

NOTICEBOARD

**DL NOTICES**

**Wednesday Wanderers**  
There will be an outing in November, but details yet to be finalised. Please contact Steve Darbyshire on 01606 888 193 for more information

**Family history group**

There will be a talk on 'Family history computing for Macs and PCs' in conference room 3 at 12.30 on Wednesday 13 November - all welcome

Also, Wednesday 13 November 'Pub grub & Quiz' which will be held in the Ring O'Belts in Daresbury village.

**RAL NOTICES**

For more information please contact Vicky Noble on 01925 730436 (evenings)

**RAL Lectures**

31 October 3 pm  
Pickavance Lecture Theatre  
Materials Processing and Design  
Professor B Cantor, University of Oxford

28 November 3 pm  
Pickavance Lecture Theatre  
Astronomy from Space  
Professor M Ward, University of Leicester

**Particle Physics Department HEP Seminar**

Wednesday 23 October 11.00 am  
Conference Rm 3, R61  
Measurement of the W Mass at Threshold by ALIETH  
Dr Robert Edgecock

**Young Scientists for Britain Lecture**

Thursday 3 December 1.45pm for 2pm and 7.45pm for 8pm  
Pickavance Lecture Theatre  
Lasers Make Light Work  
Dr Malcolm Cornwall of the University of Brighton

Suitable for audiences aged 13/14 years and above, family audiences and the general public. This new lecture and demonstration is being presented at over 30 venues across

the UK over 1996/97.  
Press and PR have some free tickets for the afternoon lecture - if you are interested, please give your name to Claire Corcoran ext. 5789.

**Abingdon Anglo-German Club**

The Abingdon Anglo-German club aims to stimulate interests in all Anglo-German cultural and social pursuits. Their monthly meetings include talks, outings and discussions and there is a reading and conversation group for those wanting to improve their German in an informal atmosphere. The club is open to anyone aged 16 and over. For more information contact Mona Bradley on Abingdon 533887

**Have you bought your meat draw raffle tickets yet?**

The RAL Rec. Sec. holds a draw every Thursday at 1 o'clock where 20 prizes of quality meat can be won. Tickets are 50p for a strip of five from any of those named below:

Maureen Randall	R1 (RCO)	Lyn Rich	R71
Dave Morgan	R51	Roger Nichols	R6
Martin Whild	NRPB	John Mackerness	R25
Mike Towler	R25	Clare Wadley	R3
Milos Rodic	R3	Kevin Lewis	R1
Rod Hadley	R8 & R9	Robin Wastle	R18
Andy Wells	R26	Martin Rudman	R51 & R35
Dave White	R12	Martin Hodges	R12
Geoff Thomas	R18		

All proceeds from the raffle go to the newly formed travel club which is affiliated to the Rec. Sec. and aims to provide subsidies to various educational and recreational trips proposed by members of the club

**Technician Sought**

Mallingford School seeks a p/t technician. Initially for 22 hours per week the job will involve the routine work of keeping tools sharp, but there is also scope for lateral thinking in solving resource and maintenance problems economically, as well as close contact with both teachers and students. The hours could be increased if the person had suitable IT skills.  
Anyone interested is invited to contact the Head, David Kershaw, on 01491 637115.

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Articles, ideas and letters are very welcome!  
Articles to the new editor or correspondent by the end of the month.

**Upgrade on line for the SRS**

The best news for a long time is contained in the following extract from a letter written by Richard Brook, Chief Executive of EPSRC, to Paul Williams recently:

*"SRS Upgrade*  
*We have been considering the proposed upgrade to the SRS for some time now. Officials of the EPSRC, BPSRC, MRC and CCLRC met on 11 June and agreed a basis for funding the upgrade. I am now able to confirm EPSRC's support...  
I am glad that we have been able to fund this important upgrade. The improved facilities on the Synchrotron Radiation Source will enable it to support leading edge research for many years."*

In addition to this statement, there have been similar expressions of support for the upgrade from BPSRC and MRC. This is the clearest statement for many years of the importance of synchrotron radiation within the research programmes of EPSRC and a vote of confidence in the SRS. It also gives a signal that, in due course, the Research Councils may support the construction of a replacement for the SRS.

