

Apr-09

RSC List of Presenters

US = University Students
GP = General Public
* Preferred Target Audience

Suitable for 16+ and Adults

Name	Title	Description	Age* Groups	Group Size*	Email Tel / Fax	Address	Costs/ Comments
AKHAVAN, Professor Jacqueline	Pretty, Pretty, Bang, Bang	For many years people have been enjoying fireworks on Guy Fawkes night but have never really appreciated the complexity of fireworks. This lecture will introduce the topic of fireworks and cover areas such as the production of colour, light and sound. During the lecture there will be many demonstrations illustrating the principles of fireworks. There will be many bangs, whistles, and small explosions not to mention the shower of sparks. The future of fireworks will also be covered.	5-16+, US, GP	ALL	J.Akhavan @cranfield.ac.uk 01793 785324 01793 785772	Cranfield University, Defence Academy of UK, Shrivenham, Swindon, SN6 8LA	TE, £120 for consumables and preparation time
ANDREWS, Prof David L	Lasers in Chemistry	An introduction and survey of the many applications of lasers across the breadth of modern chemistry. 45mins	16+	20- 100+	d.l.andrews @uea.ac.uk 01603 592014 01603 592003	School of Chemical Sciences, University of East Anglia. Norwich. NR4 7TJ	TE
ARMSTRONG, Dr Susan (Sue)	Medicines Through the Looking Glass	An interactive lecture modelled on an RI Christmas Lecture and describing what chirality is, why it is important in medicine, and how an asymmetric catalyst can generate a single enantiomer from a flat precursor molecule.	11-16, 16+, US	10- 100+	armstrong277@bt internet.com	Struan House, Old St Andrews Rd, Guardbridge, Fife, KY16 0UD	TE/ groups above 100 work best in a lecture theatre with CCTV & auxiliary screens. Only venues driveable in <1.5 hrs
ASPINALL, Dr Helen C	Transition Metals & Catalysis		16+	100+	hca@liv.ac.uk 0151 794 3528 email preferred	University of Liverpool, Crown Street, Liverpool. L69 7ZD	TE

	Making Light Work of Chemistry		11-adult	100+			
BAILEY, Prof Patrick D	Fireworks, Stink-bombs and Magic Bullet Medicines	Use explosions, colour and taste experiments to show how the most fun bits of chemistry are connected to cutting edge research in medicinal chemistry.	11-16+,GP	ALL	p.bailey@umist.ac.uk 0161 200 4448 0161 200 4541	Faraday Building, Department of Chemistry, UMIST, PO Box 88, Manchester, M60 1QD	Venues drivable to in less than 2 hours.
BALLANTINE, Dr James A	Poisons From The Sea - Or where to avoid the fish course!	Discussing the wide variety of natural poisons to be found in marine animals and the way in which the local population have adapted to their presence all over the world. Topics include: pufferfish, zombies, paralytic shellfish poisoning, jellyfish, palytoxin, ciguatoxin, snails with poison darts and bonellin.	16+, US, GP	20 - 100	Ballbish@aol.com 01792 233960	59 Headland Road, Bishopston, Swansea. SA3 3HD	TE/ prefers pm/ requires 35mm slide projector, OHP and a darkened room to show off coloured slides or PowerPoint projector and computer
	Life and Death in a Breath - A Forensic Examination of the air we Breathe	An account of the use of combined Gas Chromatography-Mass Spectrometry (GC-MS) techniques for the investigation of environmental problems. Examples are taken from road traffic pollution, tainted chocolates, industrial spray drift, workplace monitoring, sick buildings, smells in the home and garden, industrial accidents, sewage problems and fatalities in a drain chamber.	16+, US, GP	20-100	Ballbish@aol.com 01792 233960	59 Headland Road, Bishopston, Swansea. SA3 3HD	TE / OHP only
BARBOUR, Laurie MADFLAP SCIENCE	AIR, WATER, FIRE and EARTH	MADFLAP offers over 150 workshops and activities and has three show formats for schools as well as events and festival versions. Will adapt/create material for any audience/topic.	ALL, US, GP	ALL, max 500 in show format	clynes@bpc.ac.uk 01305 265037	93 Damers Road, Dorchester. Dorset. DT1 2LB	£350-500 per day + travel & B&B Budget prices for museums & schools in Dorset, parts of Devon, Somerset - £150-300 per day.
BARHAM, Professor Peter	The Science of Ice Cream	Uses simple demonstrations to look at changes of state (solids, liquids and gasses). Use freezing point depression to create freezer to make ice cream; for older audiences demonstrations to illustrate the laws of thermodynamics; some mention of crystallization and possibly colour centres (depending on audience); all students leave with an ice cream made within seconds at the climax of the presentation.	11-16+, US, GP	>10	peter.barham@bris.ac.uk 0117 928 8711	H H Wills Physics Lab, Tyndall Avenue, Bristol, BS8 1TL	TE, cost of ice cream ingredients (approx 15p per person)

