A Monthly Newsletter for Council Staff

NOTICEBOARD

CLRC Notices

Wright, B30, DL: which you no longer use, please send them to Peter If you have any of the following DIL integrated circuits used in the SRS control system and are urgently required. obtain and many are now obsolete. These devices are still Standard TTL devices have become very difficult to MK1 control system support spares required

/400	7402	7404	7406	7407	7408	7410	
7432	7438	7442	7474	7490	74121	74123	
74154	74175	74193					
Obsol	Obsolete:						
7401	7413	7428	7430	7437	7440	7475	
7485	7493	74155					

RAL Notices

RAL lectures

at 3pm. All lectures are held in the Pickavance Lecture Theatre

29 January

Dame Fiona Caldicott Government's policy on health The role of all Medical Royal Colleges in relation to the

19 February

Mathematical clues to nature's secrets Prof Ian Stewart, Warwick University

Harwell film society

season in the Cockcroft Hall at 7.45pm. Screenings are open to non-members at £3 per film: Films are shown on alternate Tuesdays throughout the

17 February

3 February

Emma

Antonia's line

The people vs. Larry Flynt

To Let from beginning of Jan 1998, fully furnished 1 bedroom flat in Didcot, £360 pcm plus bills. Telephone 01235 815204 for further details.

Radiations Regulations, and also advised on occupational hygiene, retiring due to ill-health in 1991.

We send our condolences to bis wife, Hazel physics, first on the 50 MeV Proton Linear Accelerator, and later on Nimrod. He was the first Radiation Laboratory in 1964, having previously worked at Dounreay and Harwell. He was in charge of health Protection Adviser to RAL under the 1985 lonising Bob Hack died on 22 December. He came to Rutherford

DL Notices

Seven miles of easy winter walking around Whitegate with a lunch stop at the Plough Inn. Returning via the village centre, New Pool and Pettypool.

ligsaw Link Club

with transport provided to and from the Moore and Daresbury C.P schools. by Social Services. It offers quality before-school and after-school childcare facilities for children aged 4-12, Rugby Club, is supported by Normidtec and registered 20 February). The facility, which operates from Moore taking bookings for the February half-term holidays (16-Jigsaw Link Club has opened it's doors and we are now

between 8am and 6pm at a cost of £13 per day or £7.50 per half day. If anyone would like a holiday booking The holiday club will run during every school holiday mation about Jigsaw's facilities

Whitegate Way and Pettypool Wednesday Wanderers

Ham Wednesday 4 February

Landranger sheet 118. Pathfinder 758 and 775
Park along the verge of Kennel Lane, Sandiway
(map reference: 602704)

Daresbury retirees

The first quarterly rendevous is on 20 January for lunch at the Stretton Fox between 12 noon and 2pm. The pub can be found off Spark Hall Close from the roundabout at J10, M56. All retirees and spouses welcome.

please contact Sue Brierley-Jones, (A29) ext. 3359

MAPS tank arrives at ISIS

INSIDE THIS ISSUE

High Power laser users meeting

Letters to the Editor

Computing Training

Oxford Trust Festival

Snippets 7

Noticeboard

Little Stars Christms party Photo Caption

New perspectives 6

CCLRC Open Days

Training Update

outstanding reward High pressure brings

synchrotron radiation science' at a presented with an award for his Laboratory since 1991, has been who has worked at Daresbury outstanding contribution to University of Liverpool r Malcolm McMahon, a Fellow from the Royal Society Research

synchrotron radiation. of 35 years who has carried out £1000) prize to a scientist under the age decided to award the 1500 ecu (about Synchrotron Radiation Society (ESRS) synchrotron radiation, the European significant research in Europe using To celebrate fifty years of

conference in Grenoble, France.

ray film. The original Japanese image plate rather than traditional Xsource and using a very sensitive instead of a laboratory-based X-ray small samples of material in high accurate measurements to be taken of development of a technique allowing monochromatic synchrotron radiation late 1980s, involves using very intense method, first developed in Japan in the their crystal structure. The basic pressure experiments to determine Malcolm's research involved the

