

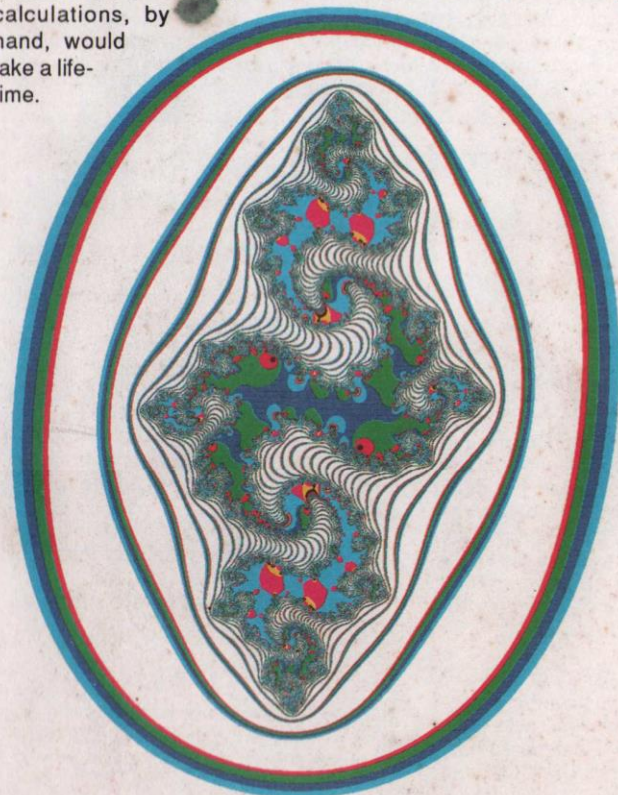


# News

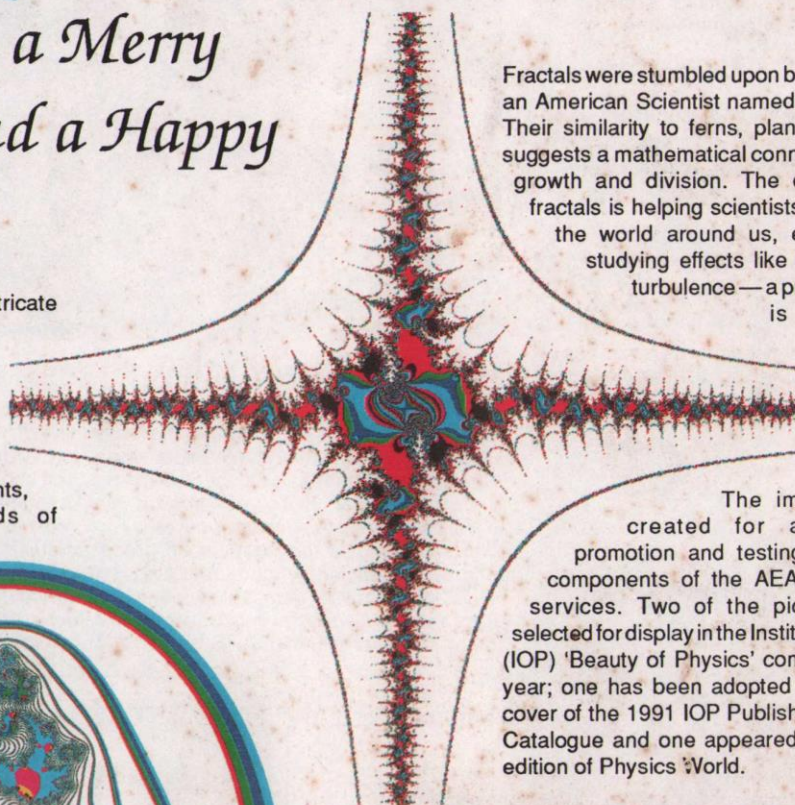
Journal of the Culham/Harwell Sites of the UKAEA

## *Wishing you a Merry Christmas and a Happy New Year*

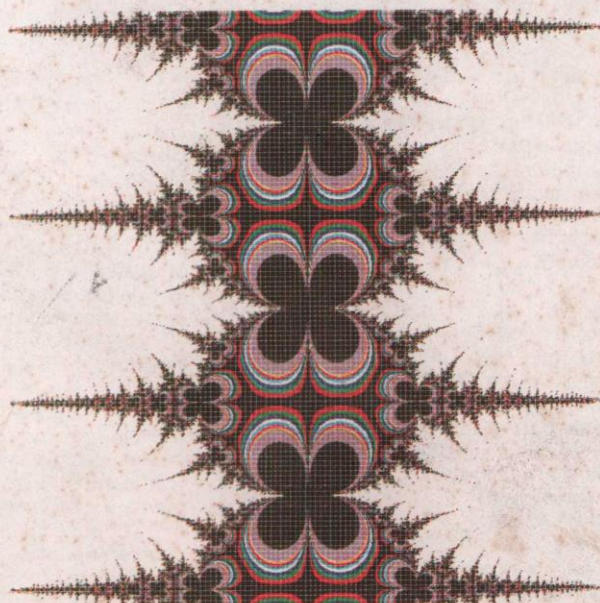
The pictures show the infinite and intricate beauty of mathematics. These fractals were created by Tim Field and a former student of Paisley College, Paul Smith, using the Culham GHOST graphics software package. The computer colour-codes thousands of tiny points, each the result of thousands of calculations: such calculations, by hand, would take a lifetime.



Fractals were stumbled upon by accident by an American Scientist named Mandelbrot. Their similarity to ferns, plants and trees suggests a mathematical connection in cell growth and division. The discovery of fractals is helping scientists understand the world around us, especially in studying effects like the onset of turbulence — a process which is neither orderly nor totally random — as far as we know!



The images were created for advertising, promotion and testing of various components of the AEA's computer services. Two of the pictures were selected for display in the Institute of Physics (IOP) 'Beauty of Physics' competition this year; one has been adopted for the front cover of the 1991 IOP Publishing Journals Catalogue and one appeared in the June edition of Physics World.







