

NOTICEBOARD

CLRC Notices

Apprentice recruitment

City and Guilds or BTEC National. Apritude tests are currently scheduled for 18-20 May 1998 at RAL. DL dates to follow. Full details will be made available in the local as being expected to follow academic studies in either 3 and obtain the Modern Apprenticeship award as well trades. Each successful apprentice will train to NVQ level engineering apprentices in the mechanical and electrical this year. Recruitment are looking for prospective CLRC will be recruiting engineering apprentices again Section, R71, RAL. press, school careers offices etc. and from the Recruitment

RAL Notices

RAL lectures

All lectures are held in the Pickavance Lecture Theatre

30 April

Photonics in recording and displays Prof R Brown, Sharp Laboratory, Oxford

The Civil Service Motoring Association are holding a promotion on 19 and 20 May between 11am and 2pm in the R22 foyer.

Come along and find out about the many benefits that CSMA members are able to take advantage of:

Britannia Rescue

Savings on other products and services Luxury hotels and leisure parks Savings on new and used cars and caravans Motoring and Leisure' magazine Motor and home insurance and financial advice Travel insurance and unique credit cards

always welcome. The yearly subscription remains at £3. Please contact David McPhail, R66, ext. 5212, e-mail dj.mcphail@rl.ac.uk, for more information soon be receiving an application form. New members are The 1998 season starts in April and current members will

Time to get fit

membership of the Images fitness centre in the Old Gaol in Abingdon. If you work at RAL, you (and your partner) are entitled to a rate of £180 for 12 months membership of the gym - a large saving on the normal price of £310.

Membership includes the use of a comprehensive Fancy getting fit this year or working off your executive stress? RAL has negotiated a special corporate rate for

m indoor pool. checks and a personalised programme, plus use of the 25 range of fitness equipment, sauna and Jacuzzi, fitness

ext. 6460, or arrange a visit with the Images manager, Sue Brenton, on 01235 522806 ext. 35. If you want to know more, contact Jeremy Curtis on

Surviving the Year 2000

computing equipment at the turn of the millennium. Free admission, 7.30pm, 5 May. Lloyd lecture theatre, Oxford Brookes University (Gypsy Lane campus) lecturing on the solution to the problems arising with Ian Hugo, a member of the Y2K task force will be

DL Notices

at 2pm. Structural biology seminar series
All lectures will be held in the Merrison Lecture Theatre

Serena Cooper, Daresbury Laboratory & Manchester Per-Deuteriated Proteins

Wednesday 22 April

Bluebell Lectin: A ligand to suit the occasion Lisa Wright, John Moores University Wednesday 6 May

Wednesday Wanderers

Just over seven miles of easy walking with some gentle hill climbs. Lunch at the Little Mill Inn, Rowarth. Lantern Pike, Rowarth and Cown Edge

When: Wednesday 6 May

Ham

Start: Maps Meet: Landranger sheet 110 Lane off Monks Road, opp. farm. nce: 024910)

sondent: Tony Buckley (Tel: DL ext. 3272, e-mail a.g.buckley@dl.ac.uk) Vatalie Bealing (Tel: RAL ext. 5484, e-mail n.d.bealing@rl.ac.uk)

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A Monthly Newsletter for Council Staff

APRIL 1998

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Noticeboard

partnership Ceravision and CLRC - a pioneering

three-year contract with CCLRC which persuaded Ceravision to return to Britain from Silicon Valley in the USA collaborative expertise. The deal microtechnology equipment and for access to clean room facilities, stakeholding in Ceravision in return partnership deal, CCLRC has taken a pioneering move, as part of the confirms their future partnership. In a the millennium, recently signed a panel display screens for whose aim is to prototype and license affordable, flat eravision, a new company

Government to help industry" UK attracting innovation from represents a new commitment by the prosper. This new deal with CCLRC young, innovative companies to there were few opportunities for Director. "I left Britain in 1982 because Dick Cooper, Ceravision's Managing America's Silicon Valley", commented "This is a brilliant example of the

neighbour in a 'seamless' joint. ceramic tiles, each linked to its screens by butting together four-inch Ceravision aim to produce their

using existing technology in an "This is not rocket science - we're

> display screens before the inspiring and novel way," commented Tim Reynolds, Director of Ceravision. "We have spent many years testing the predicting large, flat, affordable has been proved, we are confidently theories and, now that the technology

equipment required for their prototype manufacture. CMF already has an rooms and the state-of-the-art novel display. which is at the heart of Ceravision's emission' science and technology Microstructure Facility (CMF) clean has access to the Central international reputation in 'field Ceravision is located at RAL and

first prototype should be produced development will take place and the currently being built overseas, will be commissioned by Ceravision, which is within twelve months. delivered to RAL in May, when further Equipment designed and

our world-class expertise and facilities with their business ideas, we can provide a springboard for them into companies. This way, by combining partnership with young technology "We are happy to work in