The upgrade will provide more intense X-rays to four new experimental areas from two multipole wigglers insertion devices, to be installed in straights six and fourteen. Some rearrangement of existing storage ring

components is required, in particular the RF accelerating cavities must be moved to accommodate the new devices. The programme of work to accomplish this will take some eight weeks, including installing new forked titanium vacuum chambers to extract the X-ray beam. New beam line front-ends will also be installed in the shutdown, which is likely to be in the spring of 1998.

This exciting and challenging project will keep the SRS in the top league of world-standard synchrotron radiation sources for many years to come.

**CLRC at the BA Science Festival**

Birmingham University was the venue for this year's British Association Festival of Science from 9 to 12 September. With hands-on science as the name of the game, CLRC's stand this year brought some elements of research from the SRS and ISIS a bit closer to most people's level of understanding and familiarity. Demonstrating a levitating high-temperature superconductor proved to be a great success as festival visitors, young and old, crowded round to watch a tiny magnet float above a pellet of

superconductor cooled with liquid nitrogen. "It's always fascinating," commented one visitor, "no matter how many times you see it." We got the feeling he'd done this before! Zooties too are a familiar field of enquiry at the Laboratory, but how many people know what they are and what they do? In fact a significant part of household washing powder is zedite, as it has excellent water softening properties. This came as something of a surprise to most of the visitors, who were able to see how soft water foams with detergent, making intricate bubbles

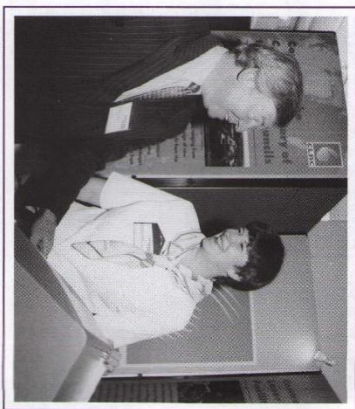
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water samples. The hands-on demonstrations were completed by a multimedia presentation of CLRC's activities in space, showing another facet of the Laboratory's work.

Many thanks to those who left their normal field of work to help during the week, in particular to the numerous members of Birmingham University Chemistry Department who manned the superconductor and zeolite experiments.

Natalie Bealing explains the multimedia presentation to Eric Wharton on the CLRC stand (96RC1464)



The BA Science Festival was also the venue for CCLRC's second press conference, where Colin Reynolds of Liverpool John Moores University and Daresbury's Pierre Rizkallah presented their work on fluorine proteins that may help combat AIDS. Here is Pierre's account of his experience.

## A Day in the Life of a Media Superstar

Some people strive for stardom, some others have stardom thrust upon them. I don't fit in either category, making me all the more of a misfit for this kind of exercise. Missing out loud within Tony Buckley's easel, I mentioned that I wouldn't mind appearing as a speaker at the BA Science Festival with a really exciting story about anti-HIV proteins - the lectins from common flower bulbs. Tony said, almost nonchalantly, to leave it to him. A couple of days later I'm told it's been arranged. Yikes! A week hence, my co-worker, Colin Reynolds, and I will give a press conference. A press release was hurriedly constructed, Colin was consulted for accuracy and, after a little hesitation, agreed to attend the press conference too.

Next step was to polish up my presentation skills. I know I take to the stage like a duck to water, with several Christmas Crackers appearances to prove it, but this is quite different. I could be reported on national TV! I borrowed the presentational skills training packs from Training and Colin and I agreed who's to do what. He would tell the conference about the work so far, and I would say what we intended to do next.

The big day dawned and we arrived in plenty of time. Tomorrow's World were housed in the office next door so I went to drum up interest. Yvonne Perry did come to the conference, but the only cameras in sight were from CLRC. Andy Kurzfeld and Natalie Bealing lent moral and material support. I was issued with an official CLRC shirt which I modelled for the rest of the day. Then all the interested parties arrived - there were reporters from the broadsheets, various radio stations, and New Scientists, as well as the TV presenter. It all went amazingly smoothly. It must have been those training packs. It was too easy if anything, including the questions afterwards which weren't particularly lame or uninformative. The reporters really had done their homework. Then came a frantic series of interviews for radio. Would you mind doing a quickie for Radio Midland's... What about Radio 5 Live? There were telephone interviews with City FM and Radio Merseyside and the BBC World Service Radio reporter wanted an in-depth interview on the lawn - much quieter. The TV cameras still weren't



Colin (left) and Pierre explain their discoveries at the BA press conference (96RC1457)

but the BBC Northwest Tonight news were more enthusiastic about the Daresbury connection. Alan Urrey went to DL for footage where Liz Duke ensured he got the right material as she posed as a lectin researcher. Then the

NW people got on to their colleagues in Birmingham to come and interview us, at around 2 pm. That was Christine McCourtly, the BBC Technology Correspondent, but it was not for the national bulletin. Of the forty minutes interview, about 20 seconds were actually used. Similarly, the 2 hour footage at DL was condensed into 2 minutes worth of transmission. But the resulting report was really well balanced, and I thought it did us justice.

