



Attlee, at midnight, gives news that the war is over

PEACE ON EARTH

Japs reply: We have the honour to surrender
Mikado orders all forces to cease fire

TERMS ACCEPTED—AND
NO CONDITIONS

Cabinet and Imperial H.Q. to sign

JAPAN HAS SURRENDERED. HER UNCONDITIONAL ACCEPTANCE OF THE ALLIED TERMS WAS ANNOUNCED AT MIDNIGHT SIMULTANEOUSLY IN THE BIG FOUR CAPITALS. THE WORLD IS AT PEACE THIS MORNING AFTER NEARLY SIX YEARS.

TODAY AND
TOMORROW
ARE VJ
HOLIDAYS

MR ATTLEE, broadcasting at midnight, announced that today and tomorrow are to be Victory Holidays. After giving the terms of the Japanese surrender, he said: Let us recall that on December 7, 1941, Japan, whose onslaught China had already resisted for over four years, fell upon the U.S.A. and upon ourselves, who were so oppressed in our death struggles with Germany and Italy, taking full advantage of surprise and treachery. The Japanese forces quickly overran the territories of ourselves and our Allies in the Far East, and at one time it appeared as though these invaders would reach the mainland of Australia and advance into India. But the tide turned. With ever increasing speed the mighty forces of the United States and the British Commonwealth and Empire and other Allies were brought to bear.

'The rest is earned'

Their resistance has now everywhere been broken. At this time we should pay tribute to the men from this country and from the Dominions, from India, and the Colonies, to our fleets, armies, and air forces that have fought so well in the campaign against Japan.

Our gratitude goes out to all our splendid Allies, above all to the United States, without whose prodigious efforts this war in the East would still have many years to run.

We also think especially at this time of the prisoners in Japanese hands, of our friends in the Dominions, Australia, and New Zealand, in India and Burma, and in those Colonial territories upon whom the brunt of the Japanese attack fell.

We rejoice that these territories will soon be purged of the Japanese invader. Here at home you have earned rest from the unceasing efforts you have all borne without complaining through so many dark years.

Some must stay on

I have no doubt that throughout industry generally the Government lead in the matter of victory holidays will be followed and that tomorrow, Wednesday, and Thursday will everywhere be treated as days of holiday.

There are some who must necessarily remain at work on these days to maintain essential services, and I am sure they can be relied upon to carry on.

When we return to work on Friday morning we must turn again to the great tasks before us. But for the moment let all who can relax and enjoy themselves in the knowledge of work well done.

Peace has once again come to the world. Let us thank God for this great deliverance and His mercy. Long live the King.

Atomic bomb cruiser lost

WASHINGTON, Tuesday. — The U.S. Navy Department today announced the loss of the 9,950-ton cruiser Indianapolis. It was stated that on her last mission the cruiser carried essential atomic bomb material from San Francisco to Guam. The battleship delivered the cargo safely, and was lost shortly afterwards. — Reuter.

In Britain, today and tomorrow are VJ holidays. As the strokes of Big Ben died away in London, the Prime Minister, Mr Attlee, went to the microphone to announce: "The last of our enemies is laid low."

From Washington, President Truman announced that all Allied armed Forces have been ordered to suspend offensive action, and that General MacArthur had been appointed Supreme Commander to receive the surrender. The formal signing will be carried out as soon as possible.

This is the text of the Japanese reply:—

"With reference to the announcement of August 10 regarding the acceptance of the provisions of the Potsdam Declaration and the reply of the Governments of the United States, Great Britain, the Soviet Union, and China, sent by the Secretary of State Byrnes on the date of August 11, the Japanese Government has the honour to communicate to the Governments of the Four Powers as follows:—

"His Majesty the Emperor has issued an Imperial Rescript regarding the Jap acceptance of the provisions of the Potsdam Declaration.

"His Majesty the Emperor is prepared to ensure the signature of his Government and the Imperial General H.Q. of the necessary terms for the carrying out of the provisions of the Potsdam Declaration.

"His Majesty is also prepared to issue his command to his military, naval and air forces to ensure the control, wherever they are located, and that they will cease active operations and surrender their arms, and issue such other orders as may be required by the Supreme Commander of the Allied Forces in execution of the above-mentioned terms.

"Signed, Togo."

THE FIRST REAL SIGN

Said President Truman: "I deem this reply full acceptance of the Potsdam Declaration, which specifies the unconditional surrender of Japan."

The midnight announcements followed a day of unprecedented drama. There were several "false alarms"—which again caused America's chief cities to be strewn with torn-up paper as celebrations began.

