pharmaceutical and Chemical Manufacturers Federation	

Chemistry Camps

The Analytical Chemistry Trust Fund
The Armourers and Brasiers Company
The Association of the British Pharmaceutical Industry
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Pfizer Ltd
The Royal Society
The Royal Society of Chemistry
The Scottish Executive
Shell Chemicals
Sigma-Aldrich Company Ltd
Society of Chemical Industry
Syngenta
Thomas Swan & Co. Ltd.
Vitrex Plc

Competition Winners

Word-Search Competition November 2001

Winners

Andrew Middleton, Knutsford High School,
Ben Wood, Garforth Community College
Anna Fletcher, Balfron High School
Nasreen Shaikh, Al-Sadiq and Al-Zahra Schools,
 London
Niamh Maguire, Abbey Vocational School,
 Donegal Town

Runner ups

Kayleigh Jones, Brockworth School, Gloucester
Ali Hughes, Didcot Girls School, Didcot
Jason Burden, St. Hugh's High School,
 Grantham
Jamie Herrera, Parkwood High School, Sheffield
Arjun Chelley, Gartree High School, Leicester
Sally Montgomery, Canon Slade School, Bolton
Olivia Breen, Mount Mercy College, Cork
Daniel Thain, Edington and Shapwick School,
 Shapwick
Edward Knight, Denstone College, Uttoxeter
Alex Seeney, Perse School, Cambridge
Jamie Bridges, The Lacon Childe School,
 Kidderminster
Joshua Pearce, The Bishops Stortford High
 School, Bishops Stortford
Freya Howle, Sutton Coldfield Grammar School
 for Girls, Sutton Coldfield
Martin Dunk, Stamford Endowed School,
Bridget Finnegan, St. Louis Secondary School,
 Carrickmacross
Sarah Richardson, St. Leonard's RC
 Comprehensive School, Durham
Philip Cooke, St. Alban's Boys School, Welwyn
 Garden City
Katie Easton, Moira House School, Eastbourne
Sabia Khan, Primrose Hill School, Leeds
Joe Pope, Rushmoor School, Bedford
Francesca Rusher, Sheldon School,
 Chippenham
Deirdre Beirne, Foyle and Londonderry College,
Alistair Mayor, Corpus Christi High School,
 Ribbleton

The Answers:

The sentence produced is: "Different techniques
 are used to separate mixtures, fractional
 distillation is used to separate crude oil"

The missing words were:

Saturated Magnet Soluble Evaporating Dish

Word-Search Competition January 2002

Winners

Hannah Ball, Uppingham Community College,
Iwan Jones, Ysgol Dinas Bran, Llangollen
Joseph Vincent, All Hallows Catholic High School,
 Cheshire
Louise Main, Grantown Grammar School,
 Grantown on Spey
Steven Wallace, Scoil Cholmcille Senior, Co. Dublin

Runner ups

Alexandra Hamburger, King Edward VI High
 School for Girls, Birmingham
Ben Stoppani, Danum School, Doncaster
Cameron Lenton, Heath Mount School,
 Hertfordshire
David Wagner, Tullamore College, Co Offaly
Dermot O'Sullivan, St. Michaels College, Kerry
Eda Ulker, Chace Community School, Enfield
Ellen Walker, Tobermory High School, Isle of Mull
Emily McSwain, St. Leonard's School, St. Andrews
Gavin Morgan, Penglais Comprehensive School,
 Aberystwyth
Glyn Wood, The Mosslands School, Wirral
Hannah Wells, The Crookhorn Community School,
 Hampshire
Jonathan Noades, Melbourn Village College,
 Royston
Lisa Hulse, Our lady Queen of Peace High School,
 Lancashire
Matt Wright, Altwood School, Maidenhead
Michael Jordan, Grosvenor Grammar School,
 Belfast
Natalie McKone, Hungerhill School, Doncaster
Robert Bacon, Dame Alice Owen's School,
 Potters Bar
Rose Chard, Rednock School, Dursley
Sarah Sharif, Baylis Court School, Slough
Simon Holmes, Simon Langton Grammar School
 for Boys, Canterbury
Sukveen Sagoo, St. Catherine's Catholic School,
 Twickenham
Thomas Acland, Beaudesert Park, Gloucestershire
Thomas Baum, Teddington School, Teddington
Thomas Pidgeon, Exeter School, Exeter
Tom Wright, Bootham School, York