The day was definitely not over. I had a live interview at 5:15 on Greater Manchester Radio. Drive-time. At 5:05 Colin and I rang Angela Parker who did not want two people speaking, only one. Who do you prefer? "You, Mr. Keller". "Rizkallah!". "Thanks Mr Keller, I shall ring you back in 10 minutes". Ten minutes later... "Hello Mr Keller". Then, the most nerve wracking

Pierre Rizkallah, DL

Jacky Hutchinson, CLRC's Press Officer, and Tony Buckley, DL's Press Officer, are always pleased to hear from members of staff who think their work could be of interest to the media. The experience needn't be as nerve-wracking as Pierre found it - appropriate media training courses can make it all a lot more comfortable. Contact Jacky Hutchinson for more details.

## New Industrial Fellowship Scheme

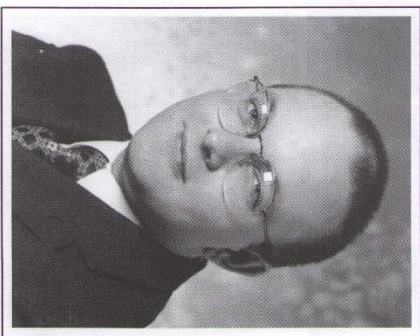
CLRC was recently pleased to announce the launch of a New Industrial Fellowship Scheme, the purpose of which is to establish greater collaboration and communication between science and technology based companies and the Laboratory. The scheme will encourage scientists and engineers from industry to work at one of the Laboratory sites on a fixed term basis, usually between six months and three years.

The first Fellow, Martin Foulger, has been appointed from the company Oxley Developments to work within the Central Microstructure Facility in the Applied Sciences Department. Martin recently completed his masters degree on the Teaching Company

Scheme and was the first Associate to work on a microengineering project involving the development of a passive optical switch. The switch is the first UK LIGA commercial structure to be useful commercially.

Oxley Developments is a small manufacturing company based at Ulveston in the Lake District. It was one of the founding members of the LIGA Club and has taken a leading role in exploiting LIGA using synchrotron light.

Dave Toffree  
Daresbury Research Services



Martin Foulger, the first industrial fellow (DL96/30716)



## Young Innovators compete at RAL

The Young Innovator competition, organised by Rotary District 1190, held its final at RAL on 24 September. Sponsored by IVEI, the competition offers the winner a prize of £1000. Ten enthusiastic finalists presented their work to a team of experienced judges who were faced with a difficult task. Entries covered application areas as diverse as sport, art and everyday living.

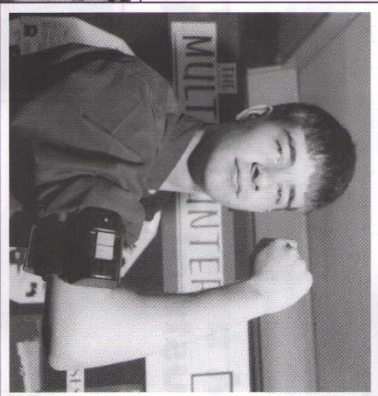
Welcoming the entrants and their supporters, Paul Williams remarked how well the competition fitted with CLRC's own remit, where innovation was a key element in its responsibilities. Brian Sanders, Chairman of the judging panel, commented

on the excellence of the presentations, saying that "the overall exhibition was a tremendous credit to these young people" giving him "an optimistic view of the future".

