Would you be willing to write an article for LabNews? Yes/No
If yes, please add your details below.

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Any other comments about LabNews?

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Please indicate your age:

Under 30	[ ]	45 - 60	[ ]
30 - 45	[ ]	Over 60	[ ]

Name and address (optional - please complete if you would like to be entered into the prize draw.)

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Thanks for your time. Please return this questionnaire to:
CLRC Rutherford Appleton Laboratory, Press & PR R71,
Chilton, Didcot, Oxfordshire, OX11 0QX.

HAPPY HOLIDAYS

Articles, ideas and letters are very welcome!

Articles to the Editor or Correspondent by 15th of the month.

LABNEWS is published by Press and Public Relations and printed by Photographic & Reprographic Services

Rutherford Appleton Laboratory Chilton DIDCOT Oxon OX11 0QX
Tel: (01235) 445484 Fax: (01235) 446665
Daresbury Laboratory Daresbury WARRINGTON Cheshire WA4 4AD
Tel: (01925) 603235 Fax: (01925) 603195

Editor: Natalie Bealing (Tel: RAL ext. 5484, e-mail n.d.bealing@rl.ac.uk)
Correspondent: Jane Welborn Binks (Tel: DL ext. 3235, e-mail j.m.welborn-binks@dl.ac.uk)

DECEMBER 2000

CLRC LABNEWS

A MONTHLY NEWSLETTER FOR STAFF OF THE COUNCIL FOR THE CENTRAL LABORATORY OF THE RESEARCH COUNCILS

INSIDE THIS ISSUE

This is my first and last Christmas message to staff. For me it is a time for reflecting on the successes that we have had. I was very proud to have had an involvement in the recent Quinquennial Review of CCLRC, a requirement for all public sector organisations such as ours. We appear to have passed the test with flying colours and the final report is expected to be full of praise for the high quality of our work. No matter how good our facilities and equipment are, their successful exploitation to support the science and engineering base of this country depends critically on the quality and commitment of our staff. You have met the challenge and, as the holiday season approaches, you can look forward to a well-earned break.

Many of the previous Christmas messages have commented on aspects of our programme. I will not do so. All our science and engineering programmes are important and all staff contribute to our overall successes, either directly or indirectly. Other Christmas messages have recorded the arrival of new grandchildren to the Chief Executive's family. I have none to report, although I can record one for each of the previous six years. My Christmas, as a consequence, is going to be a happy family event and a noisy one. However you plan to spend your Christmas, I can only wish that your Christmas will be as enjoyable as ours.

My wife Una and I wish you a Merry Christmas and a Happy New Year.

Gordon Walker

CCLRC to play pivotal role in e-science

The government's recent announcement of extra funding for e-science was good news for CCLRC. The extra £5 million awarded to CCLRC over three years will enable development of e-science as a key technology for the next generation of major scientific facilities at the Laboratories sites, and to encourage and co-ordinate cross-disciplinary e-science activities. E-science means science increasingly done through global collaboration enabled by the Internet, involving huge volumes of data and using the most powerful computer resources.

Current and future facilities will create ever increasing amounts of data which need to be processed, transported, stored and visualised. It is important to be at the forefront of new computing technology to achieve this. E-science offers possibilities for stimulating cross-disciplinary research through the provision of a common Grid infrastructure; with its own broadly based scientific programme, CCLRC will play a key role in this. CCLRC took the UK into the flagship EU project named DataGrid. This European e-science computing activity focuses on transparent access to geographically dispersed data - application pilots cover genomics, earth observation and particle physics.

Within the DataGrid project, and in other areas, the Laboratories are already active in developing the new technology in setting up elements of the new computing infrastructure, and establishing collaborations with other institutes. One example is with Birkbeck College, London, where Professor Julia Goodfellow (who, incidentally, is newly appointed to our Council) will be working with CCLRC to develop remote control of data collection, analysis, and refinement for studies in structural biology and materials sciences. "This is excellent news and will enable the UK crystallography community to maintain its international standing. Such automation will be important for the development of structural genomics projects," she said.

Commenting on the funding announcement Gordon Walker said, "The extra funding will enable us to give our users unparalleled access to our facilities, enable us to produce highly trained people in this field, and allow full exploitation of our knowledge and advances for the benefit of business and commerce as well as for science and technology".