# CARS to Japan

## Accommodation Plans

The Process Technology and Instrumentation Division (PT & ID) of InTec is to move to Harwell's B.521, which has had a lot of empty space since the reactor closures. PT & ID currently occupies a number of smaller buildings (B.392, B.153/154, B.347 complex etc.) and this move will enable older buildings such as the B.347 complex to be demolished.

The new AEA Engineering Centre at Harwell will be in B.424; it will take over most of the building, except 424.4 which will continue to be occupied by AEA Decommissioning and Radwaste and AEA InTec.

When CHQ move to Harwell in Spring/Summer 1992, they will be housed in the B.329/77 complex. It is not clear yet how many staff will be displaced but accommodation will be found for them in the various buildings on site which will be vacant by then. Although these moves will require substantial refurbishment of some buildings, this is seen as the most cost-effective use of the accommodation available on the Harwell site: plans for the Ridgeway House site are still under consideration.

## Estates Development Manager

Steven Moss, previously Head of the Efficiency Unit (CHQ), has taken up the post of Estates Development Manager at Culham/Harwell.



He will report to the Director, leading an estates development project team comprising both internal members (including the accommodation and utilities managers) and external planning and architectural consultants. A major objective for the team will be to produce, next Spring, a draft Development Plan for Culham/Harwell.

As part of the building clearance programme at Harwell, Buildings 6 (the old control tower), 438 (ex Contracts) and 552T will be demolished before mid-December.

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From left: Dr Fiona Porter, T Nakada, Roy Williams, Dr John Norris and T Naka.

The Combustion Centre of AEA Environment and Energy was recently host to two visitors from the Central Engineering Laboratory of Nissan Motor Company, Yokosuka, Japan. Mr Nakada and Mr Naka spent two weeks with members of the Laser Spectroscopy and Fibre Optics Section, pictured above, learning some of the theoretical and experimental intricacies involved in using Coherent Anti-Stokes Raman Spectroscopy (CARS) to measure temperatures in a Ford car engine. Nissan view a detailed understanding of the combustion processes within the engine as being crucial to improving efficiency, understanding pre-ignition (knock), and reducing polluting emissions. Working alongside experts from Harwell, learning to obtain and analyse data from a production petrol engine, provided valuable hands on experience and information on how to improve the CARS facility at Nissan in Japan.

## Environmental expert retires

Ted Finnecy has retired after 35 years at Harwell.



Ted started his career at May and Baker in 1951, and after a short period at Capenhurst joined Harwell in 1955 as a Technical Assistant in Reactor Chemical Services. For many years, Ted held responsibility for analysis of Harwell's drinking water supply and effluent discharges. He joined the newly created Hazardous Wastes Group in 1972, which later developed into the Environmental Safety Centre (ESC).

Ted is a recognised expert both nationally and internationally on waste management policy and legislation, and for many years has been ESC's Deputy Manager. At Ted's retirement function, Chris Dent, Manager of ESC, described him as one of the key people responsible for establishing ESC's reputation in environmental research and consultancy. Ted was presented with a collection of classical music CD's and his wife, Barbara, received a bouquet of flowers.

## The Sellafield Story

Friday 23 November, BBC 2 8.00-8.30pm 'Public Eye:

### Nuclear Reprocessing - a rod for our own backs?

'Sellafield is one of the few growth areas in the nuclear world. A new reprocessing plant is being constructed to handle spent fuel rods carried there by rail and sea from domestic and foreign nuclear reactors. Public Eye examines the risks involved in reprocessing and asks whether long-term storage would be a cheaper and safer solution.'

If anyone would like to borrow this video recording please contact Sarah, Publicity & PR Department, B.329, ext. 2439.

## Secretaries/Typists

Harwell Training Centre intends running a 10-week term of shorthand classes commencing Thursday 17 January 1991.

There will be three separate one-hour sessions depending upon speed: 40-50 wpm refresher; 50-80 wpm; 80 wpm and above. Anyone interested should contact Bev Kay at the at the Training Centre, Building 455, Harwell Ext. 2423.



## BNFL Chair for Dr Freeman



**Dr Harry Freeman DSc has been appointed to the BNFL Chair at Salford University.**

Harry, former Head of the Department of Energy's Marine Technology

Support Unit (MaTSU) left Harwell in 1986 on secondment to the British Embassy's foreign and commonwealth Office in Paris. He spent four years there as the Counsellor for Science & Technology.

Harry began his career at Harwell in 1953 working on the radiochemistry of polonium. He subsequently became involved in a wide range of scientific and engineering programmes including some of the initial studies on the use of ion implantation for the fabrication of semiconductor devices.

## SITES & TRS help children this Christmas

This year, for the first time, the Culham/Harwell SITES organisation, which supports the AEA Technology businesses, and AEA Thermal Reactor Services (TRS), which has staff at Harwell, Winfrith, Risley and Culcheth and Windscale, have chosen charity Christmas cards in support of 'Save the Children.'

