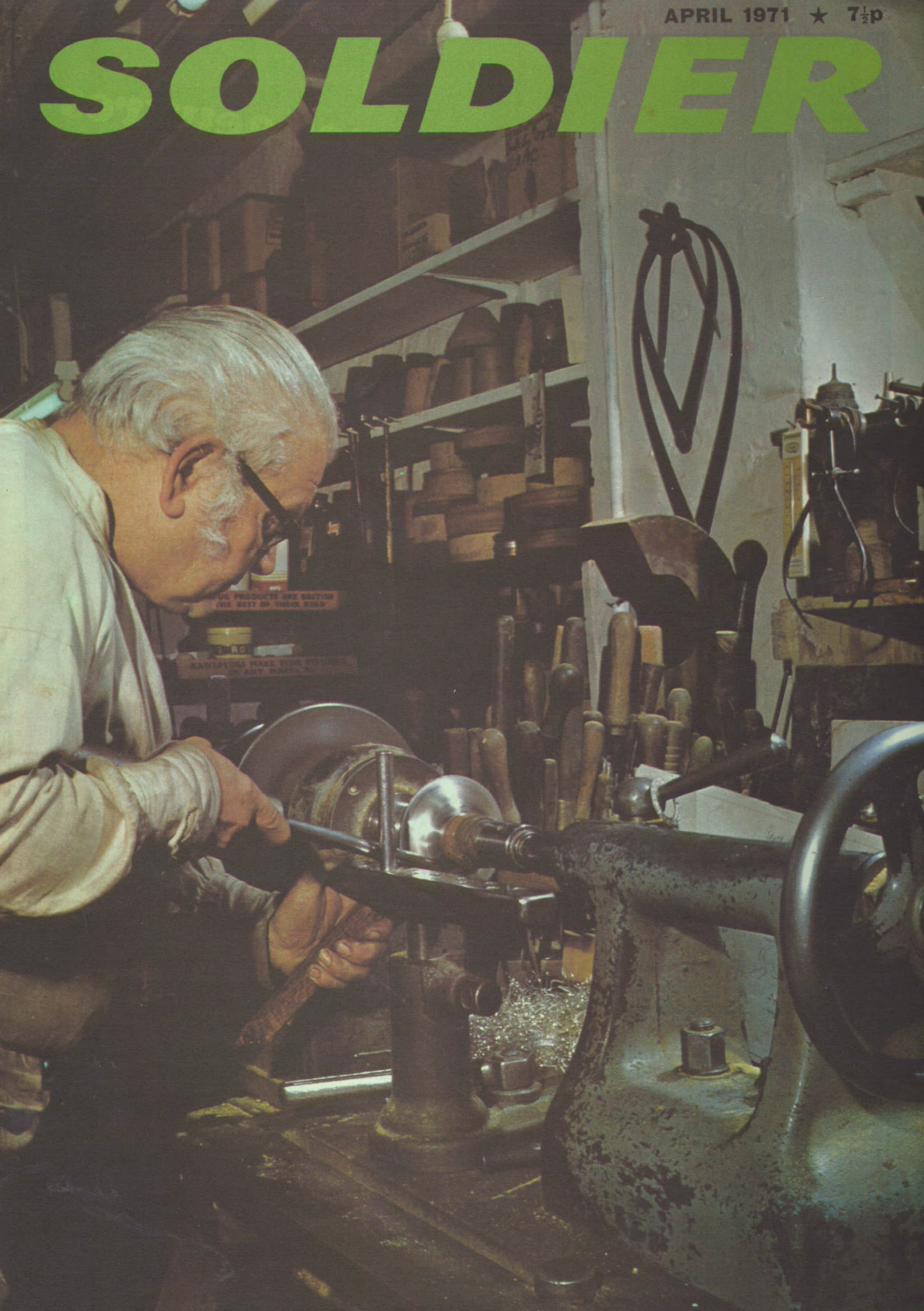


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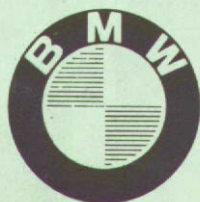
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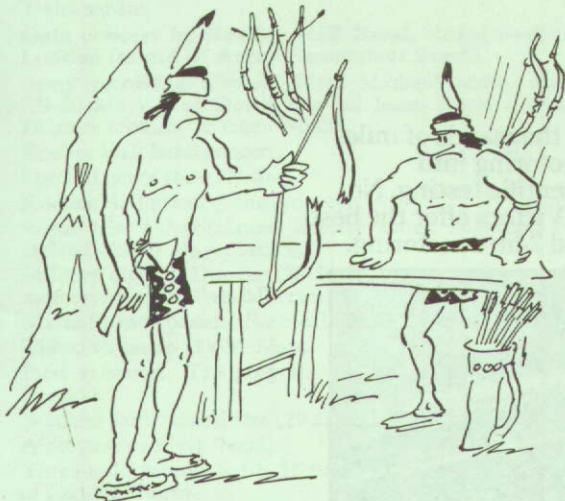
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RED INDIAN ARMY by Larry

(pages 24-25)

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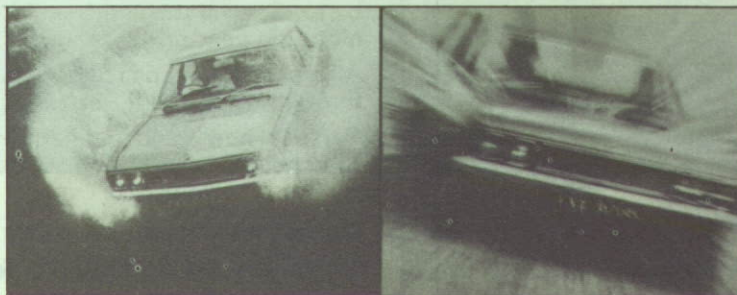
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SEE - THE - ARMY DIARY

In this regular feature **SOLDIER** keeps you up-to-date on tattoos, open days, exhibitions, at homes, Army displays and similar occasions on which the public is welcome to see the Army's men and equipment. Amendments and additions to previous lists are indicated in bold type.

APRIL 1971

The King's Troop, Royal Horse Artillery, royal salutes, Hyde Park, London, 21 April (Queen's birthday), 2 June (anniversary coronation), 10 June (Prince Philip's birthday), 12 June (Queen's official birthday), 4 August (Queen Mother's birthday).

- 9 Air show, Lydd (9-10 April) (band, Blue Eagles helicopter display, free-fall team).
- 19 Royal Performance, "Fall in, the Stars," London Palladium (in aid of Army Benevolent Fund).
- 25 Open day, Women's Royal Army Corps Centre, Guildford.

MAY 1971

Household Division guard mounting from Horse Guards, London, 11, 13, 18, 20 and 25 May.

- 7 Queen Mother presents new Colours to 2nd and 3rd battalions, The Light Infantry and The Light Infantry Volunteers, Meane Barracks, Colchester.
- 10 Open day, 10 Signal Regiment, Hounslow (10-14 May).
- 12 Marlborough exhibition, Burlington Arcade, London.
- 12 Royal Military School of Music band concert, Kneller Hall, Twickenham.
- 15 Gala concert by Kneller Hall Band, Royal Festival Hall, London (in aid of Army Benevolent Fund).
- 19 Army recruiting display, West Midland show, Shrewsbury (19-20 May) (Red Devils free-fall team, Royal Signals White Helmets motorcycle team, bands).
- 19 Kneller Hall band concert.
- 22 Lord Mayor's show, Belfast.
- 26 Kneller Hall grand (band) concert.
- 27 Royal Ulster Agricultural Society show, Balmoral, Northern Ireland (27-30 May) (bands).
- 28 Military display, Dundee (28-30 May) (band, pipes and drums, motorcycle team, free-fall team).
- 28 Massed bands parade, Bielefeld, West Germany (28-29 May).
- 29 Tidworth tattoo (29-31 May).
- 29 First rehearsal, Trooping the Colour, Horse Guards Parade, London.
- 29 Watford carnival and fête (29 and 31 May) (band).
- 31 Aldington carnival (band).
- 31 Three-mile parade (with 11 bands) to launch Fourth Festival of London Stores.
- 31 SSAFA international air display, RAF Church Fenton, Yorkshire.

JUNE 1971

- 2 Glasgow military display (2-13 June)
- 2 Household Division beats Retreat, Horse Guards Parade, London (2-3 June) (in aid of Army Benevolent Fund).
- 2 Kneller Hall band concert.
- 3 Massed bands parade, Dortmund, West Germany (3-5 June).
- 4 11th international festival of military music, Mons, Belgium (4-8 June).
- 5 Second rehearsal, Trooping the Colour, Horse Guards Parade, London.
- 5 Nuneaton carnival (5-6 June) (band and drums, Red Devils, Royal Artillery motorcycle team, Blue Eagles).
- 5 Open day, Army Apprentices College, Harrogate.
- 5 Lord Mayor's parade, Sheffield (band).
- 6 Battersea parade (Royal Tournament).
- 7 Scottish Division massed pipes and drums beat Retreat, Horse Guards Parade, London.