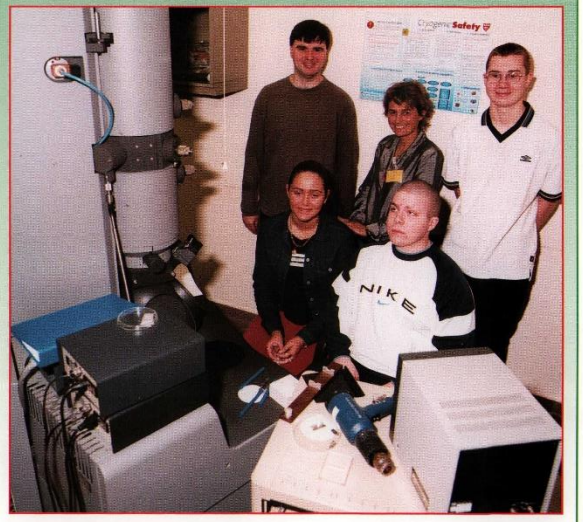
DataGrid project's home page:
http://grid.web.cern.ch/grid/
E-science Centre at CCLRC:
http://www.escience.clrc.ac.uk/

Norton Priory A-level biology visit

A small group of A-level biology students from Norton Priory High School recently visited DL to learn just how a scanning electron microscope works. This topic is now included in the A-level syllabus. David Clarke explained how the microscope works and its advantages over optical instruments before the students used the microscope for themselves. They were able to take a closer look at samples of human hair, a leaf, a fly, a blade of grass and a five pence coin. They also took the opportunity to see the high energy transmission electron microscope.

Thanks to David Clarke for all the additional work he undertook which allowed this visit to go ahead.

Anne Humphreys



(DL00/107/1)

RAL partners in new climate change research centre

Environment Minister Michael Meacher officially opened a new multi-million pound climate change research centre on 9 November 2000. The Tyndall Centre for Climate Change Research, which is based at the University of East Anglia, Norwich brings together climate scientists, economists, social scientists and engineers from nine higher education and research institutions to explore and develop radical new responses to climate change and help policy makers make informed decisions for the future.

Work at the centre will initially be organised around six research programmes. Jim Halliday, Head of the Energy Research Unit at RAL, is the deputy coordinator of the research programme on Renewable and New Energy Technologies. This programme will identify and develop new and renewable low-carbon energy sources and investigate ways to integrate them into existing energy systems. "It is widely recognised that renewable sources of energy will be an essential part of a UK climate change strategy. The Energy Research Unit at RAL has carried out pioneering research and development into renewable energy for many years, and is very excited at the prospect of using its skills to help tackle the challenge of climate change in this important new initiative", he explained.

The centre is funded by the DTI and three UK research councils - the Natural Environment Research Council, the Economic and Social Research Council, and the Engineering and Physical Sciences Research Council - who will allocate £10 million over five years to the project.
http://www.tyndall.uea.ac.uk

Sir Anthony Cleaver, Rt. Hon. Michael Meacher, Dr Mike Hulme and Prof John Lawton at the opening of the Tyndall Centre.

HSL

RAL's Numerical Analysis Group is delighted to announce the release of HSL 2000, which is available to the UK academic community free of charge.

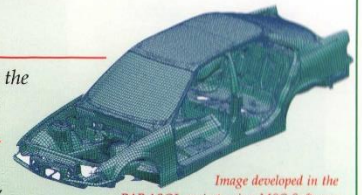


Image developed in the PARASOL project using MSC Software

HSL (formerly the Harwell Subroutine Library) is a collection of Fortran packages for large scale scientific computation written and developed by the Group and by other experts and collaborators. The Library started in 1963 and over the years it has evolved and has been extensively used on a wide range of computers, from CRAY supercomputers to modern PCs and high performance workstations. HSL now offers users a high standard of reliability and has an international reputation as a source of robust and efficient numerical software.

The latest release contains codes for automatic differentiation, differential equations, eigenvalues and eigenvectors, mathematical functions, sorting, linear programming, linear algebra, nonlinear equations, polynomials, optimisation and non-linear data fitting. New packages include state-of-the-art routines for sparse linear programming, the solution of sparse linear systems, and optimisation.

Free use of HSL 2000 by UK academics
While HSL 2000 is a commercial product, it is also available without charge to anyone working in an academic institution in the UK for teaching and academic research purposes. This innovation is a direct result of much of the core funding for the Numerical Analysis Group coming from an EPSRC grant. An academic licence for the use of any HSL 2000 package may be obtained without charge by UK academics through the HSL web page
http://www.cse.clrc.ac.uk/Activity/HSL

Information on the commercial use of HSL 2000 can be found by links from the main HSL web page.

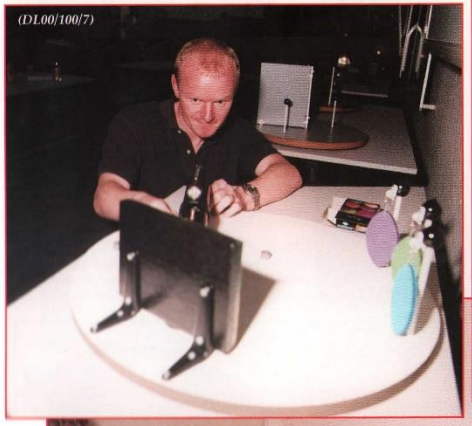
For more information on the Numerical Analysis Group, see
www.cse.clrc.ac.uk/Group/CSENAG

Science 2000

Twenty science teachers from throughout the North West recently spent the day at Daresbury discovering what goes on and what DL can offer schools. Science 2000 was the regional science teacher placement organised for North and Mid Cheshire Training and Enterprise Council. After hearing about the history of DL and the science of the SRS and its applications, the group toured the site. The afternoon session concentrated on what DL can offer schools and included a demonstration by CSE of their software education package which is being developed with the aid of a small in-house grant with input from local teachers and students. The hands-on session included the light workshop and the 'D Files' before the afternoon ended with refreshments in the Science Centre.