## Poppy Appeal 1990

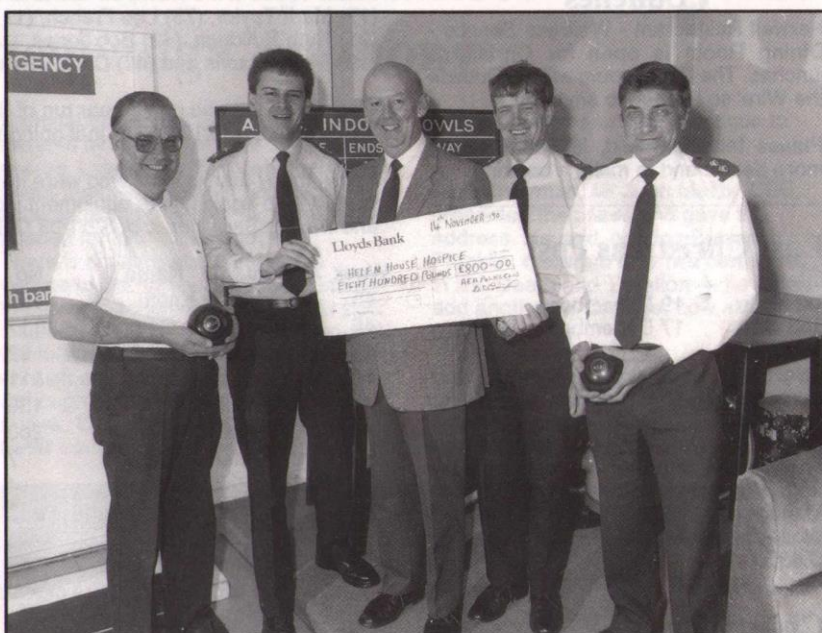
The grand total donated by Culham, Harwell, MRC, NRPB and Rutherford Laboratory staff this year was £978.55. Grateful thanks to all contributors and collectors.

## Romania Children in Need Appeal

The Harwell Training Centre is helping the Newbury Aid to Romania Charity to raise funds for a consignment of medicines and medical equipment leaving by road in Spring 1991 for a village hospital near the Hungarian border.

If anyone would like to contribute to this very worthy cause could they please get in touch with Rita Gill, Harwell Training Centre, B455, ext. 2180, preferably before the end of February 1991.

## Helen House bowled over by Police generosity



*As a result of a 24 hour Sponsored Bowls Marathon by four Harwell Police Officers, and the sale of Charity Tie Pins a cheque for £800 was presented to the Helen House Hospice at the Harwell Police Club. Presenting the cheque to Mr Mike Garside of Helen House are the bowls players, (l to r) retired PC Mr Jimmy Button, PC Adey Harrison, Sgt Geoff Walker and Insp Dave Cornick.*

## Obsolete Equipment Wanted

2000 series electronic plug-in units required particularly:-  
Power Unit Type 2016A  
Delay Unit 1735A  
Delay Unit 1755A  
Trigger Unit 1736B  
Voltage Sensing Unit 1737A

Any condition accepted  
Contact: Dick Butler, Culham Lightning Test and Technology  
ext. 3246, Fax 0235-464325

## Hairdressing Service

Would all customers please note that the Culham hairdressing service will not be in operation on the following dates over the Christmas New Year period.  
Wednesday 19 Dec. 1990  
" 26 Dec. 1990  
" 2 Jan. 1991  
Normal service will resume on Wednesday 9 January 1991.

## Which radiation monitor?

Tests have been carried out on the most commonly used hand-held radiation monitors in the UK. The National Radiological Protection Board (NRPB)'s report on the evaluation can be used as a guide to the most suitable instrument for a user's particular needs.

Further information from NRPB Information Services.

## Call Diversions available

Following on from the article in the previous issue of CH News the System Managers to contact if you want your internal or external calls (or both) automatically diverted by the exchange to an alternative number are:-  
Culham: Mike Lawrence ext. 3288  
Harwell: Terry Richards ext. 2317.



**Dear Ed.**

*After reading your excellent article on the Iron Wolf Society, it occurs to me that we should send our correspondents to gain first-hand experience for future editions of CH News. Could I suggest*  
— Bungy Diving  
— Free Fall Parachuting  
— Drag Racing  
*Perhaps other readers could make suggestions.*  
Chris Carpenter  
Culham Press Office

## That's entertainment

Nuclear Electric plc displayed on the wall of its stand a model of a control panel to show visitors how safe its stations were. Regrettably, it fell off, hitting a man who was sitting underneath it.  
*Glasgow Herald*



## Reminder - Christmas Lunches

Harwell Restaurant - Waitress Service - Dining Room is open for Christmas lunches. The Dining room will be 'Outside the Wire' so is open to anybody.

Please telephone ext. H5525/5546 for more details and to make a booking.

## Last Christmas Post

### Inland

1st class 19 December  
2nd class 17 December

### Overseas

Europe 15 December

Rest of the world posting dates available on request. For further information please ring: Mrs Helen Pattle, Postal Services Manager, ext. H.3050/2747 or Mrs Pam White, Estates Management, Culham, ext. C.4370.

## Chiropody clinic - Harwell

A Chiropody clinic is run in the dental surgery, Building 166A (opposite Lloyds Bank) on the 1st and 3rd Mondays of each month. This is a service operated from Cholsey Chiropody Surgery by qualified surgical Chiropodists and offers all aspects of footcare. For an appointment either at the clinic, or in the surgery, please telephone 0491 (24hr answerphone service).

## Personnel Notes

Since July, the Personnel Department has been issuing an occasional series of operational notes for managers on day-to-day personnel issues. These notes replace a range of other circulars such as DAO's Notices, Supervisors News sheets, Travel and Subsistence Bulletins etc. Some are only of short-term interest, but managers may wish to retain others as a reference source.

Topics covered in issues 1-3 include

- A list of contact points in Personnel Department
- New subsistence rates
- Changes in substitution pay arrangements for industrial employees
- New security clearance procedures
- Guidelines on new Smoking Policy

Up till now supplies of Personnel Notes have been circulated to Businesses and Sites Divisions for distribution as appropriate. However it now seems likely that a named distribution list would be more effective. The Notes are intended for anyone with significant staff management responsibilities. If you would like to receive future issues please send your name and address to Vivien Brookes, Personnel Department, B.329, Harwell. (Copies of issue 1-3 can be obtained from senior Business/Sites Managers or Admin Officers).

## Culham 200 Club Bonanza Payout

Prizes of £50 were drawn on 16 November for each of the following members:- (17) Mark Taylor, (73) Lee French, (117) Sharon Campbell, (120) William Gordon, (91) Ruth Bullough, (42) Bob Jones, (167) Michael Vickers, (165) Clive Davis, (194) Anne Jarvis and (47) Chris Chessum.

