

NOTICEBOARD

DL Notices

Training News

mail training@dl.ac.uk please contact the Training Section, A8, ext. 3600 or e-Swindon on 13 February 1997. For further information, Confidence course which will be held at Polaris House, Places are available on a JTS Assertiveness and Self-

Wednesday Wanderers

Delamere Forest and Tigers

Tiger's Head in Norley for lunch. tracks (which will be muddy in places), calling at the An easy 6.5 miles winter walk. Mainly on level forest

Start Weds 5 February 1997 Landranger sheet 117

Sherry

Roses chocolates Box biscuits for cheese

S Brind P Wastle

Chardonnay

Martini

Christmas pudding

Bottle of whiskey Bottle of red wine

R Bishop R Hadley

R Brumfitt

Case of Lager

Tin of chocolate biscuits

RAL Rec Soc Christmas draw winners

Case of Tartan bitter

B Harrow

Carter

Pathfinder sheet 757

Map ref. 548705 At the Delamere Forest Visitor Centre

> Stilton and Port Case of Boddingtons

M Napper

R Bryan

L Rich

K Gregory

A Napper

J Carter

S Greenall

Country Satin

B5152 Frodsham/Tarporley road at Delamere station. Go past the Linmere picnic area car park to reach the visitor How to get there: The Visitor Centre is signposted off the

RAL Notices

RAL Lectures

30 January 1997

Ms Ursula Owen, Editor - Index of Censorship The case of hate speech to be the subject of censorship Pickavance Lecture Theatre, 3pm

24 April 1997

Pickavance Lecture Theatre, 3pm

the British Monarchy The Kings and Queens: an irreverent cartoon history of

The Rt Hon Kenneth Baker MP

Trade Exhibition

exhibiting their products in the Central Exhibition area, 14 vacuum and gas handling companies will be R18, on Tuesday 21 January between 10am and 4pm. Services, will see a wide range of products including Visitors to the exhibition, organised by Scientific Vacuum

Galaxy chocolate Bottle of gin Bottle of port M Mills . Vernon

components, spectrometers and gauges. All welcome

vacuum deposition systems, cryopumps, high voltage

from the R22 shop at RAL priced at £4.20. The 1997 Space Science calendar is available for purchase

Missing equipment

anyone knows their wherabouts please contact Alan They went missing in the first week of December. If Stevens on ext. 6352/5887 Bosch Light Duty Electric Drill STEINEL Heat Gun electronics lab in R8 at RAL:-Two items are missing from the recently refurbished R41745 R44037

A Fluke87 digital multimeter disappeared from the ISIS contact Simon Lay on ext. 5673 target area in mid December at RAL. If found, please

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Articles, ideas and letters are very welcome

Articles to the Editor or Correspondent by 20th of the month



A Monthly Newsletter fo Council Staff

JANUARY 1997

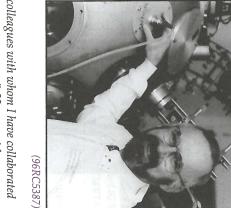
New Director for the CLF

(CLF) on Thursday 2 January 1997. post of Director, Central Laser Facility rofessor MHR (Henry) Hutchinson took up the new

(in physics) and his PhD (in laser Queens University Belfast for his MSc similar interests to study the interaction physicists from Imperial College with when it was set up in 1987 (the Blackett Director of the Blackett Laboratory physics ever since. He was appointed physics) and has been involved in laser Laser Consortium at Imperial College laboratory was set up to bring together Professor Hutchinson studied at

> user and in the development of the at the CLF for many been Professor of Laser Physics since high power laser systems. of laser radiation with matter) and has 1989. He has been involved in research years both as a

scientific fields. It is a opportunity and to work again with the programme at a time of exciting lasers and their use in a wide range of international level, to the development of since its formation and have admired the to contribute to the future development of contribution it has made, at an "I have been involved with the CLF great pleasure for me



over many years," Henry said.