Thanks to Tony Buckley for his excellent presentation, Bill Smith and Alex Cote from CSE and guides Graham Clark and Bob Bilsborrow.

The D Files can be viewed at http://www.cclrc.ac.uk/Activity/ACTIVITY=DFiles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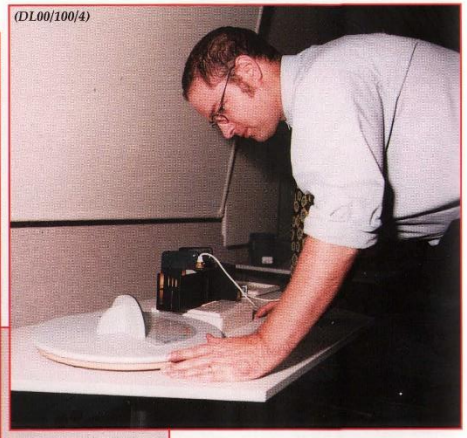
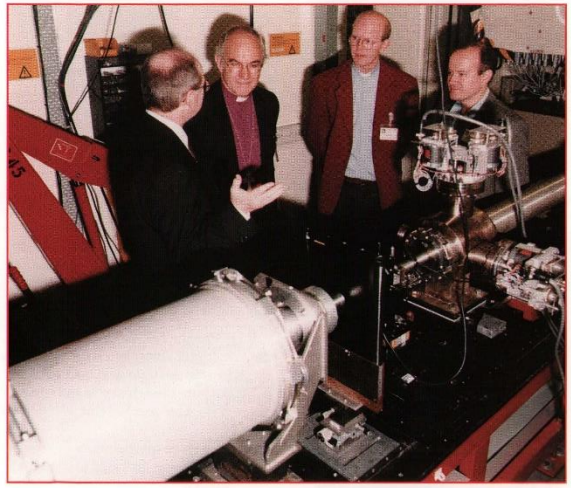

(DL00/100/4)


(DL00/100/6)


(DL00/100/9)

Visit of the Bishop of Chester

The Bishop of Chester, The Right Reverend Dr Peter R Forster, visited Daresbury recently to see the SRS and hear about recent scientific developments. He is a keen scientist with a PhD in Chemistry, and currently holds the 'portfolio' advising Canterbury on scientific matters, especially biotechnology. The Bishop was accompanied by the vicars of the two adjacent parishes, Reverends David Felix and John Harries (pictured second right). John also has a scientific background having previously worked as a researcher at DL specialising in muscle diffraction.



David Norman explains the use of station 16.1, designed for time-resolved studies of noncrystalline and fibrous materials, to the Bishop of Chester (second left) (DL00/102/15)

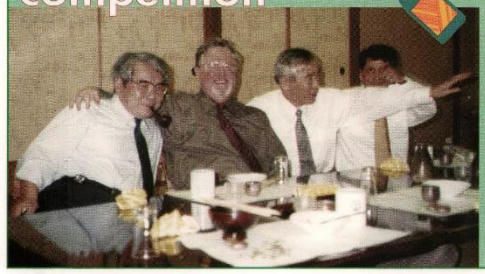
RAL Christian Fellowship presents:

RAL Christmas Carol Service

Where: R22 Lecture Theatre
When: Fri 15 December at 12.30
Why: To celebrate Christmas for what it really is
Who: Everyone - meeting is open to all staff and visitors

Guest speaker is Alistair Brown, General Director of the Baptist Missionary Society

Photo caption competition



To mark the success of the continuing collaboration between DL and RIKEN, a joint symposium was held at SPring-8, in November, with presentations both on past work, and future directions. Dr Yorinao Inoue, left, Director at the RIKEN Harima Institute, and Dr Hiromichi Kamitsubo, centre, Director-General SPring-8, are pictured with Hywel Price and Samar Hasnain. Dr Kamitsubo and Dr Inoue subsequently visited Daresbury at the beginning of December on the occasion of the signing of a new DL-SPring-8 agreement - more details on this next month.

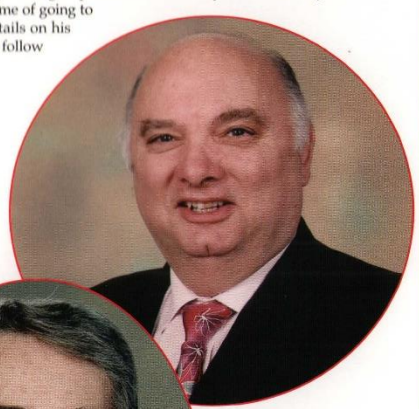
Can you suggest a suitable caption for this photo? Please email your suggestions to n.d.bealing@rl.ac.uk A selection of captions will be printed next month and Hywel is providing a bottle of champagne for the 'winning' entry.

