

No. 88

BIRTHDAY

ROCK CLIMB

NEW LIFE FOR

July, 1969

Price 3d.

First-aid firemen hitch home

QUEEN AND ATOM QUEEN AND DUKE LUNGH IN WINFRITH

THE QUEEN and Prince Philip were spending $2\frac{1}{2}$ hours at Winfrith on July 11 during a series of visits in Dorset.

In the morning they were due to see farms belonging to the Duchy

of Cornwall at Poundbury, near Dorchester.

AUTHORITY GOLF - page 8

INSIDE . . .

HONOURS page 12

DRAMA - page 3

DRAGON - page 4

TALKS - page 5

MORE URANIUM

DOUNREAY AS AN AIRFIELD? page 10

REMEMBERING D-DAY - page 11

Britain is in the top five

BRITAIN is one of "the most advanced five members of the International Atomic Energy Agency in the technology of atomic energy", says the agency in naming the members of its board of governors.

Canada, France, Russia, Britain and the United States are board members for 1969-70 "as the most advanced five members in the tech-

nology of atomic energy".

Australia, Brazil, India,
Japan and South Africa are on the board as "the most advanced members in the technology of atomic energy in the geographical areas not represented by the other

Czechoslovakia and Portugal join the board "from

Director on

DR. WALTER MARSH-

ALL, Harwell's Director,

has been appointed by the

Minister of Technology, Mr.

Anthony Wedgwood Benn.

to be a member of the

National Research and De-

Dr. Marshall will hold the

He fills a vacancy on the

board which followed the

appointment of Sir Frank

Schon, already a member, to

its chairman

appointment until the end of

velopment Corporation.

June 1972.

March 1.

among the producers of source materials". Sweden joins as a supplier of technical assistance.

Seven members will be elected for a two-year term of office by the general con-ference of IAEA when it meets in September and five members of the present board, elected by the general conference last September, will continue for another year. They are Argentina, Iran, Italy, Singapore and Venezuela

THREE Harwell firemen on their way home after their night shift leapt from the staff bus on its way to Newbury, Berks, as it passed the scene of an accident involving two lorries. They found the driver of one of the lorries lying in the grass at the side of the road beside his wrecked

In the picture Leading Fireman G. J. Duffin bends down to give him help as (left) Fireman A. J. Sheppard and (back to camera) Fireman A. S. Jackson stand by.

The three firemen also helped three other people injured in the accident and stayed until two ambu-lances took them to hospital in Reading.

Then they had to hitchhike the last four miles home to Newbury.

BRAZIL IS BUYING BRITISH REACTORS

BRAZIL has ordered £1,500,000-worth of nuclear equipment from Britain. The order is for six nuclear research and training reactors. It has been placed with Fairey Engineering Ltd., of Stockport, Cheshire.

The Brazilian Ministry of Education wants five Helen-type reactors for training and basic research, and a Herald fivemegawatt reactor for more advanced work.

Both types of reactor are sold overseas by Fairey under a licence from the Authority.

New centre

The Herald will be installed at Brazil's new centre of government in Brasilia, and the Helen reactors will go to univer-

This contract follows a £600,000 order from Chile for a Herald reactor for which the contract was signed only six months ago.

Culham to be test centre

up a test centre for superconducting materials at Culham. It has been specially asked for by the Ministry of

Technology.

It will take a year to set up the equipment, but when it is ready manufacturers and others who use superconducting materials will be able to to use it to test new devices and help them to guarantee the technical quality of com-mercially produced materials.

Other work

The technology of making, conducting coils has been developed at Culham for the nuclear fusion research programme, said an Authority spokesman.

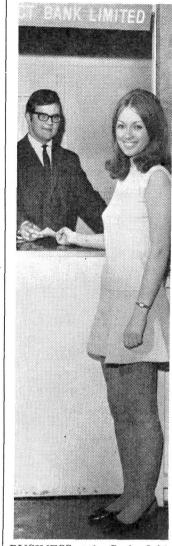
Work on other applications superconductivity has already been undertaken in collaboration with the Ministry of Technology.

The laboratory already has limited test facilities.

£225 MEMORIAL

THE Cyril Sanders memorial fund-started in memory of the man who ran Harwell's Clinical Pathology Department for 21 years—has closed at £225, which will provide a prize for the Institute of Medical Laboratory Techno-

Bank's business is booming



BUSINESS at the Springfields branch of the District Bank has doubled more than twice since it opened eight months

A new boom is expected now that all Britain's banks are closing on Saturday mornings, making it harder for Authority employees to visit their local branch in their own time.

Not every customer that the clerk, Mr. Richard Alexander, deals with has the charm of machine operator Valerie Porter. But, says a Springfields spokesman, they all get the same helpful ser-

SPAIN TO SEND FUEL TO WINDSCALE

FUEL from the Spanish nuclear power station at Zorita, near Madrid, is to be reprocessed at Windscale. An agreement between the Authority and the Spanish Junta de Energia Nuclear was signed on July 4.

They were expected at Winfrith at 12.10 pm and

were to visit the Reactor Physics Hall and the General Services building.

"These buildings were

chosen so that as many staff as possible could see the royal party," said a spokes-

Exhibits showing some of Winfrith's work were ready

The Queen and the Prince were being accompanied by

the Lord Lieutenant of Dorset, Colonel J. W. Weld; the Minister of Technology,

Mr. Anthony Wedgwood Benn, and Authority Chair-

Road lined

D. W. Fry was host to the visitors for lunch. They were

being joined by senior mem-

bers of the staff, and repre-

sentatives of staff associations

"The route 101 the cars passing through the has been "The route for the royal

chosen to give staff an oppor-tunity to see the Queen and

the Duke travelling through the site," said a spokesman. Families of Authority em-

ployees were expected to line

the private road leading to

the site as the royal party

Winfrith's Director, Mr.

in both buildings.

man Sir John Hill.

and trade unions.

drove past.

man.

A minimum of 28 tons fuel from the station will be going to Windscale between 1971 and 1975.

The Zorita nuclear power station is Spain's first. It generates 160 megawatts of electricity and uses a pressurised water reactor.

The original fuel is American. The Authority will buy the plutonium recovered during reprocessing and it is likely to be sold back to Spain later as fuel for other power stations.

International agreements ensure that it is used for peaceful purposes.

The Authority already has contracts to reprocess fuel at Windscale from Japan, Italy, Canada and Switzerland

• Fuel agreement with Denmark, page 3.



READING WAREHOUSES LTD. (Dept. AN) New Rd, Tadley, Basingstoke, Hants. Phone Tadley 3704

Egypt's cash problems show up in reactor

TWENTIETH century nuclear science may soon provide man with a knowledge of economic conditions in ancient

The first step in the search for clues has already been taken at McMaster University in Hamilton, Ontario, the site of the only nuclear reactor at a Canadian university.

More than 40 ancient Egyptian silver coins owned by Mr. Richard Hazzard, of Toronto, were irradiated in the reactor under the supervision of Dr. I. D. Brown, the Department of Physics.

Heinz Lycklama, a gradu-

ate student, conducted the project.

The coins were lowered into the reactor in a plastic bag. When they had been irradiated they were put on a gamma-ray counter.

By identifying and grading impurities in the coins Mr. Hazzard hopes to obtain clues about the economic situation in Egypt during several reigns of the Ptolemys.

Diluted

42 BC other metals such as copper were added to the silver used to make coins. Economic conditions dictated what was added and in what quantities.

Results have been recorded, but final conclusions have not yet been published. So far, a spokesman said, the results do not agree with tests of specific gravity made

REACTOR MIGHT RELEASE WATER FROM MOON ROCK

DR. EDWARD TELLER, who has been working on the development of nuclear weapons, said last month that it would be "useful scientifically" to set off a nuclear explosion on the moon.

The vibrations of the blast, said American Dr. Teller, would be the best source of seismographic measurement from which to learn about the moon's interior. The doc-

tor also suggested building a nuclear reactor there.
"The best information on the earth comes from nuclear explosions," he said, "because then the energy-generating

event is confined very sharply both in space and in time."

The explosion should be "set up out of the way of mischief and at a place which you have already sufficiently explored," he said. Although the explosion might change things on the moon "in a local area" he doubted if significant the explosion would be made area be distincted. ficant changes would be made over big distances.

"One can confine the radioactive particles below the surface as we do on earth," he said.

But research from a nuclear reactor would be of

greater importance, the doctor claimed.

"I would like to see the development start right after the landings of Apollo II," he said. "But it may take quite a few years—perhaps five—before we have a station that is continuously manned.

A nuclear reactor could heat lunar rocks to very high temperatures and liberate oxygen from them for breath-Dr. Teller claimed.

"There is a probability that, bound in the lunar rocks, you will also find water which you can boil out. There is no reason why we cannot produce it, keep it and use it."

The reactor might be able to provide enough fuel for short-range rocket trips on the moon, he suggested.

New top doctor

DR. S. M. B. HILL, head of the Health and Safety Division at Dounreay, is the Authority's new Chief Medical Officer.

He succeeded Dr. K. P. Duncan on June 9 when Dr. Duncan joined the British Steel Corporation.

Dr. Hill will be moving to Harwell but for a time he keeps the title of Head of Health and Safety at Doun-

Between about 184 BC and

earlier on the same coins.

MINISTER HANDS POWER STATION ARCHITECTS AN IDEA FOR THE FUTURE

See-through walls to show off beauty

A SUGGESTION that buildings like power stations could be built of transparent material "to reveal interesting or beautiful design and movement" was made by the Minister of Technology, Mr. Anthony Wedgwood Benn, when he opened the nuclear power station at Oldbury-on-Severn

"It is curious how little is said about the sheer aesthetic beauty of engineering work," he said. "There are some exceptions. The Severn Bridge or Concorde may win acclaim for their overall proportions.

'But the immensely detailed and accurate work on electric circuits or the structure of man - made fibres or the intricate pattern of mechanical parts in ordinary equipment seems often to escape the eye of the art critic.

"Many of us are familiar with the sense of loss which accompanied the replacement of the steam locomotive, with its visible moving parts providing a sense of animation, by diesel and electric traction.

Excitement

"For the same reason, I think, our technological environment would gain in excitement and beauty more working parts were visible to the eye.

"Here is the answer to the cult of the commercial stylists who offer us brilliant designs with dull overcoats of streamlining. Today, thanks to the inspired leadership of the Council of Industrial Design, design is seen as a joint operation uniting the engineer and the industrial designer in a common study of basic problems so that they can be solved in an in-

go further and consider how

the mechanisms of things

can be made plain and evi-

dent by the use, for example,

of transparent coverings to

reveal interesting or beauti-

ful design and movement, in

all their manifestations, mechanical, electronic, elec-

craftsmen laboured to pro-

duce the architectural master-

pieces at Canterbury and

York, Wells and Gloucester, Bath Abbey and St. Mary

They remain today centres

"For centuries the finest

trical and chemical.

Redcliffe, Bristol.

tegral form.

grims? Oldbury-on-Severn nuclear power station from the south-east. "The profile is simple and dignified ... it has a colossal impact upon its surroundings." said the Minister of Technology, Mr. Anthony Wedgwood Benn, when he Go further "But I think we need to opened it.

of pilgrimage for those who come to admire their huge and beautiful proportions and the intricate harmony of carving and decoration.