Laser collaborati

successfully completed. IST supplied Nd:glass laser system has just been University of Lisbon to build a new CPA from the CLF was funded by the equipment. The technology transfer postgraduate student effort and funds for nstituto Superior Tecnico (IST), Technical two year collaboration between the Central Laser Facility and

been extremely beneficial to Framework IV programme. "The collaboration has

the EU under the TMR

experimental group within in the establishment of a new will be used to study Edwards of the CLF. Europe," according to Chris all parties and has resulted plasma interactions, in phenomena related to laserarge amplitude plasma particular the generation of The laser, built at RAL,

waves through interactions Recent studies have shown with ultrashort laser pulses.

> accelerating charged particles to high energies. waves can be applied towards that the electric field associated with such

> > INSIDE

during spring 1997 in December and The laser was transferred to Portugal will be installed at IST

Expotech 96 3

Schools 2



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align one of the amplifiers on the new laser shortly before completion Goncalo Figueira, University of Lisbon, and Colin Danson, RAL,

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Schools ligison

Rachel Atkinson started work at RAL in November as the new Schools Liaison Officer (SLO). Rachel and DL's SLO Anne Humphreys introduce themselves...



Rachel Atkinson (96RC5280)

probably now call myself a local. have lived in Milton for two and a half years and I can which I taught in a middle school in South Hertfordshire. I a half I taught in a primary school in Abingdon, before I've done plenty of liaising! For the previous year ix weeks on and I'm still enjoying the job of Schools Liaison Officer. I haven't visited a school yet, but

thank anyone who has been involved in schools links and schools tours and talks. I'd like to take this opportunity to at RAL, especially from those who have been involved with I have been really impressed with the enthusiasm of staff

a new 'gifting' programme (more on this next month - Ed.). I could spare an hour or two to help with events including would also welcome any interest from people who could take tours, talks and visits, and volunteers to 'clean' computers for interested please contact me. on a work experience student for a week or two. If you are I would be very interested to hear from anyone else who

proudly hanging in the Central Exhibition area in R18! Berkshire Education and Business Partnership which is certificate for our contributions to education from West definitely don't go unnoticed - we have recently received a effort are greatly appreciated by the schools concerned and The contributions that are made to the schools in time and

Rachel Atkinson RAL ext. 5950

studying science at a higher level. encourage enthusiasm for science and increase the numbers Laboratory to students, parents and teachers but also to was an opportunity not only to broadcast the work of the have always felt very proud to work here and felt this t was with great excitement that I started my new duties at Daresbury as Schools Liaison Officer in August. I

out. Work has also started on providing INSET (teacher encouraged. To achieve this, a group of enthusiastic GCSE vital curriculum event for most secondary schools in the Science Trail. This could make Daresbury a national venue developed for hands-on displays, problem solving days and and A level science teachers have already toured the for educational visits and maybe eventually a family day for the Advancement of Science Youth Section) a North West teachers will be making a similar visit. Longer term, I would preparing work sheets. In January a group of primary Laboratory and will shortly be defining areas that should be like to develop (in association with The British Association local vicinity; schools outside this area would also be My immediate aim is that a visit to Daresbury will be a

assistance and look forward to a rapidly expanding school have received from all the staff I have approached for I have been very encouraged by the positive response I

Anne Humphreys (93/181/10)



Anne Humphreys DL ext. 3708



Technology in the House of God

aresbury staff recently attended Expotech 96 - a technology exhibition at an

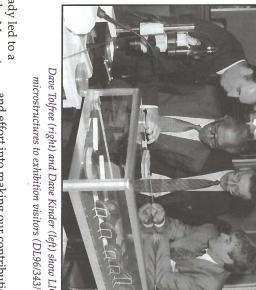
microcomponents using the LIGA companies improve their products, and exhibit and demonstrate how the SRS surroundings of Liverpool Anglican Cathedral. DL took one of 150 stands to also stimulated many questions from process. Information about DIAMOND to explain the manufacture of can help chemical and pharmaceutical TV, it took place in the striking Liverpool Universities and Granada the Merseyside Innovation Centre, businesses and organisations including NIMTECH and backed by leading helping new businesses. Organised by technology and innovation aimed at Expotech 96 was an exhibition of

> CAD for design. These contacts are now being did a demonstration of number of companies, as innovative nature of the meant that the overall and parking problems stimulated interest by a by the LIGA process visitors. Microparts made attracted many of the Daresbury exhibit disappointing, the attendance at the Although bad weather