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DIARY

continued

JUNE 1971

- 9 Royal Tournament, Earls Court, London (9-26 June).
- 9 Kneller Hall band concert.
- 11 Army recruiting display, Leigh, Lancashire (11-12 June).
- 11 Gosport cadet tattoo, St George's Barracks, Gosport (11-13 June).
- 11 Military tattoo/trade fair, Sidcup (11-13 June) (band).
- 12 Chingford bonanza (band).
- 12 Porchester carnival (bands, arena events).
- 12 Trooping the Colour, Horse Guards Parade, London.
- 12 Army display, Catterick.
- 13 Welsh 3000s, Snowdonia.
- 14 Garter service, Windsor.
- 16 Kneller Hall band concert.
- 19 North Wilts cadet tattoo, Swindon.
- 19 British Legion (County of Northumberland) jubilee celebrations, Whitley Bay (band).
- 19 Frimley/Camberley cadet fête (two bands, two arena events).
- 23 Kneller Hall band concert.
- 24 Carisbrooke Castle tattoo, Isle of Wight (24-26 June).
- 25 Massed bands parade, Minden, West Germany (25-26 June)
- 26 Open day, Depot The Queen's Division, Basingbourne.
- 26 Open day, 39 Engineer Regiment (Airfields), Waterbeach.
- 30 Kneller Hall grand (band) concert.

JULY 1971

- Open day, Royal Corps of Transport, Northern Ireland.
- 2 Amalgamation 3rd Carabiniers and The Royal Scots Greys, Edinburgh.
- 3 Army display, Tewkesbury festival.
- 3 Military musical pageant, Wembley Stadium (in aid of Army Benevolent Fund).
- 3 Civic weekend and carnival, Doncaster (3-4 July) (band, motorcycle team, Red Devils).
- 7 Colchester tattoo (7-10 July).
- 7 Kneller Hall band concert.
- 8 Sounding Retreat, Rifle Depot (Royal Green Jackets), Peninsula Barracks, Winchester (8-10 July).
- 9 Southampton show (band and drums) (9-10 July).
- 10 Aldershot Army display (10-11 July).
- 10 Pudsey show (band).
- 14 Kneller Hall band concert.
- 15 Army recruiting display, Liverpool (15-17 July).
- 16 Army recruiting display, Birmingham (16-18 July).
- 16 Cheltenham tattoo (16-17 July).
- 17 Artillery day, Larkhill (changed from 31 July).
- 17 Weston-super-Mare dairy festival (17-24 July) (three bands).
- 17 Basingstoke tattoo.
- 21 Combined services tattoo, Gosport.
- 21 Kneller Hall grand (band) concert.
- 22 Army recruiting display, Manchester (22-24 July).
- 23 Army recruiting display, Stoke-on-Trent (23-25 July).
- 27 Dover tattoo (Dover Army week) (27-28 July).
- 29 Borough show, Northampton (29-31 July) (band).
- 30 Cardiff tattoo (30 July-7 August).
- 30 Hull show (30-31 July) (Red Devils).
- 30 Folkestone tattoo (Dover Army week) (30-31 July).
- 31 Army air day, Middle Wallop.
- 31 Open day, Royal School of Military Engineering, Brompton Barracks, Chatham, Kent.

AUGUST 1971

- 1 Open day, Royal Armoured Corps Centre, Bovington.
- 3 Tyneside summer exhibition, Exhibition Park, Newcastle-upon-Tyne (3-7 August) (bands, Red Devils, motorcycle team).



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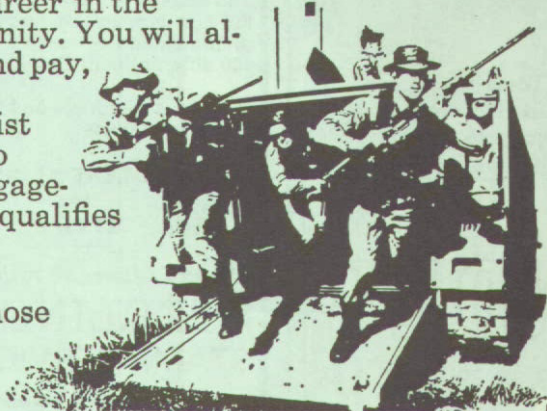
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MILITARY MASCOTS



Albert the ram

PART One Order 157 of 1 Division Regiment, Royal Corps of Transport, dated 19 August 1970, promoted Albert Stalwart Heide to acting lance-corporal for his "steadiness, soldierly qualities and bearing on the Triangle Parade 1970."

Triangle parade—named after the divisional insignia—was the annual ceremonial drive-past of 1 Division Regiment. But it held even greater significance for Albert. It was his *début* as the regiment's ram mascot.

When 001 Private A S Heide was enlisted at the age of 18 months on 1 June 1970 he was something of a reluctant recruit. The revving engines and exhaust fumes were all rather disconcerting for a young animal used to grazing on the quiet pastures of Lüneburg Heath. He gored his handler, Private Peter Keast, in the leg when having his wool combed. And, said Private Keast, "He jumped like mad the first time he heard the bagpipes."

Private Keast, a former head herdsman

on a Cornish farm, and Lance-Corporal Ron Bly, the ram-major, took him on walks through the vehicle park at the regiment's camp in Liebenau to accustom him to the engines. They even sat up with him at night for a month playing recordings of pipes and drums until he became used to them as lullabies.

Albert so distinguished himself on the parade, despite the noisy drive-past to the accompaniment of a pipe band, that they sewed a stripe on his blue uniform coat. He has now nine months' service under his halter and his annual report commended him as "an exemplary mascot performing his duties diligently and with initiative."

Albert inherited his first name from the regiment's first mascot, a duck; Stalwart is from the regiment's amphibious trucks and Heide is after his birthplace of Lüneburger Heide.

Like any other soldier, Albert has his own set of documents including a qualification and record card, medical and dental form and a conduct sheet. The latter has no entries despite an attempt to butt the consul-general of Hanover at a dinner in the officers' mess last year.

Although he has a penchant for tightly stretched trousers, it was Albert himself who received a metaphorical kick in the pants. A reporter on the Daily Mirror once described him as "a temperamental goat."

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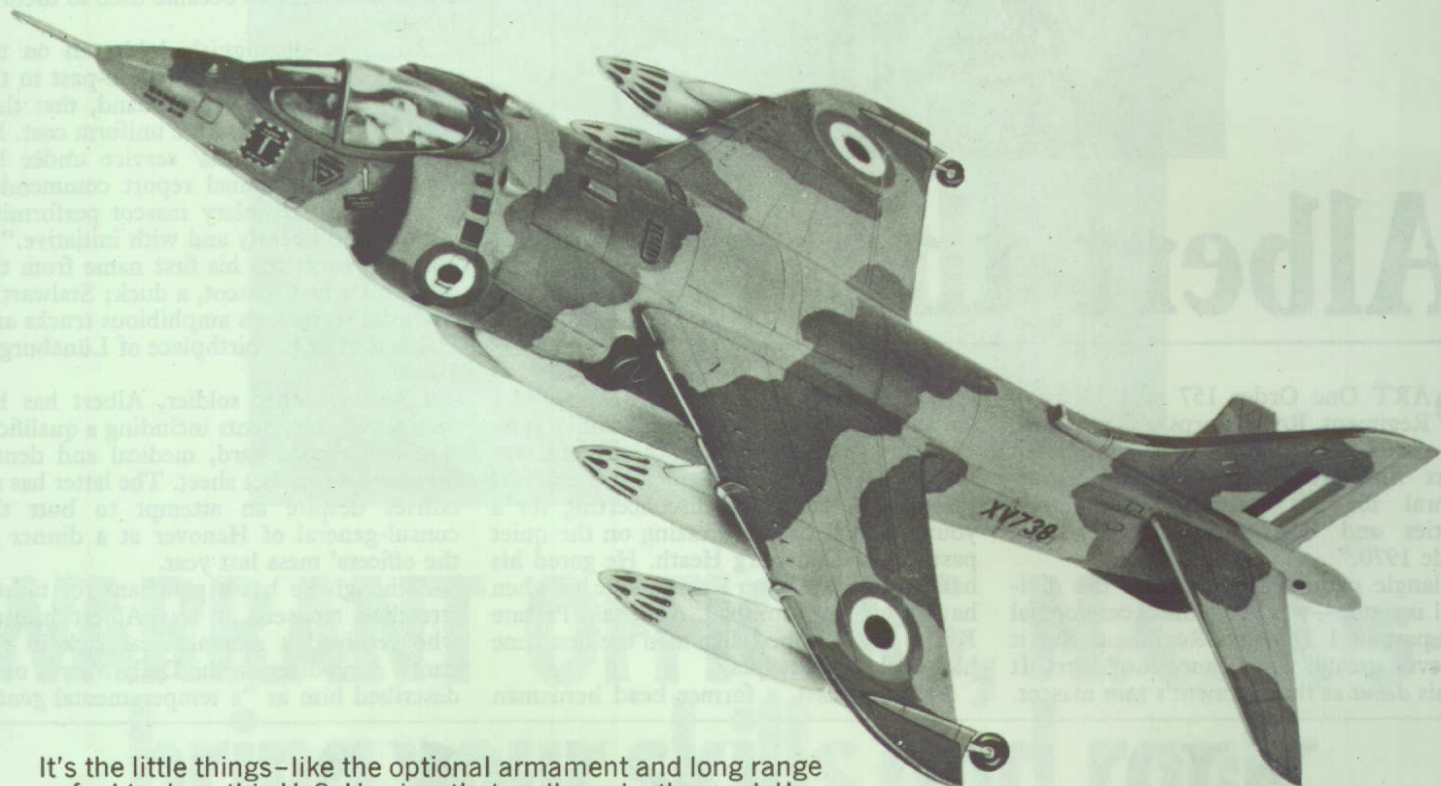
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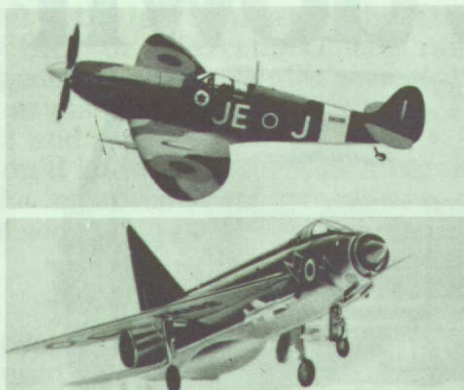
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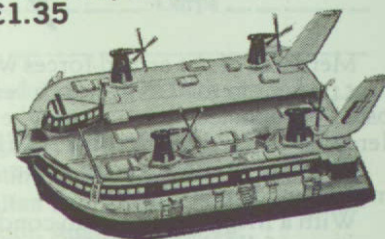