THE VIEW for future pil-

"Looking at this impressive power station here at Oldbury, it seems natural to compare it with these structures of former times. This, too, has a similar colossal impact upon its surroundings and here is craftsmanship and

skill of an even higher order. "The profile is simple and dignified, the building unpretentious but full of grandeur.

"Inside it, in the reactor core, the pressure vessel, the turbines and the cooling system, is some of the most intricate engineering work to be found anywhere in the world. Every piece of equipment is precision designed and built to meet vigorous operating requirements.

"Enough can be seen to allow us to imagine it as a centre of pilgrimage for future engineers and technologists."

Watch for school man

AFTER working for 12 years in Aldermaston's apprentice school, Mr. Dick Ward has retired. Mr. I. K. Walters, the apprentice school manager, presented him with a wristwatch as a farewell gift.

Harwell men head the council

MR. FREDERICK HOLD-BROOK, a 38-year-old senior technical officer at Harwell, has been elected chairman of the Conservative-controlled Didcot Parish Council.

Mr. Holdbrook has been a member of the council for three years and since 1967 has been chairman of its Allotments and Cemetery Committee.

Last year he was elected vice-chairman of the council. The new vice-chairman is Mr. Derek Holmes, who also

works at Harwell.

CROSSWORD CORNER

ACROSS 1 Oppose upter. (6) 4 Not r

radioactive, it may pro-duce win-9 Take in the shut - down period, it's

something atrocious. (7) the hills can produce great fears.

11 Orange butter provide this power station com-

ponent. (5-9)
13 Animal's front support causes twisted grin in fog. (7)

this flavour. (7)

18 Negotiator stands a round (7)

in the French version. (7)

Right off one of the family? That will cause

20 Rehash exercise in campa-23 Instrument in charge of car-

bon compounds (7) 24 Time off in Basle I surely

enjoy. (7)
25 One container in a hundred, brown all round. (3, 3)
26 Young bird sounds like a small seal. (6)

DOWN 1 It goes round, backwards or

1 It goes round, backwards of forwards. (5)
2 Bird might be a gannet. (7)
3 When twisted, cog part here is solid-looking. (13)
5 Oh, Daniel, rubbish! Turn back, there's a violent wind.

6 A student of life. (9)
7 Simple midshipman. (4)

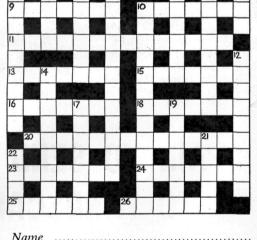
8 One rebellion, three times another. (5-4)

10 According to the books, the

supporter contains gold, etc. I'm in the middle. (13)

12 Stamped the little devil with a ship in the music

pipe. (9)



15 Mid-hour is source of met- 14 New car gets this arresting

allic element. (7)

16 Five dye the French with

treatment. (7, 2)

17 This car has silver on 500

delight. (7) 21 Haggard, time-honoured

Lancaster. (5)
Broken atom provides medieval defence. (4) 22 Broken

JUNE SOLUTION



Book token for Mr. D. Holder, of Aldermaston. Entries this month to Crossword, Room 124, London Office, by July 24. First correct entry opened wins.

BALLOON IDEA SCRAPPED, BUT GOLFER AND ARCHER-ANGLER STAND BY

Climbers scale Clett

From the top they climbed

back down their ropes to the

lobster boat. At one time they

had thought of returning to

the mainland by walking hand

over hand across a rope stretched from the top of Clett to Holborn Head.

Champion archer Charlie Evans, of Dounreay's En-

gineering Development Group, had already fired an

arrow from the mainland to

the top of the rock, stretching a light line across the sea.

Strong wind

the top they had planned to

pull across a heavier rope and then swing across it. In practice, Charlie had also got

a line across using a fishing

rod to make a long cast. But strong winds defeated him on June 22.

Golfer Alan Clifton was also beaten when he tried to send a light line across to

Clett attached to a golf ball. The line broke and the ball

Landing at the foot of Clett Rock is so difficult that the climbers had seriously

thought of lowering Mick Willis, the lightest member

of the club, on to the top of the rock from hellium-filled

Deflation

Alan Ainsworth, the club

secretary who works in Dounreay's Engineering De-

velopment Group, had sug-

gested that Mick should be

dangled from a kite support-

ed by four balloons which would be flown from the

mainland to the top of the

When Mick was directly over the rock, Alan suggest-

ed firing a dart from a gun at

two of the ballons to deflate

them and land him on the

carrying a rope, anchored on

the mainland, which he would

have fixed to the top of the

rock so that members of the

club could swing across, slide

down other ropes to the base

of the rock and then start

Mick would have been

stack.

rock's flat top.

their climb.

landed in the sea.

When the climbers reached

DEREK YOUNG, the Dounreay climber who was one of the first to reach the top of the 200-foot Peddie stack, off the coast near John O'Groats, two years ago, led another team of climbers who spent six hours last month reaching the top of the previously unclimbed Clett Rock, 40 yards off the towering cliffs of Holborn Head, near Thurso.

The three men completed their climb on June 22 after weeks of preparation.

Club members

With Derek, who works in the Engineering Development Group at Dounreay, were Mick Willis, of the same group, and Roger Jolly, who works on the prototype fast reactor there. They are all members of Caithness Mountaineering and Ski Club.

To land at the base of the rock they

had to wait for calm weather and scramble on to a narrow ledge from a lobster boat belonging to Willie McDonald, who works in Dounreay's Central Design Office. Normally huge waves keep boats well away from the rock.

At their first attempt on June 16 they spent $4\frac{1}{2}$ hours climbing the first third of the 160 feet to the top. For most of the time they were fighting overhanging rock, desscribed by observers on shore as "vicious"

Pegs left

With Derek and Mick on this climb were John Johnson, of the Instrument Department at Dounreay, and Steve Scadden, of the Administration Division.

When they gave up, they left stout metal pegs in the rock face ready for their next Four days later they peg-

ged out more of their route. But it still took them from 9.30 am to 4.15 pm to complete the final climb.

34 US A-stations

THIRTY - FOUR nuclear power stations which could be generating 7,500 megawatts of electricity in the United States have been delayed up to a year-more in several cases—according to a census made by the Atomic Industrial Forum.

As a result, there might have been power cuts in some areas of America if power stations had not been able to buy electricity from neighbouring organisations.

So far in 1969 only two major nuclear power stations have been ordered from the four companies in America building them, says the forum.



SURROUNDED by the swirling waters of the Pentland Firth, the Clett Rock stands alone, 50 yards off the towering

they first discussed whether it was possible. Their route was up the far right-hand side of the rock (arrowed).

Below, Mick Willis, the lightest member of Caithness Mountaineering and Ski Club, returns to sea level past the vicious overhang which the climbers had to overcome. The photograph was taken by fellow climber Derek Young.



cliffs of Holborn Head, near Thurso.

Dounreay climbers scaled it last month-six weeks after



Capenhurst loses three messengers

THREE of Capenhurst's long-serving messengers have retired. Mr. H. Jones, the head messenger, left after working at Capenhurst since 1942.

Known to everyone as Harold, he was keen on music and during the 1939-45 war gave up his spare time to provide entertainment for the forces as a member of

He plans to spend much of his retirement in North Wales, fishing and taking photographs.

Colleagues at Capenhurst gave him a pair of binoculars as a farewell present.

Mr. Ivor Williams, who has also retired, started work at Capenhurst in 1952 and he, too, plans to move to North Wales — and a country cottage. Colleagues gave him a barometer.

Mr. H. Baldock, who has

also worked at Capenhurst since 1952, has had a long illness. Colleagues gave him a

clock as a farewell gift.

Mrs. Jones, Mrs. Williams
and Mrs. Baldock all received handbags.

Springfields

Mr. Ernest Harper, who has retired from Springfields, worked there for more than 21 years. Before he left, Mr. J. Doran, Production Manager, presented him with gifts from the works benevolent society, colleagues and the the Transport and General Workers Union.

Mr. B. O. Grady, who has retired on health grounds, worked since 1949 as a fitter in the Springfields Plant Maintenance Department.
Gifts from the benevolent society and colleagues were presented to him by Mr. A. C. Matthews, Assistant Chief Mechanical Engineer.

Mr. Harry Cox, who joined Springfields in 1950, has also retired and the Works Manager for Oxide Fuels, Mr. P. Dalley, presented him with gifts from the benevolent society and colleagues.

After $12\frac{1}{2}$ years at the works, **Mr. Brinley Bluck** has also retired.

Welsh greeting for Prince

MR. CHARLES OWEN, of the Welfare Section at Aldermaston, has written a message of congratulations to the Prince of Wales. In Welsh, it was sent to the Prince, on his investiture this month, by the Reading Welsh Society, whose president is Mr. E. W. Jones, also of Aldermaston.

Show time

HARWELL Horticultural Society's 23rd show opens on

Dounreay delay to cost £750,000

DELAY in building the prototype fast reactor at Dounreay is likely to cost £750,000, Mr. J. P. W. Mallalieu, Minister of State for Technology, said in the House of Com-

The delay follows problems in making the complex steel radiation shield roof for the reactor, but it had nothing to do with the fast reactor system as such.

The Minister of State told Mr. Eric Lubbock that the estimated loss of electricity receipts from the reactor was £1,200,000 in 1971-72 and

£850,000 in 1972-73.

Earlier this year an Authority spokesman said the reactor roof was expected to reach Dounreay about 18 months later than planned. Steel plates of which the roof is made have been damaged indirectly by welding.





HAROLD JONES head messenger at Capenhurst, has retired. So have Mr. Ivor Williams (left) and Mr. H. Baldock. Between them they have worked there for over 60

Danes sign new fuel contract

NEW CONTRACTS between the Authority and the Danish Atomic Energy Commission were signed in London last month. They cover fuel supplies and reprocessing for Danish reactors.

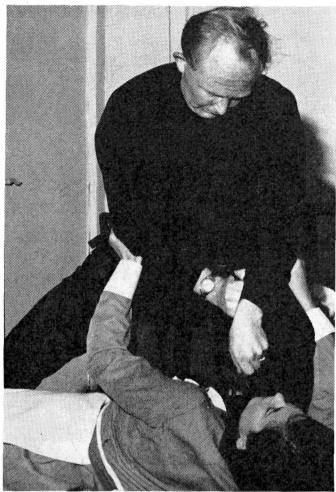
The contracts were negotiated for the Authority by Mr. G. A. Greenwood, of Production Group's Commercial Directorate.

Among those at the signing ceremony were Mr. G. H. Kinchin, assistant director at Dounreay where the fuel is made and reprocessed; Mr. J. Waddams, Production Group's Chief Commercial Officer; Mr. P. J. Snare, of the Danish Atomic Energy Commission in Copenhagen, and Dr. F. Juul, Vice-Director of the Danish Research Establishment at Riso, where the reactors which will use the fuel are situated.