Marl and David Kind people at Daresbury, useful arrangement followed up and have already led to a University. Thanks are due to many Group who put a lot with John Moores' of their own time ler of the LIGA particularly Ron

and effort into making our contribution to this event successful

Dave Tolfree



Dave Tolfree (right) and Dave Kinder (left) show LIGA microstructures to exhibition visitors (DL96/343/14)

Daresbury: your pumps repaired

training and specialist courses, he is pumps and equipment for the last 13 of vacuum pumps? Daresbury's Dave years and, thanks to in-house factory Hands has been involved with vacuum workshop for repair and maintenance equipped and operational ow many readers know that Daresbury has a fully

now able to service a

and repair rotary,

range of manufacturers' special tooling necessary services, as well as the full COSHH extract systems and the facility that is fully equipped with

could be achieved by keeping the facility, it was recognised that savings as well as cryogenic pumps and their turbo, diffusion and covered compound, workshop and then and, following the closure of the NSF, associated helium compressors. "From humble beginnings in a small he brought his know into the field of pump maintenance Dave was encouraged to go further repair of vacuum pumps in-house. From the early eighties at the NSF diaphragm pumps I have now built a onto a polythene ledge to the SRS.

often needed to repair the pumps, Dave tends to a pump (DL96/332/1) especially turbos" he commented. All the parts and spares are original

> making significant savings over buying stations using reconditioned pumps pumping rigs have already been put vacuum section at DL. spare pumps for users to rely on and a backup for their equipment should it standard one would expect from the equipment leaves the facility up to the manufacturers' items, ensuring that downtime. There are a selection of progress, thus avoiding expensive facility is to give to the user community pump supplier. The main aim of the together in the pump bay for several Dave works hand in hand with the fail when their experiments are in Specialist systems such as turbo

Dave can be contacted at DL on 01925

cost which can be as much as £10,000. new - in some cases saving 50% of the

charity RAL raffle raises £731 for local

causes of colitis and Crohn's disease," society. This money will be spent accept this cheque on behalf of the wonderful donation and am happy to "I'm very grateful to RAL for this Christmas raffle organiser, Rose received a cheque for £731 from the locally to carry out research into the Wadley, at the grand draw last month. for colitis and Crohn's Disease, the Oxford Area Group of eather Holt, Chairman of the National Association

toiletries, and a 30 inch-high garden prizes including colourful hand-knitted A first prize of £50 and forty other toys, a decorated Christmas cake,

> were donated by staff at gnome were handed out as Heather drew the winning first prize, all the prizes tickets. Apart from the

surgery can be used to medical cure for either, although there is no digestive tract and some cases, may result in a alleviate symptoms and, in They are diseases of the Crohn's disease affect over Ulcerated colitis and medicines do help and 120,000 people in the UK.



Rose (left) and Heather with the cheque (96RC5423)

Photo caption competition

month's Labnews: Here is a selection of captions for the photograph in last

here!" - Steve Hands "My hair was also this long when I started

was helping your mum to unravel an old and..." - Peter Jones sweater! You put your hands like this fun is. When I was young, a special treat "You kids these days. You don't know what ..and the X-rays come out - just like

that!" - Graeme Bushell-Wye

and girls." - Jim Kerfoot "This is Norman, the invisible brick, boys

and wore hats just like yours!" - Steve "Back in the 60s we all had hair this long

> left... much further to the put his penalty this "If Gareth Southgate had

Andy Dickinson

Munro Watt invisible ladder." breakthrough - physicist takes first step on "Invisibility

of my ego..." - Anon "And that's just the size

locomotion." - Robert "C'mon baby - do the



DL96/222/4

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enough room for all of them. at RAL whose name was pulled from competition. Congratulations to Graham in 1997. Thank you to everyone who huge basket of fruit courtesy of Welcome to the first edition of Labnews has not been included - there wasn't enjoyed reading them all. Sorry if yours printed opposite, on page 4. I really printed above. A selection of captions is ARAmark. The solution to the puzzle is the hat on Christmas Eve. He wins a Kerr from Administration Department Cross Reference and to enter the caption took the time to complete the Christmas

prosperous New Year. (Oh, that reminds I would like to wish you all a happy and me. I must buy my lottery ticket...)