The Answers:

The anagram was: GOGGLES

Festival Prizewinners 2002

University of Aberdeen

- PC1 Harlaw Academy, Aberdeen
- PC2 Forres Academy, Moray
- PC3 Albyn School for Girls, Aberdeen
- ER1 Lathallan School, Johnshaven
- ER2 Aberdeen Grammar School
- ER3 Hazlehead Academy, Aberdeen

Anglia Polytechnic University

- PC1 Ernulf Community College, St. Neots
- PC2 Birchwood School, Bishop's Stortford
- PC3 The Bishop's Stortford High School
- ER1 Perse School for Girls, Cambridge
- ER2 The Hertfordshire & Essex High School
- ER3 Stamford High School

University of Birmingham

- PC1 King Edward VI Five Ways School, Birmingham
- PC2 Blessed Edward Oldcorne RC High School
- PC3 The Chase High School, Malvern
- ER1 The Bishop of Hereford's Blue Coat School
- ER2 Southfield School for Girls, Kettering
- ER3 Adam's Grammar School, Newport

University of Brighton

- PC1 Lavant House Rosemead, Chichester
- PC2 Uplands Community College, Wadhurst
- PC3 Moira House School, Eastbourne
- ER1 St. Dunstan's College, Catford
- ER2 Burgess Hill School for Girls
- ER3 Tideway School, Newhaven

University of Bristol

- PC1 Pencoed School, Bridgend
- PC2 Bruton School for Girls, Bruton
- PC3 Hanham High School, Bristol
- ER1 Sir William Romney's School, Tetbury
- ER2 Rednock School, Dursley
- ER3 Hanham High School, Bristol

University College, Cork (17 April 2002)

- PC1 Colaiste na Toirbhirte, Bandon
- PC2 Ashton School, Cork
- PC3 Mount Mercy College, Cork
- ER1 Colaiste Choilm, Ballincollig
- ER2 Patrician Academy, Mallow
- ER3 Clonakilty Community College

University College, Cork (22 April 2002) **

- PC1 Scoil Phobail Bheara
- PC2 Mount St. Michael School, Roscarberry
- PC3 Colaiste Treasa, Kanturk
- ER1 St. Colman's College, Midleton
- ER2 Rathmore Community School
- ER3 Colaiste na Toirbhirte, Bandon

Coventry University

- PC1 Blue Coat C of E School, Coventry
- PC2 Alderbrook School, Solihull
- PC3 Wrekin College, Telford
- ER1 Alcester High School Tech College
- ER2 Bishop Stopford CE School, Kettering
- ER3 Denstone College, Uttoxeter

University of Durham, Stockton Campus

- PC1 Nunthorpe School, Middlesborough
- PC2 The Norton School, Stockton-on-Tees
- PC3 Framwellgate School, Durham
- ER1 West Redcar Community School
- ER2 Brierton Comprehensive School
- ER3 Hurworth School, Darlington

University of East Anglia

- PC1 Hellesdon High School
- PC2 Culford Prep. School, Bury St. Edmunds
- PC3 Worlingham Middle School
- ER1 The King's School, Ely
- ER2 King Edward VI Grammar School
- ER3 Thomas Mills High School, Woodbridge

University of Exeter

- PC1 St. Wilfrid's School, Exeter
- PC2 Queen Elizabeth's Community College
- PC3 Millfield Preparatory School, Glastonbury
- ER1 Plymouth College
- ER2 Cape Cornwall School, St. Just
- ER3 Exmouth Community College

Heriot-Watt University, Edinburgh

- PC1 Denny High School
- PC2 St. Augustine's High School
- PC3 Balerno High School, Edinburgh
- ER1 St. George's School for Girls
- ER2 Wallace High School, Stirling
- ER3 Braes High School, Readingmuirhead