MANCHESTER: 55-81 Lever Street. Tel: 061 236 3687/8/9

PHYSICIST TURNS TO MURDER



A NURSE is strangled . . . one of three murders in Friedrich Durrenmatt's comedy-drama The Physicists, produced last month by Harwell's drama society.

In the shelter of a sanatorium for the mentally unstable elite, the three physicists Einstein, Newton and Mobius—or patients who use their names—are involved.

In the picture, Mobius, played by Angus Bowman, kills Nurse Monica Stettler, played by Linda Harris. With less than half an

CERN site choice on October 1

THE SITE for the new 300,000 million electron volt accelerator planned by the European Organisation for Nuclear Research (CERN) will be chosen early in October.

The CERN council starts a meeting on October 1 and by then countries who have said they want to take part in the project will be asked to confirm that they will support the detailed programme which has now been prepared.

So far Austria, Belgium, France, Germany, Italy and Switzerland have said they want to join in.

Before Britain backed out of the project one of the sites discussed for the new laboratory was at Mundford, Norfolk.

TANKARD FOR THOMPSON

AFTER working at Aldermaston since 1955, Mr. K. Thompson has left for a new job. Colleagues presented him with a tankard, handed to him by Mr. W. H. Williams

hour's warning Christine Stirling, who had already become property mistress at the last moment, walked on stage for the last two performances when one of

was unable to turn up.

The Physicists, the last play of the season by the society, attracted audiences from a wide area and played to full houses for a

the members of the cast

NEARLY £3 MILLION MORE FOR RESEARCH

Dragon, 10, gets 3 extra years

WITHIN days of the ceremonies at Winfrith to celebrate the tenth anniversary of the Dragon project there, the European Nuclear Energy Agency announced that work will go on at least until 1973.

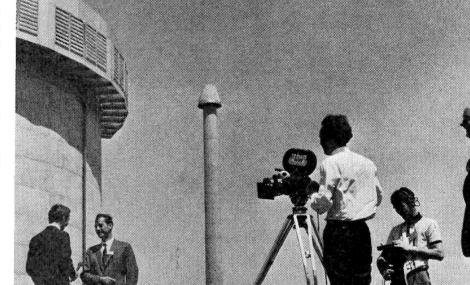
The 12 countries taking part in the project—six of them represented by Euratom—have allocated nearly another £3 million to carry research and development on for three years after the end of the present agreement next year.

At the celebrations, Mr. J. P. W. Mallalieu, Minister of State at the Ministry of Technology in London, said "this successful international enterprise" brought two major rewards to countries taking part.

"First," he said, "it has provided a successful demonstration of international collaboration.

"Secondly, it has demonstrated the technical success and commercial potential of the high-temperature reactor.

"For a comparatively modest investment, every signatory country has received a



high return in both these respects.
"Additionally, contracts

"Additionally, contracts emanating from the project have been a stimulus to nuclear industry in all the countries concerned and—of perhaps greater importance in the long run—they have played an important part in establishing international links between industrial concerns in the nuclear business.

"The commercial future of the high temperature reactor can now begin to be seen in the fact that Germany and Switzerland are already on the brink of exploitation and that in Britain it is being developed as the next stage in our well-established family of gas-cooled reactors."

'Missing bus?'

Earlier, Mr. Sam Hosegood, of the Dragon Operations Group, had suggested that Britain and other European countries were too slow in deciding to build a Dragontype reactor, although Sir Stanley Brown, chairman of the Central Electricity Generating Board, had told the House of Commons Select Committee on Science and Technology that the board might be able to build one in 1971.

Germany and America who are not taking part directly in the Dragon project, could secure the first orders for Dragon-type power stations, said Mr. Hosegood. "If the Dragon signatory countries delay too long, they may miss the bus which their own countries started."

Three a penny

The capital cost of a Dragon-type power station would be £50 for each kilowatt of electricity it was designed to generate, he said. Generating costs of a little over three units for a penny were suggested by the Dragon Chief Executive, Dr. Leslie Shepherd.

Tributes to the late Sir John Cockcroft, whose "quiet determined drive" launched the Dragon project, were paid

MR. ANDREW HARVEY, of the BBC, interviews Mr. S. B. Hosegood, of Dragon, for the evening's TV newsmagazine. The cameraman is Mr. R. Longman and the sound engineer Mr. I. Killian, both from the BBC. Looking on at the right of the picture is Mr. A. W. A. Willis, of the Public Relations Section at Winfrith.

by speakers at the celebrations last month.

"Without his enthusiasm for international co-operation in science and technology, the idea of Dragon might well never have existed at all," said Mr. Mallalieu.

"He formed the European Atomic Energy Society—known as the Cockcroft Club—and at a time when official links between national organisations in this field were fewer than they are today he undertook quite informal discussions with the scientists who were his personal friends all over Europe and formed a small society of which he became the first president."

Gratitude

The Dragon idea was born at a Cockeroft Club meeting. "From 1964 Sir John was Britain's most consistent and determined advocate of an international high-temperature reactor project and we should remember his contribution with gratitude," said Mr. Mallalieu.

There were tributes, too, to Mr. Compton Rennie, Dragon's chief executive for nine years.

"Rennie, in greater measure than any other individual, can be accorded credit for the success that the Dragon project has attained," said Dr. Sigvard Eklund, Director-General of the International Atomic Energy Agency.

And Mr. Mallalieu added: "In him we were fortunate to find a man whose diplomatic qualities made him a most effective exponent of international collaboration."

Treaty that would not sink

THE STORY of the unsinkable canister, told by Dr. Sigvard Eklund, Director-General of the International Atomic Energy Agency, at the tenth anniversary celebrations for the Dragon project, was "a demonstration of the unsinkable nature of the Dragon agreement," he said.

On April 27, 1960, Dr. Eklund put into the concrete foundations of the Dragon reactor a metal cylinder containing a copy of the agreement and some coins from the countries who had signed it.

"I placed the cylinder

"I placed the cylinder in the hole which the contractors had left for it", he said, "and some more or less liquid cement was then powed on top

then poured on top.
"Those gathered round began to applaud, and I was thinking noble thoughts about another great new international enterprise when, through the surface of the wet cement in the hole, the cylinder came floating back into sight.

"This demonstration of the unsinkable nature of the Dragon agreement provoked even more applause, and there is no doubt that the project has prospered steadily and progressed ever since."

A L'EUROPE

A CONTINENTAL evening is planned by the London Office Recreation Association for September 11.

KITTY MET FAMOUS HEART SURGEON



DR. KITTY LITTLE (left) research consultant on plastics and tissues at Wantage, was one of a panel of 20 surgeons phycisists and research workers who met in Budapest, Hungary, to discuss the use of irradiation to sterilise transplants made into human bodies.

Also there was Dr. Christian Barnard, the South African heart transplant pioneer, pictured on the right.

Arranged by the International Atomic Energy Agency, the talks were the first international ones on the subject.

The specialists heard that small doses of radiation can help to overcome the body's natural rejection of some bone, nerve and valve grafts as well as sterilising the new part.

Good results have been obtained with bone grafts, and Mr. J. R. P. Gibbons,

a surgeon from the Brompton Hospital in London, who became a Member of the British Empire Order in the Queen's birthday honours, reported more than 100 cases of heart-valve transplants doing well with valves which had been irradiated.

"More work is still needed to find out the best methods of preparation and irradiation of grafts," said Dr. Little after the discussions. "The conditions are different for each tissue.

"An important part of the discussion was about how to get together the essential clinical data needed for sorting out the mechanisms involved."

And she emphasised that, because radiation doses kill cells, the technique cannot be used for transplants of whole organs like hearts and kidneys.

URANIUM SPIN Tiptoe to metres - MORE TALKS

AGREEMENT between Britain, Holland and Germany, and possibly other countries, about the production of enriched uranium by ultra centrifuges—they are like giant spindryers—should be reached within a year, Mr. Anthony Wedgwood Benn, Minister of Technology, told reporters last month.

He had just attended a meeting in Bonn, Germany, with Mr. Fred Mulley, Minister of State at the Foreign Office; Dr. Josef Luns, the Dutch Foreign Minister; Mr. Leo de Block, the Dutch Economics Minister; Mr. Gerhard Stoltenberg, the West German Minister of Scientific Research, and the German Secretary of State at the Foreign Office, Mr.

Gunter Harkort.

Wine and cheese from the visitors

Australia

A formal communique after the talks said "a few questions of substance still remain open." They will be the subject of further talks between the three govern-

Meanwhile the draft agreement is being revised, but officials have declined to ex-

Department at Harwell

(left), is being welcomed by Frau Wolany and (right)

Herr Wolany, from the Ministry of Scientific Re-

search in Bonn, Germany.

ture is Mr. G. Hensley,

the course manager, from

the Authority Health and

Safety Branch at Risley.

In the centre of the pic-

concept of the agreement.

The communiqué also said that the Ministers "gave particular attention" to the pos-sibility of other European countries joining in the project once it had been established. Mr. Stoltenberg would not deny to reporters that the possibility of America joining the project had been discussed, but he said that there were no negotiations going on.



The Ministers agreed that discussions should now take place between the industrial interests which will be joining in the project. Reporters in London say talks between the Ministry of Technology and Rolls-Royce Ltd. have already begun.

Mr. Wedgwood Benn told reporters that extremely detailed economic and financial points will now have to be discussed and Government finance will be needed for research and investment in the early plants.

But, he said, the project was the first international one for which a very large inter-national market had been established. It would operate on a commercial basis and the aim was to create a lasting international company,

JULIE SEDIN, of Har-Production Works Division, stands on

campaign to get employees interested in metric measurements ready for the change to the metric sys tem which should be completed in British industry

Julie was one of three winners in a contest in which Harwell employees were invited to guess-in kilogrammes—the weight of a sack. Nearly twice as many as expected entered the contest. The other winners were Mr. R. R. Harding and Mr. A. E. Davies, both of the Engineering Services

The prize—a litre of ale to be drunk from a metre glass-was shared by the winning trio in Harwell's Social Club.

ICI SEEK **CARBON FIBRE PLANT**

IMPERIAL Chemical Industries are likely to be the first major British industry to set up a large plant to make the new "wonder strength" carbon fibres.

ICI are discussing a manufacturing licence with the National Research Development Corporation.

In a formal statement the company said that, after the publication of the report on carbon fibres by the Select Committee on Science and Technology in March, they wrote to the Ministry of Technology saying they were interested in building a large plant in Britain provided other manufacturers were not likely to do so.

Harwell link

They also said that they would have to negotiate satisfactory terms to use patents held by Harwell and the Royal Aircraft Establishment at Farnborough, where most of the development work on carbon fibres has been done.

"Subject to obtaining satisfactory licensing terms, it is ICI's intention to assess the magnitude of the investment required in terms of men and money to erect and operate a large carbon-fibre plant,' said the statement.

Company experts are be-lieved to be thinking of producing something approaching the amount of fibre suggested by the select committee in its spring report. This is about 450 tons a year.

Well over £5 million would have to be invested, say experts.

Welcome

ICI say they are hoping to "draw on the considerable experience at Harwell" and a spokesman suggested the possibility of research and development contracts being placed at Harwell "to bring this project to fruition".