Natalie

etter

Dear Natalie

Through your letters column, I would ike to thank all the people at RAL

who bought tickets and donated prizes for the RAL Messengers valuable time to sell tickets. Messengers, Rita Bryan and other RAL staff who gave their Christmas Draw. A special thank you to all the RAL

R71 Reception Mrs Rose Wadley Yours sincerely

Retirements

Sue Kinch

retirement in December. on the occasion of her riends and colleagues gathered to wish Sue Kinch 'Au revoir'

staff as a part-time CA (now known as quickly achieved promotion to CO AA) in the Personnel Division. She taken on to the permanent an agency temp in 1978 and was soon reviews area. (AO), working in the recruitment and originally joined the Laboratory as Derek Hothersall recalled that Sue

worked exclusively on the Review information and would never reveal an of the Personnel team and will be always met. Sue has been a most process ensuring that timetables were had had access to highly confidential sorely missed. Derek joked that she conscientious and dependable member ACR box mark... even under For the past few years Sue has

> time at the added that her some wonderful and said that the time to attend her people and made worked with which time she flown by, during last 18 years had giving up their many friends. She had met and Laboratory had Sue thanked

interests including Sue has many

so her retirement will be a busy one. cycling, rambling, antiques and travel line dancing,



Sue receiving a bouquet from Derek Hothersall (96RC5442)

Fred Roberts

red Roberts retired from RAL

before joining MG Cars. He came to the to work for the company after leaving owned Cowley Concrete. He went on Abingdon area to foster parents who fix it, I know a man who can!"). reputation as an 'AA' man ("If I can't Lab in 1981 and quickly developed a school and stayed there for 17 years born in London and evacuated to the services for 15 years. He was recently having worked in site

Roberts card, a loft ladder, a CD player Society, Fred was presented with a Ray At a presentation in the Récreational

> beautiful bouquet of and clock. His wife Jean perhaps at some time they happy retirement and was presented with a and a Mike Antony will explain what they are him and Jean a long and flowers. 'special edition' barometer Fred's colleagues wish

Ray Docherty

doing up in the loft with a



Fred (left) looks pretty pleased with his barometer. He is pictured with Ray Docherty (96RC 5078)

Malcolm Arnold

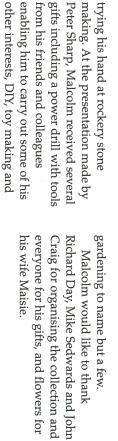
a terry from Gosport to Pompey!" workshop. The only ship I went on was service at HMS Collingwood in unfortunately, I spent all of my naval Fareham in the apprentice artificers be asked to go into the Navy but, serve my country. I was very lucky to then went on to serve a five year Malcolm recalls, "I was called upon to apprenticeship as a fitter and turner. foundry as an apprentice moulder. He his 51 years in employment at a large Having left school at the age of 14, Malcolm began the first two years of 'On completion of my apprenticeship" on 28 November after alcolm Arnold retired 34 years at RAL.

outstanding career at RAL. Joining with strong foundations for an on to become a project estimator, NIRNS in 1962 as a Craftsman, he went The experience provided Malcolm

retiring as a Technical Officer. moulding again", only this time he's Malcolm, "in the spring I will be "I've come full circle", declares

other interests, DIY,

from his friends and colleagues



Malcolm (right) and Peter Sharp admire the Ray Roberts card (96RC5272)

After Retirer

Ken Lea proves its not all pipe and slippers...

gardens. The White Lion, Alvanley was Raseheath for a guided tour of the took the group to The Royal Oak at Carol Blinkhorn. A summer outing staff member turned inn-keeper there, Cheshire College of Agriculture at Worleston for lunch, then on to the had the opportunity to meet a former rendezvous was held at The Noggin, Risley, in April, when 36 turned up and Arms, Warrington in January. A second for lunch at the Butcher's aresbury Retirees started 1996 with a gathering of 33

