## SNIPPETS

Understanding, signed recently calls for the establishment of a joint S&T fund of Can \$0.5M/yr for an initial major co-operative research projects (CRPs) of a duration of one to three period of three years to support ears in the areas of:

major equipment, and operations ie, consumables, minor equipment, and travel. Preference will be given to costs of human resources, use of \$150K/yr and may be used to cover Communications technology

Awards to CRPs could be up to Biotechnology-Advanced-Materials projects that have a demonstrated

students and staff researchers working in the designated areas. Such Researcher Exchange Awards (REAs) could be up to Can \$1,500/month. The fund will also support a separate programme of exchange of short-term visits (3-6 months) for

programmes. It is anticipated that the first awards in both programmes will be made before the end of 1998.

How to apply: Application forms and Applications are invited for the first round of awards in both programmes are available from the more information for both

canada/mcbcforms/). Applicants from the British public sector should forward their applications to the Secretariat in Ottawa. Applicants from the NRC should forward their applications to their Directors General for approval. For further information on the British Council or on the NRC, please refer to their

www.nrc.ca. respectively.

Deadlines: CRPs: 21 September
1998 for receipt of the signed
originals at the Secretariat in Ottawa.

REAs: at any time www.britcoun.org/canada/ and

# NOTICEBOARD

### **RAL Notices**

### RAL lectures

All lectures are held in the Pickavance Lecture Theatre

Beneath the surface of old masters pictures Dr Ashok Roy, National Gallery,

### DL Notices

### DCI seminars

All seminars are held in Conference Room 1 at 2pm unless otherwise stated:

Dr Peter Towers, Fujitsu UK Optimisation methods for the Fujitsu parallel vector

22 Sep CCP14 Dr Lachlan Cranswick, DL

To be announced Dr Karl Meerbergen, RAL

Genetic algorithm for low

Dr Manolis Pantos, DL Merrison Lecture Theatre 4

LABNEWS is published by Press and Public Relations and printed by Photographic & Reprographic Services Rutherford Appleton Laboratory Chilton DIEXOT Oxon OX11 IQX

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ent by 15th of the month.

CLRC

UNCIL FOR THE CENTRAL LABORATORY OF THE RESEARCH COUNCIL

A Monthly Newsletter for Council Staff

SEPTEMBER 1998

# INSIDE THIS ISSUE

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# A very special visitor continued...

Planet Aquarium and the Rocksavage Edinburgh's tour included the Blue full programme of events in Cheshire The Queen and The Duke of went to separate engagements. power station before the royal party on 31 July as part of a Daresbury Laboratory RH The Duke of Edinburgh visited

greater understanding to cataracts and explained how the SRS has brought the facility. Liz Towns-Andrews Norman who led a brief tour around before being introduced to David Westwood and local MP Mike Hall

> and asked very incisive questions. He Walker's Nobel- prize winning work then listened to my explanation of John how I'd ended up at Daresbury. He which university I had been to and Duke of Edinburgh. He asked me excited to be asked to speak to the after the visit, "I was honoured and try a variety of chocolate. Bridget said persuaded the Duke of Edinburgh to making chocolate taste better and understanding crystal structure is Bob Cernik explained how Murphy spoke about F1ATPase before

whisked off to Liverpool airport to join entitled 'Exploding custard' before chatting to the children before he was plaque he spent several minutes the Duke of Edinburgh unveiled the experiments in the science centre. After celebrations. holidays to take part in the taken a day out of their summer donned their school uniforms and named in an inauguration ceremony Exhibition area in B Block) which was Centre (the new name for the Central of Edinburgh to the Daresbury Science before Dr Westwood escorted the Duke participating in some hands-on Daresbury CE Primary School had performed by him. Pupils from They watched a lecture

### other medical issues and then Bridget The Duke of Edinburgh arrived at the SRS where he was met by Bert The end of ISO operations was very charming and I was very impressed by his questions." explained future plans for DIAMOND the outer hall where David Norman The Royal party then moved into The Queen.

# n 8 April 1998 the liquid build and test one of the four

to have a last ISO group photograph, before people moved on to new projects. ISO was designed to study the faint some of them arriving back during Operations. For the RAL staff at the ISO Operations Centre near Madrid this windows. The opportunity was taken model of ISO outside their office Open Days to be greeted by a full-scale The task was completed in early July; was the signal to start thinking about packing up and coming back to RAL. ran out after almost 29 months of Observatory (ISO) finally Infrared Space helium coolant on the

of operations. RAL staff helped design work throughout the extended period that all four instruments continued to was only designed to last 18 months, distances. At the heart of ISO was a 60 so it was a considerable achievement astronomical targets were studied. ISC helium, which slowly boiled off as the satellite was cooled by superfluid range 2 microns to 200 microns. The which operated in the wavelength cm telescope and four instruments comets to faint galaxies at incredible objects, ranging from planets and infrared signals from astronomical