At Harwell a spokesman said: "We would certainly welcome furthering the national interest through the development of carbon fibre. Obviously it is far too early to say what we might be doing if ICI eventually go

ahead.
"Research and development for the plant could involve

tiptoe to measure 5 foot 9 inch Liz Atkins, "Miss P and WD" to prove that she is 1.75 metres tall.

It is all part of Harwell's

SINGLE UNIT 'ABSURD'

STAFF of the Post-gradu-

ate Education Centre at

Harwell were guests at an

international wine and cheese party given for

them last month by mem-

bers of the eighth reactor

safety course organised by

Safety Branch.

the Authority Health and

Wine and cheese came from many of the 15 coun-

tries represented on the course and traditional national songs were sung. IN THE PICTURE Mr.

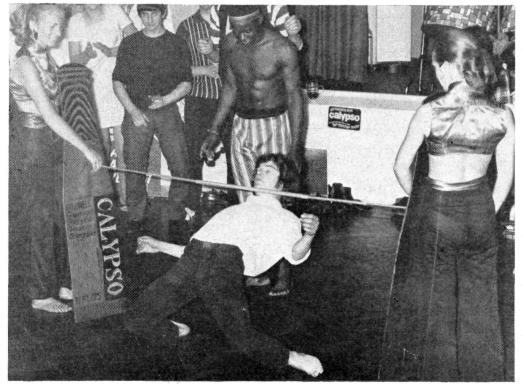
J. F. Hill, head of the Education and Training

FORCING a single nuclear and construction organisation on to British industry, as part of reorganisation, would have produced a "manifest adsurdity" Mr. Anthony Wedgwood Benn, Minister of Technology told the House of Commons Select Committee on Science and Technology last month.

He had decided that there was enough work in Britain and abroad to support two companies, and international trading links already formed by companies in the nuclear power and associated business would be of great value in getting export orders, he

He denied that 18 months was an unreasonable time for re-organisation.

DOWN GOES NERO, A WINNER



"NERO" KNOWLES, of Harwell's Metallurgy Division, was the best male competitor in a limbo dancing contest arranged in the site's social club. He is pictured in action as the bar is held above him by Mary and Helen, two assistants of professional limbo-and fire-dancer Ranny Cool, who is looking on.

His act was part of the club's calypso cabaret which included music from the Los Tropicanos steel band.

Savannah sails on ... Sister ships coming?

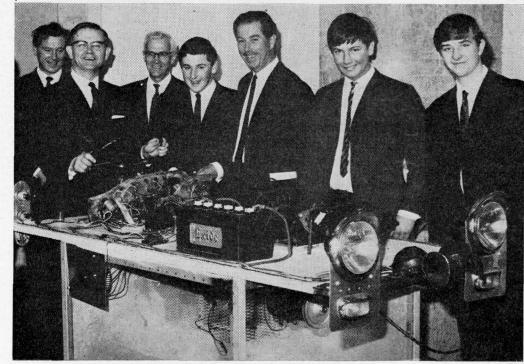
THE nuclear ship Savannah will continue in operation, said the head of the United States Maritime Administration, Mr. A. E. Gibson.

Speaking at Savannah, Georgia, he declared that the ship would sail on while the second generation of nuclear ships was built. The Maritime Administration was considering building two or three merchant ships—tankers or container

Ît would also "undertake a long range research and development programme directed towards development of improved nuclear systems.

"The objectives will be to reduce capital costs of marine reactors and reduce operating and associated costs and thus produce a competitive nuclear power system by the end of the next decade," he said.

Dr. Franklin tries his hand at car-less driving



Japan aims for 1975

JAPAN has succeeded in enriching uranium in a centrifuge, says its Power Reactor and Nuclear Fuel Development Corporation.

The experiments were made at the Tokai laboratories of the Japan Atomic Energy Research Institute. They are part of a longterm programme to develop and use atomic energy.

By 1972 Japan is expected to choose between the older gaseous diffusion method of enriching uranium and the new centrifugal process. The country is expected to have its own plant to make uranium by 1975.

INSTANT CHAOS

ALTHOUGH visitors are being invited to tour the Central Electricity Generating Board's nuclear power station at Dungeness, Kent, this summer and specially trained hostesses will show them round, children under 15 are not being admitted.

"Children can throw a power house into utter confusion," said a spokesman.



1 ST. GABRIEL'S RD., EASTON, BRISTOL 5. 11 HILLS TERRACE, CARDIFF. TEL: 43656/7

and Morris 1800, Minx 1594/1492

DR. N. L. FRANKLIN, Authority Member for Production, takes the wheel of a "car" during Capenhurst apprentices' parents' day.

The car is simply the electrical circuit stripped from a Humber Snipe and set up on a bench as part of a pro-

ject for first-year apprentices.

Immediately behind Dr. Franklin is Mr. T. Welding, the apprentice training officer at Capenhurst, and on the other side, wearing glasses, is Capenhurst's General Manager, Mr. W. R. A. Taylor. Capenhurst's works engineer, Mr. G. E. Shepherd, is third from the right.



A CHEQUE for £80 has

been presented to Mr.

George Stemp, of Har-

well's Engineering Support

Division, for a bright idea

which, says a spokesman,

Mr. Stemp gets his £80

for devising a way of pro-

ducing thin sections of

fragile radioactive mater-

nas resulted in saving ti

and reducing costs".

MOTOR INSURANCE

UNDERWRITTEN AT LLOYDS SPECIALLY FOR UKAEA EMPLOYEES

Compare these rates Garaged in Lancashire & Cheshire

Excluding Manchester & Liverpool

Comprehensive Motor Policies

1100s, Minis, Escorts, Vivas, Corsairs, Classics, Cortinas, Victors 1594/1507/1595, Austin 1800 } £7 4s. 3d.

This covers all damage and you do not pay

the first part of any claim

BARRY PIMLOTT F.A.I.B.

29 Grosvenor Street, Blackpool Tel: 27725

ALPHA POLICIES ISSUED

We quote for all risks regardless of age type of car or motoring conv



SON, wife of Mr. Richard Thomasson, of the Fast Reactor Design Office at Risley, died in a crash on the M1 motorway last month.

The Thomasson's six-yearold son, Peter, died too.

Mr. Thomasson, who is 41. was kept in hospital overnight for observation but later released. His eight-yeardaughter, Christine, escaped unhurt.

The car was being driven by Mrs. Thomasson, who was well known as a social worker

DIRECTOR'S WIFE GETS A BOUQUET

WEYMOUTH borough councillor Mrs. J. F. Fry-her husband is Mr. D. W. Fry, Winfrith's Director—opened a fete given by the local St. Paul's Church.

nifer Bowring she received a bouquet of gladioli, carnations and chrysanthemums.

Jennifer was one of the children of St. Paul's infants' school who left their classrooms to give a dancing dis-

The fete raised £235 for the church.

Going gay

A NEW social committee to run regular evening functions THE Harwell cup competed has been appointed by the for by ten bridge clubs in a management committee of the team-of-four event organised London Office Recreation by Harwell Bridge Club, was Association. Regular committee members are LORA sec- won by a Harwell teamretary Mr. R. Thomas, Miss Dr. R. Fletcher, Mr. P. Hal- when he retired from Alder- trician at nearby Didcot Jennie James and Mr. Bruce lowell, Mr. M. Powell and maston's Stores Branch after Mr. M. Simpson.

MORE CASH FOR COIN **STUDY**

Mr. Lawrence Cope, a metallurgist at Culcheth who has been studying Roman coins, has been given another award of £300 by the British Academy to continue his work.

Last year he received £250 to help pay for his study of problems associated with the Roman Imperial coinage.

ground

AFTER winning his first

three contests with a radio-

controlled glider and then

beating a field of 27 fliers

in a national round-the-

pylons flying championship

at the RAF station at Hul-

lavington, Wilts, last month,

Harwell senior scientific

officer Mr. John Ralph went

ahead with preparations for

a similar championship at Thorney Island, Sussex, on

Mr. Ralph is a member of

the North Berks Model Air-

craft Flying Club and has

been flying model aircraft

for nine years. His success

at Hullavington was his best.

over 100 miles an hour on

some stretches of the triangu-

lar course. He completed the

ten-lap, $2\frac{1}{2}$ -mile race in 2

"That may not sound a

long time, but when you have

to concentrate for every

second and know that a

wrong movement with the

controls can send over £150-

worth of equipment crashing,

seems a very long while,

"Split seconds round the

John Ralph built his own

pylon can win or lose a race.'

model which incorporates a

pressure-fed engine with an

exhaust system which he de-

signed. He made much of

the radio-control equipment,

Dr. Kronberger

joins 'the

eminent'

DR. HANS KRONBER-

GER, the Authority Member

for Reactor Development,

has been appointed a mem-

ber of the Scientific Advisory

Committee of the Interna-

tional Atomic Energy Agency

for three years from July 1.

Established in September

1958, the committee consists

of eminent scientists nomin-

ated by the Director-General

of IAEA and appointed by

its board, says the agency.

he told a reporter.

mins. 17 secs.

His model reached speeds

Mr. Cope has been doing the work privately for about 13 years. He is a member of Warrington Archaeological and Historical Society and a fellow of the Royal Numismatic Society.

His research is into the policies which governed the Roman silver coinage and is based on a study of the metallic composition of a series of coin issues.

> **UNION** MAN **LEAVES**



CHAIRMAN and treasurer of the Salwick Branch Social Committee the Transport and General Workers Union for seven years, Mr. Hildred Cammell has retired from Springfields.

He began work there as a driver in November 1947 and for 20 years did regular shift work.

He was the T and GWU shop steward for his section and served on the Works Transport Sub-Committee for 12 years. For 10 years he was its joint secretary.

Mr. D. Thomas, Springfields staff manager, presented Mr. Cammell with gifts from the works benevolent society colleagues before he re-

A cheque from the Transport and General Workers Union was presented at a special ceremony at the Trades Club in Blackpool.

Cup stays home

Picnic time THERE was a picnic hamworking there for 18 years. Herring.

CHRISTINE IS IN ITALY . . . AND SHE WANTS WORK



AFTER working for 18 years as a typist at Risley, Christine Urmston has set off for Italy-to work.

With two girl friends she left England with no special plans, but all three hoped to find a job, they said. At Risley Christine has worked in most

sections and was recently in the teleprinter

Most of her spare time has been spent on the Continent. She has spent holidays in Italy and the Greek islands. She told colleagues before she left that it was one of her ambitions to work abroad

Computer plays

its own funeral march

CAPENHURST'S Deuce computer played Chopin's Funeral March on the day it was shut down. There is an oscillator in the computer which can be programmed to produce musical notes.

The shut-down ceremony was attended by 20 former members of Capenhurst's computer section as well as present management and staff

The computer has been working for 10 years but new developments have now made Deuce out of date and in future Capenhurst will rely on links to the new ICL 4/70 computer at Risley.