New Directors

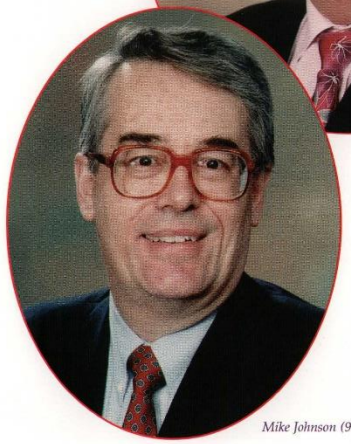
Richard Lawrence-Wilson recently announced two new senior staff appointments.

Mike Johnson took over as Director, Instrumentation on 1 December. Mike has been working at RAL since 1974, most recently as Head of ISIS Science Instrumentation Division. Mike said "The next five years will be exciting and challenging times for CLRC since they should see the building of Diamond, the creation of The Centre for Instrumentation, and the construction of ISIS' second target station. I am honoured and delighted to have the opportunity to lead the Instrumentation Department, which will be central to these developments. The Centre for Instrumentation will undertake strategic research in key areas of instrumentation that will underpin the Laboratory's ability to deliver novel instruments for the next generation of sources. I look forward to working with a larger circle of colleagues to deliver these programmes".

Ron Lawes takes up his new position as Director, Engineering on 1 January. The Central Microstructure Facility (CMF), Ron's current group, will also move to Engineering Department on that day. Ron was away in Australia at the time of going to press so more details on his appointment will follow next month.



Ron Lawes (98RC5404)



Mike Johnson (97RC1034)

Christmas fruit cake

Ingredients:
1 cup of water
1 cup of sugar
4 large eggs
8oz of nuts
The juice of one lemon
2 cups of dried fruit
1 tsp. of salt
1 tsp. baking powder
1 cup of brown sugar
1 bottle of whisk

Method:
Sample the whisky to check the quality.
Take a large bowl. Check the whisky again.
To be sure it is of the highest quality,
pour one level cup and drink.
Repeat.
Turn on the electric mixer,
beat one cup of butter in a large fluffy bowl.
Add 1tsp of sugar and beat again.
Make sure the whisky is still okay.
Cry another tup.

Turn off the mixer.
Break two eggs and add to the bowl
and chuck in the dried fruit.
Mix on the turner.
If the fried druit gets stuck in the beaters,
pry it loose with a drewdriver.
Sample the whisky to test for tonsisticity.

Next, sift 2 cups of salt. Or something.
Who cares? Check the whisky.
Now sift the lemon juice and strain the nuts.
Add one tablespoon of sugar or something.
Whatever you can find.
Grease the oven.
Turn the cake tin to 350 degrees.
Don't forget to beat off the turner.
Throw the bowl out of the window,
check the whisky and go to bed.

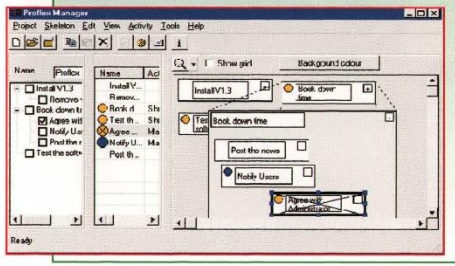
European Commission praise RAL IT project management

*In its final report on the EU funded research project **Pro**flex the European Commission said: "The management by CLS [a German company involved in the project] was good, and RAL has continued the quality of management and has, with the support of the other partners, showed initiative and competence in rescuing the project and bringing it to a successful close".*

Pro*flex* was a 3.4 million euro project, partly funded by the EU Esprit IV programme to develop business process management software. The software tools allow companies to flexibly characterise their business processes, and support delegation of tasks to staff in the organisation, reminding managers when tasks have, and have not, been completed. The tools are more flexible than others in the market which require a complete, detailed description of the processes before they can be first used. **Pro***flex* only requires those parts of the process to be defined which a manager wants to be; others can be clarified later as desired.

The project co-ordinator was a German company, CLS, which was forced into liquidation in May 1999 putting the future of the project in doubt. The other partners in the project consortium were WAAK Beschutte Werkplaats vzw in Belgium, Lebenshilfe Werkstatt GmbH in Germany and Alcatel IKO Kabel AB in Sweden who acted as users of the software. Already the leading technology innovator in the consortium, CLRC also took on the role of project co-ordinator to allow the project to continue. RAL's Damian MacRandall replanned the project extending it in time to complete the work, and managed it to its conclusion this June. The CEC have completed their final review of the project, which is now establishing links with companies that can exploit the software in the commercial market.