This marks the end of a 3 year run of the 200 Club in which £31,200 changed hands with over £10,000 of that going to local charities.

Many, many thanks to all who were involved in any way, and if anyone would like to start it up again all the equipment including the membership cards are ready and waiting. Sally Hancock K2/1/08 Culham ext.3734.

Week	Amount	Name	No	Charity	Donation
45	£75	Terry Knott	130	Sutton Courtenay Playgroup	£65
46	£75	Sharon Campbell	117	Sponsor a Cot. Guy's Hospital	£65
47	£75	Myrtle MacCormick	92	Cystic Fibrosis Research Trust	£65
48 (1)	£200	Rachel Pedge	111	Romanian Orphanage Appeal	£65
" (2)	£75	Phil Baker	136		
49	£75	David Holland	200	British Heart Foundation	£65
50	£75	Manjet Bains	7	Alzheimers Society	£65
51	£75	Phil Hopwood	4		£65
52 (1)	£200	Val Buckingham	2	St Nicholas House, Littlemore Oxford	£70
(2)	£75	Michael Vickers	157		

Amounts in excess of £65 are monies donated for AFC to distribute.

## First Aid at work

A Health and Safety Executive (HSE) approved course in First Aid is to be held at Harwell. This is a four day full time course commencing on Monday 11 February 1991. Successful students will be awarded a First Aid Certificate approved by the HSE and valid for three years. The certificate authorises holders to be appointed 'suitable persons' as defined in the terms of the Health and Safety (First Aid) Regulations 1981. Further details from David Bradley, Senior Nursing Advisor, Occupational Health Services, H.ext. 4400.

## Computer Repair and Maintenance

**Do not despair** if your computer refuses to talk to you. Harwell's Site Servicing Department (B.345) can quickly and easily offer you a very reasonably priced maintenance contract or a speedy repair service.

Using the expertise of **on site** engineers from Milequip Computer Systems, Micro Systems Maintenance Ltd., and Digital Equipment Company Ltd., your problems will quickly be solved. Rosemary is very helpful — talk to her on ext. 3280.

## Harwell Charity Ball

**Friday 1 February 1991**

*In aid of Didcot Physio Unit and Platts House Special Needs Unit at Harwell Restaurant - 7.30pm until 1.00am, Hot Buffet, Jazz Band, Disco, tickets £10 each, formal dress only please.*

*Tickets from:*

Linda Dudley (B.353) Ab. [redacted]  
ext.5421, Carole Horton (B.364)  
ext.4077, Linda Thomas (B.364)  
Ab. [redacted]

## ☆ Lab Laugh ☆

Six phases of a project:

Enthusiasm  
Disillusionment  
Panic  
Search for the guilty  
Punishment of the innocent  
Praise and honour for the non-participants

## Klaxon Testing

The Harwell Site Emergency Klaxons will be sounded for a Recognition Test at 1000 hours on Tuesday 8 January 1991. The sequence of the test is described in HSSI-8. Any faulty klaxons should be reported on the appropriate form (H.1458 - rev 4/87), which can be obtained from all Business Administration Offices or from the Site Emergency Administration Office, B.364.6.

## May we have your foreign coins?

Didcot Hospital Physio Appeal would be glad to have any loose change you may have had left over from your foreign holiday. There will be a collecting point in the Harwell Restaurant Foyer. Further information from Clare H.2138/3620.

## Exhibition

**16 January:** Corporate Software & ALR Computers will be staging an exhibition of state-of-the-art PC hardware and software in the Harwell restaurant coffee lounge from 11 o'clock. Items shown will include some of the world's fastest PC's incorporating 33Mhz i486 processors with MCA or EISA bus technology. Also on show will be hi-res graphics boards, Microsoft Windows software and SCO Unix.



# Apprentices and Laboratory Trainees' first joint Prizegiving Ceremony

**"In a changing environment possession of personal skills is increasingly important", said AEA Chairman, Mr John Maltby, CBE, at the first joint Laboratory Trainee and Apprentice Prizegiving held at Harwell on Wednesday 28 November.**

Both training schemes are now managed by the Skills Training Centre, B.501 and since 1948, to date, over 1323 Apprentices and over 266 Laboratory Trainees have successfully completed their courses.

Changes are being made to both schemes and the Apprentice training is now aimed at meeting Engineering Industry Training Board requirements with trainees achieving the recognised

National Vocational Qualification (NVC) Level III by the end of their three year course. Laboratory Trainees now qualify under the newly named 'Technician' scheme giving them the high skill levels needed for laboratory work.

There is concern about the steep decline in the numbers of applicants to the training schemes because this year insufficient trainees were recruited and the future of the scheme depends on enough applicants coming forward. Although both schemes are under review, Culham/Harwell Director, Dr Peter Iredale, said "I am sure that

training of some kind will continue to feature strongly in our activities".

AEA Chairman, Mr John Maltby CBE, presented the prizes and gave the address. He said, quoting Benjamin Franklin, there are only two certainties in life: Death and Taxation — he would add another — Change; now also a certainty of life.

With the AEA going through a period of major changes, moving into different types of work he believes the prospects are exciting but "success depends on

having the necessary skills at all levels" he said.

He said he is "deeply impressed" at the calibre of staff throughout the organisation and by management's dedication to quality and, despite change, he is sure that our high standards will remain unchanged.

For details of prizewinners and pictures turn to page 8.