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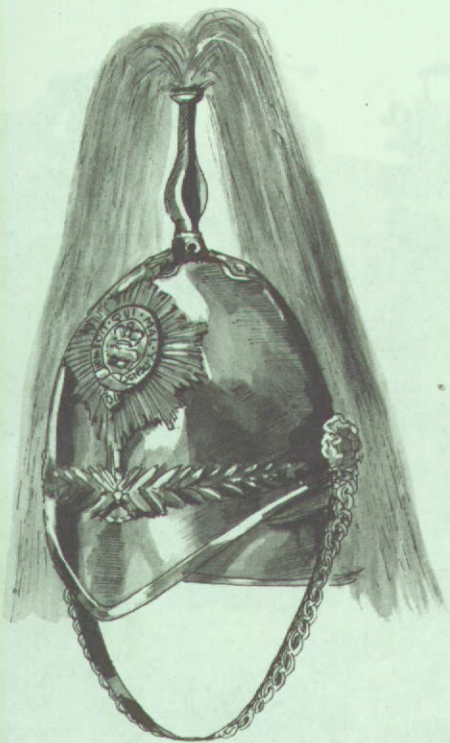


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**Dragoon officer's helmet
1900**

This helmet was in gilt or gilding metal and was bound around the edge in brass. The top of the helmet was ornamented with a gilt spike and crosspiece four inches high which served as the plume holder. The headdress was further decorated with a band of laurel along the top of the peak and a band of oak down the back seam, all in gilt metal.

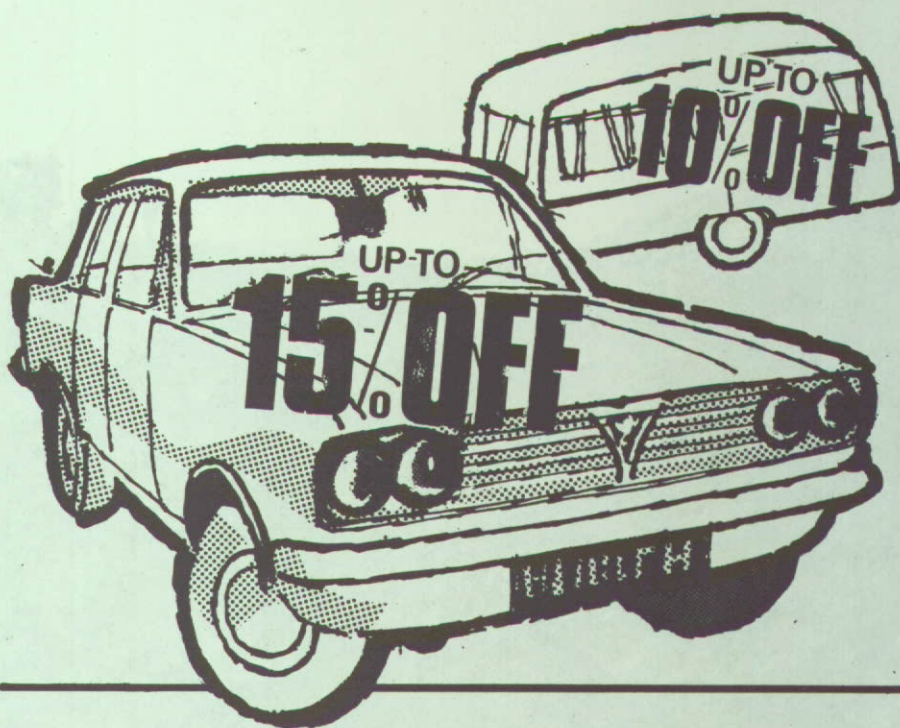
The chin chain was of gilt brass interlocking rings backed with leather and attached to the helmet by means of large gilt rosettes at either side. The helmet plate was in the shape of a star in diamond-cut silver metal, except for the 6th Dragoon Guards who had a plain rayed star.

In the centre, in gilt metal, either the Garter pierced with the motto "Honi soit qui mal y pense" or an elliptical ring bearing the regimental title. Within the Garter or ring the badge or number of the regiment. The helmets for the 1st and 6th Dragoons were of the same basic pattern but of white metal with gilt ornaments.

Helmet stars were ornamented as follows: 1st Dragoon Guards, within the Garter on a ground of red enamel, the royal cypher; 2nd Dragoon Guards, within the Garter the royal cypher on a ground of red enamel; 3rd Dragoon Guards, within the Garter the Prince of Wales plumes on a ground of red enamel; 4th Dragoon Guards, on the star in gilt metal a circle inscribed "Quis seperabit" "MDCCLXXXIII," on a ground of blue enamel, within the circle the cross of St Patrick on a white ground and on the cross a shamrock leaf in green enamel with a red enamelled crown on each petal; 5th Dragoon Guards, an elliptical ring in gilt inscribed "P.C.W. Dragoon Guards," within the ring "5" in silver; 6th Dragoon Guards, within the Garter the number "6" on a ground of red enamel; 7th Dragoon Guards, an elliptical ring in silver metal with the title "The Princess Royal's Dragoon Guards" in gilt, within the ring the number "7" in silver; 1st Dragoons, the Garter star in gilt metal, on the star the crest of England on a silver ground, within a silver elliptical ring inscribed "The Royal Dragoons," 6th Dragoons, on a gilt star an elliptical ring inscribed "Inniskilling Dragoons" in gilt letters, within the ring on a gilt ground the castle over the number "VI" in silver.

Plume colours were: 4th and 6th Dragoon Guards and 6th Dragoons, white; 1st Dragoon Guards, red; 2nd Dragoon Guards, black; 3rd Dragoon Guards, black and red; 5th Dragoon Guards, red and white; 7th Dragoon Guards, black and white; 1st Dragoons, black.

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Ten years' work lies behind them but another ten faces the sappers in their Herculean task of restoring the lower Swansea valley

Where no birds sang and no grass grew

Story by George Hogan
Pictures by Martin Adam



Typical of the devastation left by the copper smelters of the 18th and 19th centuries. Some has been cleared but much remains to be done.

Far left: Only a small part of the sappers' task at Landore. Some of the ash moves easily to the bulldozers. Some objects, and has to be blasted.

Below: The field in the foreground was the site of part of Llansamlet chemical works. Chimneys were felled, mounds removed. Now grass grows.



IT is spring again in the lower Swansea valley where after nine years of hard work a troop of sappers is beginning to visualise the results of an immense clearing-up task that could be likened to one of the labours of Hercules.

This once-beautiful valley became the "litter heap" of the smelting industry that made Swansea rich and famous in the 18th and 19th centuries—until no birds sang and no grass grew.

Now there are hopes that it will regain its charm and that it could even become a popular playground.

The smelting of copper and silver began in 1717 at Landore on the eastern edge of the city.

Men clawed at the earth with primitive tools and founded an industry that made Swansea its world centre. Soon other works opened along a three-mile stretch of the river Tawe and a forest of tall chimneys belched black smoke and evil-smelling

fumes as the ores produced copper, lead, silver, zinc and arsenic.

Tips of ash and clinker rose higher than the 60-foot chimneys. New processes increased demand—and three square miles of countryside were torn apart. Fish, birds, animals, vegetation and even the toughest grasses gradually died.

Welshmen and their families suffered from the fumes. Some refused to work in the foul atmosphere but foreign labour was imported and the industry progressed with energy and enterprise bringing in its wake profit and renown—and devastation.

When the heyday was past the lower Swansea valley remained like a vast rubbish dump that even nature could not restore. The works crumbled to ruin, the soil eroded, chemicals polluted the earth and air, the nearby streets looked shabby and the people sickly.

The survival to today of a stanza composed in a railway carriage while

passing the site in 1897 shows the long-standing feeling of resentment:

It came to pass in days of yore
The Devil chanced upon Landore.