Atlas girl weds electrician

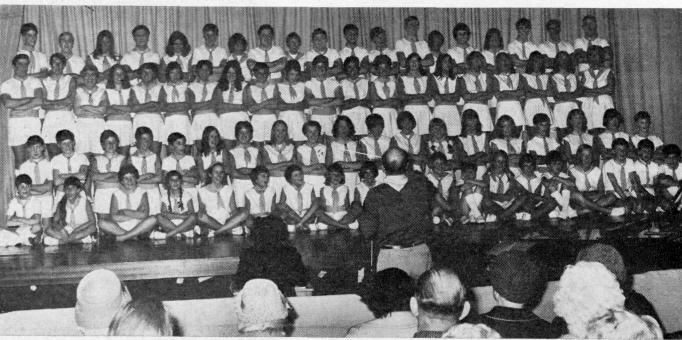
Miss Judith O'Regan, who works at the Atlas Computer per as a gift from colleagues Laboratory near Harwell, has for Mr. R. A. W. Causon married a chargehand elecpower station, Mr. Brian

J. C. Johnson.

-AERE News.

a chemical engineer.

THE PAGE ABOUT PEOPLE AND PLACES



JACK GARTON, of Har-

well's Analytical Sciences

Division, conducted the

chorus of Wantasia '69,

which he produced and for

which he wrote many of

The show was staged last

month by Wantage Guides

ees helped back-stage and

in the orchestra.

the items.

Inspection Group, insists SALE ON A films were screened in as **CLUB**

sale on a front lawn in Thurso raised £2 for Thurso Senior Citizens Club.

They were Aileen, daughte of John Finlayson, of the which he hopes will lead to at Woburn Abbey, home of

take part in his educational Cribbage final Britain the first of the series

white at the end of the year and will be repeated later in They hunt

The series will consist of

eight 30-minute films and shooting is planned for Scotland, Ireland, Oxford-

Jonathan, who works in

Harwell's Standards and

that "filming, like fishing, is

only an enjoyable hobby"

many months and he secur-

ed an Independent Televi-

sion "first" when he covered

the National Angling Cham-

pionships in a full-length

Negotiations are going on

filming a rare species of fish

the Duke of Bedford, who,

Jonathan hopes, will also

Five films from the series

are to be screened by Cana-

dian television stations. In

will be shown in black and

documentary.

But six of his television

shire and Berkshire.

in pairs are among many wild creatures which will steal birds' A "TREASURE hunt with a difference"-on foot in central London-is planned by Do-it-yourself the London Office Recreation

'Hobby' film

man lands

ITV order

JONATHAN WEBB, the Harwell technician

who said he has "absolutely no ambitions" to

make a career in television, has been commis-

sioned by Independent Television's Adult Education Department to make their first educa-

tional film series on angling—in colour.

THRUSH

POSES A

BAKED

EGG

MYSTERY

THE THRUSH which built

a nest on a steam pipe in a

lean-to at Windscale has

disappeared. So have the

two eggs that she was

Now the men of Metallur-

gical Services at Windscale

are trying to discover what

gestation for our thrush's two

eggs was well exceeded and

the mother must have got

browned off," said Mr. Alf-

perform an autopsy on the

eggs it was discovered that

someone or something had got there first and extracted

"It is not unreasonably felt

that the excess heat had

baked the two eggs, how-

Rats, owls, and squirrels

"When it was decided to

'The anticipated period of

happened to them.

red Fenwick.

hatching.

Association for July 17. day out Competitors, in pairs, will be timed as they walk round the CAMERA Club summer outing, June 28, Lacock, Wilts. Travel: please make your own travel arrangements. . . . Feeding: please make your

Mayfair-Soho-Whitehall area, ollowing clues. "I don't think many people realise just how central and how ideally placed London Office is for this kind of thing," said LORA secretary Mr. R. F. Thomas. own arrangements for lunch.

LAWN AIDS

THREE girls who held

Dounreay workshops; Jacqueline, daughter of Dounreay fireman Jimmy Hill, and their neighbour Linda Martin. They sold unwanted toys and books as well as home-

and Scouts. Nearly 140 of them took part and the show was acclaimed by 2,000 people who saw during its five-day run. Many Authority employ-

Mr. R. McClure, of the Science Research Council, was stage manager and his colleague Mr. R. Atkinson was assistant producer. From Harwell Messrs. K. Beechy, G. Bowen, W.

Stuart, R. Rose, A. Black, C. Sharpe, Miss J. Brink-low and Miss C. Payne all helped backstage, with Mr A. Cash, Mr. A. Hodges and Mr. G. Spinks, from the Science Research Council, and Mr. Robin Fuller, from Wantage.

Mr. J. Marns, from Harwell's Library, was accompanist and Mrs. Foxon, wife of Mr. David Foxon, reactor manager at Harwell, was wardrobe

oil man

MISS MADELEINE

SMITH, whose father, Mr.

Paul Smith, is Head of Man-

agement Training at Har-

well, has married Mr. Patrick

Mannix, who works in an

operations research team for

an oil company and has

recently returned from work

Mr. Smith is also vice-

chairman of Abingdon

Division Conservative Asso-

ciation and his wife is secre-

tary of the division's

Women's Advisory Com-

in the Gulf of Mexico.

books, read limericks he had composed about each of his colleagues. Presenting a week-end case as a farewell gift, Mr. Training man's

Eric Underwood, Director of Public Relations, said Steve daughter weds was the author of the British book on desalination which had led directly to the sale of a British desalting plant in Libya.

Writer

verse

goes ... in

WHEN science writer Steve

Makepeace-Lott left London

Office last month he said

goodbye to colleagues in the

Public Relations Branch in

Steve, who intends to de-

vote his full time to writing

From the book, which was in the British Consulate, the Mayor of Benghazi had obtained an introduction to William Boby and Co., the firm who were awarded the con-

After the *Med* . . .

WINFRITH'S former singing storeman Ray Ironside, who has been sailing round the Mediterranean entertaining passengers on the cruise liner Queen Frederica, has returned to England. And after a short stay in Weymouth he and his sister, Shirley, were off for a tour of north-of-England clubs.

Australians at Winfrith

WESTERN Australian Prime Minister, David Brand, acsing, Assistant Treasurer of Western Australia and Pro Chancellor of the Western Australian University, visited the steam generating heavy water reactor at Winfrith last month. They were met by Dr. J

E. R. Holmes and Mr. J. L. Phillips, assistant directors.

INSURANCES **Competitive Motor** Rates with leading Companies of repute. Personal attention.

> LEONARD POLLARD. INSURANCE BROKER. 36, BRYAN ROAD, BLACKPOOL, LANCS. Tel. 33703

JEWELLERY AND WATCHES 20%-25% DISCOUNT—TO ALL STAFF
DIAMOND ENGAGEMENT RINGS, GOLD-Wedding an

Signet Rings. GOLD & SILVER-Cigarette cases, Powder Boxes, Bracelets, N Charms, Brooches, Earclips, Links. SILVER & E.P.N.S.-Teasets, etc. Remode Repairs to all Jewellery and Watch Repairs.

10%-20% DISCOUNT—TO ALL STAFF PERSONNEL on all Branded Goods-ALL SWISS WATCHES, Clocks, Cutled Pens, Lighters, etc. and on Second-hand Jawellery.

GEORGES & CO. OF HATTON GARDEN

(Entrance in Greville Street only)
88/90 HATTON GARDEN E.C.I. 01-405 0700/6431
SHOWROOM OPEN—WEEKDAYS 9-6, SATURDAYS 9-12
Special attention to orders by post or 'phone

Bishop stops for a chat



THE BISHOP OF CARLISLE, the Rt. Rev. C. S. Bulley, chatted to employees at Windscale after he had celebrated holy communion there, helped by the Vicar of Calderbridge, the Rev.

The bishop was the guest of the Windscale and Calder Christian Fellowship, which meets weekly and arranges a celebration of holy communion once a

Pictured with the bishor (centre) are (from the left) Mr. P. Holland, who is leader of the fellowship; Mr. Johnson, Mr. L. Adamson, of Windscale's Technical Section and Mr. J. R. Hall,

cribbage champion of the London Office Recreation Association. In the final of the contest last month he beat office assistant Jock pictured with him. And on the way to the final he had already defeated F. C. Marshall, of Office Services; D. A. Robinson, of the Health and Safety Branch, and Mrs. Julie Perryman, of the Travel Section.

LONDON Office chauffeur

Bert Webb (right) is the

Jock Rougvie beat C. F. Blackman, of the Benevolent Fund Office, in the semi-final, after defeating darts champion Mrs. Pat Morgan and D. Levey, of Commercial Policy, in earlier rounds.

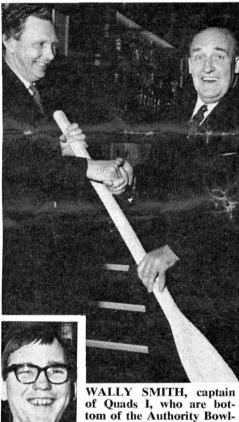
The final was played during the first of a new series of socials arranged by LORA.

These are the winners as ...



WINNERS of the Authority Bowling League at Aldermaston are the Piccolos, who are (from the left) Steven Gee, Mick Willoughby, Wally Cowtan and Malcolm Chalker. Steven's brother, Graham, now in the Far East, sent a cable congratulating the team he

AN EX-CAPTAIN CABLES GOOD LUCK FOR THE PRIZE NIGHT



ing League at Aldermaston, receives a giant wooden spoon from the editor of Atom News, Derek G. Gomer. The spoon was made by Lawrence Proctor, member of the rival Costodians team, who were second in the league.

A CABLE from a tanker somewhere in the Pacific brought good wishes and congratulations to winners of the Authority Bowling League at Aldermaston when prizes were presented last month. It was sent by former league player Graham Gee, now an engineer on Shell tankers in the Far East and former captain of the team that won the league— Piccolos I.

Until he joined Shell on February 1 Graham was a keen bowler in the league.

Brother there

Now his brother Steven is a member of the Piccolos, with Mick Willoughby, Wally Cowtan and Malcolm Chalker.

The Piccolos used to be a family team. Les Gee, secretary of the league was once the captain, but he left to form a new team, Piccolos

Second in the league this year are the Costodians, with the Bee-Js third.

The knock-out cup was won by Quads II, but Quads I collected the wooden spoon at the bottom of the league.

Highest game

Quads II also took the prize for the highest game score, and the highest series prize went to the Electrons.

Individual winners — men's high average, Barry Jacobs; ladies' high average, Mrs. Jean Sutherland; Men's high series, Fred Lee; ladies' high series, Mrs. Joyce Warburton.

The trophies were presented at the Dog and Partridge at Riseley, Berks, by the editor of Atom News, Derek G. Gomer.

SWANS JUST ONE POINT UP

HARWELL archers were runners up in the ICI open contest held at Slough, Bucks. They were beaten 3,630-3,629 by Swan Archers, of

Harwell's John Long was the second gent in the Western round and Jean Long missed the third lady's prize by one point.

NEW TEAM

A NEWLY formed darts section in Harwell's Social Club has applied to join the Didcot and District Darts League and may enter two teams.

His rifle has not changed

MR. N. L. ANDREWS. who has just won his first national trophy in 32 years of rifle shooting, is this year's cap-tain of Winfrith's A team which competes in the Dorset

But Mr. Andrews is no newcomer to the prize lists. In those 32 years he has won 30 cups and trophies, 31 silver spoons and 27 medals. And he was many times Berkshire county champion.