First real sign came at 8.5 last night. The Jap Minister in Berne called at the Swiss Foreign Office.

Two minutes later he left, and the U.S. Minister arrived. At 8.10 he was handed Japan's reply to the Allies. It was radioed to Washington.

At 11.16 the reply was being considered at the White House by President Truman and Secretary of State James Byrnes.

The Japanese people had been told to stand by for the news of their country's surrender at midday, which is 4 a.m. British time.

While they waited, their cities, hit by 800 Super-Forts in 24 hours, still burned.

'Tears unchecked at Sublime Palace'

From C. V. R. THOMPSON: New York, Tuesday

AN apology from Emperor Hirohito to millions of subjects has been set up in type in newspaper offices throughout occupied Asia since early this evening.

It was radioed from Tokyo by the Japanese News Agency with instructions: "Hold until permission to publish is announced." That hour has arrived.

Now an astonishing event is promised. The Japanese News Agency has just announced: "His Imperial Majesty the Emperor will be graciously pleased to broadcast to the nation through the radio at 12.00 today (4 a.m. B.S.T.)."

TRUMAN: 'SO DIES FASCISM'

WASHINGTON, Wednesday morning. — President Truman said early today to cheering crowds which called him out from the White House:—

"This is a day when Fascism finally dies, as we always knew it would.

"This is a day for democracy. Now we are faced with the greatest task in our life—the task of ensuring peace. But I know we will do it, too."

Earlier, the President had read the text of the Japanese reply, grimly, and at great speed.

Then he broke into a smile, threw up his hands, and said: "That is all."

All Cabinet there

Nearly all his Cabinet were arrayed beside him behind the desk when more than 150 correspondents pressed into the room to attend the historic Press conference.

"Arrangements are now being made," said the President, "for the formal signing of the surrender terms at the earliest possible moment."

"General MacArthur has been appointed Supreme Allied Commander to receive the Japanese surrender."

"Britain, Russia, and China will be represented by high ranking officers."

"In the meantime the Allied armed forces have been ordered to suspend offensive action."

He called for a holiday with pay to be proclaimed tomorrow (Wednesday) and Thursday for all Government workers.

Describing them as "the hardest working—and perhaps the least appreciated—of war workers," he said: "On behalf of the nation I formally thank you."

Conscription cut

Then he announced the reduction of conscription into the Armed Services from 80,000 to 50,000 monthly. He said between 5,000,000 and 5,500,000 men will be demobilised in the next year to 18 months.

President Truman added: "It is too early to propose definite figures for the occupation forces which will be required in the Pacific 12 months from now, or what reduction it may be possible to make of the army force now allotted to occupation duties in Europe."

"It is apparent, however, we can release as many as can be brought home by the means available—by sea and air—during the next year."

—Reuter.

The terms they accept

HERE in brief are the Potsdam terms which Japan accepts: MILITARISM: The authority and influence of those who have misled the people into embarking on world conquest must be eliminated for all time.

OCCUPATION: Points in Japanese territory shall be occupied.

SOVEREIGNTY: Sovereignty shall be limited to the main home islands.

DEMILITARISATION: Military forces completely disbanded shall be allowed to return to their homes.

PUNISHMENT: Stern justice will be meted out to all war criminals, including those who have misled the people into embarking on world conquest.

ARMAMENTS: Japan shall not be allowed to maintain industries which will let her re-arm.

This is it

日本降伏

Japanese characters for: JAPAN (Nippon) SURRENDERS

Prisoners to speed home

From FRANK ROSTON

SUPREME H.Q., S.E.A.C., Tuesday.—Some of the thousands of British and Empire troops held prisoners by the Japs will return home as soon as our armies occupy Singapore and Malaya.

Only those too weak to travel who require further medical attention or mental rehabilitation will first be cared for in hospitals in India.

Plans have been made to drop medical supplies by parachute from air ambulances in the earlier stages and special diets will be provided for prisoners suffering from beri-beri and other diseases which were not encountered in Germany.

LORD LOUIS BACK

This is one of many problems to which the Supreme Commander, Lord Louis Mountbatten, gave immediate attention today when he returned from Potsdam and London.

It is emphasised that the British Services will be kept busy for eight or nine months after the surrender, and that the eventual peaceful entry into Japanese-held territory will absorb even more man-power than would have been required by the initial stages of a planned invasion.

Lieut.-General F. A. M. Browning, Mountbatten's Chief of Staff, said today that just as Burma is at present having all public services conducted by the Army, so would Malaya and other liberated areas until civil administrations could be restored.

Early repatriation of British troops will be impossible. For some time there will be even more urgent demands on shipping.