> enhanced at Daresbury by Richard techniques were substantially been a world-leading facility at Nelmes' group in which Dr McMahon 1990 until his move to Liverpool in 1996. The result of their efforts has worked from the start of the project in

pressure - though the temperatures and accurate crystal structures at high group and others to start to determine his colleagues is allowing his research electricity? The image plate technique developed by Malcolm McMahon and it melt? How well does it conduct crystal structure of iron under these they behave in the enormous pressures and temperatures at the centre of the conditions tells us nothing about how behaviour of these materials at normal hydrogen is a metallic solid. The that at extremely high pressures under high pressure. For example, at conditions? At what temperature does Earth and other planets. What is the atmospheric pressure) and it is though loses its magnetic properties at and hydrogen is a gas. However, iron atmospheric pressure iron is magnetic pressures of 100 kbars (100,000 times Curious things happen to materials

Daresbury for high-pressure science



(DL97/148/5)

centre of the Earth! still a long way from conditions at the pressures achieved at Daresbury are

at the Daresbury Laboratory". Edinburgh University, and to the staff of credit has to go to my colleagues, that this was team effort. "A great deal Allen and Scott Belmonte from especially Richard Nelmes, David doing", he commented, but stressed awarded a prize for work that I enjoy prestigious prize. "It's wonderful to be delighted to be awarded this Malcolm was understandably

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nt by 15th of the month

COUNCIL FOR THE CENTRAL LABORATORY OF THE RESEARCH COUN

CLRC

the MAPS project. 21 November was an exciting moment for the team of scientists and engineers working on flight path of six metres from the neutron scattering instrument with a detector tank built world wide for a he 22 ton detector tank of at RAL. It is the biggest arrived at the ISIS facility the new spectrometer has later connected to the other instrument with neutron absorbing material and side of the hall, where it will be lined tank is now in its location, on the south manoeuvring all went well and the But with delicate and skilled target station and the Karmen bunker?

MAPS spectrometer is a joint project between the Universities of Warwick EPSRC. MAPS has also received and Oxford and ISIS, funded as a additional funding from the USA and collaborative research project by The design and construction of the

clear the shielding of the proton beam the tank fit through the door? Would it in the ISIS experimental hall: Would tank from the lorry to its final position

being placed during the transfer of the

We could hear a number of bets modating a huge detector area of sample position to the detectors and

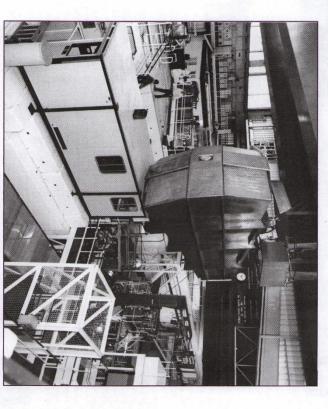
expected later this year.

components. First neutrons are

line? Would it fit between the ISIS

excitations in single crystals. MAPS modern materials in everyday life. the application and optimisation of spins in magnetic materials, important atoms in crystals and the movements of scientists to measure the vibrations of will provide unique possibilities for chopper spectrometer for the studies of ISIS is the world's first dedicated fundamental research which underpins This new flagship instrument for

Uschi Steigenberger



The MAPS detector tank on its passage through the ISIS Experimental Hall (97RC4603)

High Power Laser Users annual meeting

laser scientists working on high power then, the meeting has grown as it coordinate their work. Every year since at the Cosener's House to discuss and at the Central Laser Facility (CLF) met attracted experimental physicists and associated with the work bout ten years ago, a small number of UK theoretical physicists

More than half of the participants, tremendously successful gathering and AWE, took part in another universities, as well as CLRC, EPSRC about seventy people from a number of At the 1997 meeting in December,

> academic community scientific opportunities available to the CLF which would enhance the the user community and describing started the proceedings by welcoming Director of the Central Laser Facility, of a high standard. Henry Hutchinson, students and RA's, gave scientific talks including a large number of PhD proposed new developments at the

gases, as well as clusters, was well generation from solid targets and near future. The topic of harmonic window' should be achieved in the explained that operation in the 'water lasers and their applications and it was A series of talks dealt with X-ray

the talks dealt with newly emerging experimental viewpoints. The rest of covered both from the theoretical and spectroscopy of high energy density particles from laser-target interaction, areas including the fast ignitor, fast plasmas and new laser systems Feedback from the participants

evolving scientific field. confirmed that this was an important the latest developments in a rapidly participate and to be informed about opportunity for them both to