For further information see http://www.itd.clrc.ac.uk/Activity/Proflex



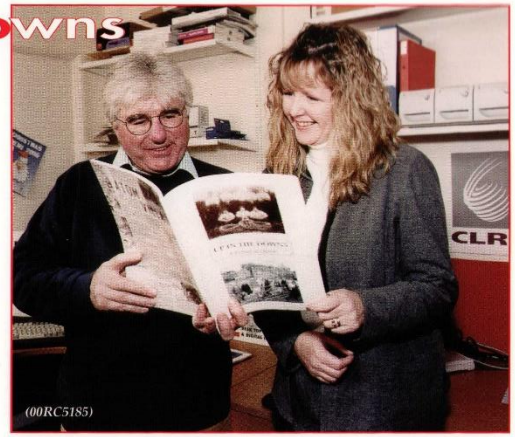
Screen image of the activities in the task of producing a demonstration including posters, linked in the Proflex flexible business process management tool

Up in the Downs

PRS's Carol Chung played a key role in Chilton village's Millennium project, a history in pictures entitled 'Up in the Downs'. Carol laid out the text and photographs and is pictured, right, admiring the finished work with Frank Dumbleton, the project co-ordinator.

Frank came in to present Carol with a copy of the book and a gift for all her hard work.

Copies of the book, priced at £10.00 each, are available from The Rose & Crown Public House, Chilton and Liz Morris, Parish Clerk, at 6 Latton Close, Chilton, tel: 01235 834233 or email <liz_morrischilton@yahoo.co.uk>.



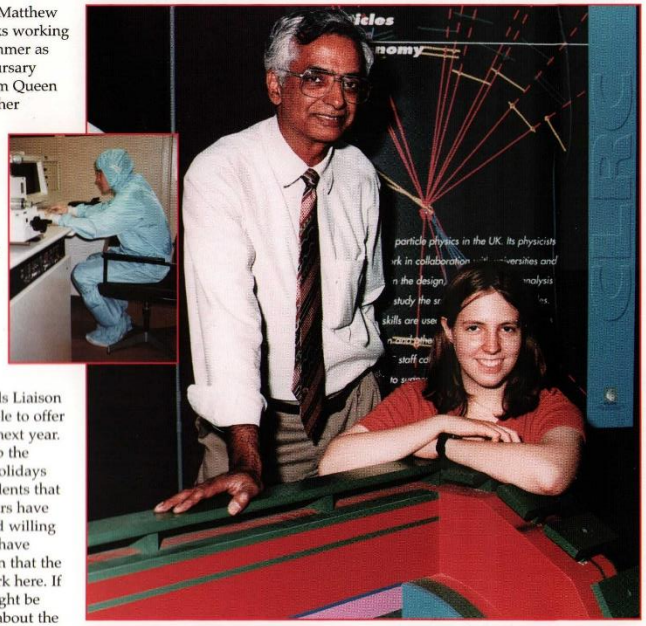
(00RC5185)

Nuffield Bursary scheme

Catherine Davison and Matthew Hagger spent six weeks working at RAL during the summer as part of the Nuffield Bursary scheme. Catherine, a pupil from Queen Anne's School, Reading spent her placement in Particle Physics with Norman McCubbin and Bill Murray, whilst Matthew, from Bloxham School, Oxford spent his time in the Central Microstruyucture facility with Ted Blatchford.

The scheme is coordinated by The Oxford Trust and they provide £65 a week as payment to the pupil. RAL provides a placement which lasts between 4-6 weeks which gives the student an insight into a career in science.

Janet Haylett, RAL's Schools Liaison Officer said, "We hope to be able to offer at least two placements again next year. The young people who take up the places give up their summer holidays for the experience and the students that have been to RAL over the years have been of a very high quality and willing to learn. Previous supervisors have commented on the contribution that the students have made to the work here. If anyone has a project which might be suitable, or would like to talk about the possibilities, please contact me".



Catherine pictured with Gian Gopel from Particle Physics Department (00RC4250)

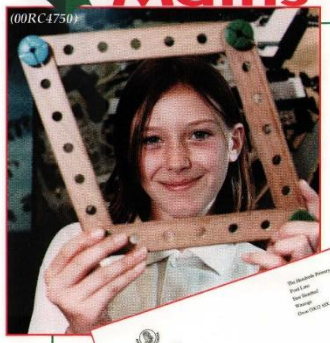
European Latsis Prize 2000

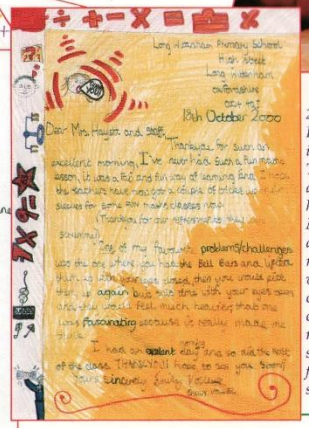
The European Science Foundation has awarded this year's European Latsis Prize to Professor Kenneth Charles Holmes, Director of the Max Planck Institut für Medizinische Forschung, for his outstanding contributions to structural biology, studies of great scientific and social significance for European progress. The prize, worth 100,000 Swiss Francs, is awarded by the ESF to an individual or group who, in the opinion of their peers, has made the greatest contribution to a particular field of European research. The chosen field of the 2000 prize was 'molecular structure'.