*From left: Apprentice (2nd Year Mechanical) Matthew Talmage, explains the function of a CNC milling machine during a tour of the Skills Training Centre, B.501, prior to the Prizegiving, watched by Dr Peter Iredale, Culham/Harwell Director; Rollie Wise, Acting Manager, Skills Training Centre; John Maltby, AEA Chairman; John Evans, Head of Harwell Training Centre; Lady Sylvia Maltby and Mrs Judith Iredale.*



## Out & About

### Ginge Brook Pottery

**23 December:** 17th Arts & Craft Exhibition, Fri, Sat, Sun, 11 am - 6 pm, Mill Lane, East Hendred, tel. Abingdon

### Vale and Downland Museum Centre - Wantage Open Art Exhibition

**Now till 13 January:** Tuesday - Saturday 10.30 am - 4.30 pm, Sunday 2.30 pm - 5.00 pm. This year's exhibition will be bigger than in previous years as both the Main Gallery on the ground floor and the Upper Gallery will be used.

### Bring and Buy Sale

**15 December:** In aid of the Blue Peter, Children of Romania Appeal. Harwell Village Hall. Saturday - 11 am to 3 pm, tel. Hilary, Harwell

### Royal Naval Association Social

**14 December:** The Didcot Branch of the 'Royal Naval Association' will be holding their 'Christmas Social' on Friday. To be held at the 'Northbourne Centre' Didcot, entertainment 'The Giffords' also, Buffet and Bar. For further details please tel. Didcot

### Santa Steams to Didcot

**2 to 23 December:** Every Sunday Santa Claus will be in his grotto aboard the Great Western steam train and all the children are invited to visit him to receive a present. Tickets £4 for adults and children alike; OAP £2; (includes presents for the children, mincepies and drink for all visitors). Applications for tickets should be sent to: Great Western Society, Didcot Railway Centre, Didcot, Oxfordshire, OX11 7NJ.

After Christmas there will be New Year Steamings including 'King Edward 1', GWR King Class, on **Sunday 30, Monday 31 December and Tuesday 1 January.**

### Harwell Village Gardeners' Club:

**14 January:** 'Talks by Club Members' at 7.30 pm in the Village Hall. There will be no competition.

### Concert: St Giles Orchestra

**19 January:** The St. Giles Orchestra winter concert, St Andrew's Church, Linton Road, Oxford, at 7.30 pm. Dvorak's Overture 'In nature's realm'; Wagner's Wessendonck, (soprano, Anne Andrew); Brahms 1st Symphony. Conductor: Geoffrey Bushell. Tickets £3.00, conc. £2.50 on door or from Charles Dickerson, H.4893.

### New Year's Eve buffet dinner dance:

Wantage & Grove Lions Club, Old Mill Hall, Grove from 8 pm. Dancing to Night Bird and Starlite Roadshow. Licensed bar. Tickets £14.50 selling fast, from Richard Faint H.4175 or Wantage or Authur Steed, C.4437, or Wantage



# 'Best Ever' pledge of over £4,000 for Children in Need

## Staff arrived late for work on Friday 23 November telling unbelievable tales of being held up by masked men!

Evidently Robin Hood was about (see page six) and many other fancy disguises were seen throughout the day — all in a good cause though — raising money for Children in Need. In fact, the highest ever sum of £4000 has been pledged by staff at Culham/Harwell.

News sent in of some of the amounts making up the terrific total were:  
AEA Decommissioning and Radwaste, Pudsey picnic — £340  
Harwell Restaurant and bun waggon collecting boxes — £257  
Training Centre cake sales at coffee/tea breaks — £77

Purchasing & Supply (5C) raffle — £105 plus £15 collected by the Department's General Office.

May Macfadden and Carol Goddard of Check Clean, Cleaners on JET site, who dressed up as Dolly Parton and her sidekick, went round the Lab singing with a guitar which they raffled and raised over £340.

### Shave-In

Much of the money was raised at Harwell's annual Pudsey Lunch where brave volunteers for the sponsored beard/head shave drew the crowds. Over £315 was raised in sponsorship with Guy and Tracy, of Guy's Hairdressers, Harwell, performing the deadly deeds. Guy said "There was a lot of enthusiasm for the shave-in — I just hope that the friends and relatives of the volunteers still recognise them!"

Raffle prize winners at the Pudsey Lunch were as follows:

1st Prize **Radio/Cassette** donated by G Cox for Panasonic  
2nd Prize **Luggage** donated by Mrs B Hartley  
3rd Prize **Pudsey Cake** donated by Mrs L Thompson  
4th Prize **Basket of Fruit** donated by Savage (Greengrocer)  
5th Prize **Carved Bowl** donated by F A Wedgwood

Mr Myles, B.344  
C G Windsor, B.521.2  
Mrs P Hetherington, B.149  
A Hyde, Transport  
R Guppy, B.429

### Giant Teddy Draw

Giant Teddy donated by C G Tasker's children

### Rat Down the Hole

Bottle of Sherry donated by A M Stoneham

### Manipulator (dexterity game)

Bottle of Wine donated by A M Stoneham

### Crack the (briefcase) Combination

Bottle of Whisky donated by M J Crook and C G Tasker

### Basket of Fruit Draw

Basket of Fruit donated by Contract Clean (Southern)

F A Wedgwood, B.521.1

L Bunce, B.436

P Copeland, B.45

A Joinson, B.451P5

Mrs P Cox, B.329

At Culham the raffle prizewinners were:

Guitar

A Hancock, J9

Whisky

Roman Polinski, J4

Vodka

A Clay, J D0.



Eeek! — we thought beards came off with a razor not a carving knife — evidently so did victim Chris Tasker judging from the look on his face as Guy Simmons gives him a 'Crocodile Dundee style' shave.



From left: Wendy Adams, Jackie Ward and Gill Butler tot up the takings at the Pudsey Lunch.



Dr Alan Wedgwood gives his raffle prize Big Ted a hug.



Culham receptionists Sue Bray and Stephanie Shaw dressed in their 'Punk Rocker' outfits, collected nearly £700 for the appeal.