	Kitchen Chemistry	Why do we like some foods and hate others? What makes some foods taste really good together while other pairings are just plain disgusting? How far can science go in answering these (and other) questions that are so important for domestic cooks and chefs alike? In this short demonstration lecture we will show how we actually use all our senses to assess the food we eat. We use our eyes to see the colour, shape and size, our ears to hear any sizzling, or crackling, etc. we use our hands to feel the texture, we use our tongues to sense the taste, our noses to sense the aroma and all the nerves in our mouths to assess the "mouthfeel". We integrate all these sensations into what we call the "flavour" and then decide whether or not we like it.	14-16+, US, GP	>10				TE, cost of food demonstrations (approx £20 - more for audiences >50)
BATHAM, Dr Mike G JANES, Dr Rob	The Magic of Oxygen	Oxygen is the most important element in the Earth's crust and accounts for about 21% of the air, without it there would be no life as we know it. But what is so special about this gas? Who discovered it? How have we put it to use? These questions and more are answered, and some of the more unusual properties of oxygen are demonstrated in a series of spectacular (and occasionally explosive) experiments, including how to make fire from water, produce a genii from a teapot, and we prove that you really can have money to burn!	eleven-14, Can be adapted for most school ages.	ALL	m.g.batham@open.ac.uk 01908 653155 01908 858327	Chemistry Department, The Open University, Walton Hall, Milton Keynes, Bucks MK7 6AA	TE + subsistence. Distance limit to 100 miles unless customer can provide chemicals needed. Duration 30-55 mins + 90 mins setup.	
BEEBY, Dr Andrew	Electromagnetic Radiation	Introduction to electromagnetic radiation, how we can use UV & visible light to characterise molecules, what happens when molecules absorb light, photochemistry. up to 45 mins	16+, US, GP	ALL	andrew.beeby@durham.ac.uk 0191 334 2023 0191 384 4737	Department of Chemistry, University of Durham, Durham. DH1 3LE	TE	
BILLINGHAM, Prof Norman C	Plastics in the Environment	Plastics are highly environmentally friendly. Their use brings great savings in materials and energy. 45 min max	16+	ALL	n.billingham@sussex.ac.uk 01273 678313	University of Sussex, School of Chemistry, Physics & Environmental Science, Falmer, Brighton. BN1 9QJ	TE	
BIRKETT, Dr David P	The Chemist in Discworld - the polymer and material science of optical discs		US	20-100+	david.birkett@henkel.com -4046239	Henkel Loctite RD&E, Tallaght Business Park, Whitesdown, Dublin 24, Ireland.	TE, Hotel if necessary.	

BLADON, Dr Christine M	Chemistry in the Back Garden	A talk combining natural history and chemistry. Several examples of natural phenomena, commonly observed in the back garden, are illustrated and an explanation of the subject matter is given at the molecular level.	16+, US	ALL	c.m.bladon@qmul.ac.uk 020 8530 6728	14 Nightingale Lane, Wanstead, London E11 2HE	TE
CLARK, Professor James H	Green Chemistry	The lecture will explain how we are developing a new way of doing chemistry to help meet the needs of society in a sustainable and environmentally friendly way.	16+, US, GP	ALL	jhc1@york.ac.uk 01904 432559	Clean Technology Centre, Department of Chemistry, University of York, York YO10 5DD	No charge, Good notice required.
COLQUHOUN, Professor Howard	Our Light Materials	Human history has been always been characterised by a drive to discover new materials with better properties. Stone was thus superseded by bronze, bronze by iron, and iron by steel and aluminium. In the 21st century however we are living in an age dominated by lightweight polymeric materials which are principally based on carbon. Since the early discoveries of polymers such as polyethylene, nylon and PET, research in polymer chemistry has continued to yield astonishing results. Synthetic polymer fibres have been discovered which are as strong as high-tensile steel yet many times lighter, and high-strength polymer-composites are now widely used in aircraft construction. The lecture explores the science behind these advanced polymeric materials, and highlights some of the latest research in the field.	14-16+, US, GP	ALL	h.m.colquhoun@rdg.ac.uk 0118 378 8454 0118 378 8450	School of Chemistry, University of Reading, Whiteknights, READING RG6 6AD	TE
DAVIDSON, Dr Christine M	Demonstration Lecture	Demonstration lecture covering colour changes in solution, chemistry of the atmosphere, liquid nitrogen, reaction rates and combustion, spectroscopy, chemiluminescence, (small scale) pyrotechnics. 40-55 mins	eleven - 16	40-100+	c.m.davison@strath.ac.uk 0141 548 2134 / 0141 548 4212	University of Strathclyde, Dept of Pure & Applied Chemistry, Glasgow. G1 1XL	TE/ Difficult to do more than a day's drive from Glasgow unless dry ice and liquid nitrogen available locally.
DOUGLAS, Dr Peter	Photochemistry in Action	The aim of the lecture is to increase awareness of the importance of photochemistry in our world. A series of demonstrations on the electrical, chemical, and photochemical generation of light, and its use in everyday life, technology, pollution control and as an alternative energy source	8 - Adult, Most suitable for A Level	ALL	P.Douglas@Swansea.ac.uk 01792-513081	Chemistry Dept, University of Wales Swansea, Singleton Park, Swansea, SA2 8PP	Needs: a theatre/room which can be "blacked-out" as dark as possible for best effect.