Top row: Ejaz Huq, Linda Baines, Allyson Reed and Ron Lawes with Tim Reynolds and Steve Leigh of Ceravision (98RC2113)

fast moving, global market places", explained Allyson Reed, CCLRC's opportunity to work in partnership with them", she added. Commercial Director. "We have been deal. We are pleased to have the access to advanced microfabrication developing their ideas. Now they need spent time testing the theories and impressed by the way Ceravision have which we can provide as part of this expertise and expensive clean rooms



First joint ISIS-SRS magnetism meeting

everybody learnt something new and experimental techniques being microelectronics, and new example, data storage and materials, new applications in, for others simply to discover what all the fifty scientists from RAL and DL got meeting would not be the last. Nearly studies of magnetic materials. techniques available within CLRC for the breadth and variety of modern no one could fail to be impressed by the work presented was so broad that developed hand-in-hand. The scope of today, with new classes of synthetic technologically important than they are have never been more interesting or fuss was about! Magnetism studies together - some to compare notes and conclusion was unanimous - this nternational conference, the main agenda more in keeping with a major workshop with an

many apparently different processes are, in fact, closely related. To take full of magnetism studies by Stephen and some 'crystal-ball gazing' into the materials, developments in facilities and technologically important staff, describing studies of scientifically available, fourteen short talks were advantage of the limited time physics is remarkably common, and materials, much of the underlying strides towards new methods and showed that while we have made rapic Lovesey and Gerrit van der Laan, who presented by enthusiastic SRS and ISIS The meeting started with overviews

including new methods for probing the complementarity between the two giant magneto-resistance (GMR) were consistently highlighted during crystalline anisotropy. X-ray/neutron microscopic origins of magnetoabout magnetic dichroism studies techniques, and delegates learned measurements reinforced the Neutron and X-ray reflectometry perovskites and magnetic clusters the meeting: thin-films and layers, Three classes of magnetic material

> density due to charge-ordering. be crucial for studies of GMR materials complementarity was again shown to revealed subtle changes in electron fluctuations, while photon beams have structures and probed magnetic uncovered a diversity of magnetic where, for example, neutrons have

fter a two-day CLRC

of the CCP9 project, which can, determine band-structures via X-ray including new ideas for experiments to central experimental facilities, and this apparently, calculate everything! band-structure code, developed as part impressed by an introduction to the fluorescence. Delegates were theory and computational advances, was reflected in presentations on CLRC is a provider of far more than

up to do. Several talks described new materials clearly have much catching synchrotron studies of magnetic have grown together from the start, replacement for the SRS - DIAMOND and the planned third-generation synchrotron sources, such as the ESRF possibilities with third-generation X-ray techniques, including While neutrons and magnetism

year. CLRC magnetism meeting at ISIS next invited DL staff to attend the second closed by Stephen Lovesey who the 'conference dinner' - and was despite several headaches following The meeting was enjoyed by all -



Roger Eccleston describes some 'Awkward moments on a ladder' (DL98/22/8)



Esther Dudzik (left) and Bridget Murphy take a well-earned break from a busy meeting (DL98/22/12)

Steve Collins

TO THE EDITOR

did not get to see before my To all those friends and colleagues I

time would be appreciated. Best occasional telephone call from time to the local area sometime soon. The wishes to all. future and hope to see you around I wish you all the best for the