He is still using the same rifle that won him his first

ALEC IN GOLF CLIFF-HANGER

A 36-HOLE contest for the Morland cup was won by Harwell golfer Alec Coulson after a tense five-hole play off with two other competi-

Alec was an early starter and waited most of the day to know whether his score had been bettered.

They run club

ANNUAL meeting of Harwell's motor club elected G. Warrall as chairman with T. Paget vice-chairman. Secretary is R. Shepherd and treasurer J. Isaacs. C. Walters is competition secretary.

Close end to golf

ALMOST all the leading players in the Authority golf championship at St. Andrews, Fife, on June 17, were separated by just one stroke.

Play between 73 competitors from eight establishments was over 36 holes, and Dounreay and Harwell were tying until the last Risley man, T. Dale, came in with a net 62 to give his team victory . . . by one stroke.

The Risley team scored 594, with Dounreay and Harwell both on 595.

Chapelcross were only three points further behind with 598.

D. Currie, from Chapelcross, was the winner of the individual scratch champion-ship, beating Risley's R. Campbell . . . by one stroke.

Handicaps

Best player with a handicap under 12 was Aldermaston's G. McKenzie, who returned 140, also one stroke better than the runner-up, Harwell's

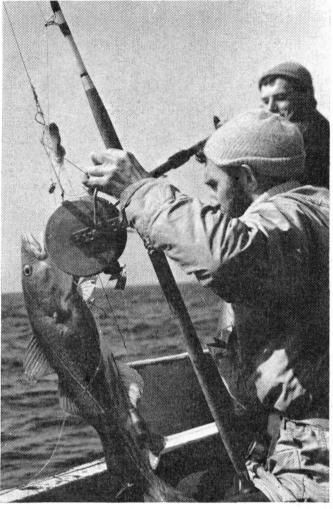
B. H. Patrick.

Dale was the best player with a handicap between 12 and 18, returning 139 to the 140 of A. R. Imlach, of Dounreay.

Each competitor played one round on the old course at St. Andrews and one on the Eden course. J. A. S. Mowat, from Springfields, was best on the old course with a net 70. Runner-up A. Lunney, from Harwell, re-Lunney, from Harwell, returned 71.

Best round the Eden course was Dounreay's A. Proudler who, with runner-up J. Niven, also from Dounreay, returned

HALIBUT CLUB MAN LANDS A COD



WALTER LACEY, of the Dounreay fast reactor, who is a member of the steering committee which is launching the new Halibut Club of Great Britain, lands a 10-pound cod during one of the monthly trips made by Caithness Sea Angling Association on the Annabelle for fishing in the Pentland Firth. Jack Johnstone, of Dounreay's Engineering Division, is ready with the gaff in the background. Walter is chairman of the Caithness association.

Dounreay men lead new club

JOHN CAMPBELL, of Dounreay's Administration Division, is secretary and treasurer of the new Halibut Club of Great Britain. And six other Dounreay men are on the club's steering committee.

WAITING FOR CUPS



TWENTY - TWO young footballers at Springfields have been waiting impatiently to collect two cups. The two youth teams in the soccer section of the Springfields Sport and Recreational Association ended last season as winners of the Preston and District Football Association Youth League cup and the local Redmayne cup.

The teams, formed three years ago, include several Springfields apprentices as well as sons of Springfields employees.

After the boys had topped the Youth League contest without losing a game and by scoring 83 goals in reply to the nine scored against them, an

extra youth team was formed, and both A and B teams entered for the Red-

They both fought through to the semi-final and the match between them was one of the keenest of the season. The Bs made the As play hard for their 2-0 entry to the final.

Then A conquered their opponents from the British Aircraft Corporation by six

goals to two.
IN THE PICTURE: **Springfields** apprentice members of the teams include (from the left, back row) Jack Smith, John De Santi, Dave Caley, Hadyn Dewitt and (front row) Mervyn Lewis and Peter Wilson.

More halibut are caught in the sea around Caithness than in any other part of Britain and the Caithness Sea Angling Association have helped to form the new club.

The Caithness halibut festival, which is expected to attract entries from all over the world, is scheduled for October 3 and 4. And in April the first British halibut championships are planned.

The new club is sworn to develop the big game sport of angling for halibut in the area of the Pentland Firth, to exchange information on the techniques of the sport and to circulate known information on angling for halibut as widely as possible. Its headquarters will be in Caithness.

Island invite

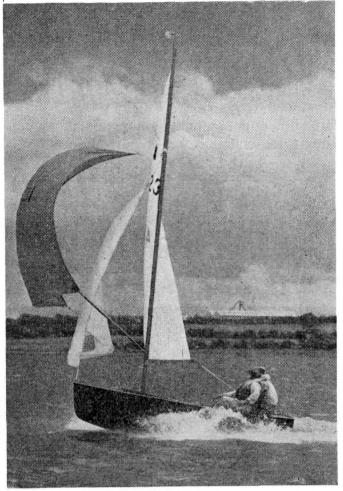
Orkney Sea Angling Club are being invited to join in the first British championships which are likely to be fished from both sides of the

Authority employees are also being invited to take part by John Campbell.

Dounreay men on the steering committee are Police Sergeant Duncan Speirs, Jimmy Mackay and Walter Lacey, of the Dounreay fast reactor, Eddie Beatie, a painting contractor working at Dounreay, Jimmy Pratt and Jimmy Anderson, both of Dounreay's Electrical Sec-

ATOM SPORT NEWS

Win in the north-east



DRAMA IN CLOSING OVERS

WHEN Harwell cricketers entertained local rivals Moreton, the home team put up 100 runs for one wicket in 70 minutes.

Then, after a partial collapse, J. Dawson added 53 in 18 minutes.

In reply to Harwell's 187 for 7 declared, Moreton had made 43 for 3, but H. Marriott made victory possible in a long, controlled innings in which he was partnered by M. Underwood.

Everything depended on the closing seconds of the game . . . and Moreton won by three wickets.

F. T. COOPER, of Inspection and Progress at Risley, won the north-eastern championships for GP racing dingies at the new Derwent reservoir in County Durham last month.

A week later he was second in the GP northwestern championship at Leigh, Lancs.

Mr. Cooper is a member of the Lowton Sailing Club and has been racing for about 12 years. So far this year he has collected four firsts at open meetings.

He is pictured at Leigh with his wife as crew.

Lunch base

ROUNDERS and baseball may become lunch-time games at Harwell. Miss M. Breasley is trying to form teams there.

Two Mikes fight for golf bowl

HARWELL'S two Mikes—Powell and Waterman—won the British Golf Society's championship for the Ashdown bowl at the Royal Ashdown new course in Sussex.

The Harwell pair looked like running away from the Mocatra Golfing Society when they stood four up after ten holes of the 18-hole final.

But their opponents made birdies on the 12th and 13th holes to reduce the deficit to two, and only a par-saving eight-foot putt by Powell for a half at the short 16th preserved that lead.

A half in par-five at the 17th gave Harwell a two and one victory.

Husband and wife take top prizes

CULHAM Archers' sixth annual western tournament held at the laboratory last month attracted a record entry of 94 archers.

Harwell's Pedro Taylor and his wife Margaret both won first prizes and, with fellow team members Dave Goodenough and Ken Archer, took the team trophy, too.

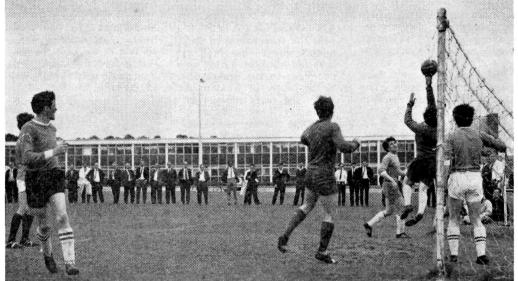
Dave Goodenough was second in the men's individual contest.

Master A. Long, also from Harwell, won the junior competition.

. . . again

HARWELL'S Margaret Taylor was the lady with the highest score in an intercounties archery match between Berkshire, Middlesex and Surrey. On the same day her husband Pedro had the highest gents' score of 713—a new Berkshire record—at a meeting at Thame, Oxon.

Culham lose trophy



EVEN spirited saves by R. Jenkins failed to save the game for the team from Building D1 in the final of Culham's annual sixa-side soccer competition. The winners were a team from one of Culham's contractors,

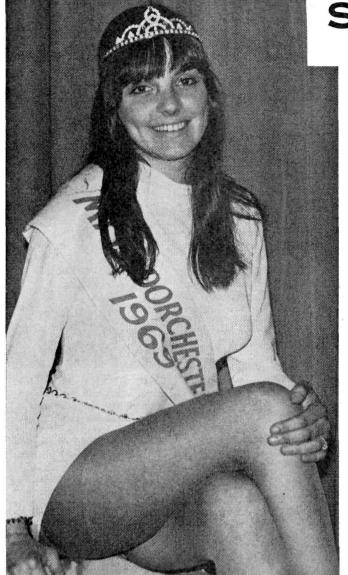
"It was a bitter pill for the Authority players," said a spokesman. "They had to

be content with runners-up medals."

The final score of 2-1 reflects the run of a game in which Whites always had the edge.

The trophy and medals were presented by Mr. E. K. Skinton, chairman of the local Wantage Town football club.

The queen had a secret



WINFRITH clerical assistant, 16-year-old Ann Collier (left), who lives in Dorchester, was elected Miss Dorchester 1969 at a "Beauty and Beat" evening in the local Corn Exchange.

She entered the contest without telling her boyfriend. "I shall have some explaining to do later on," she told a reporter as she was crowned by the Mayoress of Dorchester, Mrs. J. Matthews.

The following evening
Ann led the carnival-week
procession through the
town. It told the story of
Dorchester through the
ages and included a float
(below) built by Winfrith's
apprentices mocking the
negotiations between the
Authority and Greece
for the sale of a steam
generating heavy water
reactor in return for Greek
tobacco.

A model of the reactor was enclosed in a mock-up of the Parthenon and surrounded by empty cigarette packets.

The float had already taken second prize in the carnival at nearby Wool.

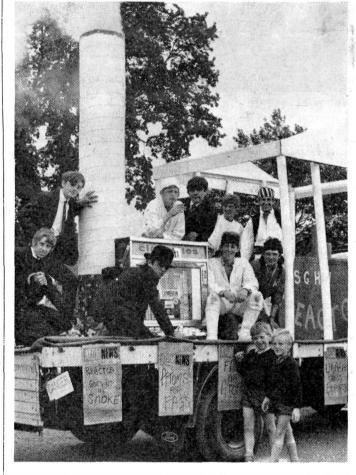
Pistol contest too big?

THE BERKSHIRE county full-bore Rifle and Pistol Association's annual pistol meeting on Harwell Rifle Club's range at the old Grove Airfield may have to be extended from one day to two.

The meeting, held last month, was open to club members from Berkshire, Buckinghamshire and Oxfordshire and attracted 39 entries—more than half as many again as in 1968.

Harwell's Dave Johnson, secretary for the meeting, told reporters: "If members increase like this we shall have to consider spreading the event over two days, but it is pleasing to get so many entries."