Australia has been asked what ships she can now spare to take home her prisoners.

Thanksgiving

An announcement of a national thanksgiving service will be made today.

The service will probably be held at St Paul's on Sunday. The King and Queen will attend.

Jap officials die

ALLAHABAD, Tuesday. — The mayor of Hiroshima and the Governor-General of Western Japan were killed in the recent atom bomb raid on Hiroshima, according to a Tokyo broadcast. — Exchange.

All the world waited for this—

Mr Kasi's chauffeur drives the black car

From ERNEST ASHWICK

BERNE, Tuesday.—For two days crowds of people in this little Swiss capital have watched a big black car with a Japanese chauffeur waiting to take the Japanese Minister from his legation to the Swiss Foreign Office with the reply from Tokyo.

Tonight just after eight Schunisch Kasi, the Minister, came out and the car moved off. Hundreds of Berne citizens lined the streets to watch it speed towards the Federal Government Palace.

Flunkey in green

Dapper Mr Kasi, flanked by his military attaché and first secretary, and preceded by a Swiss flunkey in pale green uniform, walked down long red-carpeted corridors to see Foreign Minister Peltier for a frigidly polite interview.

He handed over the document which puts to an end for ever the Japanese dream of a greater Asia empire.

Through the world waited, nothing could alter the slow, orderly exit of the flunkey.

Mr Kasi walked through lines of newspapermen from every victorious Allied nation.

They, too, had been waiting for two days, sitting about, strolling and chain-smoking.

The Japanese reply began to come over at Geneva radio station at 5 p.m. It took three hours to receive, decode, and check it for errors.

Early this morning there was a face as a.m. lights which had been burning all night in the Japanese legation were still on when Geneva radio began to buzz.

The Japs began to put out a statement of 20,000 words, which was not completed until mid-day.

Atmospherics

But it was not the surrender acceptance. Reception was bad and Geneva radio station probably had to get on to Tokyo and have passages repeated.

The messages are not "broadcast" in the ordinary way. They are beamed on a machine like a radio-typewriter.

They come at the receiving end in the original language typed on tape. Transmission is easily upset by atmospherics, especially over long distances.

Whole passages can be "jumped" or made unrecognisable.

All this caused delay. And, of course, Tokyo sent its message in code.

And after it all the mystery of Tokyo was still unsolved. Now, at last, tonight the waiting is to be over.

Attlee had to write two speeches

By GUY EDEN

EVEN the Cabinet was so uncertain last night of the exact position in the Far East that Mr Attlee was compelled to create a precedent by sending the King alternative drafts of the speech to be read from the throne at the state opening of Parliament this morning.

One—which the King will now use—expresses the "humble and solemn thanks" of the nation for the coming of peace. The other regretted that "the war continues."

The Government, in close consultation with the U.S., Soviet, and Chinese Governments, was determined that there should be no official announcement of peace until it was clear that the Japs had put themselves beyond any possibility of treachery.

Today both Houses will go to special services at Westminster Abbey and St Margaret's, Westminster, when they have heard the speech from the Throne, and then return to pass a vote of congratulation.

The King and Queen plan to go to the Houses of Parliament next Tuesday to receive these congratulations personally, and the King will make another speech in the presence of both Lords and Commons. In this, he will thank the whole nation for the victory they have helped to achieve.

Belgian Regent here

Prince Charles, Regent of Belgium, visited Buckingham Palace yesterday and had lunch with the King and Queen.

Thousands leave beds to celebrate in north

1 a.m. CROWDS BREAK INTO TOWN HALL

Express Staff Reporter

SEVEN THOUSAND revellers gathered in Albert-square, Manchester, just before one o'clock this morning, chanted: "Get the Lord Mayor up," broke down the iron gates in front of the town hall, and forced their way into the building.

The crowd had swollen rapidly from 12.30 when fewer than a thousand people had collected in the square.

Their calls for the Lord Mayor were led by a 14th Army

THE LAST BOMBS

Korea is nearly cut off

Express Staff Reporter

GUAM, Wednesday.—Big fleets of Super-Forts have been over Japan since dawn in what will now be the last raid of the war.

Their targets: Aircraft plants and oil refineries on Honshu, Tokyo's island.

So end 24 hours of ceaseless bombing by 800 Super-Forts and 200 others.

Japan's claimed suicide-plane hits on a carrier and cruiser of the Allied Fleet off Honshu, and said the attacks continued.

News from other fronts:— Marshal Malinovsky's troops, advancing more than 75 miles a day through Manchuria from the west, were barely 200 miles from the sea. Forces driving from the east were 150 miles from Harbin.