Imperial College of Science, Technology & Medicine, London

- PC1 Greenacre School for Girls, Banstead
- PC2 Old Palace School of John Whitgift
- PC3 ADT College, Putney
- ER1 The King John School, Benfleet
- ER2 The Mount School, Mill Hill
- ER3 ADT College, Putney

University of Kent at Canterbury

- PC1 St. Lawrence College, Ramsgate
- PC2 Archbishop Tenison's CE High School
- PC3 The Rochester Grammar School for Girls
- ER1 Chatham Grammar School
- ER2 Dover Grammar School for Girls
- ER3 St. Lawrence College, Ramsgate

** Second Festival at University College, Cork organised by the Access Programme

PC Practical Challenge
ER Egg Race

Festival Prizewinners 2002

University of Leeds

- PC1 Brighouse High School
- PC2 Prince Henry's Grammar School, Otley
- PC3 Allerton Grange High School, Leeds
- ER1 Woodkirk High School, Wakefield
- ER2 Royston High School
- ER3 Rastrick High School

University of Limerick

- PC1 St. Caimin's Community School, Shannon
- PC2 Ennis Community College
- PC3 La Sainte Union, Banagher
- ER1 La Sainte Union, Banagher
- ER2 Our Lady's Secondary School, Templemore
- ER3 Ennis Community College

Liverpool John Moore's University

- PC1 Ellesmere College
- PC2 Upton Hall School, Upton, Wirral
- PC3 Priory Technology College, Preston
- ER1 St. Bede's Catholic High School, Ormskirk
- ER2 Merchant Taylor's School for Girls
- ER3 St. Gregory's Catholic High School

University College, London

- PC1 Orley Farm School, Harrow
- PC2 St. Paul's Preparatory School, London
- PC3 J.F.S. School, London
- ER1 South Camden Community School
- ER2 Tonbridge Grammar School for Girls
- ER3 Durants School, Enfield

University of Luton

- PC1 The Rushden School, Rushden
- PC2 The Waddesdon C of E School
- PC3 St. Francis College, Letchworth
- ER1 Bedford Preparatory School
- ER2 Berkhamsted Collegiate School
- ER3 Dame Alice Harpur School, Bedford

University of Manchester

- PC1 Bury C of E School
- PC2 Bolton School (Boys Division)
- PC3 Southlands High School, Chorley
- ER1 Southlands High School, Chorley
- ER2 All Hallows Catholic High School
- ER3 Altrincham Grammar School for Boys

UMIST

- PC1 Mossley Hollins High School
- PC2 Golborne High School
- PC3 Carnforth High School
- ER1 Carnforth High School
- ER2 Broughton High School
- ER3 Mossley Hollins High School

University of Newcastle

- PC1 John Spence Community High School
- PC2 Lord Lawson of Beamish Comprehensive
- PC3 St. Bede's RC Comprehensive School
- ER1 Thornhill School, Sunderland
- ER2 Lochinvar School, Carlisle
- ER3 The William Howard School, Cumbria

University of Nottingham

- PC1 Kesteven and Sleaford High School
- PC2 Dayncourt School, Nottingham
- PC3 Trent College, Nottingham
- ER1 Heanor Gate School
- ER2 Moat Community College, Leicester
- ER3 Belper School

University of Paisley

- PC1 Balfron High School
- PC2 St. Mungo's Academy, Glasgow
- PC3 Barrhead Academy
- ER1 Dumfries Academy
- ER2 Coltness High School
- ER3 St. Margaret Mary's Secondary School

Queen Mary College, London

- PC1 Plumstead Manor School
- PC2 Brentwood Ursuline Convent High School
- PC3 St. Paul's RC Secondary School
- ER1 St. Paul's RC Secondary School
- ER2 Chace Community School, Enfield
- ER3 St. Martin in the Fields High School, London

University of Reading

- PC1 Bancroft's School, Woodford Green
- PC2 Didcot Girls School
- PC3 European School, Abingdon
- ER1 Hall Grove School, Bagshot
- ER2 Verney Avenue School, High Wycombe
- ER3 St. Mary's School, Wantage