Ray Dance

Drama with the stars

and space science. aspects of particle physics, astronomy dramatic presentations based on GCSE drama students to develop short the aim of the day was for teams of and supported by a grant from PPARC, Organised by The Oxford Trust 'Drama with the stars' unusual schools event called

offering creative ideas. David Miller) assisted the students by Curtis, Chris Davis, Norman Gee, RAL staff (John Bradford, Jeremy some relevant RAL facilities and five scientists. The day began with a tour of drama professionals and RAL answering factual questions and The event involved input from both

gluons called 'Quarky Families' from St Mary's School in Wantage, who the life and death of stars with tv cookery with 'Ready, Steady, Bang' central theme of their drama, and the successful in making the science a performed a piece about quarks and The overall winners were students system with 'The Whistle-Stop Tour' 'Shooting Stars' and a tour of the solar entertaining. They included Big Bang performances were varied and The students were generally

n February RAL hosted an science involved in their performance many students had remembered the completed a month after the event, they would like to do it again. with 88% of students rating the event feedback from the day was positive, because of their interest in drama Although questionnaires were four or five (out of six) and 75% saying rather than science, yet student Norman Gee who helped with the

an enjoyable day, and I'm very happy that RAL was able to host this event. struck by how very appreciative the the afternoon presentations, I was to portray a decaying neutron. After morning as different groups explored what it felt like to be a quark or a how steady trickle of science throughout the event said, "As a scientist of no Hopefully some of the science will youngsters were. They had clearly had were all very friendly, and there was a fearful before this event. However, the thespian ability I was more than a little oungsters and the drama specialists

article - Ed. Oxford Trust for contributing to this Thanks to Bridget Holligan of The



Steve Mesure from Floating Point theatre company helps some students with some ideas for their performance (98MC1463)



The winning pupils from St Mary's, Wantage with RAL staff (from left to right) David, Norman, John and Jeremy (98MC1481)

questionnaires: Some excerpts from the

making the universe - using the idea i (demonstrated in oven) it exploded came from nothing. When heated Cook show. One contestant was "We based it on the Ready Steady

We then did a dance with a song abou quark became a gluon. We had charm, quarks. One quark died so another was the gluon stuck them back together. down, strange. They all split up and allowed to join the group. The dead "We performed a piece on the life of protons and quarks

It was called Deuteronomy's Dilemma "Our group topic was particle physics when an electron splits up a neutron and a proton. It is portrayed as a

RAL Open Days 1998

invitations will be mailed shortly but if the basis of the mailing list. The checked for duplicates and will form pass them through to your Director's addresses. These are currently being you have any more suggestions, please We now have nearly 5000 names and invitations to Open Days big thank you to everyone who submitted nominations for



Industry, will be the keynote speaker at the special industry Dau (988C1966) ndustry Day (98RC1896) ohn Battle MP, Minister for Science,

or exhibitions or have contact with A flyer has been produced to advertise will send you some to hand out. some along, please let us know and we external people and would like to take RAL. If you are visiting any companies from Press and Public Relations at the week's events which is available Plans for the week are well underway

Visitors will be invited to talk to staff attend a reception hosted by Dr the opportunity to preview the week. workshop and a real experiment. work, and take part in a 'hands-on' about CCLRC - its facilities and its facilities, visit an interactive exhibition Laboratory in the morning and see its have the opportunity to visit the Westwood in the evening. Schools will will be specifically invited to tour and VIPs will be welcome on any day but and view our facilities. Press will have The week starts on Friday 26 June.

for staff, family and friends. and Sunday 28 June has been set aside will open its doors to the general public On Saturday 27 June, the Laboratory

which is being co-ordinated by the Monday 29 June is an Industry Day

> discussion on the benefits of afternoon. able to tour our facilities in the topics throughout the day and will be to listen to seminars by staff on various partnership. Industrialists will be able will be followed by a round-table keynote address in the morning which accepted the invitation to give the Commercial Office. John Battle MP has

on both days. series of events for schools will also run government research communities. A university, research council and July are aimed primarily at the Tuesday 30 June and Wednesday 1

involved in the departmental exhibits Any volunteers who are not already guiding school parties and stewarding week including manning reception, with various tasks throughout the We will be looking for staff to help

http://www.cclrc.ac.uk/Opendays98/ Days can be found at: The latest information on Open

e-mail n.d.bealing@rl.ac.uk Natalie Bealing ext. 5484

Indoor sports day

CLRC did very well at this year's indoor sports day coming away with many of the trophies... Cribbage:

olleyball: RAL he CLRC winners were



Ten pin bowling:

John Sherman (RAL) Mo Smith (RAL) Natalie Bealing and Richard Bishop (RAL)

John Murphy (DL)

