

50 years of neutron scattering

Over 70 colleagues of Prof George Bacon met at The Cosener's House, Abingdon to celebrate his 80th birthday and the 50th Anniversary of neutron scattering in the UK. Current staff and retired scientists from UKAEA AEA/T, Rutherford Appleton Laboratory and European universities attended the unique event.

George is regarded as the 'father' of neutron diffraction, having built the UK's first neutron diffractometer on the GLEEP reactor at Harwell in 1947. His book 'X-Ray and Neutron Diffraction', published in 1966, is regarded as the definitive textbook by thousands of neutron physicists. He is still actively engaged in research work and was recently awarded the Honorary Degree of DSc as Emeritus Professor of Sheffield University, for being "an acknowledged pioneer and one of the most respected names in the field of neutron scattering".



A youthful George Bacon from around 1950, who celebrates 80 this year.

New bus service

Another small but significant step has been made to improve public transport for staff travelling to and from Harwell International Business Centre (HIBC). In addition to the existing JCL Home to Work scheme, a new bus service will run three times a day between the site (stopping at North Drive) and Dicot.

"We are pleased to see a new bus service which passes the front of the site. Hopefully it will be well used and we can liaise with the operators to bolster the service in the future," comments commercial manager, Ian Rodham. "We have built up a good relationship with the county council's transport department, working in particular with the Travelwise team, and HIBC was the founder sponsor of its 'Good Ways to Work' document".



A gastronomic photo of neutron scatterers (formed by Drs Paster, Bacon and Curry). Courtesy of RAL.

The day, which included a conference and celebration dinner, was organised by Sheffield University and sponsored by the British Crystallographic Association, the Institute of Physics and the Royal Society of Chemistry. Many of the guests had worked with him on a number of European reactors and pulsed source systems and enjoyed the reunion with their former mentor.

Among the guests were Dr Graeme Low, former director of Harwell, and Dr Peter Schönfeld, also from Harwell, and former director of the High Flux Beam Reactor at the Institut Laue-Langevin (ILL), Grenoble; Mick Lomer, a director of Culham together with scientists, past and present, from Harwell and RAL.

Mick Lomer gave an historic overview of the research field, describing how the study of the physics of the solid state grew in importance at Harwell using powerful neutron diffraction and time-of-flight techniques. Dr Taylor

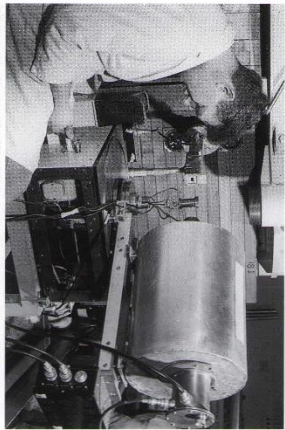
director of the ISIS facility at RAL, described how neutron scattering had developed from high flux reactors to high frequency accelerators. He commented that the UK leads the field with 1,000 scientists out of a European total of 4,000 neutron scatterers. "In 50 years the application of neutrons has broadened out from physics and chemistry to most of the scientific disciplines", he said.

Professor Bill David, also from the ISIS facility at Rutherford, described how modern computers had

increased neutron data gathering from a few hundred data points/day in the 1950s to over 150 million/day in 1997.

The older neutron pioneers were staggered to hear that it was now quite normal to do a neutron diffraction scan, of around 1600 points, in just 60 seconds!

Other lecturers included Prof John Enderby, FRs from Bristol University and the master of ceremonies was Prof Alan Leadbeter, Grenoble. The after-dinner speech was given by Prof Sir Bill Mitchell FRs, from Oxford University.



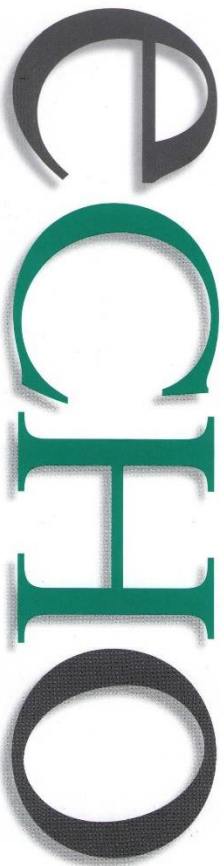
Bill Lomer working on the M4T Neutron Diffractometer on the HIB Home in DIDO in 1959.