University of Sheffield

- PC1 The Ecclesbourne School, Duffield
- PC2 Aston Comprehensive School, Sheffield
- PC3 King Ecgbert School, Sheffield
- ER1 Tapton School, Sheffield
- ER2 Sheffield High School
- ER3 The Elmhurst School, Barnsley

University of Southampton

- PC1 St. Anne's School, Southampton
- PC2 Portsmouth High School
- PC3 Bellemoor School, Southampton
- ER1 City of Portsmouth Girls' School
- ER2 Brune Park Community School, Gosport
- ER3 St. Edmund's Girls School, Salisbury

Festival Prizewinners 2002

University of Surrey

- PC1 Bohunt School, Liphook
- PC2 Hampton School
- PC3 Wispers School, Haslemere
- ER1 Gordon's School, Woking
- ER2 Guildford High School
- ER3 Rosebery School, Epsom

Trinity College, University of Dublin

- PC1 St. Dominic's Secondary School, Dublin
- PC2 Kells Community School
- PC3 Mount Sackville Secondary School, Dublin
- ER1 Largy College, Clones
- ER2 Rathdown School, Dunhaoghaire
- ER3 St. Colmcille's Community School, Dublin

University of Ulster at Coleraine

- PC1 St. Mary's Girls' High School, Craigavon
- PC2 Wallace High School, Lisburn
- PC3 St. Mary's Grammar School, Magherafelt
- ER1 Grosvenor Grammar School, Belfast
- ER2 Lumen Christi College, Derry
- ER3 St. Patrick's Grammar School, Armagh

University of Wales, Bangor

- PC1 Ysgol Tryfan, Bangor
- PC2 Ysgol Brynrefail, Llanrug
- PC3 Ysgol Syr Hugh Owen, Caernarfon
- ER1 Ysgol Friars, Bangor
- ER2 Rydal Penrhos School, Colwyn Bay
- ER3 Denbigh High School

University of Wales, Cardiff

- PC1 Newbridge Comprehensive School
- PC2 Bryn Celynnog School, Pontypridd
- PC3 St. Joseph's High School, Newport
- ER1 Coedylan Comprehensive School, Pontypridd
- ER2 Bryn Celynnog, Pontypridd
- ER3 Abertillery Comprehensive School

University of Warwick

- PC1 Sir Christopher Hatton, Wellingborough
- PC2 Northamptonshire Grammar School
- PC3 The King's High School for Girls, Warwick
- ER1 John Mason School, Abingdon
- ER2 St. Edmund Campion RC School, Birmingham
- ER3 Ninestiles Community School and Technology College, Birmingham

University of York

- PC1 Hymers College, Hull
- PC2 Skegness Grammar School
- PC3 Howden School, Goole
- ER1 Easingwold School, York
- ER2 Tadcaster Grammar School
- ER3 Ryedale School, York

PC Practical Challenge
ER Egg Race

Congratulations to all our winners !

What the judges said....

The enthusiasm displayed showed everyone to be a winner. The quality of the work showed an understanding of the task undertaken. This indicated a well-planned event aimed at the correct level for the age range of students involved. **(Competition Judge, University of Durham (Stockton Campus))**

Completely worth while and very good fun - to quote from one student as he left the lab in the afternoon - "That was class!" **(Competition Judge, University of Durham (Stockton campus))**

Festivals 2002

This year the competing teams became Analytical Chemists! The Practical Challenge involved finding the perfect site for a new industrial plant to produce "Wizzoclean!" the most amazing cleaning product ever! The manufacture of Wizzoclean required a supply of seawater containing a particular substance, which was responsible for its amazing cleaning properties.

The students' task was to analyse samples of known salts and then compare the results with an analysis of five unknown samples of seawater taken from the sites to be considered and a final analysis of a sample containing the particular substance needed.



Heriot Watt Festival



Luton Festival

We would like to thank all thirty-four university hosts who hosted Festivals this year. A big "thank you" also to all the technicians, post graduates, judges and sponsors who were involved in the Festivals 2002!

The Egg Races....