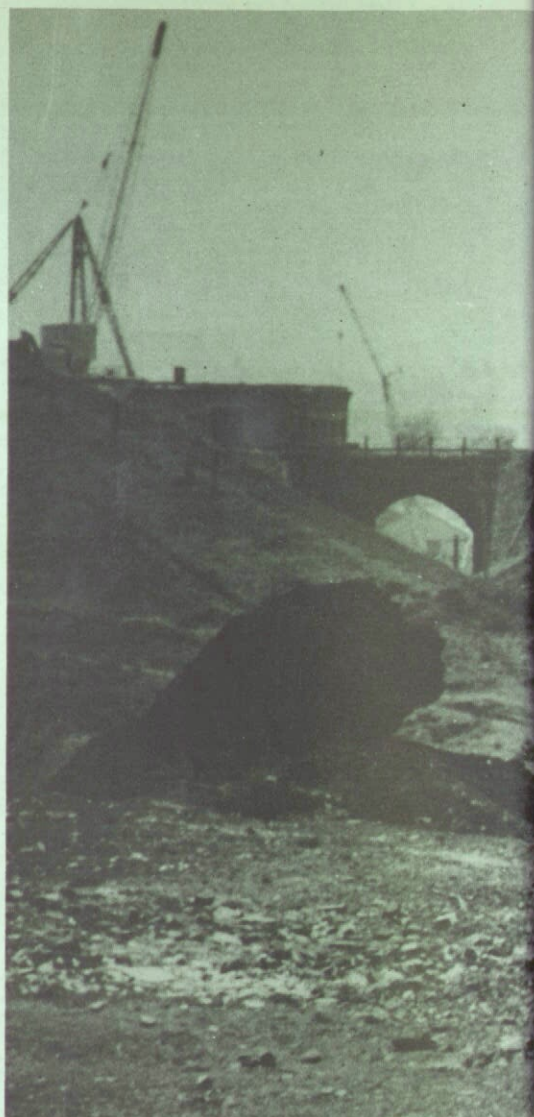
Quoth he: "By all this fume and stink,
I can't be far from home, I think."

In 1960 Swansea began to do something about it. The University College led the way and was soon joined by the borough council, the Welsh Office and representatives of industry in an attempt to raise funds to finance a detailed inquiry. The Nuffield Foundation gave nearly half of the £50,000 needed and soon there was action to reduce the tips, landscape the vast area and turn it from an eyesore into an amenity with areas for industrial and private development and social enjoyment.

The Territorial Army volunteered to help and in February 1962 the 53rd (Welsh) Divisional Engineers sent in three squadrons from Cardiff, Swansea and Gorseinon to demolish the Llansamlet chemical



Royal Monmouthshire Royal Engineers prepare an obstinate mass of conglomerate before blasting. Above: The pick and shovel gang may break up some boulders but the drill (below) has a big part.



Landscaped, grassed and planted. A small part of

works. Among them was the plant troop of 285 Field Park Squadron—20 sappers commanded by Captain Mike James—which has remained to work in the valley for the past nine years.

Now titled 3 (Welsh) Troop, it has varied in strength over the years, changing name and numbers as the Reserve Army reorganised, and is now well above strength at its maximum of 67, still with Captain James, a Swansea architect, in command. As part of 143 Plant Squadron, RE (V), commanded by Major Bob Bannister from Walsall, it is trained to reinforce Rhine Army in war.

The troop's sponsor unit in Wales is 108 (Welsh) Field Squadron, Royal Monmouthshire Royal Engineers (Militia), which gives full logistic support including the demolition by explosives of some of the huge 40-ton masses of conglomerate which defy all efforts to crush them.

New equipment up to Regular Army standards came with reorganisation of the



the lower Swansea valley takes on a greener, cleaner, healthier look but much more remains to be done.

Reserve Army in 1967 and Swansea Borough Council leased a plot on the Landore site where plant is now kept to save travelling time.

During the past nine years the citizen-soldiers of 3 (Welsh) Troop have moved 80,000 tons of tip material. They are dedicated to the huge task in hand but their splendid record in the valley is only part of their military commitment.

Other activities of the troop include building a road and airstrip at Pendine, weekend schemes in other parts of Britain, annual rifle classification, and troop and trade training.

In addition there is the annual 15-day camp, held last year at Bovington where 1000 yards of road were built. This year's camp is at Chatham.

The troop trains in Germany every third year. The unit is self-contained and the men maintain their own giant vehicles even to welding parts.

The area at Landore now being levelled

and landscaped is as black and desolate as the dead lava- and ash-covered upper slopes of Etna. Since 1967 large bulldozers and 20-ton tractors have been attacking a mound of chemical waste 500 yards square and 80 feet high. Fantastic shapes have developed as some of the rock resists even the most persistent of bulldozer drivers and toughest of tractors. When this site is levelled, industry will be invited to build—but not for smelting.

Regular engineer units have helped to clear large areas in the valley: 48 Squadron demolished the two-centuries-old White Rock works in 1963 and 38 Regiment from Ripon cleared ruins the following year. Also in 1964 Western Command Plant Troop worked with nine major vehicles building an access road, filling in a canal, clearing buildings from ten acres and restoring five acres of grassland.

Three mayors of Swansea have paid special tribute to the efforts of the Royal Engineers. In 1964 Councillor Willis Pile

entertained sappers to tea in the Guildhall; three years later Alderman T R Davies officially opened the newly acquired compound at Landore.

In February this year Alderman A L Reed viewed the work being done on the "moonscape" as a "thank you" gesture to the sappers to mark the beginning of their tenth year of activity.

The three miles of poisoned valley represent a vast task that is not likely to be ended in another ten years and will probably cost £3,000,000 to complete. Borough contractors, the University College and others are helping with the clearing, re-shaping and development. Some acres ploughed and prepared by the sappers were sown with experimental grasses and are now bright green meadows where no grass grew before.

Fish have returned to the Tawe after many years, but not yet in appreciable numbers. A suggestion that a deflatable dam with a self-regulating weir be sited at



Symbolic of the immensity of the task, although this too is but a tiny part of the three square miles to be tamed.



The householders feel the unsightly tips are as near as in this foreshortened telephoto picture. Below: Captain James and the Mayor of Swansea.

the mouth of this tidal river envisages the covering of unsightly mud stretches with a man-made lake one and a half miles long. This would provide safe winter anchorage for small craft and areas for sailing, swimming and fishing.

The remainder of the restored valley would be used for the development of new housing and industrial estates and for the creation of riverside walks and other amenities.

Swansea, popular seaside resort of South Wales, would then lose its "poisoned valley" tag and be rid for ever of the unsightly area that looks so depressing from the windows of the London train—and would come again into its own with the rebirth of the once beautiful lower valley.

The task of 3 (Welsh) Plant Troop would be finished but Captain James would find it difficult to discover another as tough, testing and satisfying.



Back Cover



In Swansea's lower valley sappers of the Royal Monmouthshire Royal Engineers prepare a large mass of conglomerate for demolition while other sappers of 3 (Welsh) Plant Troop move clinker and ash that have ruined the valley for nearly a century. Picture by Martin Adam.



Samaritan major

He was 36 years in the Army and saw service in India, Burma, Thailand, Iraq, Egypt, Singapore, Germany and Cyprus. After the Suez campaign of 1956 **Major D J Gardiner** (left), formerly Royal Fusiliers and Royal Corps of Signals, retired to India where he now leads a simple but extremely active life among Calcutta's near-starving unfortunates. With the aid of a Land-Rover he brings sustenance and aid to 5000 people, every day providing a meal of rice and vegetable curry

plus powdered milk to his "family" of children, sick and elderly. He also distributes ointments and medicines in an area where tuberculosis, cholera, leprosy and eye afflictions are rife.

He used his Army gratuity to start the huge campaign of succour and now, working within the context of the Salvation Army, receives help from Canada and from the parish of "Our Lady of the Wayside," Solihull, Warwickshire.

Purely Personal



Last liaison

Last debriefing (above) for **Squadron Leader R J M "Moose" David**, commanding 2 Army Co-operation Squadron, before the unit at Gütersloh changes over from low-level reconnaissance to flying Phantoms. Interrogating is **Major John Fitzgerald**, one of many Army liaison officers who work closely with the Royal Air Force. He was serving in the squadron's six-man unit, 468 Ground Liaison Section.



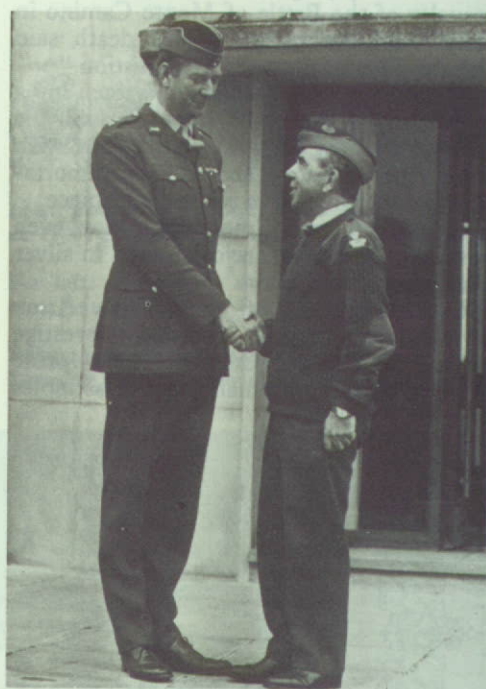
Olympic hope

Lance-Corporal Keith Oliver, Royal Corps of Transport (above), who recently won the British biathlon championship in the Bavarian Alps, is one of a party of ten soldiers and a Royal Marine who have been training in Norway for the 1972 Winter Olympics in Japan.