> 19 December. Christmas lunch at retirees joined the Retirees' table for the the venue in October and a dozen the Laboratory on

near Mold. On good days, turn out for in October, Loggerheads Country Park Hilbre Island, off the Wirral coast and, Wanderers' excursions have taken in out in fairer weather in May. Other February, repeated conditions from Eccleston to Chester in beginning with a round trip in snowy action eleven times during the year, Wednesday Wan with a better turnderers were in

the Wanderers has been well into the

Retirees and their spouses are most been most gratifying and has welcome to join. activities in 1997. New Laboratory encouraged plans for continuing these Levels of interest and support have

3577 or for information about activities, contact Ken Lea on 0161 928 For more information about retirees Darbyshire on 01606 888193 Wednesday Wanderers, contact Steve

fficial Openings the Order of

spectroscopy... and one for ultra-dilute - one for crystallography new experimental stations the official opening of two The SRS has recently seen

Non-Biological detector group has collaborated with EG&G Ortec to sources world-wide. This powerful high stability, fast scanning optics and the Daresbury designed opening ceremony for station 16.5. The Management Committee attended the data acquisition and control great improvement thanks to a recently friendliness of the new station is also a high count-rate electronics. The user develop a new solid-state detector with to handle the resulting high count rates. To solve the problem, Daresbury's monochromator which is now 28 November, the SR Department developed graphical user interface for be wasted without a detection system X-ray flux at the sample which would combination provides extremely high Vacuum Generators and in use at SR manufactured under licence by the Wiggler II source with focusing station combines high X-ray flux from ollowing a tour of the X-ray Absorption Spectroscopy (XAS) group's facilities on Thursday

This world class facility has unique



The XAS team (from the front of the picture): Bob Bilsborrow (station manager), David Norman (Head of Spectroscopy), Barry Dobson (leader of the project), Ian Munro and the software development team, engineers and technicians who brought it all together (DL96/347/2)

to everyone who was involved in its semiconductor dopants, environmental valuable addition to the SRS's array of development – station 16.5 will be a situ catalysis. Congratulations are due contaminants, metalloproteins and inby this technique. These include considered too dilute for investigation studies of systems previously capabilities which will enable XAS research facilities.

Bob Bilsborrow

atomic structure of materials from very investment of £0.8 million has resulted addition to the SRS. EPSRC's could not have been studied before. Its small or poorly developed crystals that abroad. The new station will probe the community in the UK as well as many in a facility that will be used by most of the chemical crystallography recently on station 9.8, the latest an Munro officially 'cut the tape'

> significant user demand. capability has already resulted in high intensity and rapid data collection

construction period. The station will be specification for the station is higher was headed by Bill Clegg (Newcastle) of structural problems in the physical from the next round and is expected to from efficiency savings during the delivered ahead of schedule. The completed station has now been than was originally anticipated and the of Great Britain). Development started and Richard Catlow (Royal Institution play a major role in the understanding available for general user applications detector system has been partly funded 18 months ago. The overall The grant to construct station 9.8

(Band 6) on 18.11.96

Departures

a sample, a party was held for everyone involved in the design, station. construction and development of the After Ian fired the first test frame on

Bob Cernik



news

a NCB2 on 18.11.96 Departments at DL as a SO (Band 6) Mr N Chinnery who joined SR Administration Department at DL as Dr C Benmore who joined Science Administration Department at DL as as an EO (Band 6) on 25.11.96 an AO (Band 7) on 4.11.96 Department at RAL as a HSO (Band Administration Department at RAL Mrs RL Atkinson who joined an AA (Band 8) on 5.11.96 Mrs J Kidson who joined Mrs S Brierley Jones who joined Mrs J Baker who joined Welcome to:

on 25.11.96 Department at DL as a SSO (Band 4) Dr SJ Maginn who joined SR 5) on 18.11.96 Department at RAL as a HSO (Band Dr S Langridge who joined Science Administration Department at DL as Department at RAL as a Grad Eng Mr TC Slade who joined Technology Science Department at RAL as a Dr SJ Pepler who joined Space HSO (Band 5) on 4.11.96

RAL on 29.11.96 Miss FM Bolle who resigned from on 15.11.96 Mr J Addis who resigned from DL Farewell to:

RAL on 31.10.96 Mr TR Forester who resigned from

Mr S Harper who retired from DL on DL on 22.11.96

26.11.96

on 15.11.96 Mr G Miller who resigned from DL from RAL on 19.11.96 Mrs NG Lovegrove who resigned

RAL on 17.11.96 Mr FH Roberts who retired from

from DL on 8.11.96 Mr RR Whittington who resigned

Department at RAL on 5.8.96 to SEO (Band 4) in Administration

substantive EO (Band 6) in Mrs D Holden who was made Administration Department at DL

Mrs B Gibson who was promoted to Mr RE Chandler who was promoted Science Department at RAL on Department at RA to HSO (Band 5) in Technology Miss JM Friday who was promoted Department at RAL on 1.11.96 to SPTO (Band 4) in Technology to HPTO (Band 5) in Applied L on 1.10.96

Dr GM Courtier who retired from

Dr MJ Culver who retired from RAL Dr DG Cussans who resigned from

Mr DM Skuse who resigned from

Mr GW Brown who was promoted Promotions & regradings ...

AO(T) (Band 7) in Administration at

> Mr TM Hayler who was regraded to RAL on 14.11.96

Science Department at RAL on substantive SPTO (Band 4) in Space Department at RAL on 1.8.96 Mr GM Toplis who was made Grad Eng (Band 6) in Science

Administration Department at RAL Mrs ND Valentine who was made substantive EO (Band 6) in

Mr DW Williams who was promoted Mr BJ Wilkes who was promoted to to SGB1 (Band 7) in Administration Mrs RA Wadley who was promoted NC18 in Science Department at RAL Department at RAL on 16.5.96

announce the death in service of Mr It is with great sadness that we Death in Service Lowsley of the SR Department at

Dr SJ Unger commenced unpaid leave on 2.11.96

as stated last month was promoted to SO, not P&GS'D' Apologies to Mr MC Rudman who



(97RC1006) here on James' first visit to RAL Saturday 14 December. They are pictured birth of her son, James, who was born on Congratulations to Allyson Reed on the

Congratulations to Mike Lockwood New appointments

Council's programme in astronomy committee provides advice to the 1 April 1997 for three years. This Council's Astronomy Committee from be serving as a member of the Particle PPARC Executive on all aspects of the Physics and Astronomy Research (Space Science Department) who will

Council (NERC) has appointed a partfour year appointment on 1 January time, non-executive Chairman. Mr The Natural Environment Research James Smith CBE FEng FRSE began his

development of, the UK's knowledge Director, said "I believe that the move base. David Richards, Faraday's promoting wider access to, and academic/industrial interaction by vehicle for improving Network's aims are to provide a main office to Daresbury. The Network has recently re-located its The Faraday-Foresight North West

> businessman, and comprises years. The Committee is chaired by region and UK plc.' customer base for the benefit of the of Daresbury Laboratory's industrialwest of England and on the expansion north west. CCLRC is represented on industrialists and universities in the Geoffrey Piper, a leading local met at the Laboratory for the last two The Faraday Steering Committee has future level of innovation in the north will have in a significant impact on the

Millennium Award Scheme the Committee by David Tolfree.

information if you're interested. aspirations and reinvest their skills should offer individuals unique grant making organisations to run community' £20m is available for funds to run a Millennium Award and experience for the benefit of the opportunities to fulfil their personal Award Schemes. These schemes Under the theme 'you and your Scheme opens on 6 January 1997. The second application round for Press & PR (RAL ext 5789) for more wider community. Please contact

Euroball detector

involved in the project including the Universities of Liverpool, Manchester ordination of the project. collaboration between France, construction by a European data acquisition and in the comechanical design, electronics and Nuclear Physics Support Group has and York and DL. The Laboratory's the UK. Several UK institutions are Germany, Italy, Denmark, Sweden and for nuclear spectroscopy, is now under played a key role in preparing the Euroball, the next major g-ray detector

Faraday Network comes to DL

at Daresbury, was assembled at the Italy where it has been installed at the Laboratory before being shipped to The mechanical structure, designed

> operation in early 1997 completed Euroball is expected to start detectors are now being fitted and the Laboratori Nazionale di Legarno.