THE COPY DEADLINE FOR THE NEXT ISSUE IS: Monday 29 June for publication on Wednesday 15 July 1998.



ECHO is published by UKAEA, 521 Harwell, Didcot, Oxon OX11 0BA.
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THE NEWSLETTER OF THE CULHAM SCIENCE CENTRE & HARWELL BUSINESS CENTRE

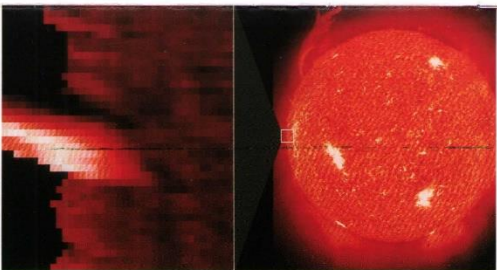
JUNE 1998

Giant tornadoes on the Sun

An exciting new discovery, that the Sun has vast tornadoes gusting up to one thousand times faster than those on Earth, has been made by a scientist at Rutherford Appleton Laboratory, Chilton.

David Pike, together with colleague Helen Mason of Cambridge University, made the surprise find when examining data and images relayed from the SOHO solar spacecraft. The spiralling columns of gas have many of the characteristics of terrestrial tornadoes. In the two years since launch, a dozen examples have been detected, occurring mostly near the north and south poles of the Sun and measuring almost as wide as the Earth itself.

This and other revelations were made at a recent international press briefing organised by the European Space Agency and hosted by CIRC Rutherford Appleton Laboratory. RAL plays an important role in the SOHO mission, including its provision and operation of the Coronal Diagnostic Imager (CDI).



This image shows a growing solar storm, wider than Africa, in gas at 250,000 degrees C, and speeds up to 500,000 km per hr.

MAST arrives

Aneventful journey across Belgium and the UK faced the 25-tonne MAST vacuum vessel before it was safely manoeuvred into place through a hole in the roof at its Culham destination.

The Megaamp Spherical Tokamak (MAST) is a 4m high stainless steel tank which UKAEA fusion scientists will use to heat hydrogen fuel to incredible temperatures to

simulate the physics of the stars.

The vessel took two years to manufacture in Liège, and required a logistics plan of great skill to transport and install it without incident. The trailer had an overall height of 4.8m, and the lowest obstruction was measured at 4.9m, giving 10cm clearance. Being 20m long and the width of two traffic lanes, the trailer and its precursors load required constant police escort.



Traffic jams and a strike at Calais caused some delay but the vessel finally arrived at Culham at 3.30am and less than 12 hours later it had 'unleaded' through the roof of the building.

This Month

2 Gifts at work



12,000 miles to go!



5 Corset was good for you



8 Happy 80th George



Petrol emissions measured

AEA Technology Environment has won a £315,000 contract from the DOE to measure level of benzene at petrol stations located close to homes. Scientists will use around 15 diffusion samplers at each of the 20 petrol stations to collect benzene for laboratory analysis. The UK has set an air quality standard for benzene as a known carcinogen.

Progress at Chernobyl

A project involving AEA Technology to find ways of handling contaminated water at the Chernobyl Nuclear Power Station has been completed. Water and steam had to be kept down into the dry dust at the building housing the damaged reactor has become contaminated with particles from nuclear fuel and could not be treated in an ordinary liquid radioactive waste plant. The study explored preparation methods and was supported by the Kozlov Hazard, a government scheme to help manage the best of British technology and expertise to central and eastern Europe. AEA Technology is also helping with other 'clean up' operations including provision of a new liquid waste plant, a dry fuel store and a solid radioactive waste treatment plant.

Chemical emergency response

The National Chemical Emergency Centre (NCEC) is running a series of one-day CHEMSAFE '1st Response' training courses to help companies in the chemical and transport industries prepare for the worst. Organised in conjunction with the Chemical Industries Association, the next two courses dates are 8 July and 17 September. To attend contact NCEC on 01235 463060.

Avoid Culham lunch

The 35th Culham Plenary Physics Summer School will take place from Monday 6 July to Friday 17 July this year when around 50 students will be using the restaurant for lunch from 12.45pm each day. Staff at Culham can avoid the queues by taking lunch before this time if at all possible.