Abdeslem Djaoui

CCLRC Open Days 1998

planned as follows: science and technology. The Days are and increasing public understanding of public at large what CCLRC is doing; industry; accountability, showing the the capabilities of CCLRC to users and customers from universities and marketing, by which I mean exposing There will be three main strands: CCLRC in research and development. achievements and capabilities of stakeholders' and the wider public the range of actual and potential aim will be to demonstrate to a wide Partnership at the leading edge'. The inclusive. The theme will be 'CCLRC' CCLRC Open Days from Friday 26 June to AL will host the 1998 Thursday 2 July 1998

Fri 26 June pm Fri 26 June am Press, invited visitors and school visits

Sun 28 June Sat 27 June Public day Tours and evening reception for VIPs

Mon 29 June Staff, friends and family day Industry day (including evening

> Wed 1 July Tue 30 June Invited visitors and school visits Invited visitors and school visits

Thu 2 July

demand is very high) Additional school visit day (if

an excellent opportunity to do this. The advantage and the Open Days provide It is important that CCLRC shows its representative membership: Kurzfeld, and with the following Committee, chaired by Andrew wide ranging programme to its best LMB has appointed a Steering

Natalie Bealing (Secretary) Alison Brown (Lasers) Anna Orlowska (ASD) Gareth Noyes (TECH) Robert Sekulin (PPD) Sonia Moon (Comm) Gavin Williams (ISIS) Susan Hilton (DCI) Jeremy Curtis (SSD) fony Buckley (ADM)

support and, if you have a good idea on how to present your work, let them Please give these people your full

> opportunity for users to see what is every CCLRC user and contact must requests as fully as you can. In 1998, through more detailed circulars. The with which they are familiar. going on in areas other than the ones receive an invitation; it is the required so please respond to their nominations from each department are the end of January: around 400 task of assembling lists of invitees by departmental representatives have the Labnews, via WWW pages and for Open Days will be issued via Further news on the preparations

industrial sector. as possible, particularly in the The net must be cast as widely

Paul R Williams

stress. Dates to follow.

Forthcoming events

21-23 Jan and 4-6 Feb 1998

is offering six modules in business and engineers. skills and know-how for R&D scientists The LETPRO project (based in Oxford)

knowledge are increasingly important. and attendees at a previous series have found the sessions very valuable. Business awareness and commercial

17-19 April 98 at Loughborough MANAGEMENT, OINT BOARD FOR ENGINEERING

Battle MP. Attendees at previous theme this year is Competing for business excellence and the keynote Skills Conference - the conference conterences have given excellent BEM Management Development and address for this conference is by John

from your local Training Section Further information on both events

Courses for the New Year

Training sessions at RAL and DL in We will be running half day Appraisal

an APR at the end of March 98. invitation shortly if you are completing course. If you have not already follow on from the Objective Setting attended a course. you will be sent an This is a mandatory course and a

workshops are open to all employees and will help to identify causes and suggest strategies for coping with Stress Workshops Please send in your nominations. These

This half-day workshop gives further guidance on how to set SMART

the New Year. developed which will be repeated in successful one-day course has been pilot course a very relevant and Using the lessons learned from the Customer Focus

sit on an interviewing panel. Mandatory for anyone who is about to best reviews of all the courses. Always popular, and always gets the Selection and Promotion Interviewing

Refresher - Selection and Promotion

doing okay? Then this is the course for and want some reassurance that you're Have you been interviewing for years

like to see covered? Please get in touch identifying needs and designing a new course for managers who would like an in such a course and what would you update on the current thinking in management theory. Are you interested Training section are in the process of Refresher - Management Training

the language. have a knowledge of french and would of Science departments who already professors of Sciences or administrators 29 June-3 July 1998, Universite de appreciate the opportunity to practise Embassy is organising a course for The Cultural Service of the French Technologie de Compiegne (France) French Course for Scientists