DUNNE Ian B	A variety of shows including: Science Magic and Chemical Hocus Pocus Gases - Hydrogen, Helium and the Gang www.ianbdune.co.uk	A show with mystery, suspense and laughs containing lots of science tricks used for conjuring through the ages which can be used to demonstrate many principles along with the power of observation. This show features pretty pictures, hydrogen 'pops', oxygen relighting a glowing splint, a balloon being blown up by a bottle of liquid and indoor airships.	KS3&4	ALL	ianbdunne@aol.com 023 8077 2341	37 Upper Brownhill Road, Maybush, Southampton. SO16 5NG	£300 per day plus TE and consumables. One hour to set up.
EASTOE, Professor Julian <i>and</i> RILEY, Dr Jason	The Secret Chemistry of the Mobile Phone	A presentation full of demonstrations to illustrate the chemistry behind NiH batteries and LCD screens. ONLY AVAILABLE AT THE UNIVERSITY OF BRISTOL	16+, US	100+	Sue.Williams@bris.ac.uk <i>or</i> D.E.Shallcross@bris.ac.uk 0117 928 8313 0117 925 0612	School of Chemistry University of Bristol Bristol, BS8 1TS	Consumables ONLY AVAILABLE AT THE UNIVERSITY OF BRISTOL
EDWARDS, Professor Peter <i>and</i> HOLLAMBY, Mr Peter	Flash, Bang, Wallop	A lively demonstration lecture that has been developed during 20 years and which collects a series of chemical demonstrations exhibiting loud noises (bangs and whooshes), light and flames and colours and colour changes in solution. A light-hearted and entertaining delivery has been developed to emphasise the fact the chemistry is also fun. The demonstrations explore the themes of stability (thermodynamics) and reactivity (kinetics) looking at the driving forces behind chemical reactivity, the different forms of energy given out by chemical reactions and the factors that influence speed of chemical reactions (including catalysis). It emphasises the importance of chemistry in every day life as well as to other disciplines (e.g. biology and medicine) and to the economy as a whole. Time can be tailored also from 30 mins to 75 mins. This benefits from the experience of Peter Hollamby, a recently retired head of secondary-level chemistry.	11-16+, US, GP	10- 100+	edwardspg@cardiff.ac.uk hollambypm@cardiff.ac.uk <i>or</i> Dr Simon Pope (School's Liaison) popesj@cardiff.ac.uk 029 20874083 029 20874023	School of Chemistry, Cardiff University, Main College, Park Place, Cardiff CF10 3AT	TE. Best performed in-house (lecture theatres seat up to 220) due to transportation of demonstrations, although the show has been transported to various venues in the South Wales area and Birmingham. Plenty of notice would be required to perform the show
ELLAM, Richard	A Variety of Shows including: Much Ado About Nothing - everything you ever wanted to know about vacuums	If you suck all the air out of something you're left with a vacuum. This is pretty much like nothing, but most of the Universe is a vacuum, and some strange and wonderful things happen when there's no air around to spoil the fun. This interactive science show, suitable for KS2 and above looks at how vacuums (and the Earth's atmosphere) were discovered, how we use vacuums for far more than cleaning carpets, and, amongst other things, why you shouldn't go for a walk in space without your hat!	7-16+, GP	20- 100+	richard@lminteractive.eclipse.co.uk 01761 412 797 tel & fax	L M Interactive, 3 Winterfield Road, Paulton, Bristol. BS39 7RF	TE, £200 +VAT for one performance, £300 + VAT per day (up to 3 performances)

	Albert Einstein and the Mystery of Light	<p>Albert Einstein always said that he worked out his Theory of Relativity by thinking about what it might be like to ride on a beam of light. The basic principles of relativity are not difficult to grasp, and this lecture introduces them by looking at people's changing ideas about the nature of light from Newton's time onwards. Newton thought light was made up of particles, but 100 years later it became clear that light behaves like a wave. The search for a medium in which these waves travelled proved futile and caused a major crisis in physics which was only resolved when an unknown young scientist called Albert Einstein burst onto the scene.</p> <p>Special relativity changed the way we think about space and time, and the show ends with a brief explanation of special relativity - the best ever!</p>	11-16+, GP				
EVANS, Dr David A	New Chemistry and Genes for Agriculture	<p>One of the challenges facing mankind is how to feed its burgeoning population both safely and sustainably in a world where energy and water are set to become increasingly scarce commodities. Modern chemistry is playing its part by provision of effective crop protection chemicals which have revolutionised agricultural food production in the past half century. In the last decade, biotechnology has provided a complementary approach in which plants have been genetically-modified to self protect against the scourges of pests and diseases. There is much future promise in modifying plants to produce some of the chemicals and pharmaceutical products that we need – we can thus envisage fields as potential chemical factories where the major raw material is sunlight – one of the few truly sustainable energy sources. But...can the public be convinced of the benefits of these approaches?</p>	16+ US, GP	ALL	<p>dae.jeevans@btopenworld.com</p> <p>01252 793075 tel/fax</p>		TE if > 30 miles
EWINS, Dr Ciaran	Soaps, Bubbles and Membranes	<p>An interactive demonstration lecture that explores many aspects of soap films. Such as why do we see colours in bubbles, why are bubbles spherical and why are bubbles important in Science? Talk also involves a number of demonstrations using dry ice.</p>	Can be tailored to suit any age.	ALL	<p>Ciaran.ewins@paisley.ac.uk</p> <p>0141 848 3206 0141 848 3204</p>	School of Engineering & Science, University of Paisley, High St, Paisley. PA1 2BE	TE