Giving blood

The National Blood Transfusion Service would like to thank all those who so generously donated blood during their visit to Harwell in April. A total of 264 donations were made including 13 first time donors. The dates for the next Harwell drive are 8-10 September 1998.

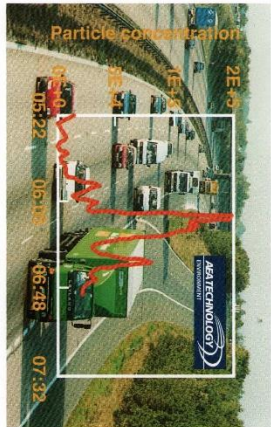
A drive for clean air

What could be nicer than a drive in the country? If you're following another car and

labouring uphill, the in-car pollution levels could well exceed those if you were standing in the centre of Oxford.

Research by AEA Technology Environment has uncovered new findings about cabin air quality which the company hopes will stimulate further, more extensive studies. It will also be of use to vehicle manufacturers trying to perfect the air conditioning and ventilation systems of the future.

In essence the research demonstrated that particulate pollution levels rose dramatically when closely following another car. This was increased still further when engines were at higher revs such as on a fast motorway, accelerating away or going uphill. One example



The changes in pollution levels directly correspond to the manoeuvres of the car being followed. Gears, gear changes, braking and acceleration all have an effect on the engine loading and the exhaust emissions.

measured a vehicle being overtaken where levels increased from a few thousand to several million particles per cubic centimetre. Levels drop quickly again as the car moves away and particles are dispersed. A natural response might be to switch on the car's air

Girls at work



Taking a moment out of their busy days are UKAEA visitors: (l-r) Louise Christensen and aunt, Jane Treanor; Geraldine Cudde and grandmother, Margaret Routledge; daughters and mothers, Alison and Lynette Baker; Rebecca and Beth Taylor; Malika and Angela Vincent; Clare and Helen Gilman; and Claire Sharpe with her father, Peter.

Both Harwell and Culham sites saw an excellent response to the annual 'Take Our Daughters to Work Day' as dozens of girls joined parents, careers, relatives and friends for invaluable work experience. "We believe that the days when women were limited to traditional female occupations are gone forever. In future we hope to see many female science and engineering graduates making a valuable contribution in these areas alongside their male colleagues."



Kirsty Todd, pictured with her father, Tom, at UKAEA Harwell, was one of the many girls who visited the Culham Science Centre.

"said AEA Technology's corporate community involvement manager, Cathy Wright.

Workplace Bullying

'Those who can, do, those who can't, bully'

In a survey of over one thousand people, one in eight said they had been bullied at work in the last five years. That equates to around 3 million on a national scale.

Bullying at work may involve constant criticism, undermining, fainthearting, exclusion, being humiliated, showed at having your work, credit or authority stolen, or fabrication of events. Whatever form it takes, the result is negative stress and anxiety that can make you ill and shatter your self-confidence and self-esteem.

More information is available from the national workplace bullying advice line on 01225 834548 or the web site: <http://www.sac-cessionlimited.co.uk/>

Making light work

A major UKAEA project costing hundreds of thousands of pounds to replace most of the street lighting at Harwell is nearing completion. Some 377 new lights and approximately 12 kilometres of cable have been installed along roads, footpaths and car parks, continuing the programme of site infrastructure improvements at Harwell International Business Centre.

The diverse collection of existing lampposts has evolved with the site over the years. Some of the oldest cast iron specimens date back to RAF days and the ageing cable was increasingly prone to failure. It was decided to upgrade the lighting with a uniform lamp design to meet the latest standards and provide improved light levels. The new lights will reduce light pollution as the lamps cast light down in an arc rather than scattering it in all directions. "Some of the old lights say on all day, but the new units have photo-electric cells which automatically switch on at dusk" comments Mike Harp of property management, who has overseen the project on UKAEA's behalf. "The work has been a considerable task with posts being sunk up to a depth of 2m and trenching across the site to lay new cabling. Most of the new lights are now on but some work is still ongoing and it will be a few more weeks before the project is complete and all the old columns have been removed."

Global expedition



With the good wishes of patron, Michael Palin, and all their friends and family, an intrepid pair will set off from Oxford in July to cycle 12,000 miles around the world to celebrate - Uluru, better known as Ayers Rock.