Japan's communications with Korea had been practically cut by the Red Fleet.

In Burma and Borneo the Japs were still fighting bitterly.

Britain will run Jap isle

From NEWELL ROGERS

NEW YORK, Tuesday. — Britain may be invited by Washington to occupy one of the four main islands of Japan.

The plan proposes that the United States, Britain, Russia, and China each occupy one island.

America would take over Honshu, larger than the three others put together and seat of Tokyo.

Presumably the Russians would occupy Hokkaido, the northernmost island since it adjoins Sakhalin and guards the approaches to Vladivostok.

Kyushu and Shikoku would be left for Britain and China. Of the two Kyushu is most populous.

Greatest all clear

The Daily Express Staff Reporter in Liverpool telephoned this morning:—

Sirens of 200 ships in Liverpool Docks brought the 2,000,000 people of Merseyside from their beds. They heard the greatest all-clear this battered port has ever known.

From ocean people like the three-funnelled liner Monarch of Bermuda to little Mersey tugs and cranes like the Movies and Hercules came a background of sound which crescendoed as rockets, fireworks, war factory hooters, and singing crowds added their quota.

Crowds of revellers danced, sang, and cheered, waving flags and firework hand-torches and flares, from Lime-street, centre of Liverpool's night life, to Albert-square.

BACK PAGE, COL. THREE



Please return BRYLCREEM bottles when empty

There is an acute shortage of bottles. So if you will return the empties to the shop where you get your Brylcreem it will help us to keep up supplies.

THANK YOU!

Compt. Perfumery Co., Ltd., 17-19, Strand, London, W.1

It meant that men sitting in Britain aimed bombs at the Ruhr... It meant that Scharnhorst was stalked and seen 20 miles away... It means that never again can Britain be taken by surprise

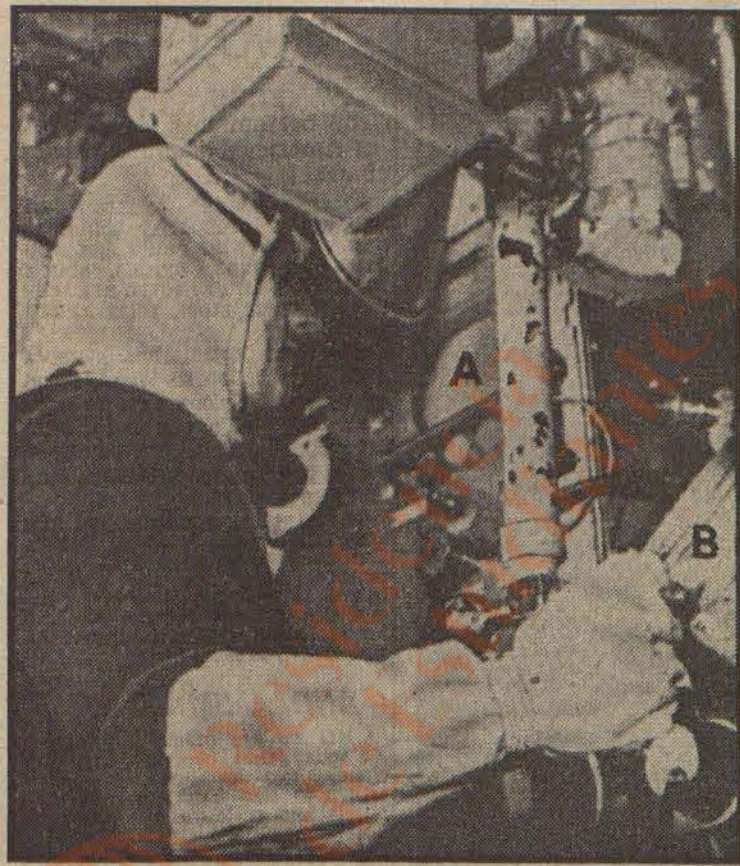
1933

THE

STORY OF

RADAR IS TOLD

1945



RADAR AT SEA. An operator at action station in a British convoy escort. He passes the range (from the fluorescent screen A) and bearing (from the cylindrical box B) through a voice-pipe to the bridge.

Food: Sir Ben has no new policy

Express Food Reporter

SIR BEN SMITH, former Resident Minister in Washington, now first Socialist Minister of Food in Britain, yesterday revealed himself as an entirely new type of food administrator.

He announced his intention of looking after the "stomachs of everybody in the community."

That won't stop him cracking a joke against a pal, nor enjoying one against himself.

Sir Ben is the first Food Minister I have known to wear a soft collar.