first opportunity to see the instrument Staff at RAL contributed significant instruments, the Long Wavelength Spectrometer (LWS). During the third instrument, the ISO camera. and contributions were also made to a photometer, a German-led instrument software to LWS and to the ISO Days. For many people, this was their stage in the ISO display at the Open the end of the mission to take centrewas removed from the cryostat after satellite (which did not occur), and strange behaviour in LWS on the helium temperatures in the event of standby, ready to operate at liquid mission the Flight Spare LWS was on ISO was first talked about seriously

at RAL in 1983 when ESA approved the mission, and some of the first fund a 3.5 year post-operations phase, operations, to the science. ESA and the various national groups have agreed to construction, through software and project, from its design and RAL have been involved with the ISO case for ISO. Since then over 50 staff at meeting in Holland to strengthen the was dramatically sent by courier to the data, collected and processed at RAL, InfraRed Astronomical Satellite (IRAS)

> years. PPARC has approved funding for the UK ISO Data Centre - located at in 2001 - a treasure-trove for RAL has provided software and RAL - which focuses on assisting the astronomers world-wide for many quality final archive can be produced processing to continue, so that a high to allow work on calibration and work for the two instruments where

not been designed to cope with the experience - eclipses! The batteries had months of operations, ISO had a new its scientific mission. Shortly after 18 checking, ISO was ready to undertake broadcasts, but the cheering didn't covering the story, who were hoping disappointed the radio reporters coverage of the launch at RAL, through the ESA satellite transmission After about 8 weeks of testing and happen until about 20 minutes later when ISO achieved the correct orbit for lots of whoops and cheers for their Guiana. The silence rather successfully from Kourou, French intently as Ariane 4 lifted off from midnight onwards, and watched and around 100 people arrived at RAL 1995, at 01:20 GMT. There was live ISO was launched on 17 November



the helium coolant ran out.

where there was cause for concern. that happened. However, the loss of sunlight on the solar panels for batteries never drained to the point data during the eclipses, and the instruments were able to collect some a significant period, because the nission was planned to end before

correctly slewed to the 'safe' position 'limit' had been violated during a manoeuvre and the satellite had sudden lack of ISO staff at their the meeting, the astronomers noted a ESTEC, Holland. On the second day when the first workshop to discuss dramatic example was in May 1996 there were anxious moments. One results from ISO was taking place at presentations. It transpired that a Several times during the mission

> quickly switched off and fortunately should never do. The instruments were though in this case, in its haste to be recovered fairly quickly affected by a severe solar flare, but 1997 all the instruments on ISO were suffered no ill-effects. In November incredibly bright Earth limb, which it safe', it had slewed across the

conferences. The Astronomy and been many results from ISO published data in the archive. There have already 500 astronomers from 19 countries made during the mission by around Astrophysics journal set aside a special both in scientific journals and at spring 1999, at which point any Their rights to their data will expire by astronomer will be able to access the Over 26,000 observations were

> two BBC Sky at Night programmes, hosted by Patrick Moore. The final press briefing on ISO was held on 7 radio, and I presented ISO results in reported in the broadsheets and on PR. ISO results have been well largely to the assistance of Press and been good coverage in the media, due contained 91 letters. There has also issue for ISO results, and this April 1998, coincidently one day before

merge. There have also been of critical importance to cosmological the conditions in the dust around stars improvements in the understanding of the way galaxies interact, collide and contributions to the understanding of camera have made important models). The ISO photometer and planets in our Solar System (which is measurement of deuterium in the giant range of astronomical objects, and the with its detection of water in a wide made a very significant contribution form in the future. including the rings around stars where assess the impact of ISO. LWS has planets either failed to form, or may It is still too early to objectively

remains to say "thanks for making it but for most of the people who theastronomers in the UK and abroad such an outstanding success". worked on ISO over the years, it only working on ISO will remain to assist A small number of RAL staff

Helen Walker

# By royal command



circumstances or handicap in overcoming adverse personal recognise the achievements of The reception was given by The Queen and Prince Philip to reception at Buckingham Palace. UK who have excelled in a voluntary, academic to sporting, or particular field, from professional oung adults from throughout the PD's Andrew Mehta rubbed shoulders with recently during a the rich and famous

he received the invitation but said Haynes, was very surprised when recommended by his supervisor Bil Andrew, 28, who had been

> well as Zoe Ball and Ryan Giggs. Other (less famous) guests included groups Eternal and All Saints, as he was delighted to attend. The briefly to The Queen film directors. He also got to talk fire fighters, lecturers, cadets and charity fund raisers, chiropodists, other guests who included pop afternoon was spent chatting to the

project. secondment at DESY on the H1 Andrew is currently working on

(98RC3069)