Throughout his career, Professor Holmes has been a major figure in structural biology. He was a pioneer in the development of both theoretical and experimental X-ray diffraction methods for elucidating the structures of biological macromolecules. His work in the 1960's on the development of stronger X-ray sources paved the way for the novel use of synchrotron radiation as an X-ray source for the studies of the structure of matter, particularly for biological structures. His work has been essential for revealing the atomic structures of the proteins actin and myosin in muscle. He is acknowledged as a leading authority on the mechanism by which the contractile protein components of muscle turn the chemical energy of ATP into work.

In the early 1970's Kenneth Holmes and his student Gerd Rosenbaum were the first to build an optical bench for X-ray diffraction at a synchrotron. Their demonstration of X-ray diffraction from insect muscle using synchrotron radiation at DESY, in Hamburg, in 1971 was a major breakthrough. The results paved the way for the establishment of the EMBL outstation at DESY where Holmes served as acting head during its founding years.

Maths is Magic ...





299 local school children visited RAL in October to participate in the 'Magic Maths Circus'. The 9-11 year-olds spent half a day having fun with a series of hands-on maths activities. Many of the children were dreading coming to the Lab for a maths lesson but all of them were amazed at what fun it could be. Some of the teachers commented that the pupils had really applied themselves and some were actually looking forward to their next lesson at school!

Warrington Chamber of Commerce members visit Daresbury Laboratory

Daresbury Laboratory is a member of both the Warrington and Halton Chambers of Commerce (CoC). The Warrington Chamber holds monthly 'business after hours' meetings where members can network and learn about the host member in more detail. Daresbury Laboratory recently hosted one of these events and a number of useful commercial contacts were made.

Thirty CoC members were given a presentation on the analytical service capabilities available commercially through DARTS followed by guided tours of the synchrotron. Several members expressed amazement at the range of work carried out at the lab and stayed well into the evening discussing potential opportunities for DARTS.

Chamber President Ian Oulton (centre) with Hywel Price and Business Development Manager Chris Pickles

Christmas

Why do we bother with Christmas?
I'd really like to know.
It really is a waste of time,
We never get any snow!

I hate writing all those cards,
It seems a waste of time.
I'll send you your card and,
You can send me mine!

Carol singers knocking on the door,
I'd wish they'd go away.
They'll only sing a single line but,
still they want their pay!

And buying Christmas prezzies,
It really is a chore.
A whole afternoon spent wrapping,
Whilst sitting on the floor!

Chocolates bring me out in spots
And my crackers never snap.
The whole thing makes me weary,
I'll have to take a nap!

Mince pies make me shudder,
So does Christmas cake.
I'm glad I don't like trifle,
The jelly makes me shake!

So I'm off now to hibernate,
Until the January sales.
Thoughts of spending more cash,
My depression never fails!

Clare Wadley

Retirements

Derek Cragg

(00RC4167)

After a career spanning 38 years Derek Cragg retired from full time employment at RAL in September. However, he is staying on for a while as a consultant to work on some new contracts that require his particular expertise.

At Derek's presentation, Elwyn Baynham recounted a career which started in 1962 when he joined the Nimrod Vacuum Group as an Experimental Officer. After three years he transferred to the then General Physics Group to specialise in commissioning a variety of cryogenic equipment. When the Group became part of Technology, his job changed from commissioning cryogenic equipment to cryogenic design. As was said at the time: "If it doesn't meet the specification you will have to moan at yourself and not some poor unfortunate in the Design Office". Equipment he has designed can be found all over RAL and at the CERN and DESY laboratories. As Elwyn said, "I ask you to take note, this guy has done it all – at least twice!"

Elwyn also recounted a story about Derek during the commissioning of the HI Solenoid in Hamburg. Derek had arrived early one morning to find all the vacuum gauges on the solenoid indicating a high pressure – very bad news! However, after some diagnostic work he discovered it was a vacuum gauge problem and in fact everything was well. After getting the gauges to read the correct pressure he heard Elwyn coming and promptly switched them all back again and gave him the bad news in an emotional sob story. Being somewhat dismayed Elwyn felt in need of a cup of coffee and went off to make one so Derek reset all the gauges one more time and in the ensuing discussion, Derek pointed to the gauges and said he couldn't see a problem as everything seemed to be okay. Elwyn's been trying to get his own back for over ten years!