FIELDING, Profr Helen H	Fireworks, Stars and Electrons or Taming the Electron	New 21st century techniques using ultrafast lasers - with pulses of light as short as a few millionths of a billionth of a second! - enable us to actually see individual electrons moving within atoms and molecules. How is this possible? What are the strange interference phenomena that can be observed? And how exactly do we turn an electron into Schrödinger's cat? Demonstration lecture.	16+, US, GP	40-100+	h.h.fielding@ucl.ac.uk 020 7679 5575 020 7679 1101	Department of Chemistry, University College London	No charge for schools, TE for others. Commutable in a day. Normal working hours preferred.
FREY, Dr Jeremy G	The Ozone War	45-50 mins	eleven - 18	ALL	contact Sue Pipe S.M.Pipe@soton.ac.uk 023 8059 4118	School of Chemistry, University of Southampton, Southampton. SO17 1BJ	TE
GOODALL, Dr David C	Chemistry in Coins	The significance of chemistry in coin manufacture, aesthetics and coin conservation. Chemical analysis of ancient coinages & its relevance to the interpretation of historical events. 45 mins	14-16+, US, GP	ALL	n/a	Strathmore, Silver Mill Hill, Otley. West Yorkshire. LS21 3BJ	TE
GORE, Dr Bryson	Chemistry is Elemental	This lecture traces the development of the periodic table from ancient Greece to the present day using demonstrations to show how the concept of periodic properties has withstood the passage of time. Additionally, by looking at extracts from the life and work of the 19th century's most famous chemist we will demonstrate how analytical chemistry and Greek philosophy answered the most fundamental question in Chemistry.	11-16+, US, GP	20-100+	omniscience@blueyonder.co.uk www.omniscience.info 020 7226 4610 020 7690 4589	106 St Thomas's Rd, London N4 2QW	?
	Rates of Reaction: Turning a Whizz into a BANG!	Chemical reactions are vital to modern society because they produce the chemical compounds upon which we rely, but chemical reactions are also fascinating as they enable us to visualise the structure and properties of matter on a sub-microscopic scale. By using numerous demonstrations, this lecture explores the concepts of mixing, temperature and catalysis to help us visualise the steps involved in any chemical reaction.	11-16+, US, GP	20-100+	omniscience@blueyonder.co.uk www.omniscience.info 020 7226 4610 020 7690 4589	106 St Thomas's Rd, London N4 2QW	?

GRIFFIN, Prof Roger J	Drug Hunting: The Search for New Medicines	Both traditional and modern approaches to the discovery of new drugs will be discussed. 30 - 45 mins.	16+, US, GP	20 - 100+	r.j.griffin@ncl.ac.uk 0191 222 8591 same for fax	School of Natural Sciences - Chemistry, Belson Building, University of Newcastle, Newcastle upon Tyne. NE1 7RU	TE - depends on distance
HARWOOD, Professor Laurence M.	Colourful Chemistry	Try out "vibrochemistry", watch chemical amoebae run around, see how gold can sometimes be purple, tell the time with chemical reactions, listen to hydrogen atoms, find out how insects brighten up their sex lives by getting the chemistry right or simply turn water into wine. A light-hearted demonstration lecture looking at chemical phenomena associated with light and colour with a few explanations thrown in for good measure. Please note that, due to the nature of the chemicals needed for the reactions, I can only carry out the lecture at the School of Chemistry at Reading University. Audiences of around 125 can be accommodated within Chemistry and up to 400 can be accommodated in the Palmer Building auditorium on campus. Prior booking is necessary. There may be a charge for use of the Palmer Building.	11-16+, US, GP	100+	I.m.harwood@reading.ac.uk 0118 378 7417 0118 378 6121	School of Chemistry, University of Reading, Whiteknights, READING RG6 6AD	Please note that I can only carry out the lecture at Reading University.
HEARD, Professor Dwayne C	Our Atmosphere: Chemistry Matters!	<ul style="list-style-type: none"> • The atmospheric problems we are facing • Why chemistry is at the heart of understanding our atmosphere • Sunlight initiated reactions and the destruction of ozone • Nature's detergent - the hydroxyl radical • Why chemical measurements in the atmosphere are important 	14-16, US, GP	ALL	d.e.heard@leeds.ac.uk 0113 343 6471 0113 343 6565	School of Chemistry, University of Leeds, Leeds. LS2 9JT	TE. Prefers trips which can be managed in the same day.
HODGSON, Dr Annie B	Colourful Chemistry	A demonstration lecture showing that as chemists we can use colour to give us information about reactions, but also showing that we can use chemistry to brighten up all our lives by providing us with colour. For some demonstrations a portable fume cupboard or suitable ventilation is required. It is necessary to be able to black out the room. Access to a gas supply would be useful. 30 mins, but could be extended.	14-16+, GP	40- 100+	abh2@york.ac.uk 01904 433022 01904 432516	Department of Chemistry, University of York, York. YO10 5DD.	TE and a contribution to the cost of chemicals would be appreciated. Within driving distance of York, for longer journeys by train, the host may need to provide some chemicals & equipment.

HOLLOWAY, Prof John H OBE	Art in Science ; Science in Art	The lecture is about visual order and form and function. Three projectors and three screens are used to compare and discuss science/art images. The lecture is also available via PowerPoint	11-16+, US, GP	100+	jhh2@le.ac.uk 0157 282 0276	5 Hall Gardens High Street East Uppingham Rutland LE15 9HG	TE + £200 for large public lectures
	Fluorine The Ultimate Combiner	This lecture is illustrated via PowerPoint and includes video, models and demonstrations that explain why fluorine compounds behave as they do and how they are applied.	14-16+, US, GP	100+			
	Fluorine the Tyrannosaurus Rex of the Elements	This lecture is embellished with films/slides, models, etc and explains why compounds of fluorine behave as they do and how they are used to benefit people.	14-16+, US, GP	100+			
HOLMES, Dr Elaine	Chemistry in Medicine	A description of different uses of chemical techniques in solving medical problems. 30-60 mins.	14-16+, US, GP	ALL	Elaine.holmes@imperial.ac.uk 0207 594 3220 0207 594 3221	Biological hemistry, SAF Building, Imperial College, Exhibition Road, S. Kensington, London. SW7 2AZ.	No charge. Willing to travel in and around London.
HUNT, Anya	Adventures in Forensic Science	Various talks targeted to the audience looking at the use (and abuse) of forensic science. Looking at the science, how it works and interesting case histories of science in action (cases where possible relevant to the local area).	ALL, US, GP	ALL	anya.hunt@lgc.co.uk 01928 513610	LGC Ltd., The Heath, Runcorn. Cheshire. WA7 4QX	TE. Prefers evenings, days by arrangement.
ISENBERG, Dr Cyril	Soap Films & Bubbles	Soap films & bubbles provide a visual medium for demonstrating energy principles in chemistry. The lecture demonstration demonstrates numerous examples and applications. 60 min.	16+	40+	C.Isenberg@kent.ac.uk 01227 823768 01227 456084	School of Physical Sciences, University of Kent, Canterbury. Kent. CT2 7NR	Prefers to give evening lectures
JASPARS, Professor Marcel	Drugs from the Deep	Over 60% of the drugs we use today are derived from natural sources. The oceans, covering 70% of our planet, provide a rich source of new organisms which can be explored for their potential to produce compounds which can fight disease, from cancer to viral, bacterial and parasitic infections. The lecture covers chemistry, biology, ecology and pharmacology.	11-16+, US, GP	ALL	m.jaspars@abdn.ac.uk 01224 272895 01224 272921	Department of Chemistry, University of Aberdeen, Old Aberdeen, AB24 3UE.	TE