Pete Hawkins (RAL) Andy Hingston/Jon Winters,

From left to right, top row: Chris Robey, Anne Southwell, Chris Seelig. Bottom row: Martin Strange and Matt Cadman (98RC1981)

organised to give each of the six pairs The Snooker pairs competition was

top becoming the overall winners. Rather fittingly the afternoon did and Jamie Doswell) had won their produce a 'final'. RGO1 (Paul Martin the afternoon with the team finishing the maximum number of games during

previous 4 games and RAL1 (Richard

RGO1 deservedly won the competition but completing a clean run of 5 games overall winners. It was a close game, last game by 33 points to become the won 3 out of 4 and needed to win the stephenson and David Farrell) had

took part in the event. DL's Dave Dawson and Alan Few also higher points scored total. RAL's Ashley Lester and John Randall and participation, RGO2 (Bob Doswell and Ken Maris) came second, matching RAL1's three wins but accumulating a Suitably in the final year of RGO's

participation, and congratulations and very best wishes for the future to the lads from RGO. A big thanks to everyone for their

David Farrell

Together into the Millennium

question and answer session. discussion, formal tutor input and a teamworking exercises, group Millennium'. The conference was nighly participative including LRC secretaries recently took part in a one day

secretaries of Investors in People and looked at the changing role of the was carried through the rest of the day set the tone for the event and this feeling Peter's enthusiasm and encouragement secretary within an organisation. highlighted the implications for address which explained why secretaries are important in CLRC, Peter Sharp gave the keynote

importance of teamworking, which how the secretarial role has changed teamworking, considering the investigated all aspects of future. After lunch the sessions and would continue to do so in the The morning sessions focused on

> valuable lesson to us all! results working individually; clearly a they could not have got the same working as teams and most agreed that at how much had been achieved this session. Delegates were surprised exercise clearly showed the value of The plenary discussion after a group which new 'teams' we could be part of. teams' we were already part of and

the Industrial Society Co-ordinator, believe most of us will look about personal development and I day to react very positively to the ideas had all been stimulated throughout the and plenty of discussion. I believe we valuable input from Charlotta Hickie, considered personal development with

resource. The 'prickly structure, and use of the CLRC training including Investors in People, career question and answer session with some interesting questions on subjects

The final working session of the day

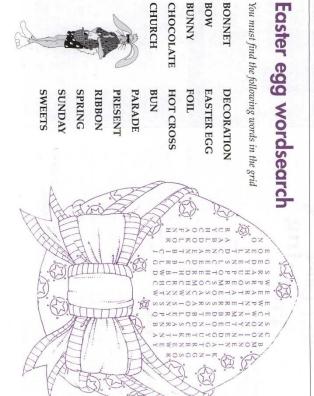
enthusiastically for new challenges! The day was rounded off with a

came back with action lists and feedback from delegates and we all budgets could not accommodate the because their Department project for training were sometimes refused were obviously concerned that requests training came up and some delegates question of Department budgets for I have had some very positive

part of the larger CLRC 'team'. our manager/secretary 'teams' and as effectively in our department 'teams' challenges and working together more can keep up the momentum to be more stimulating experience and I hope we felt that it was an extremely useful and day with our managers. I personally positive about taking on new intentions to discuss ideas from the

to going 'together into the Millennium' people who are now looking forward competent, professional group of The secretarial staff at CLRC are a

Rita Hollington





Training update

Forthcoming courses

of service you provide. one day workshop is for all staff who Customer Focus (DL), 20 Apr - This well as external) to improve the quality interact with customers (internal as

very informative day. and safety, procurement and others - a overview of CLRC and the work of section know. The day will give you an induction course, please let Training started work in the last few months personnel, the unions, travel, health and have not yet been invited to an Induction (RAL), 23 Apr - If you

their training some years ago. day refresher course for staff who did vital course for anyone involved in Interviewing (RAL), 17 & 18 June - A interviewing. Also, coming soon, a one Selection And Promotion

> support those you manage. strategies, managing stress and how to level. How to develop personal when it begins to get to an unhealthy to recognise the signs of stress and Stress (RAL & DL), date TBA - How

Investors in People (IIP)

- about. wanted more details on what this is all project managers and others who have workshops has been organised for IIP A series of one day introductory
- each department. think about what IIP will mean for for the first time and are beginning to IIP project managers have now met
- Diane Tunnicliffe is visiting each project manager to identify the areas

training and development. managing performance and, of course planning, management effectiveness processes i.e. communication, where there may be gaps in the