About 5ft. 10in. tall, weighing at a guess a bit over 14 stones, Sir Ben wears glasses to read his notes, takes them off and waves them in the air to emphasise an argument.

NO MORE YET

Yesterday he sat between his two lieutenants, Sir Henry French, Permanent Secretary, cool, imperturbable, always ready with advice and direction, and Dr. Edith Summerskill, Parliamentary Secretary, tall, svelter dressed in black.

The new Minister made no new pronouncement of policy. He confirmed the regulation of ice-cream prices (Daily Express yesterday) and said frankly that he saw no prospect of improvement in rations immediately.

The ration cuts made by Colonel Llewellyn were inevitable. He pledged himself to restore them as soon as possible.

Economies in the use of sugar will be necessary, but the domestic ration of half a pound a week will not be cut. There will be more tomatoes and more oranges quite soon.

There will be more fish soon. The milk allowance will not be less than last year—it may be more.

Those were the only promises.

FIRE BRIGADE CHIEF JAILED

Stephen Albert Caugherty, aged 44, chief officer of Douglas (Isle of Man) fire brigade, was sentenced to 15 months' hard labour and a £700 fine at Douglas yesterday for stealing 383 ration books from Douglas town hall. He pleaded guilty.

For receiving the ration books, Reine Proctor, aged 54, clothing manufacturer, of Duke-street, Denton (Lancs), was jailed for nine months and fined £100.

Two accomplices, Mrs. Mollie Shumlin, of Marston-drive, Douglas, and Mrs. May Green, of Oakhill, Braddan, Douglas, were fined £20 and £10 respectively.

No decision yet on rail wages

Talks yesterday between the railway companies and trade unions on rates for grades above the minimum were adjourned until today.

Sir Allan was chief of 21 companies

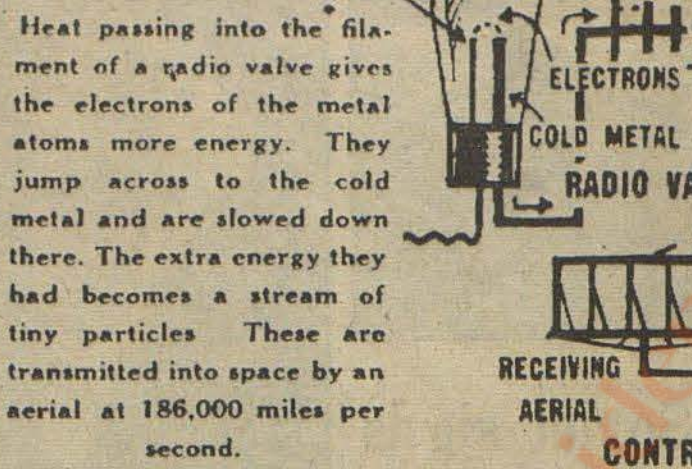
Sir Allan Macdarmid, chairman of Stewart and Lloyds, the steel manufacturers, and 20 other companies, and president of the Iron and Steel Federation, died in London yesterday. He would have been 65 on Saturday.

HOW IT WORKS

HOT METAL FILAMENT

AERIAL

Particles travel through space at 186,000 miles per second.



THE atomic bomb splits the nuclei of uranium atoms to set free energy. By using the energy of electrons from the atoms of other metals, we get radar. This diagram—an easy guide to the processes—has been drawn by Daily Express Science Adviser CHAPMAN PINCHER, B.Sc.

DEATH RAY SEARCH FOUND AN ECHO

The 'magic eye' can tell friend from foe

By BASIL CARDEW

THEY asked for a death ray. They got radar. They got a scientifically produced echo that saved the world. The men who wanted the death ray were responsible for the protection of Britain, and they foresaw ten years ago that we should be at war with Germany.

The ray has yet to be produced. It is harder to perfect than even splitting the atom. But in its place our scientists offered radar, a magic secret word that today can be torn of its secrecy.

A man named R. J. Dippy invented Gee, which told our bomber pilots exactly where they were a thousand miles from base.

Men named Williams, Reeves, and Jones developed Oboe, that told our bombers when to drop their bombs by signals flashed from England.

Two men named Pringle and Lines evolved Rebecca-Eureka, which told our airborne troops exactly where to drop in Normandy and Germany.

Dee, Skinner, Lovell, and others produced the first H. 2 S. set that gives a heavy bomb a continuous picture of the unseen ground over which it is passing.

Simple back-room men of brilliant skill and genius. What did they discover? They found the uses of an echo. They found an echo by sending out high-powered radio signals they could detect objects in the air or on the sea. Then they reflected the signals were reflected back from the objects to the transmitting base.