Engineer, Darren Locke, who works in the remote handling group at EET (he was an apprentice at Harwell from 1983-87) and his partner, Kaye Jennings, a health visitor, are aiming to raise over £12,000. This equates to at least one pound for every mile cycled and some will be easier than others. Their planned route takes in Europe, Africa, India and Malaysia, passing through sparsely populated regions, relying on



Darren is undoubtedly a keen cyclist, having cycled Mexico and Jamaica in the past, but this is his most ambitious venture to date.

remote local communities for essential food and water.

"Our final leg to Uluru starts in northern Australia where we will travel through the heart of Australia's rugged outback. We'll arrive at one of the world's most famous landmarks having hopefully, achieved our fundraising target, raised awareness of the charities and completed a ride of a lifetime!" remarks Darren.

The couple are financing the trip themselves so that every penny donated goes directly to



Reflecting on a project well done, UKAEA's Mike Harp (centre) with (l-r) Phil Houseman (AEAAT), Dave Probert (AEAAT), Brian Winsor (GCD) and Nick Roddis (AEAAT).

Safer cycling

Members of Harwell's Bicycle Users Group (BUG) Jeremy Tat (left), Marcus Jones and Martin Rickerts, survey the new cycleways and footpaths which cover a network of 1.5km around the site. They hope that the new sections will encourage those 'fair weather' and occasional cyclists to keep using their bikes for more months of the year.



REMEMBER A national Cycle to Work Day is being held on Wednesday 10 June. BUG would like to encourage as many people as possible to leave their cars at home that day and try out the pedal-powers. There are various arrangements being made for groups to meet up and cycle together and lunchtime social activities. For more details please contact either Paul Stevenson on 04152 or Nigel Smith on 04151. In addition, an open meeting is being held on Thursday 4 June (12.30-1.30pm) in the RAL Pickering area. The date to discuss progress of the Wantage to Didcot cycleway - a current BUG campaign.

the two chosen charities. Immediate Technology is a development agency working with rural communities in the third world, helping poor people develop and use technology to give them greater control over their lives. The second beneficiary is Home-Start which provides support and guidance for families with

children under five who are in crisis. Home-Start celebrates its 25th anniversary in 1998 and has a branch in Oxford. To pledge any donation please call Darren on 04498 or Val Buckingham on 012223. For up-to-the-minute details of the expedition, see <http://www.oxlink.co.uk/alun/>

D-Day Service

This Saturday 6 June, the annual D-Day Remembrance Service takes place at the RAF Memorial Stone Downs Way at 5.30pm. The service will include units from a British Legion with their colours and a procession from RAF Lyneham. Herwell will lead this year by UKAEA, chief executive, John McKesson. Everyone is welcome to attend the short but moving ceremony that remembers those who flew from RAF Herwell on the eve of the D-Day landings in Normandy in June 1944.

RAL Open Days

A final reminder that everyone is welcome to visit the Babenford Appelon Laboratory on Saturday 27 June (9am - 4.30pm) for the public open day. To attend the ordinary day, contact the commercial office on 05700, or to come on one of the H990, please contact the sales office on 05990. In general see the website on <http://www.cedex.co.uk/OpenDays98>

Oxford Physics Colloquia Lectures

Held in the Lindemann Lecture Theatre, Clarendon Laboratory, Parks Rd, Oxford at 4.15pm with tea served in the Common Room at 3.45pm.

5 June - E Nishio, Prof D Anderson, Dept of Physics, Columbia University, New York
6 June - Prof J. E. Field, Centre for medium-range Weather Forecasting at Reading
12 June - Gravitational Wave Astronomy, Prof Hoop, Dept of Physics Astronomy, University of Glasgow

BNES Lecture

The BNES Central English Branch Evening Lecture features Brian Tomkins, AEA Technology, who will present a talk entitled 'Structural Integrity in the Nuclear Industry on Wed 24 June in the ETSU Lecture Room, B53 Harwell, 9pm for 8.30pm. Energylink is welcome for 1000 free seats contact Louise Gould 19827.

Independence Day Summer Fete

On Saturday 4 July visit a summer fete with an American flavour at St Peter's church, Newlands Avenue, Didcot from 12pm-9pm. Many stalls and attractions including children's fish dance troupe, refreshments and grand draw.