JOHNSTON, Ian	Rocket Science	There are two events offered, workshops and lectures. The workshops are pitched at various levels from 10 years old upwards. All workshop events culminate in building model rockets and launching them to altitudes of up to 300m, before they return to earth safely under a parachute. Older groups do various additional experiments to derive the data necessary to predict the altitude the models will reach.	9-11 wrkshop only, 11-16 + US = wrkshop+ lecture	ALL for lecture s worksh op max 30	ian_johnston@onetel.com 01905 773406 tel/fax	34 Moreland Road, Droitwich. WR9 8RN	Lectures £150, Workshops £150, £6 per person. Anywhere in W Midlands, elsewhere TE
JONES, Graeme	Sex, Flies and Smelly Sticky Tape	How do you chat up a moth? Do bees only say "Buzz"? Parlez vous ant-speak? If you have ever wanted to talk to insects then this is your chance to learn their lingo. Plus can pheromones get you out of that awkward 'asking her out moment'? Come prepared for the nasal experience of a lifetime! See www.makeitmolecular.com for more details and reviews	11-16+, US, GP	Up to 700	g.r.jones@keele.ac.uk 07816 210239		TE+negotiated fee. Large projection screen in darkened room. LCD projector - will bring own laptop and can bring projector if required.
	Saturday Night Science	Can reaction dynamics explain that boy meets girl moment? Can studying spectroscopy turn you into a John Travolta on the dance floor? Can Chemistry help you Pull? Come along to this scientific guide to a night out on the town and find out were you have been going wrong. Includes the latest in condom science. Warning – CONTAINS NUTS A hands-on activity if you strike lucky. See www.makeitmolecular.com for more details and reviews	16+, US, GP	Up to 900	g.r.jones@keele.ac.uk 07816 210239		TE+negotiated fee. Large projection screen in darkened room. LCD projector - will bring own laptop and can bring projector if required.
	makeitmolecular	makeitmolecular is all about molecules. You can make a model of a molecule and have your picture taken with it, from caffeine to teflon, vitamin C to prozac, or why not invent your own! Reconnect with your molecular world Great for science festivals and science activity days. See www.makeitmolecular.com for more details and pictures.	5 -16+, US, GP	Group s of 20	g.r.jones@keele.ac.uk 07816 210239		TE+negotiated fee.
	Mega Mols	These huge molecular sculptures have become the stars of the molecular model world. Somehow molecules become alive when they are on a mega scale and you can walk around them, touch them and even ride them! They are suitable for all sorts of events from science days, exhibitions to parades. See www.makeitmolecular.com for more details and pictures.	5 -16+, US, GP	Group s of 20	g.r.jones@keele.ac.uk 07816 210239		TE+negotiated fee. Large outside or indoor space required for display and assembly

JONES, Dr Simon	Nature's Chemistry Set	Remember the Chemistry set that you had for Christmas? Well Nature has the biggest one ever made and can be much better at doing chemistry than chemists are. In this lecture we look at the building blocks that Nature uses to build organisms and some of the tools it uses to keep them working. We will also take a glimpse at some of the amazing ways in which organisms talk to each other and fight for survival.	14-16+	40-100+	simon.jones@sheffield.ac.uk 0114 233 2822 0114 222 9346	Department of Chemistry, Dainton Building, University of Sheffield, Brook Hill, Sheffield. S3 7HF	TE+ cost of consumables (£20-30).Willing to drive for 2 hours.
LOWRY, Dr Roy B	Flash Chemistry	The first law of thermodynamics is emphasised and energy level diagrams used to explain topics such as combustion, florensence and chemiluminescence. Uses include catalytic converters, soap power, light.	14-16, GP	ALL	R.LOWRY@PLYM.AC.UK 01752 233017 01752 233035	University of Plymouth, Drake Circus, Plymouth. PL4 8AA	£100 plus fuel. Set up time 30-45 mins, Talk 40-60 mins. Venue requirements: 13A socket 2m of flat, stable, table top, NO (or disabled) SMOKE DETECTORS. AV, table protection & all chemicals provided
MACDONALD, Averil	Fantastic Plastic	What is the link between disposable nappies and zero pollution cars, between lego blocks and cress, between false legs and slime? They are all polymers. This talk takes you on a journey through the life history of a polymer, from how it is generated to how it can be used to make you a millionaire!	14-16+	100+	amm4@soton.ac.uk 01962 859989	5 Wentworth Grange, Winchester	£250 or pro rata. 40p per mile. Some funding may be available from EPSRC for state schools.
MACDONALD, Dr J N	Molecules in the Milky Way Galaxy and Beyond	During the 1970's and 1980's much to everyone's amazement the existence of polyatomic molecules in interstellar space was established through a combination of laboratory based microwave spectroscopy and radioastronomy. Nowadays a wide range of complex molecules is known to exist and the challenge is to understand their origin, chemical and physical behaviour and purpose. Their very existence in our own and other galaxies has transformed our view of stellar evolution and galaxy formation. The lecture will describe the search for molecules in space and attempts to understand their role in the Universe as a whole.	14-16+, US, GP	ALL	j.n.macdonald@bangor.ac.uk 01248 388433 01248 370528	Department of Chemistry, University of Wales Bangor., Deniniol Road, Bangor, Gwynedd. LL57 2UW.	TE, accommodation if required. Darkened room with adequate blinds/curtains needed.