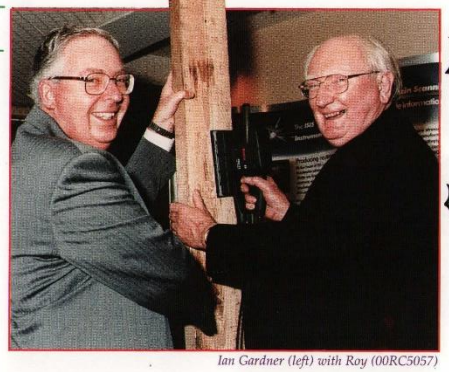
Derek said that he felt very privileged to have worked at RAL. His career had been very enjoyable and he liked being paid for something he enjoyed doing. He felt privileged to have worked with his colleagues over the years and with Elwyn in particular. Derek had once told Elwyn that at his age he now only worked for people who he respected both as a person and for their technical expertise. He was pleased to say Elwyn had passed the test on both counts!

Derek's wife, Pamela, accompanied him to the presentation and was presented with a bouquet of flowers as part of the celebration. Derek received a technological memento in the form of an ice pick mounted on a sample of super-conducting cable. The ice pick could be used to break the ice in any gin and tonics that might be consumed in the future. Derek was also presented with some money to further his collection of Jack Vettriano pictures. We are told that having located the one wanted he felt it only right to pay for it with the actual money collected, much to the amusement of the people in the shop. It worked out well - he had eight pence change!

Derek can be seen around the Laboratory from time to time desperately trying to fit working a couple of days a week into his schedule. He was heard to say that starting a new regime can be a bit daunting and working part-time means his wife (who is used to having the middle of the day to herself) hasn't had the chance to say "I may have married you for better or for worse but I didn't marry you for lunch!"

Retirements continued..

Roy Church



Ian Gardner (left) with Roy (00RC5057)

Prior to joining RAL, Roy spent three years with the Post Office followed by two years in the RAF working on wireless equipment. Having developed an interest in RF he went to work at Farnborough in the Guided Weapons Department. In 1961 Roy was successful in his application for post 'VN36' at the Lab (then known as NIRNS). He progressed rapidly and in the following year was promoted to work on Nimrod operations as a Duty Officer. Roy was one of the few people to hold this position both on Nimrod and ISIS.

Leaving operations behind, Roy worked with the synchrotron RF cavities, ferrite test rig and Nimrod 2nd harmonic project. He developed the Liquid Resistor (without which ISIS beam intensity was limited) and was instrumental in, amongst many others, the linac high power pulsed RF system development, De-Buncher RF driver amplifier, filament regulator and finally the RFQ project.

Ian Gardner presented Roy's wife, Mary, with a basket of flowers and Roy with a Liquid Resistor top, which will, no doubt, be displayed in a prominent position. He also received a card signed by all his friends and colleagues, a finishing sander and a cheque.

Jean Kent

Jean retired this month after 27 years at RAL (in its various guises). Her last day on site was Friday 1 December when a group of her colleagues gathered to watch her being presented with a number of gifts. Her gifts included a copy of The Royal Horticultural Society's (RHS) shorter dictionary (which at at least 4" thick, one wonders how big the larger dictionary might be!), membership to the RHS, a bottle of Amaretto and two liqueur glasses. The much-prized Ray Roberts card and a bouquet of flowers completed the ensemble. After her presentation, Jean hosted a buffet lunch which included a very palatable red wine - much appreciated by her many friends and colleagues, who polished it off with great gusto!

Jean's time at RAL covered a range of groups and departments and she spoke of her fond memories. She will miss her friends at RAL but will be kept busy by her three granddaughters, foreign travel, her work as a School Governor, helping the local Liberal Democrats Party, and supporting the Wantage Arts Festival.

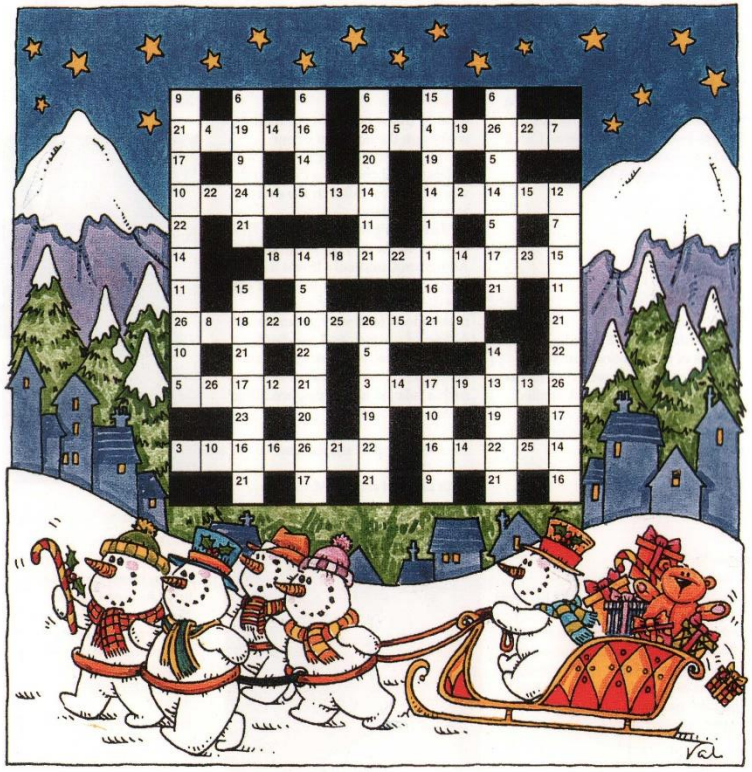
We wish her well in her retirement and hope that she will stay in touch and maybe visit us from time to time.