RAL Christian Fellowship

You are warmly invited to attend any of the meetings (usually held in Conference Room 11, Building B3) to share fellowship. Contact: Jonathan Wheeler 827, 83189 for more information.
11 June - Bible Study, the armour of God, sinners.
18 June - Prayer, location to be arranged.
25 June - Bible Study, the armour of God, the sword of the Spirit (in the Atlas Think Room, Building B27).

Could you be a Special?

Would you like to put something back into your community, are you fit and could spare about four hours a week? If so, have you considered becoming a Special Constable with your local police force?

If you would like to know more, Chris Wwart, who works in AEAT's thermal spraying section at Harwell, has six years experience as a 'special' with Didcot Police and plenty of tales to recount. Principal duties involve patrols by foot and car and responding to call-outs for burglaries, assaults, domestic incidents and other disturbances.

"I've become more accustomed to the adrenaline rush as the years go by," says Chris, "but you still feel a little apprehensive when facing a street row or 60 people in the middle of Wallingford at night, with objects flying past! I've made around 20 arrests so far, but most of the time it's routine work, keeping harmony in the community."

There is always a shortage of applicants for this rewarding voluntary work. Women need fear no discrimination; they make up more than half the Didcot specials contingent. Although work is unpaid, uniforms, expenses and boot allowances are provided.

"We are treated as equals at Didcot and have a good relationship with regular officers," says Chris. "Our training is on the first Monday of the month



Chris carries a side handle baton and new design handcuffs which can be put on with one hand.

and topics are varied and relevant to our work. Naturally we don't have the same experience as the regular officers, so we always ask for advice or help first rather than going in to a situation cold."

When he's not working for UKAEA's SAHER team in B152, Kinmare Austin joins the Wiltshire Constabulary as a special. For over four years he has enjoyed his police duties which have included marshalling football fans at Swindon matches where clashes are anticipated. Most of his patrol work is spent walking the streets around his home village of Highworth where he feels the

Fellowship in retirement

In 1979 the Research Group Retirement Fellowship (RGRF) was formed for staff retiring from UKAEA, Rutherford, Culham and NRPB. The group currently has almost 1000 members and welcomes anyone who is about to or has retired.

To keep you in touch there is a regular newsletter and members meetings are held every month with guest speakers covering a variety of fascinating subjects with colour slides to illustrate their talks. Afterwards there is time to chat with former friends over a cup of tea.

Coach outings are arranged to various places of interest. During 1997 these included the Palace of Westminster, the

specials give that extra presence which the public demands. With a couple of young children himself, Kinmare wanted to do something tangible to make local people feel safer.

To find out more about becoming a Special Constable, contact Chris Wwart on H4558 or Kinmare Austin on H2310.

Afterlife for electrical goods

Each year the European Union produces around 7.5m tonnes of electrical waste. Have you ever wondered what happens to the growing mountain of old cookers, television sets, computers and white goods?

In 1996 AEA Technology was commissioned by the EC to study the environmental and economic impact of recovery. Assessing a number of pilot collection schemes

AEAT's results showed a wide variation in the recovery rate, ranging from just a few per cent up to 77%. The report concluded that although recycling costs are currently high, these could be reduced to improve the percentage of equipment recovered, to reap the obvious environmental benefits.

Fascinating finds

Imagine going to the doctor and being advised to drink water infused with the decay products of radon gas on a daily basis. In the first half of this century radioactive water produced by a device called an emanator was used to treat a variety of ailments including rheumatism, arthritis, nervous disorder and 'loss of vitality'!

This and other treasures are on display at the NRPB Training Centre and are a fascinating talking point for delegates attending courses at the venue. The collection is a wonderful illustration of how attitudes change with time and greater scientific understanding.

Indeed, Garth Thomas, the NRPB scientist responsible for the museum, acquired one such emanator from a Kensington lady who took a daily dose of radon enhanced water for 50 years before she passed away at the age of 96.

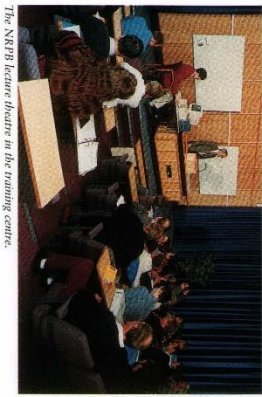
The false teeth on display contain a mixture of uranium and cerium, which was added to dental porcelains to mimic the fluorescence of natural teeth in ultraviolet light. An innocent



A radioactive coast was advertised in the Radio Times in 1929.