MIGAND, Dr Marie E HARDACRE Prof Chris	A Volatile Chemistry	This is a demo lecture where chemical principles associated with "smell" are addressed through the use of a PowerPoint presentation and hands-on experiments with the participation of the audience; The principles covered are for instance: volatility of molecules, functional groups and types of smell; chirality; isomerism; chemoreceptors (receptor vs enzymes) and molecule binding/recognition: different types of molecular interactions.	14-16+	20-100+	m.migaud@qub.ac.uk 02890 974339 02890 382117	School of Chemistry; Queen's University Belfast.	TE
MORGAN, Dr Geraint Huw	1. From the Moon to Mars: The Story of Beagle 2 and Beyond. 2. Chemistry in Space: The Search for Life. Variations of above including...Technology Transfer from Space.	The Beagle2 mission captured the imagination of the country with its bold ambition of investigating our neighbouring planet for signs of present and past life. The talk will describe the scientific rationale behind the mission and in particular the development of the Gas Analysis Package (GAP). GAP was the distillation of decades of work analysing meteorite samples in the laboratory, miniaturised in to a form suitable for inclusion in the Beagle2 lander. The chronology of the design and build processes for GAP, including the development of the Rosetta instrument will be described and illustrated with video footage from the period. Following the events of Xmas 2003, the talk will conclude by suggesting solutions to the question...'where do we go from here?'	ALL	ALL	g.h.morgan@open.ac.uk 01908 655180 01908 858022	Planetary and Space Sciences Research Institute, The Open University, Walton Hall, Milton Keynes, MK7 6AA.	TE
NICHOLSON Professor John	Molecules and Murder - the chemistry of poisons	An account of the chemistry of poisons with emphasis on arsenic, strychnine, cyanide, hyoscine and thallium. The lecture includes details of historical examples of murder cases involving these poisons and detail of the chemistry suitable for 'A' level students or above (though it could be modified for less technical audiences).	16+, US, GP	ALL	J.W.Nicholson@gre.ac.uk 020 8331 9965 020 8331 9805	School of Science, University of Greenwich, Chatham, Kent. ME4 4TB	TE, no limit on distance
O'BRIEN, Prof Paul	Nanotechnology, Understanding the Potential	Nanotechnology Master Class or Nanotechnology Understanding the Potential.	16+, US,GP	ALL	Paul.Obrien@manchester.ac.uk 0161 2754652/3	School of Chemistry, University of Manchester.	TE, PowerPoint presentation
OSBORNE, Dr Alan G	Chemical Detectives - Putting Spectroscopy to Work	Interactive session with A Level students. Students are required to identify sample from scene of crime. Students become chemical detectives and earn rewards. Useful practice for A Level chemical instrumentation course.	16+	20-40	dimequin@bushinternet.com 020 8590 2021	7 Farley Drive, Seven Kings, Ilford. Essex. IG3 8LT	TE. Consumables of about £10. Prefers pm. Only requires overhead projector.

	Travel: Circle to Circle	A travel presentation about my experiences in the polar regions, also includes fuel efficient road vehicle section to conclude	Any age, also suitable for non-specialist audience					Require 35mm slide projector only
PEARCE, Prof Frederick L	Allergies: Wheezes and Sneezes, Itches and Rashes	Describes the cellular basis of allergic diseases, including asthma, & hayfever, & methods for their treatment. 45 mins	14-16+, US, GP	ALL	f.i.pearce@ucl.ac.uk 020 7679 7235	University College, London, 20 Gordon Street, London WC1H 0AJ	TE	
PEARCE, Steve	Flavours, Fragrances, or Food	Will cover anything with flavours, fragrances or food – history, development, chemistry and applications – including creating and formulating products. Will tailor-make presentation to suit requirements either curriculum wise or according to age and interests of the group.	5-16+, GP, US	ALL	steve@maverickinnovations.co.uk 01728 726627 01728 726533	Maverick Innovations Ltd, The Technology Centre, Station Road, Framlingham, Suffolk IP13 9EZ	TE	
	“Chemists don’t just wear white coats”	Career orientated talk	5-16+, GP, US	ALL				
PHILLIPS, Prof Geoffrey F OBE	Detecting Drugs of Abuse	Smuggling encountered and analytical technology deployed. 60 mins	16+ or GP	20-60	philcons@computerserve.com 01322 524611 0774 887 1379	62 Parkhill Road, Bexley, Kent. DA5 1HY	TE	
	Controlling Drugs of Abuse	Legislation and supporting analysis (including stereochemistry). 60 mins	UG/GP	20-60				
	Protecting the Environment	A wide ranging overview of man-made insults. 60 mins	16+ or GP	20-60				
	Protecting the Environment	An analyst's perspective. 60 mins	UG/GP	20-60				
	Milestones in Chromatography	Development of separative techniques in the 20th century. 60 mins	UG/GP	20-60				