Andy Pixton gets the brush off from hairdresser Tracy



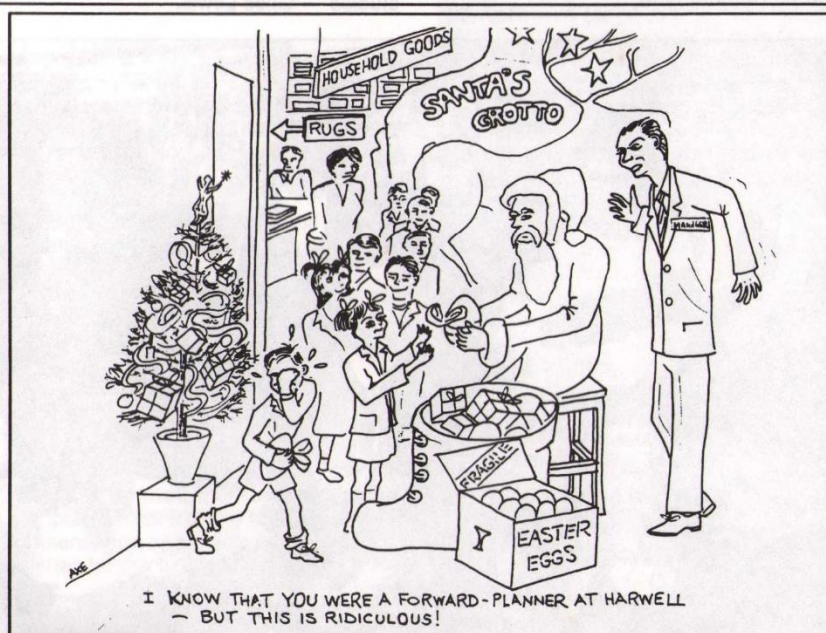
St Trinians have escaped again!

From left: Katy Burfitt, Tracy Harwood and Marion Sharp at AEA D & R's Pudsey Bear's Picnic.



## Events in brief — 1990

- Jan** MBE for Harwell's Raymond Sherwood.  
AEA Chairman, John Collier, made Chairman designate of Nuclear Electric.  
Radiological incidents for 1989, lowest for 10 years.  
David Trippier RD MP, PUSS Dept. Environment visited Harwell.
- Feb** Official nine Business Names for AEA TEchnology agreed.
- Mar** DIDO and PLUTO reactors closed.  
AEA Chairman, John Collier elected Fellow of the Royal Society.
- April** C H News launched.
- May** AEA InTec carry out tests on 'Big Ben's striking mechanism.  
Mr John Maltby CBE, appointed Chairman of AEA with effect from 1 July.  
Dr Brian Eyre appointed AEA Chief Executive  
Dr Stuart Nelson appointed Managing Director, Businesses  
Leadership Award from US Fusion Power to JET Director, Paul-Henri Rebut  
Harwell Trainees take part in Newbury's Crafty Raft Race
- June** Last neutron radiograph taken. Total income since 1980, £2M  
CHQ to move to Harwell in 1992  
Chief Constable, AEA Constabulary, Hugh McMorris, receives The Queen's  
Police Medal for Distinguished Service  
D-Day memorial service held at Harwell
- July** OBE for Dr Ken Currie, AEA Corporate Marketing Director  
Harwell Apprentices win annual Pedal Car Race
- Aug** AEA's new day nursery, Aldfields, opened
- Sept** GLEEP reactor closed  
Annual Horticultural Show held in Harwell Restaurant Functions Room  
NRPB 20 years old
- Oct** Tony Baldry MP, PUSS visited AEA Energy & Environment  
Chief Inspector Alan Bennett new AEAC Sub-Divisional Commander, Harwell  
New Centre for AEA Engineering to be set up at Harwell
- Nov** New International Nuclear Event Scales to be used by AEA from 1 Nov.  
New Intermediate Level nuclear Waste Stores (ILW) at Harwell opened by  
Dr Low, Managing Director, Site Operations
- Dec** Event round-up for 1990:  
Nearly 40 pupils from local schools attended Culham/Harwell on work  
experience fortnights.  
Over £6000 was awarded under the Culham/Harwell Suggestions Scheme  
— of 120 suggestions made, 46 received awards, the highest over £2000.



**STOP PRESS:** Harwell Cash Office will be closed all day 19 December 1990



# Apprentice and Lab Trainee Prize- winners 1990



*From left: Paul Scott, Stephen Angood, Giles Lewis and Duncan Fitchett*

## **Apprentices:**

**1st Year Mechanical** Ian Rathband (RAL)

**2nd Year Electrical** Mark Arnold

**2nd Year Mechanical** Duncan Fitchett  
(Esso)

**3rd Year Electrical** Paul Arnold

**3rd Year Mechanical** Matthew Kearsley

**4th Year Electrical** Paul Scott

**4th Year Mechanical** Peter Brown

## **Laboratory Trainees:**

**1st Year** Paula Crook

**2nd Year First Prize** Darren Bungay  
**Second Prize** Darren Bream

## **Special Prizes:**

**Best Overall Laboratory Trainee**

Steven McCrorie

**Best Laboratory Trainee Progress**

Paul Jones

(A contribution to both the above awards is made by the TGWU and the GMBU).

**The AEU Craft Prize** presented to the final year apprentice showing outstanding craft ability — Jason Tarrant.

**The Trevor Meadley Cup** awarded to the best second year electronics apprentice — Derek Hummerston.



*From Left: Ian Rathband, Philip Miles, Darcey Murkett and Paula Crook*

**The John Dolphin Cup** awarded to an apprentice for application, attendance and personal tidiness — Darcey Murkett.

**The Director's Cup** awarded to an apprentice for outstanding application and achievement in his technical studies — Giles Lewis.

**The Harold Tongue Cup** awarded to the final year apprentice who is deemed to have made the most of their apprenticeship and has acquired a high degree of competence in, and a sound understanding of the techniques and practice of their craft — Stephen Angood.