Learning opportunities

In coming months NRPB is holding a number of one-day awareness courses and a seminar at its Chilton training centre. The one-day courses, planned for dates in July and September, deal with all aspects of radiation emergencies and are aimed at specialist groups including NAIIR radiation experts, emergency service professionals and local authority personnel. The seminar on 30 June deals with the HSE's revised Ionising Radiations Regulations and will be of interest to managers, safety officers and senior radiation protection supervisors. For more information on any of these courses, please contact NRPB training section on 01235 822701.



The NRPB lecture theatre in the training centre.



This 'O-Rad' electro-radiometer compass was claimed by the manufacturer to reduce many complaints from arthritis to phlebitis and would be placed against the part of the body needing treatment, even the head.

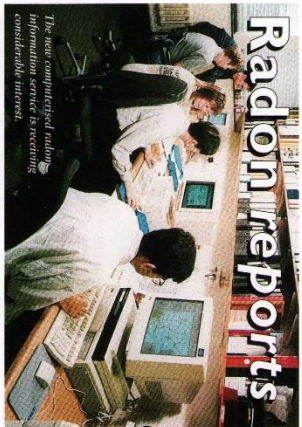
looking 1970's kitchen tile and ceramic mug with cheerful orange glaze contain salts of uranium - which naturally occur in pitchblende or uranite - as do the yellow and orange colours in enamelled jewellery. An isolate containing tritium was used by anglers for nighttime fishing because it glows in the dark with fluorescent material.

Earlier this century radioactive materials were used to be generally efficacious and radium and thorium were added as a valuable ingredient to powders, face rums and ornaments. Other products such as radium leather dye, radium kitchen cleaner and radium shoe polish did not contain any of the substance but wished to be associated with its beneficial effects at the time.

Radon reports

A question often raised by solicitors and others during house conveyancing is whether a property is in a radon-affected area. In response to this demand NRPB has launched a new service to provide individual property reports. Initially, the service covers England but will be extended to other parts of the UK in the future.

Each report costs just over £20 and includes radon measurements both within the local authority area and the immediate locality of the property, as well as estimating



The new computerised radon information service is receiving considerable interest.

Harwell

RECREATIONAL ASSOCIATION

Laboratories



A fine looking specimen (the fish isn't too big either!) The Angling Club Chairman Pete Cairns with a 6lb+ tench.

Summer angling

The Harwell (formerly AEBE) Angling Club is still going strong since its formation in 1954! Members have always enjoyed good return from two very attractive Authority owned waters. A six-acre gravel pit contains a good head of greenhead carp and perch, roach to 1 1/2 lbs and just last month a 2 1/2 lb perch was landed. Members can also enjoy a short length of the Thames including a weir and approximately seven swims that are home to double-figure banded large chub and most other river species, notably pike. Both waters are situated just off All Saints Lane, Sutton Courtenay by the Fish public house.

During the summer months the club runs six matches and an open invitation contest to cater for the competitive element. Any HLRA member is eligible to join, plus associated members at the committee's discretion. The first match will be held on 6 June with the draw at 6.20am and fishing from 7am to noon. For more details contact either Pete Cairns or Bill Ross on H4303 or Neil Mudge on H42309.

Culham vs Harwell!

The great annual tradition with the snappy title - IHTRA-AEA! Environment, Sporting Challenge - is being staged between 13-24 July and is crammed full of events and social activities on and off-site. You don't have to be a sports fanatic to take part and it's a great way to meet new people and, above all, have fun. Events include ladies and men's football, tennis and table tennis. Laser Quest, volleyball, badminton, cricket, kabaddi & croquet, a treasure hunt, rounds, frisbee, ten pin bowling, golf, pub games and quiz and silly games (no elaboration here). After the fiercely fought contests, goodwill between competitors will be restored with a picnic, BBQ, or a trip to the pub. Watch the AEA! Environment social bulletin board for timesheets or contact Colin Moody on H3343.