PILLING, Professor Mike	Chemistry in the Atmosphere	Chemistry plays an important role in the atmosphere, influencing climate change, stratospheric ozone depletion and air quality. The lecture covers the underlying science and describes how the atmosphere can be investigated in field experiments – on the ground, in aircraft and from satellites. We need to be able to predict how the atmosphere will behave and this is achieved through models, that are based on the atmospheric measurements.	14-16+, US, GP	ALL	m.j.pilling@leeds.ac.uk 0113 343 6450 0131 343 6401	School of Chemistry, University of Leeds, Leeds. LS2 9JT	No charge
PLEVEY, Dr Ray & Mrs Rosemary	Chemical Magic	A visual presentation, a kaleidoscope of chemical reactions demonstrated in a light-hearted manner. A melange of observations, sometimes old, maybe something blue (a quick flash perhaps) etc pass before the eyes. Results predictable or unexpected create an atmosphere of magic to the uninitiated but to those in the know - it's just chemistry, a collection of elements which compounded together make us and our world.	7-16+, US, GP	40- 100? 100+	r.g.plevey@bham.ac.uk 0121 475 2266 (tel & fax) or 0121 414 4403 (fax)	Sch of Chemistry, University of Birmingham, Birmingham B15 2TT <i>or home:</i> 46, Bryony Road, Selly Oak, Birmingham B29 4BU	TE+accomodation. Normally not more than 150 miles but would consider more. Prefer late morning onwards.
PULHAM, Dr Colin R	Chemistry of the Stars	In this exciting demonstration lecture find out about how elements are made in stars and what sort of chemistry might be associated with the 'stars' of stage and screen - Posh and Becks, Kylie, the Vicar of Dibley, Joe Pasquale and many others. Explore the properties of the elements and their compounds and discover how we can use them to make heat, light, sound and electricity. Find out how metals and their compounds can be used to protect us from harmful rays and can cure disease. Approx. 60 mins www.chem.ed.ac.uk/chemcon	12-14, 15-17	ALL	C.R.Pulham@ed.ac.uk 0131 650 4756	Based in Edinburgh, but will travel throughout Scotland and Northern England.	Free. Sponsored by EPSRC.
PYBUS, David	Creative Perfumery, Perfumes Lost in Time, Flavours	David has a selection of one hour PowerPoint presentations which 'take the sigh' out of science.	16+	min30, prefers a crowd	david.pybus@pandorald.com H:01303 262253 M:07711195113	41, Alexandra Corniche, Hythe, Kent. CT21 5RW	£500+TE for one, £600 for two on the same day. Preferably in South East/London. Needs one hour to set up. Prefers lecture theatre.
REEDER, Paul S	Why I'm A Chemist.	Talk directed to appropriate audience as to why I'm involved in chemistry. 30 mins	?	?	Paul@reeder91.fr eeserve.co.uk	102 Fairhope Avenue, Morecombe. LA4 6LA	TE

SELLA, Andrea	Chemistry Near The Edge	This exciting lecture is ultimately aimed at gaining an understanding of oscillating reactions and illustrating the links between chemistry and biology. The discussion of oscillators is underpinned by many examples of halogen chemistry (e.g. photochemical substitution of alkanes, iodine thermometry, redox reactions etc.) which make it particularly suitable for A level students (or even undergraduates). The material can be tailored for other audiences as well.	16+, US, GP	100+	a.sella@ucl.ac.uk 020 7679 4687 020 7679 7463	Department of Chemistry, UCL, 20 Gordon Street, London. WC1H 0AJ	TE for fee paying schools. Unless transport is provided, limited to within taxi ride of Euston station.
SHALLCROSS, Prof Dudley <i>and</i> HARRISON, Tim	A Pollutant's Tale	A lecture demonstration that covers the composition of the Earth's atmosphere in comparison to other planets, the structure of the atmosphere, an investigation of some of the chemistry and properties of nitrogen and oxygen, a few of the tropospheric pollutants and climate change and what can be done to minimise human impact. Throughout the lecture there are chemistry demonstrations including those involving liquid nitrogen, oxygen foam, dry ice and a few explosions. There is also an element of audience participation. Aspects of elementary Chemistry are reinforced during the lecture.	US, GP, versions for 11-14, 14-16 and 16+	ALL	t.g.harrison@bristol.ac.uk or sue.williams@bristol.ac.uk 0117 928 8663 0117 925 0612	Bristol ChemLabS School of Chemistry, Cantock's Close, University of Bristol. Bristol BS8 1TS	£175 for the first lecture, £75 for subsequent upto 4 per day plus TA if more than 1 hr from Bristol. Data projector and screen required.
SMITH, Prof Keith	The Need for Cleaner Processes	Power point presentation on the need for cleaner processes and research aimed at finding such processes.	11+	ALL	smithk13@cardiff.ac.uk 029 20 870600 (tel & fax)	School of Chemistry Cardiff University Main Building Park Place Cardiff, CF10 3AT	TE
SMITH, David K	Medicine Beyond the Molecule	In the last 150 years, the human lifespan has almost doubled. This lecture outlines the crucial role in this achievement played by chemists, who have developed many effective medicines. Using illustrations, audience participation and demonstrations, we will explore what happens to drug molecules inside the human body. Most importantly, we shall begin to think 'beyond the molecule' and uncover the way in which the chemical drug interacts with the biological patient.	14-16+, US, GP	20- 100+	dks3@york.ac.uk 01904 434181	Department of Chemistry, University of York, York. YO10 5DD.	TE
SNOWDEN, Prof Martin	Additives in the Diet	This talk reviews additives in the diet and explains their role. A short extract of a QED video is shown on the effect of additives on childrens' behaviour. This is followed by a short discussion. 60 mins	14-16+, GP	ALL	m.j.snowden@gre.ac.uk 020 8331 9981	Medway Sciences, University of Greenwich, Medway Campus, Chatham. Kent. ME4 4TB	TE