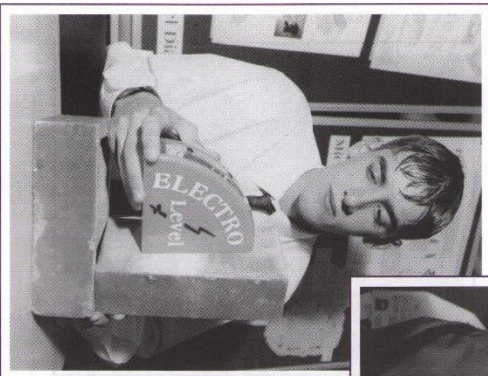
(96RC4505)



(96RC4514)



(96RC4515)



The winner was Kate Goodchild with her 'Sensory Wall' designed to aid the development of handicapped children in the 3-6 age group. The Wall has a variety of educational toys to exercise the senses of touch, vision and hearing. It has been so successful in its trial at the school where Kate worked as a volunteer that it is to be installed in the foyer for regular use.

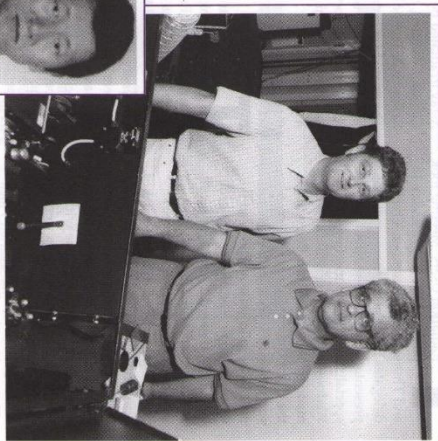
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## Brazilian Scientists visit the SRS

July and August saw the first ever visit of Brazilian scientists to the SRS. Professor Amando Ivo of the University of São Paulo (who spent most of July at the Laboratory) and Professor Marcel Tabak from the University of San Carlos (who visited in August) came to see, at first hand, the progress made at Daresbury in Biological Spectroscopy. Their visit, hosted by Ian Murno and Gareth Jones, was initiated by Ian's visit to the new Brazilian Light Source, the LNLS in Campinas near São Paulo, where gave a lecture in July 1995.

As a result of their stay at the SRS, plans are afoot to apply for funding to assist with the construction of a biological spectroscopy beamline at the Campinas storage ring. This collaborative venture will include users from Brazil and the UK, including researchers from Daresbury and UMIST. Plans are that the new beamline will be used for conical imaging, vacuum ultraviolet circular dichroism and time resolved fluorescence studies.

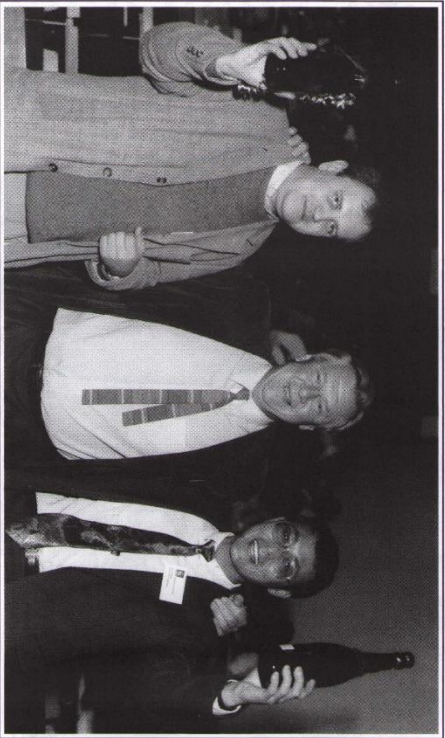
Ian Murno, DL



Marcel Tabak (above) with Gareth Jones on the SRS confocal microscope (DL962932) and Ivo Amando Ivo (DL9629317)



## September is the time for the Users' Meetings



Ian Munro presents prizes to G Morrison and Xc Zhang on Thursday afternoon (DL96/309/27)

This year's Synchrotron Radiation Users' Meeting took place at DL on Wednesday 18 and Thursday 19 September. Over 180 delegates took part in the presentations, poster sessions and specialist user group meetings. Wednesday's opening remarks were made by Professor Frank Berry from the Open University, after which a succession of speakers covered areas as diverse as solid state reactions and muscle motion. The afternoon's group meetings provided a forum for those with more specialist interests, including surface science, protein crystallography and different areas of diffraction.