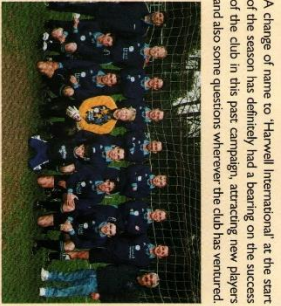
Limbering up at lunch

The Harwell Yoga Club meets at the Recreational Association building at lunchtime on Tuesdays, Wednesdays and Thursdays. We do a series of gentle exercises that maintain

Crash driving course?

Space a thought for UKAEA's Teresa Fulker who will be exhibiting her driving skills behind the wheel of a loaded car transporter, a double decker bus, an HGV and a JCB in front of a critical audience - her family and friends! Teresa who works as a receptionist in B321, is just 5'1" in height, but has accepted the Ladies Driving Challenge at the former RAF Upper Heyford airbase on 27 June. All funds raised as a result of her efforts will be donated to Marie Curie Cancer Care in Oxon and Berks. If you would like to sponsor Teresa please call H3562 (attempts).

Football success



A change of name to Harwell International at the start of the season has definitely had a bearing on the success of the club in the past campaign, attracting new players and also some questions whenever the club has ventured.

The 1st team, sponsored by the Harwell International Business Centre, with strip reflecting the may/maze corporate colours, gained promotion at the first time of asking, returning back to division one of the N Berks League. The team is pictured here with chairman/manager, Don Grant (far right) and co-manager, John King (left).

Sponsored by 2 Cousins Access, the reserve team (below) consolidated its position in division three of the same league and created club history by becoming the first side to win a N Berks Challenge Cup. They captured the Marine Paul Challenge Cup being triumphant over Long Wheatlan reserves by four goals to two on Wangan Town's excellently prepared ground on 2 May. The photo was taken after the match and includes co-managers Bob Gibbs and Chris Salmon (front right).

ECHO FREE CLASSIFIEDS

Staff classified advertisements on this page for Culham/Harwell, HLR, HWRB, HRC and HRE, HRE, HRE, HRE and HRE. A maximum of 25 words on a first come, first served basis.

FOR SALE

- BOYS MOUNTAIN BIKE**
New frame size Universal Sierra Nevada blue frame size, new seat, good condition one, Richard Stock, H4261, Table, £75
- CHILDREN'S BIKES** in good condition, Raleigh, splash with stabilisers, suit girl 4-6, boy's £20 non-brand bike, suit age 4-6, boy's £20
- CHILD'S TRACTOR & TRAILER**, age 1-4, £10
- COMPLETE FANLATIC 330 WINDSURFER** and rig for sale. Suitable for beginner, £50, Cargill £290.
- ELECTRIC OVEN** and ceramic hob, good condition, £150
- EUROFITM 200** exercise bike, very low mileage, £90 when new. Tel: 01235
- MINOR accidents** (one time lost) recorded since last issue:
C H
Record time last issue 0 2
Total days lost H4899 0 2
Total days lost H4899 0 6
- Minor accidents** (one time lost) recorded since last issue:
C H
Record time last issue 7 13
Total days lost H4899 7 13

Fire alarm system
A fault was reported on the site fire alarm system which had caused a false alarm. The contractor who installed the system were made aware of the failure and alternative alarm communication systems were involved. The system's on-call engineer was contacted to rectify the problem and an investigation into the circumstances of the failure is being carried out.

Slight contamination found within Waste Store
When drums of Low Level Radioactive Waste were being moved for checking within a Waste Store traces of oil and petroleum were found beneath one drum. They were easily cleaned up and the drum contents made secure. There was no spread of radioactivity but pending an incident investigation. The operators were checked thoroughly with no ill-effects found. The drums were repaired to the Nuclear Installations Inspectorate.

ACCOMMODATION
A modern fully furnished two-bedroomed flat to let. On the 1st floor of a modern building. Monthly rent £490 per month. Tel: 01235 88787

ACCOMMODATION WANTED
For graduate students, preferably at Harwell. Contact: Dr. Frazer, Tel: 01235 88787

BELEWURRY, centre of village, 2 bedrooms, unfurnished, £490 per month. Phone: 01235 88787

DIDCOT, two big rooms for professionals with good facilities, shipping and an excellent view. Offering substantial surroundings for rent £250/week (inclusive of bills). Contact: Dr. Frazer, Tel: 01235 (ev), e-mail DIDCOT@1235