# Access to R&D

access to R&D data all over Europe. Users of the system can find new quality and quantity of R&D supp experts/ based information system giving Gateway Online) project, a WWWin all European c n, country or subject area ERGO provides a standar representative on a Working Group developing the ERGO rof Keith Jeffery is the UK tly a pilot project based on a with an entry for each R&D (European Research (like a library card ints or overview

evaluation, the aim is to provide concerns only R&D projects. After the EC's CORDIS service, and the data the catalogue is provided, hosted on underway to test the technical, Framework 5. In the current pilot only implementation can start under principles. It is expected that the full administrative and management centralisec

> European countries. The UK is level and in providing data from the participating very actively in the detailed records in host databases in all automated access to the relevant project both at the technical design

it is transformed into the required form and with strict ev update data for the valu catalogue. Th the pilot project to RAL where pilot ERGO project will only assistance from DTI-OST, luation criteria to measure of of the system. Within the UK, councils are idea is to test, input node within the

of R&D information around Europe. catalogue computer accepts interactive queries from end-users and the records current European R&D projects. The having a computer of all known whatever on the hundreds of databases for specific projects, people or are then used to initiate a full search envisages each region or Member State The full ERGO architecture

> integrated before electronic The results are then returned to the presentation to the end-user. regional computer where they are

SMEs and larger industries, to policy makers or watchers in researchers looking for partners, and trends and making policy who all need government and elsewhere following Users will range from innovators in

co-ordination and coherence of throughout Europe. The UK research councils fund a considerable amount of R&D, much of which has, or could have, commercial relevance. throughout the Union. An ambitious national and European programmes in providing a basis for the improved ERGO is expected to play a key mong Member States and rting greater transparency R&D

documentation, can be accessed at the aim, but one well worth the effort. URL http://www.cordis.lu/ergo The pilot system, with attendant

# Let there be light!

crafts 1998

Arts and



assess the amount of interest, size and type of the exhibits.

to prepare. I expect to use CR12 and 13, R68 at RAL again but first I need to

November or early December, which gives us all about 4 month crafts exhibition will take place in nope that this year's arts and

offers of help and, of course, contributions to the exhibits! Watch

I would be very grateful for any

to investigate the properties of novel ultraviolet (VUV) facility providing behaviour of atoms and molecules magnetic materials and to study the develop an advanced vacuum University and DL. The aim is to beamline will be particularly useful polarised radiation. The new Queen's University Belfast, Leicester hrough an EPSRC grant awarded to beamline is being built beamline on the SRS. The first light from the new 5D his photograph shows the

> magnetic materials.
> Studying the interaction of VUV the giant magneto resistance in some beamline will be used to investigate in high density recording media, sensors and switches. The new Magnetic materials are important

depletion of the polar ozone layer. the Earth's upper atmosphere where radicals. The radicals contribute to the CFCs producing reactive chlorine intense sunlight breaks down the provides information to help us mode radiation with atoms and molecules

G. 50 RI RAL, Ext. 5935

esponses and confirming the venue So, watch this space - I hope that I will soon be counting the number of can sort out the logistics). staff this year, and future years, if we open to contributions from Daresbury advertising the event (which is also series of posters and articles out on the internal web pages for a

# A day in the life of Charles Kilburn

(My day with the Rain Man!)

the opportunity to do a 'day in the life of', I naturally chose a scientist. what makes them tick. So when I had wondering what they all do and passing RAL scientists looking out of the window at have often sat in my office

is radar meteorology and he also acts of weather and how it affects radio sixties, is used by RCRU to look at the as a liaison for the university users at transmission. Charlie's specific interest interference caused by different types The radar, which was built in the special feature is a 25 meter radar dish in the countryside of Hampshire, its the third of CLRC's sites. Located deep Chilbolton Observatory. Chilbolton is Research Unit (RCRU) on a visit to the Kilburn of the Radio Communications accompanied Dr Charles (Charlie) On a wet morning in June I

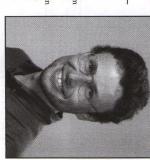
equipment that we were going to set terms the bi-static experiment that we and behaves. determine how the weather develops readings these would then help to time in order to get a good set of equipment is left in situ for a period of up. Once a good site is found the two points would be the radar and the points using the rain as a medium. The the wind movement between two aim of the experiment was to measure were hoping to set up that day. The Charlie tried to explain to me in lay On the way down to Chilbolton

everyone else was - a far cry from the university-style campus of RAL where you see lots of different faces everyday feel to it, everyone knew where sheep! The place had a very localised was following him around like a lost see Charlie but curious to know why walked round everyone was pleased to reception and the data room. As we me around the workshop, the main We went inside and Charlie showed building at the foot of the radar dish dozen people based in one main than RAL and DL with about half a The Chilbolton site is much smaller