The poster sessions and commercial exhibition were once again held in a marquee on the lawn. In line with tradition, champagne prizes were given for the best poster presentations of the meeting. Ian Munro presented the prizes to X C Zhang & R E Cameron, of Cambridge University, for their

presentation of Characterisation of X-ray irradiated polypropylene and Clague, Gauntlett, Shuff, (Shell Research & Technology Centre, Thornton) Morrison & Shi (Kings College, London) for their poster titled 'Observation of soot particles in engine lubricants by scanning transmission X-ray microscopy'.

The UK Neutron and Muon Users' Meeting took place at RAL on Thursday 19 and Friday 20 September. Some 200 users attended the meeting, chaired by Randal Richards of Durham University. Following feedback from last year's meeting, there was more emphasis this year on science and, after the facility review talks by Alan Leadbeater for ILL and Andrew Taylor for ISIS, there were five talks covering the scientific highlights of the year's programme.

The programme continued with

John Finney reporting on the European Spallation source project followed by Stuart Ward of ERSRC, who explained the detail behind the new funding mechanism for the facilities.

The afternoon session was taken up by subject group meetings followed by a poster session, with prizes for the best poster in each subject area. After dinner at the Laboratory, the group were taken to their accommodation at Keele College Oxford.

The second day opened with a review lecture by John Endley of Bristol, entitled 'Neutron Scattering - Past, Present and future'. This was followed by a lively discussion, led by Randal Richards and the chairmen of the subject groups, on future requirements, funding and the future of the Users' Meeting.

The meeting concluded with the poster prize winners giving short presentations on their work.

## 4OUR do it again in the Daresbury Quiz

Since March of this year, the Daresbury quiz has been going on with this year's tournament as keenly contested as ever. The closest match in Group A was that between the two eventual finalists, 4OUR and Also Rans, which was won in the final by 4OUR with a score of 25-24. In Group B, Megallops were involved in three tight finishes, winning them all by margins of 1, 2, and 5 points to finish top. Murphy and the Minkeys, the team losing by the

single point, won both their other games to finish second and also qualify for the knock-out section.

The semi-finals and final provided further impressive performances from all teams involved - the margins in both semi-finals suggest easier wins than were in fact the case, each match turning critically on just one round out of the six played. In the final, Also Rans took an early lead but this was pegged back by the end of round three and 4OUR established a winning lead in the

music round, correctly identifying examples of 1980s pop music, film music, opera, and 1960s motown. This is their third successive win, the previous two under the names 'Reservoir Ducks' and 'Pup Fritton'. Perhaps it is time for them to retire and take over the organisation of next year's tournament!

At the end of the rounds, the scores were as follows:

GROUP QUALIFYING ROUNDS						
TEAM	Played	Won	Drew	Lost	For	Against
<b>Group A</b>						
4OUR	3	3	0	0	70	62
Also Rans	3	2	0	1	82	70
The Nearly Men	3	1	0	2	63	69
The Big SisSies	3	0	0	3	67	81
<b>Group B</b>						
Megallops	3	3	0	0	65	57
Murphy and the Minkeys	3	2	0	1	71	57
SNR	3	1	0	2	68	67
Cowardy Custards	3	0	0	3	47	70
<b>SEMI-FINALS</b>						
4OUR	31	vs.	17			Murphy and the Minkeys
Megallops	17	vs.	25			Also Rans
<b>FINAL</b>						
4OUR	26	vs.	19			Also Rans
Sueve Adams, Dave Fletcher Jim Needham, Chris Hall sub: Mark Watts						Greg Diskun, Tracy Turner David Norman, Fred Mosselmanns

During the competition 728 questions were set, of which 446 (61.3%) were correctly answered, a lower proportion than last year, but with questions that were

acknowledged to be significantly harder on average. The medal for the best individual total throughout the tournament was won by Tony Buckley, a team member of Big SisSies, who agree that he has always been a fount of useless information!

John Carrnack, DL



## Farewells.....

### Retirement of Les Brown

Les Brown of the Estates Operations and Maintenance Group retired recently, after

over 30 years at RAL. A presentation was made to Les by Ken Broomfield on behalf of all his



Les and his wife bid farewell at the retirement presentation (96RC296)

colleagues. This consisted of a framed picture of the River Fal Estuary, Cornwall, in the 19th Century. Les having been born in Falmouth and spent the formative years of his working life in the area. He also spent some years in the Merchant Navy before joining the Laboratory in the early sixties. The R18 workshop presented him with a clock in the form of a crib board, and the famous Ray Roberts card. His wife received a bunch of flowers and cut glass vase. Les intends to carry on singing with the Vantage Barbershop and Oxford Welsh Male Voice Choir. He thanked everyone for their kind thoughts and wished all well.