*From left: Darren Bungay, Steven McCrorie, Darren Bream, Jason Tarrant, Paul Jones, Matthew Kearsley, Paul Arnold, Derek Hummerston, Mark Arnold and Peter Brown*



## The Mysterious Disappearance of Mr Winchlever



People walking to the shops/social club via the North Gate during mid-November, may have been puzzled by the plethora of music and noises coming from B.354W.

They could not be blamed for thinking that the Education Service was having a series of pre-Xmas parties! - or even that Ian Blair was planning a lively Election Campaign for the Liberal Democrats! It was in fact the Kinetic Theatre practising for their next production entitled 'The Mysterious Disappearance of Mr Winchlever' - a musical comedy on mechanics and forces.

The Kinetic Theatre is a science-based theatre-in-education company which was formed with the intention of offering a new approach to teaching some areas of the physical sciences. The company presents material in the form of short plays, songs and sketches, and it's both entertaining and informative. Since its formation in 1988, it performs regularly to around 20,000 children per term at schools. The company consists of two professional actors - Graham Scott and Michael Whitmore, who also write the scripts.

In the last school year (1989/90) the company produced a show entitled 'No Smoke Without Fire', and the show addressed the problem of what happens when fossil fuels run out. The UKAEA Education Service provided some funding for the company to tour primary and secondary schools with this show in the Harwell area. The new show will also be available to schools in the Harwell area, at a price subsidised by the UKAEA Education Service.

The reason the rehearsals are taking place in B.354W is that the company did not have a suitable place to do the final practices. The leaflet distribution room is providing an ideal rehearsal hall.

The company have kindly offered to launch their latest production (lasts 1 hr) at Cockcroft Hall on Monday 17 December at 12.30pm for all UKAEA staff and their families.

For free tickets ring Alison or Elaine H.3725.

### Acknowledgements

#### Children in Need

The girls in Building 521 and friends would like to say a big "thank you" to everyone who helped to make our Children in Need 'Pudsey Lunch' such a success. They pledged £2,600 to Radio Oxford on the afternoon of 23 Nov.

Michelle Bennett thanks all those kind people who contributed to her leaving presents and appreciates their good wishes for the future.

Theresa Scrase would like to thank everyone for her presents and good wishes, I will miss you all, it has been a pleasure.

## Diary

January 1991

15

14.00hrs

AEA InTec

Atomistic computer simulation of electrochemical dissolution and passivation of metallic alloys

Dr R Newman of the Corrosion and Protection Centre, UMIST

Venue: Conference Room, B.424, Harwell

15

19.30hrs

The Institution of Electrical Engineers  
Prospects for Renewable Energy Technologies

J Cavanagh, Energy Technology Support Unit, Harwell

Venue: Southern Electric, Chalvey, Slough

16 - 18

The Institute of Mathematics and its applications, U.K. and the SMAI, France  
Wavelets, Fractals and Fourier transforms: New developments and new applications — Conference

Venue: Newnham College, Cambridge

Further details from: J Hunt & J Vassilicos, DAMTP, University of Cambridge, Silver Street, Cambridge, CB3 9EW.

23

Society of Chemical Industry  
Chemicals, labelling and the environment — symposium

Venue: 14/15 Belgrave Square, London SW1X 8PS

For further details contact the Conference Secretariat at the above address, Tel: 071-235-3681

### Advance Notice:

29 April — 3 May 1991

BNES/European Nuclear Society/  
Society for Radiological Protection and  
Société Française de Radioprotection  
Occupational radiation protection — Conference

Venue: Beau Sejour Centre, Guernsey

Further details from G A M Webb, NRPB, Chilton, Oxon

May 1991

Institution of Nuclear Engineers  
Second International Conference on  
Transportation for the Nuclear Industry

Venue: Bournemouth

Further details from: Conference Secretary, The Institution of Nuclear Engineers, Allan House, 1 Penerley Road, London SE6 2LQ. Tel: 081-698 1500

20 - 24 May 1991

ISATA (co-sponsored by AEA Technology)

New and alternative materials for the automotive industries — International Conference and Exhibition

Venue: Florence, Italy  
For further details Tel: 081-686-1329



## Safety Facts

### Radiological Incidents

19 November - 3 December

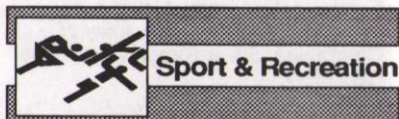
There was one radiological incident that was designated at Category 2n during this period.

In the main radio-chemistry building, maintenance operations were being carried out on a vacuum system by personnel dressed in protective clothing. Air contamination monitors warned of higher than normal concentrations causing an evacuation of the area by other workers who were adjacent to the room. Measurements revealed that no individual was contaminated and no intakes occurred. This event would be graded as Below Scale on the International Nuclear Event Scale of reporting incidents.

### Burns Accident

Two Harwell employees suffered thermal burns following an accidental release of steam while working on a steam valve in an outside inspection pit.

There was no radioactivity involved in the accident and an internal inquiry has been set up.



### Cul./JET Fellowship

**13 December:** A look at the significance of 'The Birth of Jesus', led by Lesley Allen - on Thursday at 12.30pm in E6/G18 - everyone welcome. For more information contact Susan Wells, C.3702, or John Clifford, C.3214.

**20 December:** A shared Celebration - come along and bring your contribution; a reading or a song, etc.

### Social Club Xmas Lunches

Christmas lunches will be available at the Social Club until Wednesday 19 December, waitress served from 12:00 - 13:45. Table reservations in advance, either on Abingdon 834228 or Harwell extension 3296.

#### Menu

*Homemade Vegetable Soup  
with Vienna Roll or  
Golden Breaded Mushrooms with  
Garlic Mayonnaise & Salad*

*Roast Turkey & Seasoning with  
Chipolata Sausage, Bacon Roll  
Roast Potatoes & Seasonal Vegetables*

*Christmas Pudding & Rum Sauce or  
Double Chocolate Fudge Gateau*  
Price only £4.95p inclusive of VAT.