individual germanium detectors, used than its predecessors, allowing nuclei. The new detector array is an emerging from the collision of two collisions. of the exotic atomic nuclei made in the unprecedented study of the properties to study bursts of gamma rays order of magnitude more sensitive Euroball will consist of 239



Members of the Euroball team: Jim Kay, King from the University of Manchester from the University of Liverpool and Ron Daresbury, Peter Cook and Dave Seddon Chris Leyland and Rob Griffiths from

Nobugs workshop

in synchrotron radiation and neutron goals of Nobugs: sharing well-tested one-day workshop to promote the be superstitious when they met in web address: for further details, or take a look at the contact Manolis Pantos (DL ext 3275) facilities around the world. Please and user-approved software packages December on Friday 13th at DL for a Computer bug-fighters proved not to

http://www.dl.ac.uk/srs/fcis/nobugs/

JANUARY 1997

SZ

PETS

Mechatronics Awareness Seminar DL hosted the North West Mechatronics Awareness

solve motion, flow and process electronic and control engineering to combining mechanical, electrical, success. Mechatronics is the process of discipline approach. companies who embrace this multiconcept. Considerable improvements problems. The practice of combining recently which proved to be a great in performance are possible for Enterprises), this is a new and novel scientific challenges is well established technologies to resolve demanding within CLRC but for many industries, particularly SMEs (Small to Medium

extremely popular with local industry sources via the regional TEC & Mid Cheshire Training and Daresbury has provided expertise and Mechatronics Centre of Excellence in Warrington Collegiate Institute, North the new Centre which is now proving guidance in setting up and equipping Warrington, funded from European County Council to establish a Enterprise Council and Cheshire The Laboratory has worked with

DL was the venue for the first XAFS XAFS Conference

growth and diversity of research areas content of XAFS IX reflected the Greaves. and Chris Buckley (Kings using XAFS as a structural probe. August with almost 530 delegates. being held in Grenoble, France in wide conferences with the most recent, weekend in 1981 and the success of (X-ray absorption fine structure) study College London) together with a given by Daresbury 'old boy' Neville represented with plenary lectures The UK XAFS community was well More than ever before, the scientific the 9th International XAFS conference, that meeting led to a series of world-

Royal Institution), faces at the SRS - including Gopinathan Sankar (The Southampton). Corker (University of Yu Guo (DL) and lectures given by familiar number of parallel session Guang-Judith

X in Chicago. to future science which will be presented in XAFS and we can look forward was excellent scientifically Overall the conference

currently undergoing huge JET-X instrument is The flight model of the

before. It will be delivered to Moscow in space, it will sit in a vacuum at an multi-layer insulation and loaded into December, where it Space Science Department. JET-X, will be launched in Russian spacecraft Spectrum-X, and more distant X-ray launched and will 'see' fainter and sensitive X-ray telescope ever similar conditions to those it will meet order to test this X-ray telescope in RAL's new space test chamber. In weighs half a tonne, arrived at RAL in which is over 4 metres long and thermal tests at RAL's in the Summer for integration on the icy-cold -270 C and be carried out. JET-X will be the most objects than ever was wrapped in thorough tests will

trips to Italy, Germany, Sweden or the USA.

would like to be considered for old) scientists who have completed a If you know any young (14 - 20 years contact Press and PR (RAL ext. 5789) selection to represent the UK at science or engineering project and form. The British Youth Science Fair is international science fairs, please for more details and an application http://www.open.gov.uk/bnsc/bnsch the Web can be found at: of December. BNSC's homepage on London, SW1W 9SS at the beginning Please note the new address of the Congratulations moved to: 151 Buckingham Palace Rd, British National Space Centre who

Youth Science Fair

speedy delivery, mph were the only ambulance to arrive. After such a be born, so Paul had to deliver him at Matthew decided he couldn't wait to son, Matthew Paul, on 9 December. to Paul Hardy, who works in Applied home whilst waiting for the Science at RAL, on the birth of his

Father Christmas visits the Little Stars

enter - the winners get expenses paid individuals or teams of up to three can an activity of the British Association: nursery with a sackful of presents (97RC1012)