The biathlon includes skiing for 12 miles (15 as a relay team) and firing at targets during the cross-country trek.

Pretty tough

Sandi Jones is the British Forces Broadcasting Service's feminine voice at the Cologne end of "Family Favourites" and the request programmes "Sounds like Sunday" that go out through BBC local radio stations such as Nottingham and Sheffield. Sandi has other assignments and likes to research each subject thoroughly. When she visited 20 Ordnance Field Park in Detmold she took on (left) the "toughies" of the unit's close-combat team—and did pretty well.



Tall and long

When the Army's tallest commanding officer, **Lieutenant-Colonel Michael Hardy**, at 6 feet 7 inches, relinquished command of 1st Battalion, The King's Own Royal Border Regiment, at Colchester, he said farewell (above) to a short but very long-serving officer, **Major J A P McDonough**, who has been with the regiment 32 years.



Soccer talker

Sir Alf Ramsey in Malta with the England soccer team, talks (above) into the British Forces Broadcasting Service microphone. With him (right) is **Captain Ron Page**, Royal Artillery, Camp Quartermaster at Headquarters British Troops Malta and chairman of the Army Football Association, Malta.

Ron acts as soccer commentator and interviewer for BFBS Malta and has been manager of the Rhine Army team.



OR 16 hours Private Tancred carried the wounded officer on his back, slithering and stumbling down steep, muddy mountain tracks during the bitterly cold night and morning of 4 December 1943. At last he staggered into an advanced dressing station and handed over the officer to the care of the Royal Army Medical Corps. Then he collapsed and died.

13011512 Private Tancred J, Royal Pioneer Corps, aged 43, was just another casualty of the Battle of Monte Camino in Italy. And the record of his death said simply: "Natural causes—exhaustion."

His commanding officer wrote in a dispatch: "I sincerely hope he will be remembered for his gallant act." The wish came true. Private Tancred was immortalised for eternity—as a silver centrepiece.

Heroic actions, regimental tradition, even nostalgic memories, are celebrated in silver centrepieces.

Every regiment of the British Army owns silver and it is accorded a prestige second only to the Colours. It has pride of place on the long mahogany mess tables

on formal dinner nights when the officers entertain royalty and VIPs.

Regimental silver is as old as the Army itself. In those days when most officers had private incomes, landed gentlemen bought command of whole regiments and sons had commissions purchased as a means of entry into society, it was customary to bring their own silverware. Officers retiring or marrying were expected to donate silver to the mess; kings and generals gave it in return for hospitality.

Such a piece is the palm tree candelabrum presented to the Royal Artillery by William IV. It cost him £1000—and that was in 1833. A few years later a colonel of the Bombay Artillery went even better. He presented the Schuler Column (named after him) which is nearly three feet high, consists of 94 separate parts and takes the mess staff two whole days to clean.

The Royal Artillery headquarters officers mess at Woolwich owns what is probably the Army's largest collection of silver. Much comes from disbanded regiments and is kept in an exhibition room in glass

showcases. But it still graces the tables on special occasions, when mess waiters dress up in wigs and livery.

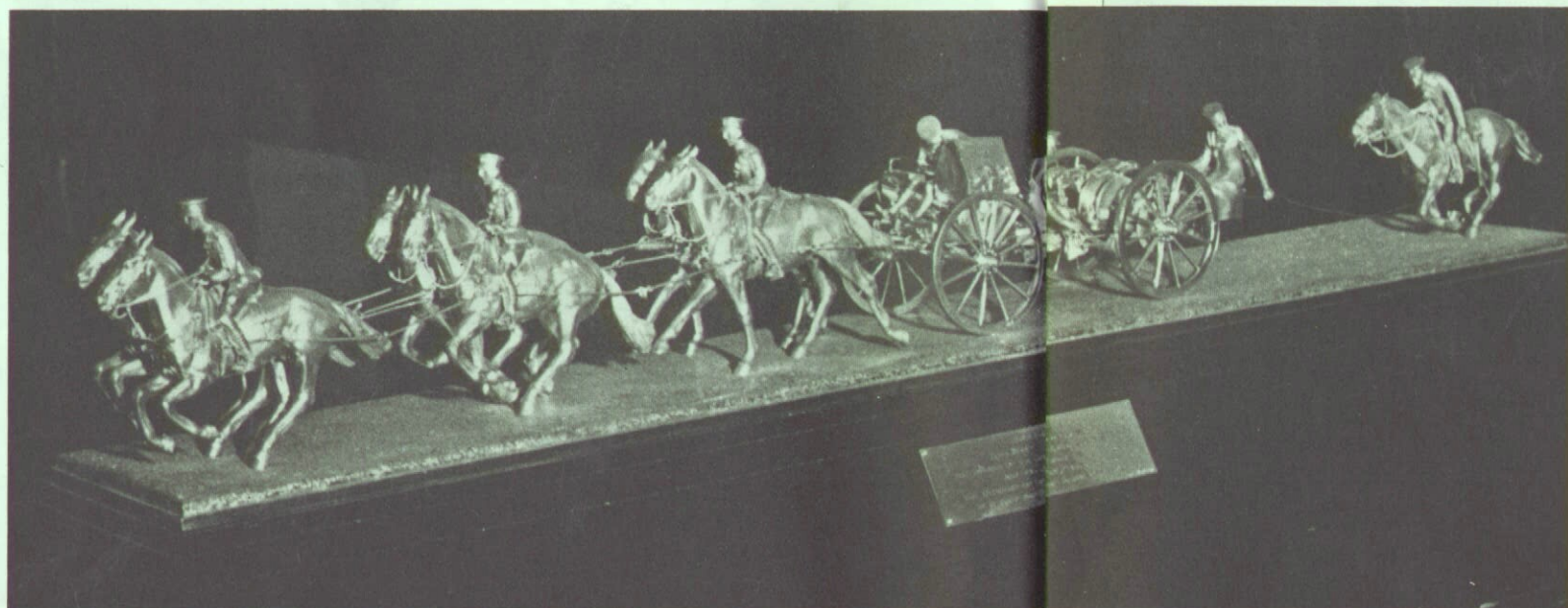
In these days of simple tastes and high prices, regiments tend to make do with an ordinary soldier figure or model of tank or gun. The 22nd Special Air Service Regiment even presented a silver sardine tin, with lips added to make it into an ashtray, to one of their colonels. Sardines had been the colonel's favourite food on exercise. Then there was a retiring quartermaster who gave his regiment a silver fiddle, to be placed in front of his successors on dinner nights...

The oddest story about silver was told by Kipling. In his tale "The Man Who Was," a ragged tramp entered the officers mess of "The White Hussars" and touched a secret spring in the candelabra making it spin round like a wheel—thus proving his identity as an officer and an escapee from a Russian prison camp. But this is the field of fiction. The London jewellers Garrards, who have been making military silver for 200 years, say they have never heard of any



Celebrated in silver

Story by Hugh Howton

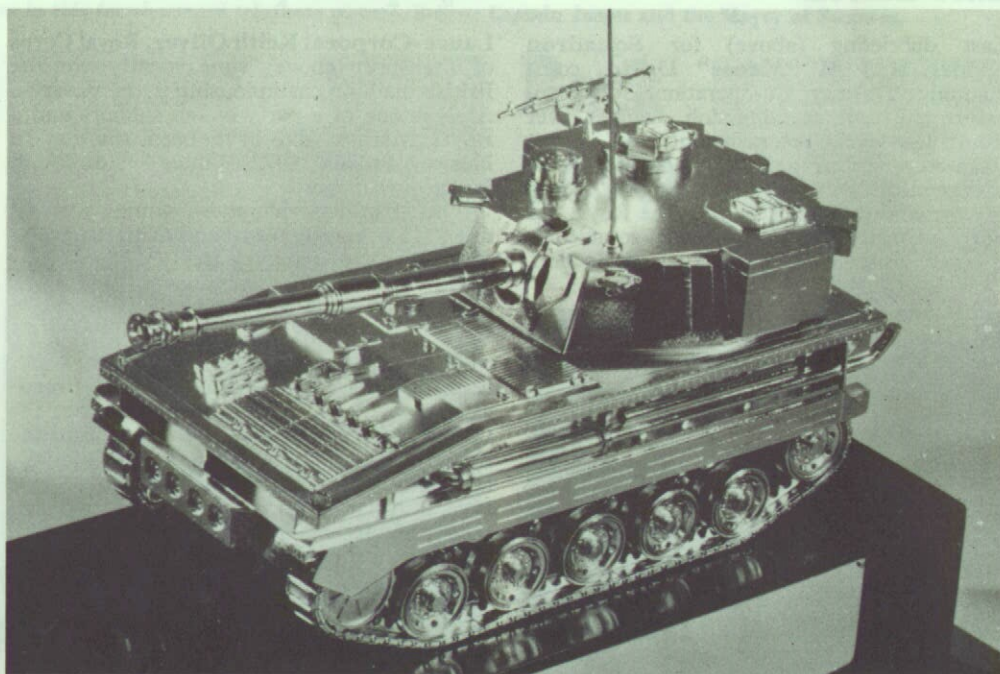


Above: Laying line at the gallop. Royal Signals cable wagon which was in use from 1900 to 1938.