dog stand! you use for extra luggage when you go on holiday, not one the size of a hot Charlie said we would be taking the trailer I had expected one like the type or two and a small monitor, and when naivety I had envisaged taking an ariel about gathering all the equipment needed for the experiment. I must Then it was time for a quick cup of our direction to test the equipment going to run and checked that he would be around to aim the radar in Chilbolton and Charlie spoke to him Charlie introduced me to Darcy would need so much gear. In my admit that I had no idea that we tea in the staff room before we set about the experiment that we were Ladd who 'steers' the radar at

than your average back yard complete garden for some time. However the was aware of the size of the equipment that we would be leaving it in his down a small country lane we were greeted by Mr Goodyear, the friendly the experiment in someone's back to tell me that we were going to set up sight with the radar. Charlie left it until the high ground and an ideal spot to set up the equipment with good line of and set off for Wildhern, a village on the trailer full of hi-tech equipment on the horizon. day and we too could just about see it garden with the naked eye on a good that they could see the radar from their Shetland ponies. Mrs Goodyear told us with a huge vegetable patch and back garden turned out to be bigger became concerned about whether he elderly owner and I immediately garden! When we found the house we were well on our way to Wildhern We hooked the site landrover up to

the right spot, but it had to be done to be quite a frustrating process good signal from the radar. It appeared Goodyears but would still receive a wouldn't cause obstruction to the position to site the equipment so that it moving the trailer into the best Charlie spent the next hour or so



(98RC4112)

equipment was a good one. signal between the radar and Darcy at 'base camp' to ensure that the Charlie kept in radio contact with After lunch it was back to

opportunity of a closer look at the radar, so I donned a safety helmet and first. For the first time Reading explained that at that particular an underground tunnel Charlie were back inside the main building via the engines spring into life as the radar grease. Above our heads I could hear was there to witness it. the radar and collecting data... and I University were remotely controlling moment Chilbolton was experiencing a was being moved around. Once we and an overwhelming smell of oil and with its narrow stairs, engine rooms reminded me of the interior of a ship base of the dish. Once inside it we entered through a small door at the were there I was offered the equipment for the trailer and while we Chilbolton to collect even more

to the rain!! heading back to Oxfordshire and back Goodyears' to make a few final adjustments to the equipment before Later we returned to Mr & Mrs

data from our visit. Charlie and I hope he got some good I really enjoyed my day with

Tracey Wilkinson



# Computer and network security

matters and to oversee the Please consult your departmental measures. The members are: implementation of agreed security set up to agree CLRC policy on such A group (CNSG) has recently been

> for security (with access open to all system managers with a responsibility http://committees-www.clrc.ac.uk/is/ posted. This can be accessed via the url CLRC staff via their federal Ids) will be and papers of direct relevance to

Overy <p.j.overy@rl.ac.uk>. It is open system manager please contact Phil not already on this list and are a the RAL internal network. If you are security on any computer attached to an interest in, or responsibility for, reach all RAL system managers with

DEPT	REPRESENTATIVE	DEPUTY
Chairman	Trevor Daniels	Paul Kummer
Secretary	Neil Calton	Graham Robinsor
SSD	Dave Terrett	Dave Rawlinson
ASD	Mike Courthold	Mike Palmer
DCI	Paul Kummer	Tim Kidd
ADM	Ken Hartley	Richard Owen
SRD	Mark Enderby	Chris Dean
ISIS	Kevin Knowles	Bob Mannix
<b>A</b>	Chris Reason	
PPD	Barry Saunders (interim)	
Tech	Debbie Greenfield	Tony Lucas/
		Niela Wathing

issues in this area representative if you wish to raise

access restricted to CNSG members) where CNSG formal papers (with A shared filestore has been set up

security matters which is intended to System managers distribution list information on information systems' distribute and discuss topical A mailing list has been set up for to

> list is being set up by Paul Kummer for system managers at DL. <p.s.kummer@dl.ac.uk> at Daresbury to all CLRC staff to join. A companion

# /ideo conferencing at RAL gets its 1000th customer

n it has been calculated that at least aded M6, have been avoided by per of people at one site ourneys (based on the smallest ing), many up and down the conference to be booked service started in 1994. Since became the 1000th video

ervice has grown and so has that th umber of rooms and complexity of Since its tentative beginnings the and for the video conference oment involved. There are nov

the new fully air-conditioned room in R18 holding up to 7 people. In addition, the Atlas Colloquium is used near future. permanent video-conferencing facility, will hopefully become available in the approximately 24 and with a third room, capable of holding utilised for seminars and staff talks. A for larger meetings and seminars, and the Pickavance Lecture Theatre is

CCLRC staff. A recent video over the World, significantly reducing meetings have been held with sites all are with Daresbury Laboratory but The majority of video conferences ng time and other costs for