Peter McPherson, of Harwell, who took second place in the county .22 pistol event a week earlier, was second again at Grove, but he won the self-handicap contest.



Committee will fight for Dounreay

A PLAN to set up a Dounreay vigilantes committee pledged to do everything possible to maintain the largest possible labour force at Dounreay has been approved by Thurso Town Council.

They are asking Caithness County Council and Wick Town Council to join in the plan.

The new committee will also put pressure on Government departments to move new industries to the area to provide jobs for any people who are made redundant at Dounreay.

The idea was proposed by Thurso town treasurer William Swanson.

Gone for ever

"Once we lose our labour force it will have gone from the area," he said. The new committee would have to remind the Government that the Government's decision to site the Dounreay reactor where it is had caused imbalance in available jobs.

After 40 cars and buses had been used to take 180

members of the Amalgamated Engineering and Foundry Workers Union from Dounreay to Reay village hall for a union meeting, Danny Kerr, chairman of the Dounreay Shop Stewards Committee, told reporters that employees were "quite worried and concerned" about the "continuing prospect of a run-down at the establishment".

Mr. Kerr, who was the convenor of the meeting, said it had agreed to press for the introduction of an incentive bonus scheme.

Ronald Burton is chess champion

RONALD BURTON, son of Mr. R. J. Burton of the stores at Winfrith, won the minor championship in the **Dorset County Chess Asso**ciation's spring congress, held at Winfrith.

This was the fifth time since 1964 that the congress has been held there under arrangements made by Winfrith's own chess club, Winfrith's Director.



Mr. D. W. Fry, is pictured starting it with a ceremonial first move.

Mr. C. Durston, of the Physics Reactor Division, was the controller for a second year.

Twenty-six people took

The main championship was won by Mr. R. H. K. Mann, of nearby Wareham. A Southampton man, Mr. I. Stenhouse, won the re-serve championship.

DRAMA **CLUB** AGED IN A NIGHT

THIS YEAR is not the 21st birthday of Harwell's drama society. It is the 23rd.

Members thought the society might be 21 this year after they hunted for old records and talked to some of the earlier mem-

The evidence suggested that there was a drama group at Harwell within a couple of years of the Atomic Energy Establishment being set up, the society's chairman, Alan R. Ball, told Atom News last

"Almost overnight I was given a programme and photograph of a play, Murder Without Crime, produced in 1953," he said later.

Inception

"I was shown a 1953 issue of Harlequin, the Harwell quarterly magazine, containing an article by S. J. Cocking, then chairman, referring to the society's inception in 1946.

"I also received a letter from Miss M. Gossett, the Harwell librarian who has now retired, with snippets of information relating to the society's first production in 1947. This was Jane Steps

advertisement volume 1, number 1 of AERE News is undoubtedly the earliest written record. It refers to 'the next play-reading of the drama group' on November 26, 1946.

"With our origin back in the summer or autumn of 1946 we must be one of the oldest, if not the oldest, society in Harwell's recreational association.'

> PLAY IN ABBEY RUINS

HENRY WAS ONE OF THE **FIRST**



MR. HENRY MONTEY, who died last month, was one of the original staff of the Radiochemical Centre at Amersham.

Aged 55, he had worked there for 29 years without a break.

A bachelor of science, he started work as part of the laboratory team and at the time of his death he was in charge of the dispensary in the Inorganic Department.

He was interested in photography and tennis and in 1952 was one of the founders of the Methodist Church at Little Chalfont, near the Radiochemical Centre. He was also the

church's organist.

Mr. Montey leaves a widow and one daughter.

CIGARETTE STARTS FIRE

A LIGHTED cigarette-end thrown into a bag of used paper towels in a Harwell toilet started a fire which scorched a newly painted wall before it was put out. The date: Friday the 13th.

"This is not by any means the first fire caused in this way by thoughtless smokers,' said a Harwell spokesman.



FOURTEEN Authority employees joined the Berkshire Shakespeare Players for their production of Shakespeare's Richard III under floodlights in the ruins of Reading Abbey last month. Most of them were members of Aldermaston's Boundary

Reading Abbey was already 350 years old when Richard III became king. Shakespeare's version of his life was produced by Peter Todd.

Among the members of the Boundary

Players taking part were (from the left, standing) Walter Long, Leslie Aburrow, Michael Brooke, Andrea Brooke, Alan Wilding, Norman Hughes, Jean McKeown, Paul McKeown and Kit Burgess.

In the centre of the group in front is producer Peter Todd with (left) Joan Cadman and (right) Elizabeth Utley and Ann Cameron.

Also taking part in the play was Charles Owen, of the Welfare Section at Alder-

RUNWAY PLAN: 'WE'LL LISTEN'

- SAY AIRLINE

THE AUTHORITY and British European Airways have agreed to consider a plan put up by Thurso Trades Council that Dounreay should provide an alternative landing strip for BEA services when bad weather closes nearby Wick Airport.

"We feel that, if this area is to develop at all, an alternative airport is essential," said Mr. James Fry, a Dounreay fitter who is chairman of the Trades Council.

"We know from our own experience that it is very frustrating flying up from Inverness and finding that heavy mist over Wick prevents a landing and then perhaps going over to Kirkwall, in the Orkneys, or back to Inverness.

"The east coast has misty conditions a lot more than the north and north-west.'

A trades council suggestion to use Castletown, east of Thurso, was rejected because the landing strip there is in bad condition and there are no fire-fighting or emergency

Naval base

Dounreay was built on a war-time Naval air station and its 3,000-foot concrete runway is still used occasionally by aircraft on Authority business. The Authority has fire engines and ambulances on the site.

A Dounreay spokesman said: "It is difficult to say at first glance whether we would have the facilities BEA expect. We would certainly consider the matter."

In Glasgow, BEA said:
"We would certainly lister

to such a proposal. An alternative airfield in bad weather is always useful if it is up to the standard we require.

But the airline spokesman doubted if Wick was closed often enough to make it worthwhile to bring the Dounreay airstrip up to normal civil aviation standards.

COMING SOON-No 500

BY THE END of the year 479 nuclear reactors will be working in countries which are members of the Interna-Atomic Energy Agency, says an agency sur-

But only 105 of them generate electricity other 374 are for research and training.

The power reactors are responsible for 20,000 megawatts of electricity.

They are spread between 15 countries and 48 have research or training reactors.

The agency estimates that by 1975 there will be 283 power reactors in 21 countries, generating nearly 130,000 megawatts of electricity.

Meanwhile, on the runway itself . . .

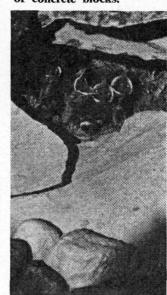


in the foreground of the picture above-has built a nest and has been sitting on two eggs in the gravel pit in the centre of what used to be the main runway at Dounreay. Cars and buses, using the runway as one of the site's main roads, pass constantly either side of the bird. But she remained undisturbed.

And-on the right-six chicks have been hatched by a pied wagtail on the edge of an excavation on the prototype fast reactor site at Dounreay.

Men working for Alex

Sutherland Ltd., the contractors, are building within six feet of the nest. To protect it and the small birds they built a foot-high wall



OFF TO A GOOD START

FIRST VENTURE at the new Salwick Club, Springfields—a dance and cabaret featuring the Nolan Family singing actwas a sell-out with 300 members filling the club on a normally quiet Tuesday night.

The club replaces converted wartime huts which have now

been demolished.

NEWS special

THIS GREAT **ERA OF THE SIGNIFICANT ATOM**

NUCLEAR energy will prove to be the most significant of all the developments in the sources of power used by man, Mr. Anthony Wedgwood Benn, Minister of Technology, said last month when he formally opened the nuclear power station at Oldbury-on-Severn.

"Human history is sometimes classified by the sources of power used by man at various stages of his progress,"

he said.

which prospects.

on our planet.

secrets of nature.

this planet.

ments.

ploughshares.

fast reactor.

"The age of sail broke

down the isolation of con-

tinents and witnessed the great voyages of discovery

"The age of steam marked

"The advent of electrical power has permitted the invention of machines which, over the past few decades, have revolutionised our conditions of life and our ability further to explore the

"The jet age has ushered in a revolution in transport by air, land and sea, and rocket power is now enabling man to escape the confines of

Most of all "But for the majority of mankind the advent of nuclear energy will certainly

prove to be the most significant of all these develop-

nuclear power in Britain in

the last few years has been

one of the most remarkable

achievements in our history.

It is perhaps the most vivid

example ever of the princi-

ple of beating swords into

Leading part

a leading part in the advance

of nuclear technology with

gas-cooled reactors, with the steam-generating heavy

water reactor and with the

the research and develop-

ment work of the Central

Electricity Generating Board,

the Atomic Energy Authority

and the nuclear consortia

have put us in a very strong position to meet the country's

future demand for economic

electric power from the

"There is no doubt that

"This country is playing

development

transformed man's

the beginning of the great period of industrialisation

Duke's gold for a DJ



TWENTY - YEAR - OLD John Waring, an instrument mechanic in the fifth year of his apprenticeship at Capenhurst, has been given a Duke of Edinburgh gold award.

It follows six months of work as a disc jockey on a hospital radio service and an award of merit from the Royal Life Saving Society.

John is already a member of the National Boys Club—the highest honour awarded after a week of extensive training and test-

As part of his work for the gold award, John trekked 60 miles across unfamiliar country, made his own fishing rod and spent four weeks at a boys' camp working as an assistant leader.

RADIO LINK

PRECISION fitter at Aldermaston, Mr. S. E. Sarjeant has retired. Colleagues gave him a portable radio set as a memento of his 13 years there.

carry 500 passengers and 50 tons of cargo at an average speed of about 220 miles an less.

It would take almost 17 hours to cross the Atlantic, but passengers would be

aircraft cannot provide.

Early airships presented a serious fire danger, said experts. The modern version would be made of fireproof plastic and filled with helium to keep it airborne. It would cost almost £16 million to

In Britain, Mr. J. P. W. Mallalieu, Minister of State for Technology, told the some nostalgic regret" that he could not consider building nuclear-powered airships.

"The commercial prospects

whether the Government would consider a joint Anglo-German study and a possible construction gramme

PATHFINDERS ARE REMEMBERED AS



HELICOPTERS SWOOP LOW OVER HARWELL

FOUR Wessex helicopters from the RAF station at Odiham, Hants, flew low over the line of the old runway at Harwell last month at the end of a service held in memory of men of the 6th Airborne Division who took off on June 5, 1944, the eve of D-day.

The Pathfinder teams who left what was then RAF Harwell were launching Britain's invasion of Europe.

The helicopters flew over the stone memorial and garden where a service is held every year. Air Vice-Marshal Harold Martin, Air Officer Commanding No. 38 Group of Air Support Command, took the salute from a guard of honour supplied by the RAF Regiment. Among those who laid wreaths at the memorial was Mr. Billy Griffiths, secretary of the MCC and a former glider pilot.

The service was conducted by the Rev. V. J. E. Boatwright, of RAF Abingdon, and the Rev. E. C. Atkins, Vicar of Harwell.