Brian Prior, RAL

### Keith Sinclair Retires

Keith Sinclair retired on 27 September after 36 years on the Chilton site. After a short spell with Avery

weighing machines as a 'shop boy', he did 13 years service with Clark Chapman Ltd, in the Northeast, broken only by two years national service in the Royal Engineers. Keith then made his way south in 1960 to join Harwell on the 29 of August attracted, no doubt, by the 235 shillings a week.

Keith transferred to NIRNS in January 1961, this beginning his long career at Rutherford Laboratory. He joined Central Engineering Group in 1965 and was initially involved with setting up the inspection section in R9 workshop which transferred to R12 in 1981.

Keith receives his 'Ray Roberts card' from Peter Sharp (96RC4612)



Keith had an involvement in most of the large projects or prospected projects over the remainder of his career (EPIC, NIMROD, JOMT, SIS, ALEPH, DELPHI, OPAL to name but a few). He was also involved in a number of projects off site, including a short spell with the radio telescopes in Hawaii and setting up a large sun dial at the Royal Greenwich Observatory in his former home at Herstmonceux.

Keith was joined by many of his colleagues for a presentation by Peter Sharp at which he received several gifts

including a 'ghetto blaster' with CD and a Ray Roberts card. We will all miss Keith's cheery whistle in the morning and wish him every success in his new ventures during retirement.

And a note of thanks from Keith...  
Dear Colleagues,  
Having retired after many happy years at RAL, I would like to extend to you all my best wishes for the future. Thank you for all your help and friendship over the years - it has been much appreciated.

Regards,  
Keith Sinclair

## Mike leaves for Livermore

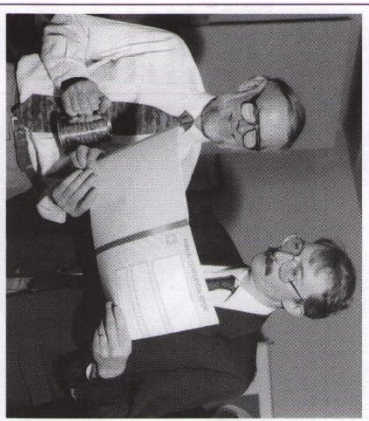
Chris Edwards made Mike Key's presentation a particular day to remember by bringing in a new element in the appraisal system - open upward feedback in the presence of all Mike's friends and colleagues. Highlights from the ACR included two four-drawer

filing cabinets of publications; training sessions at Sunningdale, St Andrews and Frinton; numerical ability, particularly using the HP41 calculator; fall of ideas - physics of laser fusion, X-ray lasers, high harmonics; foresight - maintaining momentum even when the budget doesn't cover the carried-over debt; drive and determination - never known to waste his own time; ability to deal with change - known to say 'I could cope with a complete reorganisation of Research Councils before lunchtime'; 'potential' - will go far in the next two days!

Mike, almost stunned into silence by these revelations, received the traditional tankard inscribed with the names of the Laser Group (to remind him why he left, he joked) plus other items to go with his future lifestyle - a pen, airline bag and tennis balls! He thanked all his friends and colleagues

for so many happy years, wishing Chris well in carrying on the good work. He would be the 'new boy' in his new home but he looks forward to

coming back as a user in his spare time - when not developing the Megaloule laser which will be his next challenge. Mike declared his gratitude to all those who had made this possible.



Mike has cause to look worried as Chris gives him his ACR feedback - in public! (96RC466)



## Bruce Patchett (1947-1996)

It is with great sadness that we have to report that Bruce Patchett died on Thursday 12 September after a year-long illness. Over the last months, and to the end, he kept up his spirits and his marvellous sense of humour.

Bruce will be remembered by many at RAL as a friendly, jovial character who was easy to get on with. He was always ready to smile and laugh, and tackled his work with a wonderful sense of fun. He was well known for being able to get things done in the face of adversity or red tape. He will be sorely missed not only by his family and friends, but by his many, many work colleagues world wide. He was a pleasure to work with.