- available shortly afterwards. them to our IIP advisor who is now has collated the results and forwarded enormously. The external consultant everyone who completed it, it will help questionnaires - a big thank you to A summary of the results will be presented to the LMB on the 20 April writing up the diagnostic report to be There was an excellent return rate of
- formulate an action plan for your Your IIP project manager will then

RAL Computing Training

Interested in Perl or IDL software?

to gauge the level of interest and identify suitable course content. Computing Training as they are trying training in either, please contact RAL software. If you have a need for interest in courses in Perl and / or IDL A number of staff have expressed

New NT course - going further with NT4

making them work together. managing files and applications and will be introduced to techniques for good working knowledge of the and is aimed at end-users who have a Windows NT4/95 environment. You This course is non-technical in nature

applications, install a printer. with other users, link files across know how to share directories/folders By the end of the course you will

Topics covered:

Managing Applications: multiple file windows. applications on start-up; manag setting default folders; running

Exchanging data: dynamic data Exchange and OL

File management: folders; mapping drives. Computer, My Briefcase; sharin, the working views in Explorer, 1 finding files and folders; manag

See RAL Computing Training w printing from the desktop.

Installing a printer; drag and dr

dates and facilities: pages for contacts and course detai

training/ral_computing http://admin-www.rl.ac.uk/admin/

27-29 NT Administrators

Etrangères in France. Its aim is to and the Ministère des Affaires managed by the British Council established in 1989, is jointly The Alliance programme promote the development of ranco-British scientific co-

applied social sciences.

France and the UK.

development of a technique or a process, or the study of a problem therefore be particularly welcomed Multidisciplinary projects will looking at issues surrounding the either a direct collaboration in this field. technical innovation. resulting from a scientific and sciences and the pure sciences between researchers in the social will be given to projects involving Applied social sciences: priority priority areas are defined. Pure or applied sciences: no

Criteria for selection

Preference will be given to those funding (e.g. EU or industry). and potential for subsequent involvement of young researchers and innovation of research, between the two countries, impact the development of new cooperation projects showing most promise for

applications is 1 May 1998. Further details including finance and at URLhttp://www.britcoun.org/france application procedure can be found The closing date for new

community in promoting awareness and understanding of good idea for involving your engineering background and a Millennium awards science and technology, but you "If you have a science or

applied sciences, technology and the 1999 programme in pure and operation between universities and Applications are now invited for public sector research institutes in the PR office at RAL ext. 5789. partnerships through science, making awards from £1,000 to the British Association and are Millennium Awards. The the leaflet describing the

Nursery review

states that the quality of teaching and accommodation is good with a of activities in a happy, relaxed and secure environment. The report also recent report by the Office for Standards in Education (OFSTED). standard and mathemeatics is a literacy are developed to a high for the children. Language and good range of activities available The nursery provides a good range its community well" according to a RAL's Little Stars Nursery "serves

OFSTED inspection because it participates in the Voucher Scheme for 4 year olds. strong area of learning.

The nursery is subject to

or donations of toys that your child has outgrown are always welcome. suitable for under-5s; suggestions them a greater opportunity to use technology. On the latter the of cultural diversity and giving broadening children's experiences robots and programmable toys nursery has been looking for floor improvement is necessary addresses the two points where produce an action plan which Kinderquest have been asked to

Goodbye and Good Luck to all from Carol Barnes, R71.

Copies of the report are available

next month.

those retiring in March - photos

<im@oxfordsp.com> noticeboard or by email SNIPPETS

engineering and technology".

There are two more opportunities to make a proposal - closing dates £10,000 for "building community year. Get a copy of the leaflet from are 30 June and 31 December this forces with the Royal Society and Millennium Commission has joined to achieve it... then contact us," says need to acquire skills or resources RESBIG is one of six special interest groups run by the Chamber and a meeting point for those science and research companies Commerce and Industry forum for Allyson Reed has been appointed to lead the Oxfordshire Chamber of businesses in Oxfordshire involved in science based New Chair for Chamber science

lan MacPherson, Marketing Manager, Oxford Science Park and Bill McCardle, Commerce with Allyson Reed (98RC2122 Director, Oxfordshire Chamber of

RESBIG diary dates

Thursday 23 April Raising capital for science based 2.30 - 5pm

Wednesday 10 June Managing the R&D process 5.30 - 7.30pm

Business planning Wednesday 7 Oct 12.30 - 5pm

Wednesday 18 Nov Marketing 5.30 - 7.30pm

on the Commercial Office Science Park. Further information Meetings are held at the Oxford