Some dates are still available for lunchtime or evening Christmas functions: our comprehensive range of buffets and basket meals can be tailored to suit all occasions. For further details, contact Mark Walmsley at the social club or on either of the above telephone numbers.

## Do you recognise any of these people?



*If you were held to ransom on the morning of Friday 23 November as you came into work at Harwell, it may well have been by one of the strangely clothed figures pictured above. Now all is revealed! Robin Hood and his merry men (and women) collected £735 for Children in Need. Pictured at the Pudsey Lunch where they ran sideshows are:- Back row (l to r) Fiona Ravenscroft, Sue Pritchard, Steve Bramley, David MacKeith, Barry Hewlett and Chris Tasker. Front row, from left: Tim Dixon, Chris Hobbs and Martin Hillier.*

### Harwell Fishing Club

**16 December:** The Christmas 'Fur and Feather' match will take place from 09.00-14.00. Draw will be at 08.15. Tickets are available from Martin Mace B.429 Ext. 5408.

### Jewellery Sale

**Fri 14 Dec:** Looking for last-minute Xmas presents? Come along to a sale of jewellery by "Off the Wall" Designs, all made by a local craftswoman. Social Club Main Hall, 12 noon - 2pm. Low promotional prices - orders can still be taken for pre-Xmas delivery. Members only.

### Xmas Raffle

A raffle is being run in the Social Club, to be drawn on **Wed 19 Dec** at 1pm (Lounge Bar). 20p a square (names on a board) available in the Social Club bars and Rec. Assoc. Office.  
**1st Prize - portable colour T.V.**  
**2nd Prize £50**  
plus a number of smaller prizes including wine, spirits etc.  
**COME ALONG AND SUPPORT THE CLUB**

### Horticultural Society

The Harwell Laboratories Horticultural Society will be holding its **AGM on Monday 14 January 1991** at 12.30pm in the Upstairs Function Room of the Social Club. All welcome - members and non-members. If you want to see a show next year please come and say!

### Social Club Opening - Xmas/New Year

The Social Club will open every day over the holiday period except Xmas Day, timings as follows:  
Mon - Sat 12 noon-2pm and 7.15-11pm.  
Sun 12 noon-2pm and 7.15-10.30pm. A bar extension for New Year's Eve has been applied for until 1am. Throughout the holiday period, with the exception of Xmas Eve and New Year's Eve, limited bar catering will be available.

### Pantomime

The Rec. Assoc. will present the pantomime, "Hansel and Gretel" at 3pm on **Sun 6 January** in the Main Hall of the Harwell Social Club. Tickets £1.50 (4 for £5) from Social Club Bars, Nero Knowles R.6680 or Bill Quirk, H.3428.





## Spare Time?

# How to shoot a deer without disturbing it . . .

*If you don't mind standing quietly still, on your own, for hours on end in the cool fresh air of the early morning or early evening, have the patience of Job, and can keep calm under pressure, you too could be a deer stalker!*

Ron Perkins of AEA InTec at Harwell, as Chairman of the Photographic Committee of the British Deer Society, spends much of his spare time indulging in the painstaking art of photographing wild animals — particularly deer.

The Society is concerned not only with deer preservation but also with killing them, however, before you get alarmed, it is only to ensure their management — herds unchecked can increase by as much as 30% per year. Members of the Society are dedicated to ensuring the welfare of deer; one marksman — who after shooting an injured deer, discovered that its injuries were from a road traffic accident and must have been causing the animal terrible pain for weeks — broke down and cried.

Ron's photographs of deer have been used by the Society in their publicity campaigns in areas of concern such as dog control, dumping of rubbish, building bridges over motorways to protect the deers' habitual paths, and to promote the use of humane methods of deer control.



Ron awaits his quarry

*'Deer country' tends to be either moorland and forest, home of the Red deer, or beech woods or conifer plantations beloved by the Fallow, Roe and Muntjac deer common to this area,*

*During 15 years of getting to know the habits of deer, Ron understands well just how highly sensitive these animals are in their hearing, sense of smell, and fear of humankind.*

Since the mid seventeen hundred's when wolves became extinct, the main enemy of deer has been man. It follows then, that capturing a deer on camera is no easy feat! Firstly, it is difficult to get the animal 'in range'; deer remain in deep cover during daylight hours, only emerging around dawn and dusk. Ron uses a telephoto lens but this tends to accentuate camera shake and doesn't give optimum performance in poor light. As far as camouflaging himself, Ron says he wears "Quiet" clothing and footwear and tries to stand against a foliage background, downwind of where the deer are likely to appear. The ground must be examined before every footfall — one crackle from a twig will send the magnificent stag you've just spotted leaping away into the cover of darkness. Then, when you've actually got your quarry standing in front of you looking straight at your camera, there's usually only one chance to press the shutter.

Ron says his work in the Surface Science & Technology Department of InTec has helped him in being capable of handling technical equipment under pressure. Some such critical moments in his woodland photographic hobby have been spoilt when his subject has been frightened off by the passing of a hot air balloon and, on another occasion, a police helicopter (they're never around when you need them)!

One particularly strange encounter Ron recalls was when he rounded a track in the



*Anybody seen my Mum? Fawns are born in June/July, this one, in the New Forest*

wood to see, 100 yards in front of him, a man carrying a tray with what looked like a tea cosy on top of it. Ron quickly backtracked out of sight unobserved and proceeded to watch and take pictures of what he thought might be a novel poaching operation. He was later to discover that the man was from the Home Office, trying to track down someone who was using a transmitter illegally. The culprit has since been identified as a tiny Muntjac deer — wearing a radio transmitter inside a collar round its neck — part of an Oxford University deer tracking project!

GMCG

The HQ of the British Deer Society is at the Child Beale Trust, Pangbourne, where members of the photographic committee meet once a year. The rest of the time they keep in touch with one another through correspondence.



*A Red Deer stag captured on camera by Ron in Charnwood Forest, Leicestershire*

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