Dr. Walter Marshall, Harwell's Director (pictured below with the guard of honour), promised: "I would like to renew the pledge given by Sir John Cockcroft at the first service in 1955 that this stone of remembrance will be maintained in perpetuity.

We are honoured to be charged with this continuing act of remembrance."



More calibration work planned

THE mechanical standards laboratories at Harwell and Winfrith have been authorised by the British Calibration Services to issue certificates for the calibration of mechanical measuring equipment.

They will form part of a national network sponsored by the Ministry of Technology to provide a calibration service to industry.

Tumblers go to Scotland

MR. BILL GUNN, of Aldermaston, who has been attached to the Ministry of Health for the last two years, has been appointed to a job in the Scottish Home and Health Department.

With him, as gifts from Aldermaston colleagues, he took a stainlesss steel soda syphon and cut glass whisky tumblers.

The laboratory at Harwell where the instrument test laboratory already issues BCS certificates for electrical instruments-will carry out tests on measuring instru-ments, gauges and tools.

It is planning to provide a prompt service so that valuable equipment need not be out of use for long

At Winfrith measurements will be made of size and form on gauges and precision assemblies, said a spokes-

MUG FOR **B-TEST MAN**

MR. BRIAN WILLMORE, who has been working on gas chromatography breathalyser system presented with a pewter mug when he left Aldermaston.

Brian has been captain of an Aldermaston skittles team, the Lurchers.

Transport man

MR. CHARLIE ROGER-SON, a member of Harwell's Transport Section for 20 years, has died.

Culham death

MR. K. I. MOLYNEAUX, of the Site Services Division at Culham, died on June 10.

WHEREVER

you

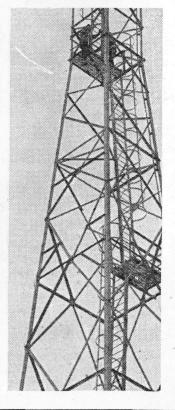
work

NEWS

can be posted to you for 6s a year

ATOM

WRITE TO Circulation Manager, Room 124, 11 Charles II St., London, S.W.1



GERMANS P offered comforts that present Electric Company of Ame-

PLANS to build a nuclearpowered airship have been announced in Germany.

A shipyard at Luebeck said it had taken an option on the design of an Austrian engineer, Erich von Veress for "an airship of the future".

It will build it if preliminary studies are favourable.

The yard says it is negotiating with the General rica to build a reactor to provide power.

Slow comfort

an airship could hour for distances which are described as "almost limit-

House of Commons "with

do not justify public expenditure," he told Mr. Raymond Fletcher, Labour Member of Parliament for Ilkeston, Derbyshire.

Mr. Fletcher had asked

A KNIGHTHOOD FOR THE CHAIRMAN

AUTHORITY Chairman Dr. John Hill receives a knighthood in the Queen's Birthday Honours, announced last month. And Dr. W. P. Grove, who has been Director of the Radiochemical Centre at Amersham ever since it opened, becomes a Commander of the Order of the British Empire.

Sir John, who is 48, is a former RAF officer and has been Chairman of the Authority since October 11, 1967. When he was appointed, the Ministry of Technology described his career with the Authority as "outstanding"

'Impressive'

He was appointed Member for Production in 1964 with direct responsibility for the Authority's Production Group. "For some years past the Production Group has had an impressive record of improvement in productivity and manpower utilisation, as well as a growing international standing as a supplier and processor of nuclear fuels," said the Ministry.

Dr. Grove, who is 55,

joined Thorium Limited in 1940 to start a laboratory at Amersham to refine radium for wartime needs. The laboratory became the Radiochemical Centre in 1946, first under the Ministry of Supply and later as part of the Authority.

A justice of the peace and

A justice of the peace and a governor of several local schools and Slough College.

Professor Brian Flowers, Chairman of the Science Research Council since 1967, was also knighted. Sir Brian became head of the Theoretical Physics Division at Harwell in 1952 when he was 27. Six years later he was Harwell's chief research scientist.

Senior Superintendent in the Chemistry Division at Aldermaston, **Dr. Frank Morgan** becomes an Officer of the British Empire Order (OBE). Two years ago he headed the team—believed to be the first in Britain—who set out to probe the causes of fires which do £80 million worth of damage in Britain each year.

Working for the Home Office, they hoped to "take a long cool detached scientific look at a mass of evidence and see if there is anything helpful that can be got out of

Two Authority employees become Members of the British Empire Order (MBE). They are **Dr. K. G. Eickhoff**, Research Manager in the Reactor Engineering Laboratory at Risley, and **Mr. A. S. Davidson**, Works Manager for Chemical Separation at Windscale.

Dr. Eickhoff joined the Research and Development Branch of the Authority at Capenhurst in 1955 and did development work for the Dounreay fast reactor.

In 1961 he moved to Risley to join the newly formed Reactor Engineering Laboratory and has been responsible for the development of mechanical components for

sodium-cooled fast reactors. He enjoys camping and fell

walking.

Mr. Davidson, a Scot, joined the Authority at Windscale in 1950. Earlier he was a squadron leader in the RAF.

Chemical work

His work for the Authority has been entirely associated with major chemical plants and he was responsible for commissioning the first primary separation plant, the associated plutonium purification plants, and lately he has been in charge of starting the new separation plant at Windscale. It is recognised as one of the premier nuclear reprocessing plants in the world.

Now he is in charge of commissioning the fuel element plant at Windscale which will provide the initial fuel charge for the fast reactor at Dounreay, and also the other reprocessing plants which will deal with new nuclear fuels.

Mr. Davidson is a keen sailor with the Windscale Boat Club.

A canteen supervisor at Springfields, Miss Ruth Butler, has been awarded the British Empire Medal. In 22 years she has served or supervised more than two million meals. She was one of the original employees and has never had a day off for sickness, said a works spokesman.



KNIGHTED in the Queen's Birthday Honours, Authority Chairman Sir John Hill is pictured above. Honours also went to (from the left) Dr. W. P. Grove, Professor Brian Flowers, Dr. Frank Morgan, Dr. K. G. Eickhoff, Mr. A. S. Davidson and Miss Ruth Butler.













Finns are thinking of Russian A-power

FINLAND has re-opened negotiations with Russia about buying her first nuclear power station, plans for which have twice been shelved.

But official Finnish spokesmen denied to reporters in Helsinki that the talks with Russia meant that a decision would be made to buy a Russian reactor.

They have insisted that all they have done so far is to "open meaningful negotiations" about delivery conditions, price and the suitability of what Russia has to offer.

Twice before, Finland has invited tenders for the power station

Rejected

The first British bid was rejected before the project was shelved for the first time. The second tender—for a station which would generate 500 megawatts of electricity—was recommended by the state-owned power company Imatran Voima. It was said to be "substantially ahead" of the rival bids from Sweden and Russia.

But, in a decision which was described by Authority Chairman Sir John Hill as "purely political", the Finnish Government decided to wait until 1975 before awarding the contract.

Since then, the Finns have been reported to be considering two power stations, one to be built by Russia, the other by Britain or Sweden.

LAB GIRL WEDS

HARWELL laboratory worker Miss Pamela Dibley married Mr. William Kinsella at nearby East Hendred last

Dorset pair try big double

CHANNEL SWIM IS ON AGAIN

WINFRITH apprentice Philip Gollop and his swimming colleague Mervyn Sharp, an apprentice motor mechanic in nearby Weymouth, planned to start their long delayed two-way swim across the English Channel and back on July 8.

The swim, originally scheduled for June 21, has already been postponed twice this year because weather and tides were not right.

Phil spent ten days at Dover last August waiting for the right combination of weather and tides before he was forced to give up.

The boys' coach Mr. Tom Watch, said that one party of swimmers waited for eight weeks at Dover and eventually went home disappointed when the weather failed to clear.

Phil has twice tried the non-stop two-way swim. In 1967 he was beaten by 20-mile-an-hour winds and 15-foot waves which kept him in the sea for 14 hours on the way to Calais from Dover.

In July last year it took him 18 hours against freak tides and currents. Each time he had to return to Dover by boat.

Odd times

"For a double swim you are looking for favourable tides and weather for something in the region of 48 hours," said Tom Watch.

"You only get the odd occasion when it does come right."

Phil has been hampered by a shortage of cash in his bid to make the double Channel crossing. The round trip for two boys is likely to cost £450. This pays for the two pilot boats they need as well as equipment, food and accommodation.

The boys also lack facilities for practice. There is no swimming pool in Weymouth and the nearest public swimming baths are at Yeovil, 38

miles away. But they have been using the Army's swimming pool at Bovington, 18 miles from Weymouth.

Some of the best times for the double crossing come in June, according to Tom Watch. But the boys can seldom think of making their attempt then because they have no opportunity to get early practice in swimming pools

One of their practice swims took them from Swanage to Weymouth along the Dorset coast on what may be the first-ever swim between the towns.

For weeks beforehand they studied tides, winds and currents for what many swimmers think is the trickiest trip in English coastal waters.

Luck

"The coastguard wished us the best of luck," said Philip, "and added that he did not think we would do it.

"The conditions were perfect and I felt a hundred times better than usual because of that. Everything went exactly according to plan. I don't know if it could be done again, but I wouldn't



PHIL GOLLOP

mind making a regular swim of it."

And Mervyn and Philip have knocked almost 14 minutes off the record for the swim from Lulworth to Weymouth.

In the Fairway Buoy race at Exmouth, Devon, last month they finished together after swimming 4\frac{1}{4} miles, but Mervyn was awarded third place, nominally a tenth of a second ahead of Phil.

Nuclear ship plan goes to Whitehall

A PLAN to provide Britain with a fleet of nuclear-powered merchant ships over the next 10 month.

It is based on research by a development and planning group of Cammell Laird and Co. (Shipbuilders and Engineers) Ltd., of Birkenhead, Cheshire.

Talks about a British fleet of four nuclear ships were already going on between the Ministry of Technology, shipyards and shipowners.

They are discussing the possibility of four 40,000-ton

YUGOSLAV

SURVEYS

COMPLETED

nuclear power station is

likely to be built near Videm

The Yugoslav news agency

Tanjug reports from Ljubl-

that geological, hydrological

and meteorological investiga-

tions have been completed.

for the project. One suggests

a single unit to produce 340

megawatts of electricity, the

other would use two turbo-

generator units to produce

250 megawatts of electricity

There are two proposals

Sava River in

YUGOSLAVIA'S

iana, the capital of

the

container ships which might travel at 30 knots in the 1980s. They could be the fastest cargo ships in the world and they might run for five or seven years without refuelling.

Experts predict that Government money will have to be put into the project.

Ship men say that to keep up with foreign rivals Britain will need to have her first nuclear cargo ship at sea by 1975. Building would need to start in 1970 or 1971.

LATEST

WESTINGHOUSE IN SWEDEN

WESTINGHOUSE Electric International has formed a subsidiary in Sweden to make nuclear fuel assemblies for nuclear power stations using pressurised water reactors.

Printed by Twentieth Century Press (1912) Ltd., 8-13 New Inn Street, London, EC2, and published by the United Kingdom Atomic Energy Authority (Public Relations Branch), 11 Charles II Street, London, SW1. Telephone 01-930 6262.