Switch to offensive

They changed the echo into a pattern of light on a cathode ray tube that gave a picture of an enemy plane, warship, or submarine. They were then able to plot the position, direction, and speed of the enemy's engine. And so the Germans lost their greatest weapon—surprise.

This magnificent story starts when Hitler was coming to power in 1933. At that time the Air Staff and our scientists were gravely worried. There was no known way of detecting the approach of aircraft at a distance, or of following their course in overcast weather or at night.

H. E. Wimperis, Director of Scientific Research at the Air Ministry, and A. P. Rowe, his assistant, urged the need for new action to solve the problem.

September 1935, the first radar station was in operation, and aircraft approaching our coast were being located 15 miles away. It was the first indication anywhere in the world.

By September 1938, when danger to this country seemed acute, range of detection had been increased to 150 miles. London was already reasonably protected against surprise air attack.

On Good Friday, 1939, when the Germans marched into Prague, there began a 24-hour radar watch along the whole coast from Scapa Flow to Portsmouth. In

airborne forces. "Rebecca" was a beacon dropped with the first

parachutist which talked to "Eureka" carried in the following

aircraft, disclosing where to land.

ARMY

STARTING from the general principle that radio waves sent out by a transmitter were echoed back from an object struck by them, the Army specialists devised equipment to indicate within a few yards the range of an aircraft from a gun site and the direction of the plane with an accuracy of within a fraction of a degree in bearing and elevation.

R.A.F.

WHEN war started the position of a German plane was shown by a bright spot on a square dial the face of which bore a map of the surrounding land and sea.

So all round our coasts in darkened buildings, often perched on desolate cliffs, men and machines were busy. The V.A.A.F. peered at an uncanny luminous map, which showed them the position of an aircraft approaching, or passing along, before its engine could be heard.

With the help of these people the Battle of Britain was won.

Small radar sets were fitted in fighters. Assisted by radio telephone from ground radar stations our pilots first saw the German raider as a dot on his screen until it became so large as to bring his aircraft on the tail of his quarry. So the Luftwaffe night blitz was beaten.

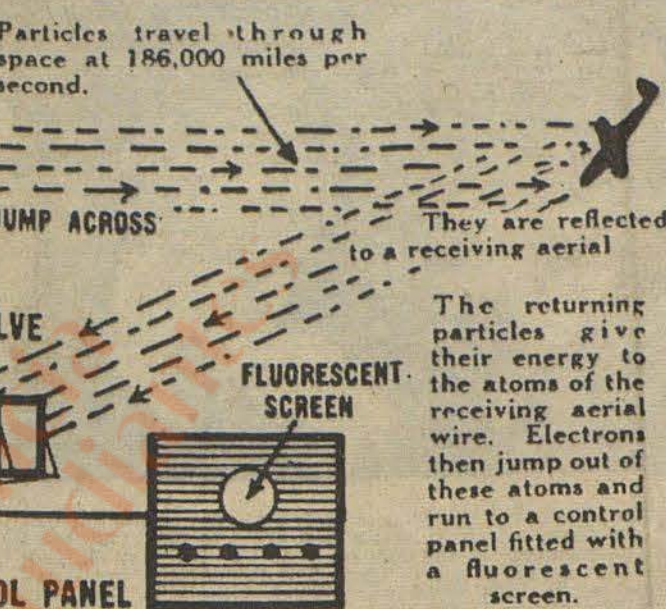
Then came "Gee," which allowed our bombers to take off, navigate, and return from mass saturation raids with perfect accuracy, fixing their positions on speeded maps.

"Gee" first used early in 1942, changed the bombing technique. In two months 1,000 bombers, instead of 100, could be sent over a target in an hour.

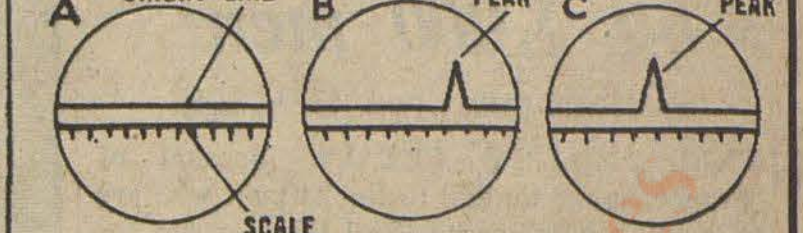
Next came "Oboe," used in March 1943 in the Battle of the Ruhr. The specially trained ground operators sitting in England to guide pathfinders to their target and signal when to drop their bombs. The main bomber force, using "Gee" to reach the area, merely unloaded their bombs on to the flares.