The purpose of this course is:

- to improve the candidates' knowledge of 'everyday' french;
- become familiar with, scientific to improve their knowledge of, or
- to acquire some knowledge of the administrative structures and understanding of university universities and to gain an science departments of French contents of french programmes in
- to establish or to reinforce contacts with colleagues in France.

expenses. to finance their meal and travel Service of the French Embassy. costs will be borne by the Cultural The course fees and accommodation However candidates will be expected

available on this course. Please note that there are only 12 places

forms, please contact: For further information and application

e-mail Fax: (0171) 838 2088 23 Cromwell Road, London SW7 2EL Cultural Department, French Embassy Edwige Girardin, Education Attache Tel: (0171) 838 2055

27 March 1998. Closing date for application is

edwige.girardin@mail.ambafrance.org.uk

JANUARY

Courses for early 1998

21 Word Introduction

28

Word Intermediate

27 Excel Intermediate

22

Excel Introduction

New courses for 1998

courses and seminars include:courses offered. Some of the intended 1998 will see an extension to the

- Programming with Visual Basic
- Scientific Microsoft Word beginners know how

covering topics equations,

Introduction to PCs - PC

- Excel Workshops e.g. managing formulae, long documents budgets with Excel Microsoft
- What is Microsoft Office? a seminar

Publisher

Microsoft Office Open Forum

Computing Training

new mail system for CLRC Microsoft Exchange - a

will be organising training courses New Year RAL Computing Training the remainder of CLRC early in the installed, which will be extended to staff have already had Exchange Microsoft Exchange. A number of move over to one mail system, decided that it is more effective to coexist effectively, it has been required to ensure that these systems and MS Mail. Because of the efforts use in CLRC; Eudora/POP, cc:Mail currently three major mail systems in Readers will be aware that there are like to attend please contact Viv from January 1998, so if you would

13 NT Users 11 Word Introduction 05-06 Introduction to Access 04 PowerPoint 12 Word Intermediate 16-17 Access Basic

18 23-25 NT Administrators 19 Excel Intermediate Excel Introduction

Contact information:

Susan Hilton, Head of Group Email: s.c.hilton@rl.ac.uk Ext. 6154

Training Section for technical enquiries Email: p.d.athawes@rl.ac.uk Ext. 6188 Pat Athawes, Head of Computing

programme and dates and general Email: v.a.walker@rl.ac.uk the Computing Training Facility. enquiries including the availability of Viv Walker for information on course Ext. 5272

RAL Computing Training

and your sympathy and condolences at this sad time have been a great comfort. Thank you for all the cards and letters know what his death has meant to me, of Alan. All of you who knew us will you sent to me after the sudden death Dear friends and colleagues

Kay Knight

FEBRUARY

03 HTML

'Caring at Christmas' charity that cares for the homeless was given and has been sent to the Many thanks to all those people who Dear Natalie attended the RAL Carol Service. £40

RAL Christian Fellowship John Hogston

British Legion thanking CLRC for staff contributions during Remembrancetide and their dependents. Over £300 was raised at RAL and DL welfare of ex-Servicemen and women and the money will be used for the I have received a letter from The Royal Dear Natalie

Chris Taylor Thank you all,



The Oxford Trust Festival of Science and Innovation

clockwork radio fame. ioshua Silver and Dr Trevor Baylis of is hosting several events including the seminar which will be given by Prof opular Innovation and Growth he Oxford Trust are once January to 4 February. RAL successful event from 12 again running this

the following events: There are tickets still available for

will tell his own unique and fascinating story of the discovery of C^o. Free entry **Culham Laboratory** C⁶⁰ Buckminsterfullerene: not just a 19 January, 6.30pm, pretty molecule - Prof Sir Harry Kroto

with ticket.