> uses ISDN connection, since the closure of the Superlanet ATM pilot system in February this year. time and money! All video conferencin of Melbourne, Australia, saving lots of RAL, KEK in Japan and the Universit

on the service, how to book a meeting provide comprehensive information services/videocont/ http://admin-www.rl.ac.uk/admin, 5733. The web pages at <videocon@rl.ac.uk> or on extension booking should contact Andy Wells or more about the service or making a Nero Knowles, preferably via email sted in finding out

# Ahoy there!

A clash of dates with Open Days meant that RAL sailing wrote a diary of the week's events... brought back a trophy. One crew member, Nigel Bealing number of retirees and family members to make up the Offshore Racing tournament (IDOR) had to call on a club's entry in this year's Civil Service InterDepartmental numbers. Nevertheless the two 'skelton crews' each

Security, and two crews from RAL. Department of Health and Social entered including some from HSE, The Solent for IDOR. Ten yachts were seafarers converged on Port n Sunday 28 June a mixture of keen novices and experienced

done some windsurfing and dingy and Friday around Port Solent. Cherbourg, Thursday back to Cowes Tuesday racing in the Solent, Wednesday fall in!) for racing. Monday practice, tactics (basically, whatever you do don't discussed the week's itinerary and the over a hot curry and a cold beer, we was allocated to RAL2. That evening, We were introduced to the skippers, John Magraw and Roger Walker and I opportunity to represent CLRC at IDOR sailing before jumping at the I fall into the novice category, having

course twice instead of the required the prestigious wooden spoon award, to commands like "pull the blue one" designed to transform a crew of for accidentally completing the practice where Rutherford1 was presented with invited to Cowes Yacht Club for dinner suitably pleased with ourselves we were the course for the practice race. Feeling gybe, change the sail and we completed By the end of the first day we could tack than using the proper seafaring terms. that most of the crew responded better accelerated when the skipper realised machine. Progress was slow but confused amateurs into a 'slightly' oiled Monday's trip to Cowes was

though.

inshore races provided an excellent of the World Cup, a good day was had spoiled by England being knocked out was on. Apart from having the evening word went round that the trip to France but as the grey clouds disappeared the any; I don't think we even came close day's sailing although we didn't win Tuesday was race day. The three



by all. Tomorrow we were off to France! "Dover, Wight, Portland north-

Cherbourg and to our surprise and cook. Eight hours later we arrived in even get close to the galley let alone chair made everything ship shape again acrobatics from the Skipper in a Bosuns than ours. A couple of hours of aerial forestay we knew that their journey had When RAL1 arrived several hours later delight found ourselves in 3rd position. as at this point it was now impossible to chocolate bars are all we need for food" words of the skipper "...sandwiches and coaster ride. I remembered those wise The wind picked up to a force five we were off with our spinnakers flying. turn left (sorry, port) at the Needles and racing at 7am. West out of the Solent, starting to get used to the alarm call. We been even more exciting and eventful with the spinnaker wrapped around the providing us with an exhilarating rollerwere out of the harbour by 6am, and westerly force 3 occasionally 4" - I was

out that if the wind is coming from the 10am. Now, at the start of the week I progress". This was the news we were motor sailing but we're making good exhilarating, two reefs in the sail and into life - "It's wet, it's bumpy, it's report back from the trail blazers before decided to wait for the first hourly only a brave few headed out to sea. We decided to stay and sit out the storm and picked up further some skippers you have a problem, so our destination north and that is where you want to go, my basic understanding I could figure occasionally 6 was predicted. Even with turned against us - Wight, north force 5 After a well earned meal and a good night's sleep I was ready to face the long waiting for and we finally set off at making our decision. The radio crackled was changed to Poole. When the wind trip back. However the elements had

> definition of 'big' changes a bit when England appeared darkness fell. and mentally exhausting. As the coast of bearing steady which was physically fighting the tiller to keep the compass being ballast and the tough job of next eleven hours we switched between We pointed the boat at Poole and for the you can't see the horizon for the swell

quay. The channel was marked with to follow the safe channel into the town started the elaborate game of 'eye-spy since breakfast it was around 2am. ship shape and having the first real food worse though); after making the yacht Rutherford1 (we probably looked much dishevelled and tired looking crew of where we were greeted by the rather at the quay at about half past midnight, house and car lights. Finally we tied up against a skyline already full of street, for, we tried to spot the correct light shouted to let us know what to look out and sequences, so as the navigator lights that flashed with different periods At the entrance to Poole Harbour we

return the boat on time. through the Solent to Portsmouth to the tides in our favour as we headed up conditions were ideal; a fair breeze and forecast ..." - we were off again. Friday's "It's 5:30 and time for the shipping

barter successfully with sea sickness experience, I had met some great people drove home; IDOR had been a great separate ways. Tired but very happy I was a luxury item? puzzles me, whoever said that a yachi kneeling down, etc. ... but one thing still pills, how to pee in a bucket while had learned a lot of new skills - how to about being part of the RAL2 team. I and gained a sense of achievement After all the farewells we went our