Left: More businesslike model. The Abbot self-propelled gun of Q (Sanna's Post) Field Battery.

Far left: Silver sardine tin. Gift of 22 Special Air Service Regiment to its commanding officer.

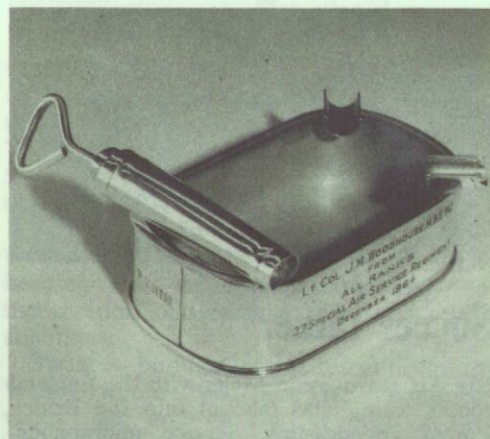
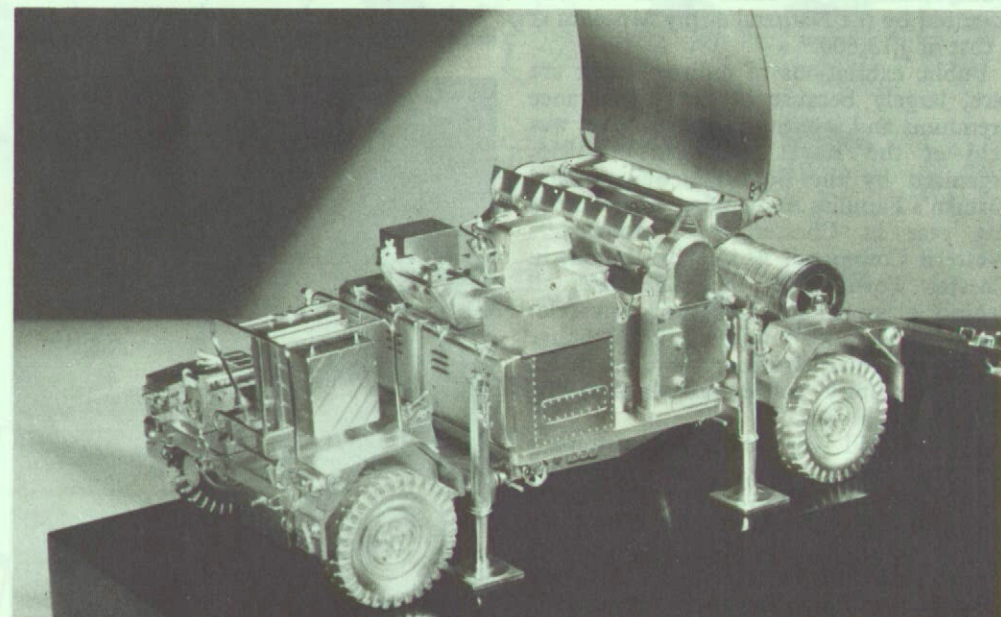
Right: A Gloster during the troubles in Cyprus. Note the riot shield, brick and broken bottles.



Left: Elaborate Victoriana. Elephant souvenir of 17/21 Lancers India tour from 1879 to 1890.

Far left: Silver is so soft it has to be worked on a "cushion." Not a job for the heavy handed.

Below: Green Archer mortar-detecting radar of 94 Locating Regiment, Royal Artillery, in Germany.



Front cover

Concentration and craftsmanship. Mr John Williams spins a silver model on a lathe in the Hatton Garden workshops of Garrards, the Crown Jewellers. The lathe has a variable-speed electric motor, a concession to modernity because most of the tools used are hand-operated and have not changed in design for centuries. They say it takes more than ten years to make a master craftsman like John Williams whom apprentices always address as "Mr Williams." Garrards have been making military silver for 200 years. At one time the style was elaborate Victoriana but these days they make models of the FV 432, Chieftain, Lightning and soldiers in combat kit. Picture by Martin Adam.



such devices, although they do make a 25-pounder with a working breech mechanism.

Craftsmen in Garrards' Hatton Garden workshop, who do a five-year apprenticeship, still use chasing tools several centuries old and an archimedean drill the design of which dates back to ancient Greece. The manufacturing process has also hardly changed.

First an artist sculpts a wax model from which a plaster cast is made, then comes a metal mould in which the silver is cast. The final model is polished by girls with rouge and whiting on their bare hands.

Every piece of silver, except small items like plaques, have to be hallmarked by the Goldsmiths' Hall in London. If the silver content is less than 925 parts per thousand the model is broken up and returned to the maker.

The cost of silver has doubled in the last ten years and prices have been forced up accordingly. A three-inch statuette now costs £25 while a special centrepiece of a battle scene could be as much as £1500.

Possibly the Army's most valuable piece is the huge Cumberland Tankard made in 1746 to celebrate the victory of the Duke of Cumberland at Culloden. It was recently acquired by the National Army Museum at a cost of £13,800.

Public exhibitions of military silver are rare, largely because of heavy insurance premiums and security problems. One was held at the Royal Academy in 1956, organised by the Soldiers', Sailors' and Airmen's Families Association, and another last year in Chester by Headquarters Western Command. At this exhibition, in Chester Town Hall, the silver was all behind glass, hidden closed-circuit television cameras kept watch, civilian police and private security officers were on guard, and 30 military policemen patrolled the building with dogs.

Until World War One it was customary for regiments to take their silver on campaigns. When World War Two broke out most of them secured their mess silver in banks and vaults. But those serving abroad could not be so provident. During the British withdrawal from Burma in 1942 the silver of 1st Battalion, The Gloucestershire Regiment, was buried in a grave with a wooden cross at its head. When an officer returned four years later the only piece he was able to trace was a George IV soup tureen, for which he had to pay 50 rupees in a local bazaar.

The Royal Irish Fusiliers, who had to leave theirs in a Guernsey bank in August 1939, were somewhat luckier. Soon after the Germans occupied the island, the commander optimistically asked for his silver to be sent on.

Incredibly the Germans allowed the bank manager to return everything except some knives, forks, spoons, coffee and tea pots and a snuff box which they commandeered "for domestic use."

The British Army has also "acquired" silver in action. A highly polished silver chamberpot in the possession of the 14th/20th King's Hussars was taken from the carriage of Napoleon's brother Joseph after the Battle of Vittoria in 1813. It has since been used in the officers mess on guest nights—as a loving cup.



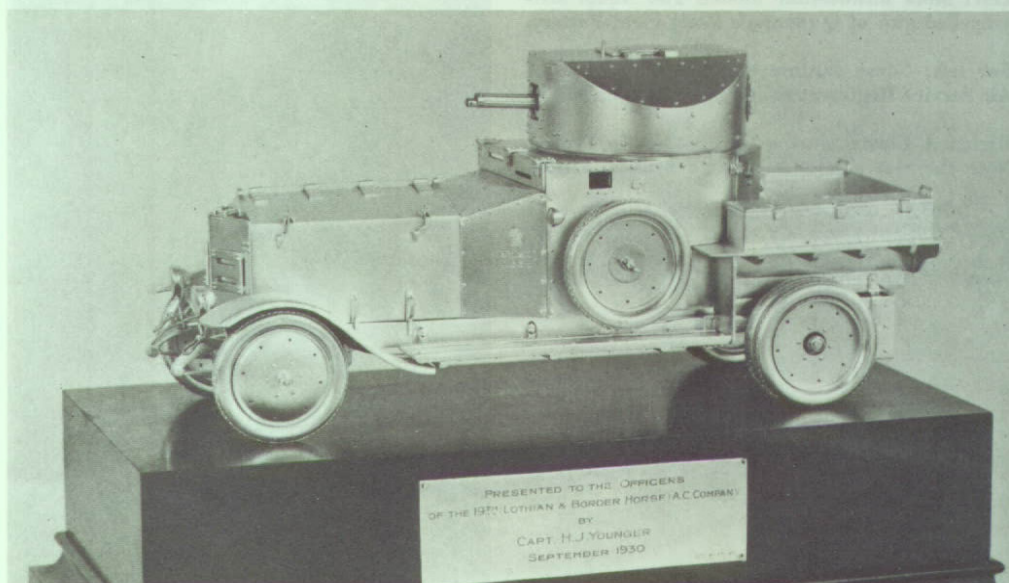
Above: Badge-brooch of regiment that never was. It combines the sphinx, star and rose motifs of the Glosters and Hampshires. The two were due to amalgamate last September to form The Royal Regiment of Gloucestershire and Hampshire. But the amalgamation never took place. Instead the Hampshires were reduced to company strength and the Glosters remained unchanged. This badge-brooch, which is in white gold and enamel and is worth £40, was speculatively made by Garrards. "It is kept in a drawer and not put on open display for obvious reasons," said a salesman.