The teams at the University of York competed in a chemical egg race when they were challenged to make a minute timer using an assortment of chemicals that exploded when the time was up!

Students at the University of Durham (Stockton Campus) and the University of Manchester learned how to lower the temperature of water using chemicals.

The team who won the Egg Race at the University of Aberdeen succeeded in cooking an egg using aluminium foil and a night light using the least energy.

At Anglia Polytechnic University the teams had to outsmart "Smugglers" by devising a method of separating and recovering diamonds and salts.

At the University of Warwick teams used "chemical magic" to transform two colourless solutions and a green powder into a moist white solid, a blue solution and a black powder.

- ◆ "It was a very enjoyable experience at **University College Cork**. I thought the Practical was a very challenging test and I absolutely loved the "chemical magic".
(**Maria Donovan, Colaiste Choilm, Ballincollig**)
- ◆ "We thoroughly enjoyed our visit to the **University of Luton**. Thank you for all the fun scientific information and puzzles you introduced us to. The staff were very helpful and dealt with all our needs. Overall we marked the day ten out of ten! We have all learnt something from the day and we would all love to come back again."
(**Amber, Zara, Heather and Hayley, Dame Alice Harpur School, Bedford**)
- ◆ **A University Host says....**
"There are a lot of teachers running school chemistry clubs, giving pupils a practical insight into the subject. A competition like this gives pupils an idea of how analytical chemists work in real life. Seeing their enthusiasm shows how much fun chemistry can be, and how relevant it is to the design of products in everyday use."
Dr. Simon Aldridge, University of Wales, Cardiff

Information on Salters' Festivals of Chemistry 2003 will be printed in the next issue of A Pinch of Salt!

Chemistry Camps Feedback 2002

Eight Camps were held between June and August and during these months 400 Year 10 students (or equivalent) descended on University Chemistry departments to participate in hands-on Chemistry, develop their enthusiasm for the subject, and experience University life. Each Camp involved a varied practical programme, from using forensic skills to solve a murder, to synthesising banana oil, from releasing Cold Light from Chemiluminescent compounds, to seeing who could make the bounciest, stickiest, stretchiest slime, or even making a solution change colour in time to music using a chemical clock with no hands!

It wasn't all spent in the labs though, several social events were planned, from rock climbing to sports evenings, Ten-pin bowling to a beach barbecue, allowing the students to let off steam after a hard day in the chemistry labs. There were also site visits to local chemical companies for each Camp so the students could see real-life chemistry scaled up in industry as well as lectures including "Medicine – Beyond the Molecule" and "Theatrical Pyrotechnics" given by the University staff and guest speakers.

Information on Chemistry Camps 2003 will be printed in the January issue of A Pinch of Salt!

The principal aim of the Chemistry Camps is to show students the fun in Chemistry and to motivate them into having a long-term interest in the subject, with a view to carrying on their studies in it through to University level.

Here's what some of the Chemistry Campers thought about their experience.....

"The Swansea Chemistry Camp was good fun, I really enjoyed the practicals and finding out about University life. The evening activities allowed me to make lots of new friends and we all hope to meet up again next year"

Christina Hills

Bishop of Herefords Bluecoat School - Swansea Chemistry Camp

"A big thank you to everyone who organised the St. Andrews Chemistry Camp, it was great! All the people were fun to be round and talked and were all of the same knowledge and ability or thereabouts, unlike at school! The leaders were a good laugh and the experiments we did were exciting, especially the colour changing to music. Hopefully, with a bit of luck some of us are getting together again seeing that we got along so well"

Toby Waterhouse

Dumfries High School - St. Andrews Chemistry Camp



**Gunge, Gunge
and more Gunge
Birmingham
Chemistry Camp**

"Chemistry camp is a wonderful experience and should be highly recommended to all teachers. How often do you get a chance to work with 50 well behaved and motivated pupils who just burst with enthusiasm. Roll on next year!!!"

**Stewart B McCutcheon
Castle Douglas High School
Teacher Mentor
Kent and Ulster Camps 2002**



**Dyes and Dyeing
York Chemistry Camp**

**Chemistry
Camps**