Nigel Bealing



# Iraining update

## **Investors** in People

it could be recognised. around would be difficult to obtain, even if concerned that what little evidence was Before attending the recent workshop I was assessors that we do what we say we do. IIP is the evidence which proves to the IIP An important part of getting and keeping Review on a recent IIP Internal Assessor Workshop However, it rapidly became obvious

workshop. Of course some drudgery is required, just to break-ground, before we 'do-what-we-say-we-do". Moreover, this is given the tools that we picked-up at the a vein that will be workable, especially rich vein of evidence, mainly because we do that we are sitting on a gold mine with a can even begin to start mining.

ohn Tomkinson

reviewed - is all part of the IIP management practice - you may be department. IIP is all about good project managers are working hard at As you can see, your IIP departmental working life is already being role. If this is the case, then again your reminder regarding the line manager's standard. You may have had some training and development needs the APR system - ensuring you have surprised to know that correct use of standard and applying it to your understanding the framework of the our objectives already set and your

nore of an invisible one. mposed on you but in the most part, It will not be a visible structure

Diane Tunnicliffe

## Forthcoming courses

This course is proving to be very popular and the September dates are STRESS MANAGEMENT - THE INDIVIDUAL PERSPECTIVE DIFFERENT PERSPECTIVES ON

> anyone is interested in attending they should give their name to Kim Talbot as soon as possible. Further courses will be organised on demand. will be booked for October and if already fully booked. Another course

- A mandatory course for all those INTERVIEWING (RAL), 7-8 SEPT SELECTION AND PROMOTION involved in interviewing at all levels

so that you can enjoy it to the full courses are held at Bournemouth. To help you to prepare for retirement PRE-RETIREMENT (RAL), 11-14 SEPT

the quality of service provided. concept of customer care to improve customers (internal and external). The For all staff who interact with CUSTOMER FOCUS (RAL), 14 SEPT aim is to introduce participants to the

their work. effective in delivering presentations designed to help staff to be more 16-17 SEPT - This two day course is PRESENTATION SKILLS (RAL), and communicating the importance of

any physical area they are responsible for. to provide staff with an understanding both for the staff they control and for of their safety roles and responsibilities Chargehands at Daresbury which aims courses for Managers, Supervisors and 16-17 SEPT - This is one of a series of SAFETY MANAGEMENT (DL),

STARTERS (DL), 17-18 SEP APPRAISAL TRAINING FOR NEW

21-22 SEPT - If you have started to the end of August please contact Kim an invitation to attend this course by APR next year and you do not receive months and will need to complete an work at the Lab within the last six APPRAISAL TRAINING (RAL),

> date information on employment law needs a refresher. It includes up-toselection and interview course and is for anyone who has attended a UPDATE (RAL), 22 SEPT - This course RECRUITMENT AND SELECTION

FINANCE FOR NON FINANCIAL STAFF (DL), 22 SEPT - A one day organisation. course designed to guide staff, with and clearly as they relate to the through finance procedures simply little or no financial knowledge,

involved in interviewing. interviews. Mandatory for anyone practise interviewing skills in mock A JTS course with opportunities to INTERVIEWING (DL), 22-23 SEPT SELECTION AND RECRUITMENT

Studios in Abingdon. giving television interviews. The course is held at the Central Television managers who have responsibility for 24-25 SEPT - This course is for senior SENIOR MEDIA COURSE (CLRC)

relate to the organisation. procedures simply and clearly as they knowledge, through finance staff, with little or no financial A one day course designed to guide STAFF (RAL), 24 SEPT INANCE FOR NON FINANCIAL

participants will be able to: STRESS MANAGEMENT -28 SEPT - By the end of the workshop MANAGER'S PERSPECTIVE (DL), DIFFERENT PERSPECTIVES ON

- recognise causes and signs of
- understand the relationship
- understand the legal issues cope with and manage stress, between stress and job performance
- know when to ask for professional involved, and

(DL), 29 SEPT - The course will enable THE INDIVIDUAL PERSPECTIVE STRESS MANAGEMENT managing personal stress by: staff to become more effective in DIFFERENT PERSPECTIVES ON

- themselves and others, understanding of signs of stress in giving participants greater
- exploring the causes of stress, considering strategies for alleviating stress or managing its

single status

- constructing an action plan for techniques, and practising some stress reduction
- STATUS (RAL), 29-30 SEPT, 5, 6, 7, 12 APPRAISAL TRAINING FOR SINGLE reducing personal stress.

contacting you if you have opted for AND 13 OCT 1998 status. The Training Sections will be industrials who have accepted single These one day courses are for all

> DL Further information on these courses can be found on the noticeboard or from the Training office.