Next came the H. 2 S. system, a startling device which sent the navigators to see on a cathode ray tube screen a picture in glowing green spots and shadows of the land, water, and hills and areas below. With H. 2 S., often known as the "Magic Eye" or "Gen box," Berlin, Hamburg, and 80 other German cities were destroyed. The actual set was entirely self-contained in the bomber.

Finally there was "Rebecca-Eureka," the radar secret of the



WHAT THEY SEE ON THE SCREEN



When there is nothing solid in the sky or in the sea and no particles are being reflected the operator sees a straight bright line.

If there is a plane or ship within range the electrons from the receiving aerial make a peak in the line.

Knobs in the control panel bring the peak into the centre of the screen and keep it there while the target approaches. Thus A.A. guns are kept laid on the target.

Workers did not know what they were making

SIR GEORGE BAILEY, chairman of Metropolitan-Vickers Electrical Company, the engineering genius behind the first Radar mass production, said last night at Beaumaris, Anglesey:

"In November 1937 the Government gave Metropolitan-Vickers a contract for 40 transmitter sets. We had to work hard to get them fixed in time for the Battle of Britain."

"None of our workers knew what they were working on. I had to tell them it was merely a new type of radio set."

"A great boost was given to the work by Lord Beaverbrook, then Minister of Aircraft Production. He worked unrelentingly and hid everything he could to help us."

"It was not until more than a thousand of these transmitters had been made that the work was passed in other firms, so strict was the secrecy ban."

Gold trains go through

Three special trains recently sped through the night from Wolverhampton to a southern port carrying a cargo worth about £1,700,000.

It was gold worth 17,000,000 guilders in Dutch coin—on its way to Holland.

Since arriving from the U.S. 18 months ago it had been stored in a Dutch military camp at Wootton Bassett.

The boxes it was carried in to the trains looked like ammunition cases. And the Dutch guards kept the secret.

BIG EIGHT PICKED TO RUN COTTON

Ninth will be named today

Express Staff Reporter

TWO teams of four a side, one for the cotton workers and one for the employers, were named last night as eight of the "big nine" cotton commission.

Mrs Johnson gets a £2,200 house

MRS MARIE JOHNSON, 33-year-old wife of a soldier and mother of a three-year-old son, has been chosen as tenant of the first prefabricated house in Salford (Lancashire).

Erected in London-street, the house was stated at the last meeting of Salford Council to have cost £2,200.

Mrs Johnson, who has been living with her parents at 28, Winter-avenue, Salford, will move in at the end of this month. She will pay a weekly rent of 15s. 9d.

Mr Churchill dines with old colleagues

Mr Churchill, Leader of the Opposition, gave a dinner party in London last night on the eve of the opening of Parliament.

Among those who attended were all Mr Churchill's former Conservative Ministerial colleagues who retained their seats at the General Election.

The bigger job

Mr Hartley W. Shawcross, K.C., M.P., the new Attorney-General, has resigned as Recorder of Salford (Lancs) after four years.

COOLING OFF

IT will be mainly fair in eastern districts at first, but local thundery rains will occur later. In the west there will be occasional rain at first, followed by bright intervals and showers.

London, S.E. and N.E. England, E. and N. Midlands, S.E. Scotland: Fair at first; local thundery rains later; local morning fog; rather cool.

W. Midlands, S.W. England, S. and N. Wales, N.W. England: Occasional rain at first; bright intervals and showers later; rather cool.

S.W. Scotland and Isle of Man, W. N.W. Mid. N.E. Scotland: Cloudy, occasional rain, local thunder; local coast fog; rather cool.

Further outlook: Unsettled. Lightning at times; London, 9.24 p.m. to 4.46 a.m.; Manchester, 9.24 p.m. to 4.40 a.m.; Glasgow, 9.54 to 4.40 a.m.; Moon: Rises 1.38 a.m., sets 11.27 a.m.

SECRET SAVED THE TWO 'QUEENS'

They raced at 30 knots through fog

Express Naval Reporter W. A. CRUMLEY

IN the cold, clear dawn after the battle of Cape Matapan, Lord, sent this report which electrified the Admiralty—"We have won the war."

The date was March 29, 1941. And the sender was the coldest, shrewdest, most experienced, and least emotional admiral afloat, the Navy's "A.B.C."

Three Italian cruisers and two destroyers had been blown out of the water. Their guns were still trained fore and aft, their crews not even at action stations when the Warspite opened 15-inch fire at 6,000 yards. And five of the six one-ton shells of the Warspite's first broadside were hits.