The international solar physics community owes much to Bruce. He was one of the original proposers for the Solar and Heliospheric Observatory mission (SOHO), which became part of ESA's Horizon 2000 first cornerstone. He served as a member of the Phase A study team, The Coronal Diagnostic Spectrometer (CDS) was his baby' and he guided it safely from the design stage to a successful selection for

SOHO in 1988. He was Principal Investigator for CDS until 1992 after which he moved into a leadership role in RRS.

CDS was a major project, employing many people in the Space Science Department and providing a foundation for UK solar physics for years to come. SOHO was launched on 2 December 1995.

It has become a phenomenal success. The success of this mission, and especially CDS, is an on-going tribute to Bruce's foresight and skills.

As well as SOHO, the solar community will remember his active participation in the CHASE mission in 1985. The CHASE experiment was flown aboard the Shuttle as part of the Spacelab 2 mission and Bruce was part of the ground team in Houston whose job it was to direct operations in communication with the astronauts.

Indeed, Bruce once applied to become an astronaut, as a mission specialist for the Spacelab 2 mission and very nearly made it!

Bruce was head of the Solar Group of the Space Science Department at RAL between 1985 and 1992 and was a member of the ESA Solar System Working Group in the mid-1980s. However, his interests spread far beyond solar physics. He worked for many years on supernovae, he was the project manager for detectors which were flown on the recent Japanese GINGA satellite (which detected the famous 1987a supernova) and, in recent years, was closely involved with



(686C1022)



detector development. Indeed, he came to RAL after a more 'ground based' experience. His astronomical career really started at the Royal Greenwich Observatory at Herstmonceux Castle.

Many will treasure specific memories which reflect Bruce's attitude to life, such as his efforts at water diving at Herstmonceux Castle in order to find the pipes which fed the old swimming pool, or his rock climbing incident when he was laughing and joking as a bunch of Germans and Italians carried him down the Dolomites in a makeshift stretcher after he had broken both of his ankles in a fall.

The solar community will be honouring Bruce. The 5th SOHO Workshop which is to be held in Oslo, Norway, in June 1997 will be dedicated to his memory.

Bruce is survived by his wife, Kate, and son Joe. Bruce was a special person - he will be missed by us all.

*Pete Read & Richard Harrison,  
Space Science Department*

### SNIPPETS

early dawn or drifting toward the sunset on a calm summer evening? The chance could be yours through the Civil Service Benevolent Fund, who have organised a competition in aid of their 110th Anniversary Appeal. First prize is a hot-air balloon flight complete with champagne and there are many other prizes too. Closing date is 6 December. For more information and an entry form contact Annie Sunnum on 0181 240 2445

Peter Strikes Gold in Battersea Daresbury's quickest security guard, Pete Weatherhead, travelled to London on 2 September to compete in the Civil Service veteran's track and field championship where he struck gold three times! Pete's wins came in the 1500 metres, 2000 metres and 5000 metres. In celebration of the 75th anniversary of the Civil Service Sports Council, he received three specially struck gold medals. For good measure, Pete also finished second in the javelin and 400 metres hurdles, and third in the 800 metres.

Parapsychology at RAL RAL was host to a famous face recently - parapsychologist Paul McKenna was spotted filming on site for his new TV series. Perhaps through Up, up and away... Do you like the idea of floating serenely over the countryside in the wildlife sites in our region."



the antenna behind him he was hoping for some guidance from the stars?

Toshiba fellowships (for doctoral-level researchers) are designed to attract outstanding young British researchers from government or academic institutions to work for a period at Toshiba's laboratories in Japan and so to promote better mutual understanding between the UK and Japan. This year the areas of research are in five fields of: software, human interface, networking, devices & materials and power engineering. More details from Miriam Waters, Training, (RAL x 5361), or on the Web, at url: <http://www.toshiba-ticc.com/fellowship>.

## Staff news

- Farewell to
- Mr R Irving who retired from Administration Division at DL on 30.9.96
  - Mr E Johnson who retired from Technology Division at DL on 30.9.96
  - Mrs P Johnson who retired from Technology Division at DL on 29/9/96
  - Dr J Lilley who retired from Applied Science Division at DL on 31.8.96
  - Mr A Johnson who left Technology Division at DL on 30.8.96
  - Mr N Heyes who left Technology Division at DL on 27.8.96
  - Mr S Jezowski who left Technology Department at DL on 27.8.96
  - Professor G N Greaves who resigned from SR dept at DL on 31.8.96