Above: Toast with Napoleon's pot. Below: Veteran armoured vehicle presented by an officer.



Above: A modern infantryman, one of the most popular pieces today: £185, seven inches tall.



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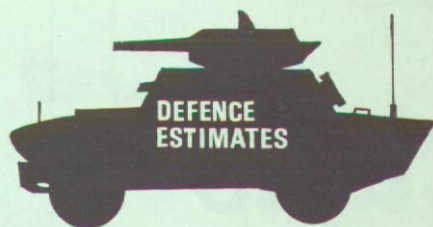


9-10 SOLDIER free for a year
11-12 SOLDIER free for six months

This competition is open to all readers at home and overseas and closing date is Monday 12 July. The answer and winners' names will appear in the September SOLDIER. More than one entry can be submitted but each must be accompanied by a "Competition 155" label. Winners will be drawn from correct entries.

Send this word, on a postcard or by letter, with the "Competition 155" label from this page, and your name and address, to:





ONE FORCE WITH WORLD-WIDE TASK

THE greater part of Britain's military forces is committed to NATO, on whose strength the nation's security continues to depend, but British interests are world-wide and can flourish only in stable conditions, says the 1971 White Paper on the Defence Estimates.

The vast military resources of the Soviet Union are a continuing threat not restricted to the NATO area. Soviet defence expenditure has increased by about six per cent per year over the past five years with massive forces permanently stationed in Czechoslovakia, East Germany, Hungary and Poland and with a maritime influence increasing and extending through the Atlantic, Mediterranean, Indian Ocean and the Caribbean.

Defence Minister Lord Carrington told a Press conference that Britain's military forces could not be considered as one part for use in Europe and another for outside Europe. It is one force with a universal task to combat a worldwide threat.

It is hoped that the new five-power Commonwealth defence arrangements for Malaysia and Singapore will come into effect by the end of this year. The rundown of the British base in Singapore continues but discussions are in progress about the land and facilities that will be required for the support services to be provided on a joint basis by Britain, Australia and New Zealand. The forces of the three nations are to be commanded by a two-star general—the first an Australian.

From the end of 1971 the British Army's contribution to the five-power defence arrangements will be a battalion group in Singapore including an artillery battery, an engineer troop and an Army Aviation detachment. A Gurkha battalion will remain in Brunei for the time being. (The British battalion has been named as 1st Battalion, The Royal Highland Fusiliers, which moves to Singapore from Bulford in September for a two-year tour.)

There are to be discussions with Malaysia about the use of training areas, ranges and the Johore jungle warfare school which is being operated by British personnel until the end of this year. From 1972 there will be a "regular flow of major and minor Army units" to the area for training.

In the Persian Gulf two rounds of discussions have been held with the Rulers and an announcement on British policy will be made after Sir William Luce's latest report has been studied.

Recruiting

Although recruiting has improved over the past two years the numbers joining are still well short of requirements. The spread of higher education and the raising of the school-leaving age will both reduce the numbers available. The Government is to give the "highest priority" to improving the situation and the White Paper records that "it firmly believes its intention to restore the armed forces to their rightful place in the life of the nation and to keep defence in the front rank of its priorities will in itself provide a direct encouragement to recruitment."

The Government is also to "maintain a constant review of conditions of service across the whole field with a view to making and keeping them competitive with civilian conditions."

The White Paper continues: "Service life and work make special demands and offer unique challenges to the individual. This is part of their appeal . . . but it is important that conditions of service should differ from those in civilian life only where there is a genuine military need." In giving boy entrants a chance to shorten their

engagements on reaching the age of 18 the Government is putting this principle into practice.

Single servicemen receive the balance of the 1970 pay code increases from the beginning of this month. This puts them on the same rate of pay as married men. There has been general satisfaction with the new rates and with the job evaluation methods used to ensure that Service pay keeps in step with the rest of the community.

The 1970-71 entry to Sandhurst was disappointing with only 245 cadets entered against a requirement of 450 but the Mons Officer Cadet School was set for a successful year with 171 cadets entered for short service commissions in the first nine months against 134 in the same period the previous year.

The combined short service commission and industrial career scheme is increasingly popular and more industrial firms are showing interest.

Mons Officer Cadet School is to move from Aldershot to the Royal Military Academy Sandhurst in 1972 where it will keep its own identity and syllabus and where the Mons cadets will have better accommodation and amenities.

There has been a trend towards shorter

engagements in the Services and the Army's three-year engagement is attracting more than 30 per cent of all male adult and young soldier recruits. The number of free warrants for travel within the United Kingdom has been increased—the married man separated from his family benefits most.

Family welfare

To alleviate the disadvantages of separation more equitable rules have been introduced for the payment of an allowance to married men after they have been away from home for a significant period.

The Housing Commandant Organisation has been set up to assist families, particularly when the husband is away from home for Service reasons. There have been many emergency tours in the past 12 months with those to Northern Ireland limited to about four months. The maximum length of other unaccompanied tours is nine months.

Many young wives find it difficult to meet some domestic crises when the husband is away, especially those who are also distant from relatives and friends. The aim of the organisation is to give them the support they require as speedily as possible.

Approximately £9,200,000 is to be spent on providing new married quarters for the three Services during 1971-72. Another £6,600,000 will continue the programme of modernising existing married quarters, including the provision of central heating.

Northern Ireland

Lord Carrington praised the "forbearance and spirit" of the troops who he said had been undergoing a testing time in Northern Ireland. The Defence Minister, who had seen the troops at their tasks, said: "I pay my tribute to them." The White Paper records: "The Services have played a major part in maintaining freedom under the law and in trying to lower tension in Northern Ireland. In the face of intense provocation, irksome conditions and physical danger they have continued to display commendable restraint, courage and humanity."

Most of the Regular Army units are on short tours limited to about four months because of the nature of the task, the shortage of accommodation, the uncongenial living conditions and the separation from families.

The two major infantry units of the pre-1969 force were on two-year tours accompanied by families. A third battalion has now been so housed and a fourth will be similarly accommodated this year.

The newly formed Ulster Defence Regiment was called out for full-time duty at the time of the Orange celebrations last year and reinforced the Regular forces by patrolling border areas and guarding key points.

The White Paper records: "Most of its members worked eight hours on duty in every 24. The regiment earned high praise for the efficiency, courtesy and good discipline it showed over this period."

The Ulster Defence Regiment became operationally effective with a strength of 1800 on 1 April 1970 and was 4000 strong at 1 January this year. Its equipment and accommodation are being improved and special attention is being paid to training. It has contributed to the security of Northern Ireland, has greatly reduced the strain on the Regular Army and provides a form of service to the community in which citizens of Northern Ireland can take part.

Training

Most important of 1970's training exercises was Bersatu Padu, held in the Malaysian area from April to July. More than 25,000 men of the three Services of five Commonwealth nations took part—about half of them from the United Kingdom. Army units were flown out from Britain with vehicles, helicopters and supplies. The exercise demonstrated "the ability of forces of the five nations to work together effectively in a tactical situation, as well as Britain's capability to deploy significant forces to South East Asia quickly."

There was an extensive programme of large and small exercises during the year in support of treaty obligations and for unit training. Units were deployed to 27 countries from north Norway to the Solomon Islands and including Turkey, Belgium, Canada, Denmark, Italy, the Netherlands, Kenya and Jamaica. Most United Kingdom-based units and about one-third of the Territorial and Army Volunteer Reserve trained overseas.

In addition the Royal Engineers carried out surveys, built bridges, drilled wells, constructed buildings, roads and airfields and in other ways assisted local communities in Thailand, Indonesia, the Solomon Islands, the Gilbert and Ellice islands, Hong Kong, Malaysia, Anguilla, Barbuda, Turks and Caicos islands, Gibraltar, Ethiopia and Kenya. Tasks in Britain included the construction of temporary piers under the Britannia bridge over the Menai straits and a bridge over the river Yarty after floods in south-west England.

Army assistance was given in two giant relief operations in the Far East—after the cyclone devastation in East Pakistan and the severe flooding which made tens of thousands homeless in west Malaysia. In Jordan a Royal Army Medical Corps team set up a field hospital in response to an appeal by King Hussein to provide

emergency relief after severe fighting in the country. In five weeks the team performed 246 operations, admitted 94 patients and treated 563 out-patients.

Reserve Forces

"The significance of the Reserve Forces extends far beyond their essential military role," says the White Paper. "They and the Cadet Forces are among the most important of the links between the Services and the civil community." The Regular Army Reserve of former Regular officers and soldiers totals 117,000 and the Army General Reserve of 174,400 includes former national servicemen and ex-Regulars to whom the National Service Act applies. There are also 1200 women reservists. The Territorial and Army Volunteer Reserve is 49,400 strong, including 1700 women, plus 4000 in the Ulster Defence Regiment recruited for service in Northern Ireland.

The TAVR is being increased, initially by 10,000, to provide an additional armoured car regiment and infantry units. The 20 new unit headquarters and 77 sub-units of company size are now established and it is expected that all will have started to recruit by the end of June. The TAVR provides a national reserve available for specific tasks at home and overseas and to meet the unexpected. In particular it will reinforce the British forces committed to NATO and provide units for the support of NATO headquarters; assist in maintaining a secure United Kingdom base in support of forces deployed in Europe and provide a framework for any further expansion of the Reserves.