The secret of Matapan, first major night action for 100 years, was radar.

Even before Admiral Cunningham's despatches were received the Admiralty stopped everything to rush radar gunnery control into the fighting ships. And before radar gunnery became the perfect push-button automatic equipment of the Fleet Admiral Cunningham's strategic appreciation after Matapan was proved fact.

IT SAVED MALTA

One night at Matapan and radar prevented the Italian Fleet from coming out against our withdrawal from Greece and Crete, and to the loss of Rommel's supply convoys and the end of his bid for the Suez Canal; made the Malta convoys possible and turned the scale of Mediterranean war in the precise moment of our greatest peril.

Rodney, our first radar battle-ship, pounded the Bismarck to destruction. Radar prevented the Bismarck from escaping to Brest.

The German battle cruiser Scharnhorst, stalking a Russian convoy in the Arctic snow squalls of Boxing Day 1944, was detected by the Duke of York.

This was the longest range at which radar had been used at sea. The Scharnhorst was still far beyond the 20-mile range of the British battleships guns.

In their radar scanner—it looks like a large glass dinner plate—the British gunners could see their hits and the 150-foot splashes of the missiles. Those yellow-green "blips" on the dark glass screen as the radar beam

swept round and round beyond the horizon were all that could be seen of the Scharnhorst.

And the Scharnhorst saw nothing but the radar beam darted out of the twilight to make the torpedo attack which brought the enemy down to the speed of the Duke of York.

Coldly and mercilessly radar gunnery finished the job. The exact range and bearing of the invisible enemy was automatically transmitted to the guns and the guns were automatically trained by the fire control director.

The gunnery officer pressed a button for range and direction. The gunner in the control tower pulled the trigger and the broadsides destroyed the Scharnhorst.

Radar at sea now has five main uses: Aircraft warning, surface ship and surfaced U-boat warning, navigation, gunnery, and aircraft direction.

Here are some of its secrets—L.F.F. (Indicator Friend or Foe) tells automatically if distant ships or planes are ours or theirs. Twirling two knobs gives the navigator a complete contour in green light of an invisible distant coast line. This made possible all our D Days from North Africa to Normandy.

The naval air services first fitted the Queen Mary, Queen Elizabeth, and Aquitania.

Radar was the secret which made possible the non-stop 30-knot dashes round and round the world of the Merchant Navy's "monsters."

Without radar they would have been forced in fog, poor visibility, or in channels crowded with blacked-out shipping to crawl, and then the 17-knot U-boats would have been at them.

The fog, iceberg, rock, stranding, and collision perils can now be taken out of seafaring.

But television can be added to telephoning.

Play for safety, go for speed...

with VIM

the effortless cleanser

JAEGER

A Jaeger Pinafore Dress, with tailored top and full skirt with deep box pockets - one of the features, in limited quantity only, of the new Autumn collection available now. Jaeger unmistakably.

JAEGER HOUSE, 204 REGENT ST., W.1. OR GO TO YOUR NEAREST JAEGER

acid-free NUSWIFT FIRE PROTECTION

THE NUSWIFT ENGINEERING CO. LTD., ELLAND, YORKS

Anticipation

"The thrill of anticipation" may be a hackneyed phrase: it certainly is no empty one. Who can fail to find joy in looking forward to better times now that Victory in Europe has come?

We share the regret of our many friends that supplies are so limited as the result of war conditions.

Peck's MEAT & FISH Pastes

Harry Peck & Co. Ltd., Devonshire Grove, London, S.E.15.

Deedle, Deedle, Dumpling, my son John, Found he was jilted, whereupon He bought some chocs, Called Dairy Box, And that was the smartest thing he'd ever done in his life, because his dairymaid sweetie developed a crush on him which was nobody's business! It was smart of him, too, to realize that Dairy Box are about again. There aren't many of them yet, but, though they are in neat, new cellophane bags instead of the familiar box, they're still the most delicious chocolates you ever tasted. They're made by Rowntree's, which is a tip to any jilted swain to get some quickly before they're all gone!

Dairy Box chocolates are now packed in sealed cellophane bags, 6s. 6d., 9s. 9d., 4s. 4d. For the present—but we hope not for long—there are large parts of the country where Dairy Box cannot be sold.

Knock 'em out of having

LAUREL

A good razor blade needs three things: special steel, a fine cutting edge and a good temper. All three are found at their best in Sheffield, the 'home of the cutting edge'. All three combine to make Laurel the perfect blade. Pay what you will, you cannot get a better blade than Laurel.

The Good-tempered Sheffield Blade

LAUREL

Made by George Lawrence Ltd. of Sheffield

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