DIDCOT, one large double room for rent in detached property, £55 per week, all in (occ. telephone). All facilities including TV, video, stereo, cooker (fridge), central heating, etc. Tel: 01235 (conno) 01235 (work)

DIDCOT one bedroom flat to rent from Harwell and close to Didcot. £480 per month or £91 per week. Tel: 01235

DIDCOT, two bedroomed ground floor flat to let. Kitchen, bathroom, reception. Sorry no pets or smokers. Available end June. £500 pm. Tel: 01235

DIDCOT, one bedroom furnished house to rent. Full central heating, double garage. £390 per month. Available from late June. Tel: Richard R3235 or 01235

DIDCOT, available from 1/11. September. Room to let in family house, one of all facilities. £225 monthly. Tel: 01235

EAST HARBORNE, room to let in private village location, close to Didcot. Use of kitchen, of street parking, single person, non smoker. £70 per person per month. Tel: 01235

EAST HARBORNE, part furnished 3 bed semi-detached house to let near the church. Fitted kitchen, dining area, lounge and large garden. £475 pm. Contact: Jan Cargill at Harwell & Co 01235

MARCHAM, furnished, two bedroom period cottage with garden in quiet village of Marcham near Abingdon. Would suit professional single couple, no smokers/pets. £400 pm. Tel: 01865 (evening) 01235

SUTTON COURTNEY, room to let in large house, use of all facilities, off road parking, suitable for professional non smoker. £60 per month. Tel: 01235

TEL RICHARD ON 01235

MOTORS

- CITROEN AX** Fore 1100, red, H (new 1200), Year 3, £4950. Tel: 01235
- RS TURBO**, 1988 metallic grey, full service history, MOT (Nov '89), taxed excellent condition, all original bodywork. £3800 or near offers. Tel: 01235
- METRO**, Year 1, 1000 cc, 4 door and of Newcastle, second, reliable £200. Contact: Mike Perkins 86690 or Sweden
- RENAULT 11 GTL**, 1.4 B Reg, 5 door, fully automatic, immaculate bodywork, and interior, good runner, full MOT, 5 year, 6500 miles. Tel: 01235
- ROVER COUPE** 2.6, twin cam, 16v, P16g, Amaranth, P165, gas tags 2000, 6000 miles, MOT, V11, £4500. Tel: 01865 (ev) 01235 (weekends) or M301.

CAR SHARING
Additional members sought for existing Abingdon-Culham scheme (Aspelford Drive - town centre - Middle Way) £49.07 per car. Call C3497 or H4350 (weekends) or M301.

TAXI SHARING
Additional members sought for existing Abingdon-Culham scheme (Aspelford Drive - town centre - Middle Way) £49.07 per car. Call C3497 or H4350 (weekends) or M301.

MISCELLANEOUS

CLASSY TUTORS offers individual tuition with qualified and experienced teachers for the Oxford area. Classes/Tutors is a not-for-profit educational venture. Tel: 0958

MICROSOFT Computer Training by experts at our, Wangan Estate or on-site, (Monday to Thursday), 01235 776011 or trainman@lab.com

OXFORD ACUPUNCTURE CENTRE is holding a series of talks during 1998 on Chinese medicine and its approach to a range of illnesses. Free admission and refreshments are free. For more information call 01865

VISITING CHIROPODIST - visiting chiropodist, Tel: 01235 742724 (evening) or the British Chiropractic Association).

Culham 'makeover'

Last year the restaurant area at the Culham Science Centre received a facelift, now it's the turn of the John Adams Lecture Theatre and the restaurant



In the restaurant it's out with the old equipment and dull decor and in with a bright new serving area with attractive food display to get the appetite going. The lecture theatre has many advantages including central location, free parking, air conditioning and audiovisual equipment, and has been redecorated in a striking green and purple colour scheme. Work was managed by Johnson Controls Ltd on UKAEA's behalf. For more information about hiring the John Adams Lecture Theatre or other parts of the conference suite at Culham, contact Louise Partridge on C3494.

What's cooking?

In early July a new caté will open in the Harwell conference centre (B455), but in the meantime temporary facilities are available for lunchtime refreshments. The coffee lounge area is open weekdays from 12-2pm, serving hot and cold food including jacket potatoes, baguettes, sandwiches and rolls, cakes and fruit. If you require a buffet delivered to your offices, or would like to book a meeting room in the conference centre, please contact C32560.