Diane Tunnicliffe Miriam Waters Hazel Dale ext. 5361 ext. 5892 ext. 3600

# Targeting computing

on a course training and enables staff to take the maximum benefit from the time speni appropriate way of training staff. Nevertheless, a targeted course is a programming language is the most advanced) in Excel, Access, WORD or level eg introductory, intermediate and that in many cases a general course, RAL Computing Training recognises sometimes a more effective way of aimed at those at a particular skill

number of courses:-Computing Training has devised a which more directly addresses their work needs and objectives, RAL To enable staff to attend a course

EXCEL productivity including speed scenarios formulae, functions and 'what if' **EXCEL** for budget holders including

tips and short cuts WORD for report writers WORD for secretaries and WORD for scientific papers including flowcharts equation editors, drawing and

your knowledge and productivity WORD for the self-taught - improve

performance of staff then please let improve the knowledge and If you feel there are other computing

courses that could be designed to

### Outlook 98

Microsoft Outlook: provide the necessary training in There are now three courses in place to

environment, sending and receiving OUTLOOK FOR BEGINNERS - This mail and how to manage your email half day course covers the Outlook

more advanced email functionality. Outlook. It also looks at some of the CONVERTING TO OUTLOOK - An desktop and looks at the key to familiarise users with the Outlook differences between Exchange and intensive half day course which aims

calendar functions of the applications. techniques and explores the diary and This half day course for existing users GOING FURTHER WITH OUTLOOK looks at some advanced email

RAL Computing Microsoft Project admin/training/ral\_computing/ pages http://admin-www.rl.ac.uk/ Full details can be found on the Web

them for dates and more information interested please get in touch with plans to run a further one. If you are run a M/S Project course and there are RAL Computing Training has recently

# Training

courses can be tailored to achieve this the specific needs of their group and would benefit from training covering Managers may feel that their staff RAL Computing Training know. Line

**Future dates** 

SEPTEMBER

NT4 core technology ntermediate Word ntermediate Excel

Advanced Excel HTML Going further with NT4

Outlook 98 (half day courses Outlook 98 (half day courses Outlook 98 (half day courses Outlook 98 (half day cours Going further with Access

### OCTOBER

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CLIRC LAB VI = VV-



design and the European Spallation Source study. HERA machine at DESY, the ESRF at Grenoble, the TRIUMF Kaon Factory expertise in radiofrequency (rf) system design and beam theory. During his career he contributed to the design of many accelerators, including the the 7 GeV Proton Synchrotron Nimrod, where he developed his died on 14 August after a two year fight against cancer. Charles harles Planner, who joined the Rutherford Laboratory in 1961 started his career in accelerators on the 15 MeV Linac Injector for

rf shields in the ring ISIS injector. On ISIS he was responsible for the injection system, the elegant increased from 1 Hz to 50 Hz, with little change, when it was used as the MeV proton linac when it was being built as a new injector for Nimrod. It is a tribute to its robust design that the repetition rate of this linac could be At Rutherford Laboratory he was responsible for the rf system of the 70

developments in RFQ design codes and to the development of a beam matching system between the ISIS ion source and the RFQ. of the ISIS linac. His innovative and determined approach has led to Quadrupole linac (RFQ) Group concentrating on increasing the performance few years he has been group leader of the ISIS Linac and Radiofrequency into the ISIS ring has been a major success and typifies his work. For the last the large (4x10 cms) but very thin (0.25 µm) foils needed for beam injection of new extraction kicker magnets. His novel approach to the manufacture of magnets, the optics of the extracted proton beam line and the development

national final at Rutland. resulted in a convincing win for him and a place representing RAL in the fly fishing competition, when his precise methods and determination with him. You may remember a report on Charles's success in the CSSC area which he passed onto the friends and colleagues who shared this interest fishing and fly tying. He brought many innovative methods to his tying Among Charles's recreational activities was a keen interest in game

missed by his many friends and colleagues whose sympathies go out to his wife Ruth, and children, Andrew and Imogen. Charles's participation at work and in recreational activities will be sadly

# SNIPPETS

SNIPPETS

SOHO contacted

of communication are possible, but work continues to assess the status of become fully charged only short bursts Deep Space Network station in has now been made. SOHO telemetry SOHO. The good news is that contact Last month we reported that scientists had lost contact with the spacecraft Australia. Until the on-board batteries was restored on 8 August and several rames of data were received via the

cosmologists. More information is available from Press and PR at RAL for non-cosmologists will take place at Herstmonceux Castle and Observatory astronomers, writers, artists and 16-18 October. Speakers include A weekend conference on cosmology Cosmology weekend

everyone can help to sareguard the future of the planet. Projects range from southern Africa. Tel: (01865) 311600 Fax: (01865) 311383 rainforests to tracking Black Rhino in botanical inventories of Amazonian issues and understanding how scientist learning about conservation environmental education programmes.
The Earthwatch Volunteer Programme provides an opportunity for the general public to work directly in the field with and cultural heritage by supporting scientific field research and conservation of our natural resources Earthwatch is to promote sustainable membership, corporate and statutory funding. The overall mission of research, through individual supports environmental and cultural science and education charity which Earthwatch Institute is an international one can help to safeguard the