John Webber

Cross reference

The object is to discover which letter of the alphabet each number in the diagram represents. Repeat the three starter letters wherever their numbers occur; this should give you enough clues to start guessing at likely words. Answers next month.

A B C D E F G H I J K L M



N O P Q R S T U V W X Y Z

1	2	3	4	5	6	7	8	9	10	11	12	13
B			Q									
14	15	16	17	18	19	20	21	22	23	24	25	26
		L										

Letters TO THE EDITOR

Dear Natalie
I would like to thank all my friends and colleagues at Rutherford Appleton Laboratory for the gifts on my retirement and for the beautiful flowers presented to my wife. Can I also say goodbye to all those that I did not see before I left.

Thank you very much

Gerald Godfrey

Dear Natalie
Congratulations to 'Evicted', winners of the Rec-Soc quiz which was held recently. A record 11 teams took part in a close contest, fuelled by a buffet supper served at half time. Thanks to all who helped with arrangements.

Andy Napper

Dear Natalie
I wish to thank friends and colleagues from CCLRC, PPARC and the particle physics community, for their many letters, cards and floral tributes, following the tragic death of my husband, John, in a swimming accident off Jamaica on 20 October. The kind messages of sympathy are a great comfort at this difficult time.

Thank you,

Mary Elizabeth Shewry

Dear Natalie
Can you put a note in the next issue, thanking staff for supporting the Poppy Appeal this year - £41.70 was collected at DL.

Thanks

Carol Livesey

Dear Natalie
Could I thank everyone for their best wishes on the occasion of our marriage, The Cosener's House who did us proud and Mike Courthold who acted as a caller in the evening at our barn dance.

Ian and I got married on 7 October in the Roysse Room of the Abingdon Guildhall. It was a truly happy day for both of us. There was lots of laughter all day and a tremendous (and very genuine) feeling of warmth and goodwill from everyone who came. Several people said they had never been to such a relaxed and happy wedding, which was lovely.

We certainly had a great day!

Ruth Bamford and Ian McCrea

Dear Natalie
I would like to say thank you to my friends and colleagues who contributed so generously towards my leaving presents. The gifts were absolutely beautiful and very much appreciated. My only regret is that I was unable to see and thank everyone personally before I left.

With very best wishes,

Monica Brown

Dear Natalie
I noticed that Steve Pridding appears in two photographs in the July/August LabNews, with a 25-year gap between them! He is on page 4 playing baseball, and on page 10 looking at Alfie Neild's wedding presents. Is this a first, or can anyone cap this?

Margaret Purvis

Readership Survey

Once you have finished perusing your copy of LabNews we would like to know what you think of it. This is your chance to put your ideas and opinions in writing and help to improve LabNews. There's a prize for the winning entry, picked out at random.

How much of this issue of LabNews have you read?

All of it [ ] Most of it [ ] Half of it [ ]
A little [ ] None [ ]

Why?.....

.....

Please rate our regular features for how often you read them:
1 = every issue, 5 = rarely

	1 5
Retirements	[ ][ ][ ][ ][ ]
Notices	[ ][ ][ ][ ][ ]
Letters to the Editor	[ ][ ][ ][ ][ ]
Snippets	[ ][ ][ ][ ][ ]
Learning & Development	[ ][ ][ ][ ][ ]
CLRC in the news	[ ][ ][ ][ ][ ]

How useful/interesting do you rate the following:
1 = very useful, 5 = not at all useful

	1 5
Web addresses for further information	[ ][ ][ ][ ][ ]
Index on the front cover	[ ][ ][ ][ ][ ]

Do you think LabNews should include more or less of the following?
1 = more, 3 = less

	1 3		1 3
Sport	[ ][ ][ ]	Training courses	[ ][ ][ ]
Letters to the Editor	[ ][ ][ ]	CLRC in the news	[ ][ ][ ]
Snippets	[ ][ ][ ]	Notices	[ ][ ][ ]
Competitions/puzzles	[ ][ ][ ]	Schools information	[ ][ ][ ]
Retirements	[ ][ ][ ]	Events at each site	[ ][ ][ ]
Events off site	[ ][ ][ ]	Scientific developments	[ ][ ][ ]

Is there anything you would like to see included in the future?
Eg cartoons, crosswords, non CLRC news. Please specify

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