30 January, 7pm,
RAL
The Innovations Show - a family event explore the science and history of innovations. £9 for a family ticket. Curioxity and the Science Museum will and 14 and their parents. Staff from suitable for children aged between 9

4 February, 6.30pm, HR Wallingford

entry with ticket. farming and scar-free healing. Free dramatic implications for chicken palates using alligators proved to have reveals how his research into cleft Ferguson from Manchester University discoveries from alligators - Prof Mark Sex, scars and birth defects: unexpected

> Trust on 01865 728953 Tickets are available from the Oxford

the stages may be consecutive or wide variety of colourful chemical demonstrate these principles with a reversible. Dr Malcolm Seddon will concurrent and finally, the reactions are reactions take place in stages, secondly, about chemical reactions. Firstly, that concerned with three simple ideas compounds and chemical clocks' is Scientists for Britain. 'Colourful lecture at RAL organised by Young Tickets are also available for a

01235 832335. available from Eric Wharton on students, £2.50 for adults and are February; tickets cost £1.50 for 8pm, 12 February and 2pm, 13

New perspectives

organised by the IoP's Neutron at The Cosener's House which was Scattering Group and the Faraday Science: A Young Researchers Meeting perspectives in Neutron and Muon scattering and muon spectroscopy. They were attending 'New working in the areas of neutron CLRC played host to 40 n 23 and 24 September few older ones!) young scientists (and a

by Dr Andrew Harrison (Edinburgh), Dr Steve Blundell (Oxford) and Dr Chemistry, with sponsorship from ISIS Stewart Parker (ISIS) respectively, who Division of the Royal Society of reviewed current research topics, The sessions began with keynote talks Muons; and Vibrations and Excitations Structure, Surfaces and Interfaces; divided into three sessions entitled and the EPSRC. The meeting was

> the opportunity to exchange ideas and on the Tuesday evening gave delegates instrumentation. A conference dinner researchers covering many aspects of neutron and muon science and views in a more relaxed environment. students and young postdoctoral

Chick Wilson Roger Eccleston

followed by contributed talks by PhD



Photo captions

"Would anyone notice if I kept this to re-upholster my sofa?" - Jeremy Curtis.

Christmas Party

Little Stars

Jeremy's 'disappearing hand' trick went down well at the children's Christmas party - Nigel Morris.

"I think I may be able to sell that peroxide accident as a panto wig." - Martin Prime.

"Do you think my surface luminosity and will turn me into a first magnitude star?"

"Mrs. Miggins, I have finally come to adapt your tea-dispenser to take the new groat. I will do the one in R68 as well for a small fee." - Tony Richards.

"If Arianne's the Beast, I'll have to play Beauty." - David Johnston.

"I've got my I.D. pass here somewhere..." - Anon



(97MC4771,

SNIPPETS

Congratulations to...

been single handed as behind me has but the achievement has by no means "I am honoured to receive this award the SERC, EPSRC and lately CCLRC contribution to industrial relations in received the award for his of the CCLRC Staff Trade Union side, New Year's honours. Bob, Chairman Bob Chandler received an MBE in the

Union side and the IPMS branch (and volunteers within the Staff Trade

been a supporting team of willing

a very tolerant wifel)", Bob said.



seconds! He completed the gruelling ten kilometre course finishing in 20th place overall (out of 180). Well done Pete! championships in London recently. In a closely fought battle for the veteran's medal, he missed out by only 14 National Civil Service cross-country Weatherhead competed in the Daresbury Laboratory's Pete

of the CERN Council since January 1997. The new President will be Dr CERN Council announced, at its Smith. Prof Maiani has been President of Prof Luciano Maiani as the next 1999, replacing Prof Chris Llewellyn-He will take up office from 1 January Director-General of the Organisation. meeting on 19 December, the election

include some humour. Suggestions for interesting books or websites will thinking puzzles. The puzzles will for interesting logical or lateral a new magazine and they are looking preferably have a scientific tone and BBC's Tomorrow's World is launching

<damian.carrington@bbc.co.uk>

at the BBC

also be very welcome. If you have any

ideas please email Damian Carrington

Over 160 IT Directors, including the discuss the evolution of WWW and inventors of the WWW, Tim Bernerssymposium on the World Wide Web which was held in London last month. particularly its impact on industry. Lee and Robert Cailliau, met to DCI staff organised an International International WWW symposium