STILLINGS, Professor Mike	Aspirin, Cancer and Rotten Apples	The story of salicylic acid and particularly aspirin is a fascinating one, it was first synthesised over a hundred years ago but new information on its uses are still coming to light. The presentation starts with the history of aspirin and explains how it was first used as a treatment for pain, inflammation and fever. It then goes on to talk about its use by millions of people in cardiovascular disease and finally discusses its prospects in the prevention of cancer. At the very end there is raised the intriguing proposition that our preference for undamaged fruit and vegetables might actually be harmful and links that to a lack of salicylic acid in our diet....hence the title.	16+, US, GP	ALL	mike.stillings@reckittbenckiser.com 07710 033143	A710 Beverley Road, Hull. HU6 7JG.	No charge
STYRING, Dr Peter	Chemical Engineering in the Kitchen	45 min	7-11, 11-14, US, GP	20-40	p.styring@sheffield.ac.uk 0114 222 7571 0114 222 7501	Department of Chemical and Process Engineering, The University of Sheffield, Sheffield S1 3JD	TE / 60 mile radius
THOMPSON, Dr Richard L	Ion Beam Analysis - Snooker with Atoms	Newtons laws of motion were used by Rutherford nearly a century ago to interpret the scattering of alpha particles from a gold foil. This led to the discovery of the structure of the atom - the ion beam analysis techniques that have evolved from this experiment now allows us to study the surfaces of materials by 'playing snooker with atoms'. Examples of applications range from airborne analysis to the science behind air conditioners.	14-16+, US	ALL	R.L.Thompson@dur.ac.uk 0191 3342139	Department of Chemistry, University of Durham, Durham. DH1 3LE	TE if > 20 miles
TREACY, Dr Jack	Urban Pollution - "A Bad Air Day"	This PowerPoint presentation describes the basic chemistry and meteorological conditions which lead to photochemical smog formation in urban air.	16+, US, GP	40-100	jack.treacy@dit.ie 353-1-4024632	Sch of Chemistry Dublin Institute of Technology 143-149 Rathmines Road Dublin 6 IRELAND	TE
WALTON, Prof Paul H	Chemistry comes to Life	The lecture will describe the ways in which the chemical elements are involved in organisms - the subject is sometimes called Biological Inorganic Chemistry.	11-14, 14-16, GP	ALL	phw2@york.ac.uk 01904 432500	University of York, Heslington, York. YO10 5DD	TE

WILLIAMS, Prof D Lyn	The Amazing Roles of Nitric Oxide	A two part lecture describing the recently discovered amazing roles of Nitric Oxide in the body (the good news) and its role in pollution (the bad news). 45 mins	16+, US, GP	ALL	D.L.H.Williams @durham.ac.uk 0191 386 5670 0191 384 4737	University of Durham, South Road, Durham. DH1 3LE	TE
WILLIAMS, Prof David R	Cohabiting - Chemistry and Comedy	Understanding the complex chemistry is easier through humour which also helps the lay person's perception of the benefits of chemistry and how hazards are risk-managed.	US, GP	ALL	williams.stfagans @btinternet.com 029 2056 8178	Cerrig Llwydion, St Fagans, Cardiff CF5 6EF	TE, PowerPoint projector and computer essential (Windows XP)
	Beer and Health - 7000 Years of Known History	Beer played a part in the evolution of civilisation. Invading armies, religious ceremonies and life-span benefits are illustrated with 80 pictures.	US, GP	ALL	029 2056 8178	Cerrig Llwydion, St Fagans, Cardiff CF5 6EF	TE, PowerPoint projector and computer essential (Windows XP)
WILLIAMS, Prof Robert J P	(a) Biological Inorganic Chemistry (b) A Chemist Looks at Evolution	The lecture will describe the ways in which the chemical elements are involved in organisms - the subject is sometimes called Biological Inorganic Chemistry.	16+, US, GP	ALL	Bob.Williams @chem.ox.ac.uk 01865 558926 (answerphone)	Wadham College, Oxford. OX1 3PN	TE
WILSON, Lorelly	Chemistry with Cabbage-Parents/PTAs	An hour of chemistry experiments which gives parents ideas for experiments that they can do at home with their children and encourages them to make up a chemistry set.	parents	ten-40	wilson.underwood @lineone.net 01565 653279	Underwood, Glebelands Road, Knutsford, Cheshire. WA16 9DZ	TE
WORLEY Robert	Is Chemistry A Risky Business		14-16+, Education US, GP	ten-40	robert.worley@virgin.net 0208 567 6287	Chemistry Advisor at the CLEAPPS School Science Service. 77 Elthorne Avenue, Hanwell, W7 2JZ	TE, Within 50 miles London, though can be delivered en route to other destinations further afield.
	Reduced and Microscale Chemistry		Education US, Teachers, Technicians	ten-20			

Apr-08

If you would like to amend or add entries to this RSC Presenters List,
please contact Pauline Meakins, RSC, Thomas Graham House, Science Park, Milton Road, Cambridge CB4 0WF
email: meakinsp@rsc.org tel: 01223 432266