New IoP director
The Institute of Physics has announced the appointment of Mr Peter Cooper as director responsible for the Institute's deputy executive secretary of the Royal Society and will take up his new post in scientific conferences. He is currently affairs, research, science policy and work relating to education, public

the spacecraft. More next month.

email: info@uk.earthwatch.org
Web site: www.uk.earthwatch.org

responsible for energy, industry, Battle MP becomes Minister of State Appointments
Peter Mandelson, Secretary of State ministerial team at the DTL John announced details of the for Trade and Industry, recently

on I January next year. Dr Taylor, 55 is currently director of Hewlett-FRS will succeed Sir John Cadogan new Director General of Research councils and space matters. responsible for the Office of Science and Technology, the research Councils. Dr John Taylor OBE FEng Mr Mandelson also announced

Packard Laboratories, Europe and director of Peripherals, Appliances and Consumer Systems Research Centre - one of the three global He is a visiting Professor at Imperial College and a Visiting Industrial research centres in HP Laboratories

Professor at the University of Bristol He is also a Fellow of the IEE, BCS

and the Royal Society of Arts.

taking over its management development and publication. Editorial control will remain with international audience. Its current Gordon Fraser, but plans are already soon. This comes at the same time as its move to the Institute of Physics, whose publishing company will be will be marketed to a wider afoot to include a new design, and i CERN under the current editor, CERN Courier moves
The CERN Courier, the highly
respected magazine for the particle
physics community across the globe, will be celebrating its 40th birthday

### Cool award winner

Department at the Scottish Office.

The new appointees replace Nore.

Environment and Fisheries secretary and head of the Agriculture biometry at University College London; Peter Schroeder, R&D

are: Mike Calvert of CWS Agriculture; Linda Partridge, Weldon professor of

New members to the BBSRC council

**BBSRC** council

director of Nestle and John Graham

The new appointees replace Noreen Murray, Keith Humphreys, Ed Dart and Muir Russell. You may be aware from the series of been presented with a design award by the Institute of Engineering Design for a project he completed students who each also receives a ten of these awards each year to Mechanical Engineering at Newbury College. The Institute awards around technician who works on Isis, has Richard Down, a cryogenic while studying for an HND in

the subject, that negotiations with the Industrial Trade Union Side circulars and other information on Single status for CCLRC

ended without their recommendation

to accept the terms of the offer to achieve single status. As a result, in the knowledge that there was indeed a significant number of Industrial terms on an individual basis. service, management offered the move to Non-Industrial conditions of staff who wished nonetheless to

that we have a modern organisation able to meet the challenges of the competing for new projects, showing programmes and successfully towards sustaining our existing workforce...it will help contribute heralds a significant move towards building one unified and skilled Non-Industrial conditions. This news workforce has opted to move to 70% of the current Industrial On the basis of this offer, almost

If you have any questions about the single status offer, you are most in Personnel at RAL on ext. 5354 or e-mail <k.p.lambourne@rl.ac.uk> welcome to contact Karen Lambourne

7,000 for the English and French editions respectively.

up his new post on 1 September. Congratulations Richard. appointed to succeed Eric Dunford as Director, Space Science. He took

Richard Holdaway has been

New director

He passed his course last year with flying colours - getting distinctions in 10 of the 16 subjects. "Id like to thank all my colleagues at RAL and the lecturers at Newbury College for their support during the three year course", Richard commented after the award ceremon

cryogenic centrestick for use at Isis and cheaply maintained and repaired low as -271 °C and would be easily which could reach temperatures as Richard's project was to design a

becomes the Minister for Science sponsorship of the oil and gas industries; whilst Lord Sainsbury environment issues, innovation, and



Richard Down (left) receiving his award and crystal gohlet from John Boyle, of the Institute of Engineering Design (98RC 3541)

working in those areas. exchange of students and staff Technology Fund to (1) promote collaborative research between the establish a joint Science and Council have recently agreed to Canada and The British Council of The National Research Council of mutual interest, and (2) facilitate the (university and research council) Canada (NRC) and the British aboratories in strategic areas of NRC and British public sector National Research Council of fund established between the New joint Science and Technology

NEW accents, a new co-operative programme of activities shared by Britain and Canada that arose in response to the Joint Declaration of Prime Ministers Chretien and Blair in The agreement forms part of