Other points

A new working dress is being introduced for use in temperate climates and a new range of dress for warm stations should be available during this year.

A study is being made of the role of resettlement in the 1970s and the advisory service has been expanded by the introduction of a scheme of "familiarisation" attachments to civilian firms.

About 160 officers and 690 soldiers are due to be made redundant in 1971-72 but these numbers may be slightly reduced.

Adventurous training has been extended to include gliding, freefall parachuting, motor-cycling, skin-diving and off-shore sailing. The adventurous content of normal training is also being emphasised.

The Imperial Defence College was renamed the Royal College of Defence Studies in January. The Joint Services Staff College is being reconstituted and under its new name of National Defence College will begin a more intensive and broader-based programme of courses in September.

A new course to train air gunners to operate anti-tank guided weapons from helicopters has been introduced by Army Aviation at Middle Wallop.

A central inventory control point is planned for Bicester by 1973 when new computers on order for the Royal Army Ordnance Corps become available. Bicester will control all aspects of inventory management of stores, vehicles and ammunition in the United Kingdom under Army control. The idea of central control of the RAOC inventory throughout the world is being studied.

The Gurkha battalion to be stationed in Britain will arrive later this year.

Very few medical officers are joining and there is an acute shortage of trained state-enrolled nurses for Queen Alexandra's Royal Army Nursing Corps.

The cost of defence in 1971-72 is £2,545,050,000 or 5½ per cent of the gross national product.

The strength of the United Kingdom regular forces on 1 January 1971 was 369,300 with the Army standing at 18,600 officers, 149,600 soldiers and 5500 WRAC and QARANC.

The world strength of the Services with locally enlisted personnel was 375,600; civilian personnel supporting them totalled 333,100.

Equipment

Improvements in equipment recently made or to be made this year include completion of the re-equipment of armoured regiments in Rhine Army with the Chieftain tank; more powerful ammunition and more computing equipment for the artillery; more amphibious bridging and the new medium girder and class 16 bridges for the engineers; new 66mm anti-tank rocket and new individual weapon sight for the infantry; equipping of some helicopters with anti-tank guided weapons and stabilised sights; extended use of trunk communications systems and more night fighting devices and equipping of armoured regiments with Swingfire.

Research and development

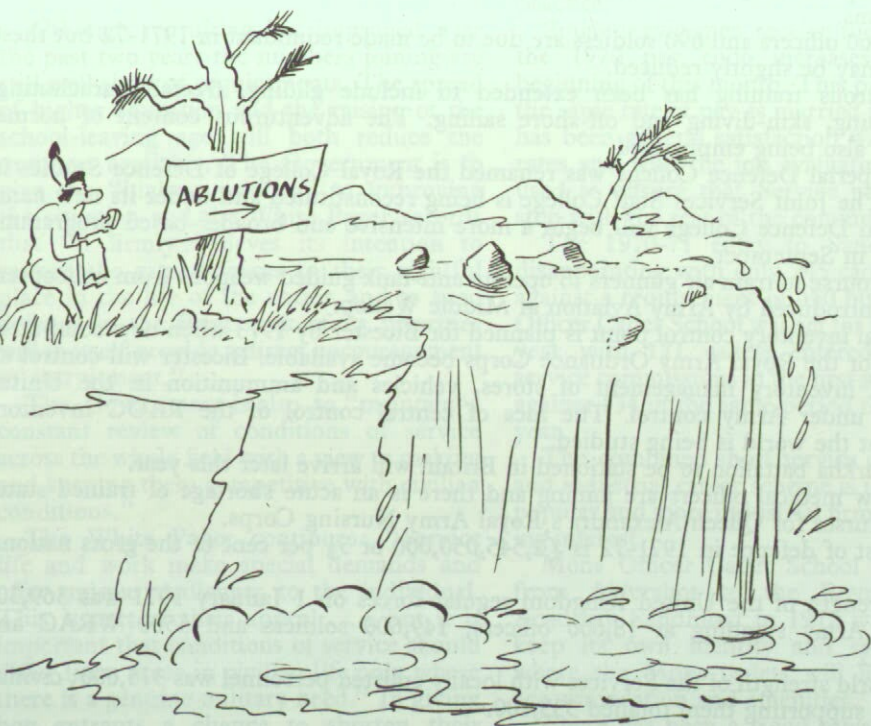
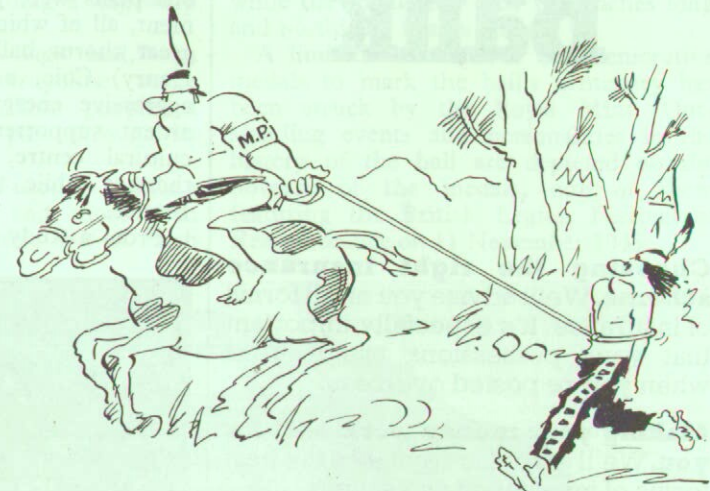
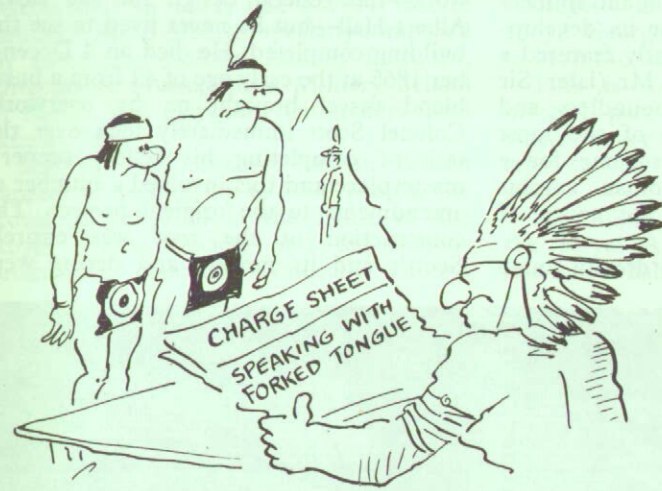
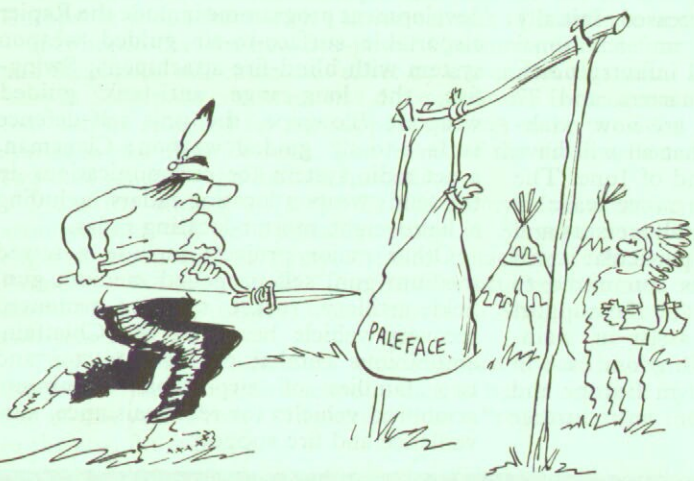
Major projects in the research and development programme include the Rapier air-portable surface-to-air guided weapon system with blind-fire attachment; Swingfire, the long-range anti-tank guided weapon; Blowpipe, the unit self-defence surface-to-air guided weapon; Clansman, a net radio system for communications in the field; weapon locating radars including a lightweight mortar-locating radar.

Other major projects include a towed medium gun, self-propelled medium gun, field artillery rocket system, armoured recovery vehicle based on the Chieftain, amphibious combat engineer tractor and two families of air-portable aluminium armoured vehicles for reconnaissance, surveillance and fire support.



RED INDIAN ARMY

by LARRY



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LONDON'S "VILLAGE

FOR a hundred years and through two world wars the Royal Albert Hall has been one of London's most famous landmarks. And it stands as a monument to the genius of two officers of the Royal Engineers—Lieutenant-Colonel (later major-general) Henry Scott and Captain Francis Fowke.

The story of the Albert Hall, now celebrating its centenary, begins with the Great International Exhibition of 1851 which inspired the Prince Consort to the idea of creating a cultural centre in Kensington.

But it was only after many postponements that the work of building the hall finally started in 1867, six years after Prince Albert's death.

Profits from the exhibition, plus a Government loan, were used to purchase an estate in South Kensington and numerous plans were prepared for its development, all of which prominently featured a great chorus hall. In 1858 Mr (later Sir Henry) Cole, a man of boundless and aggressive energy and one of the most ardent supporters of the scheme for a cultural centre, visited Roman amphitheatres while touring in the south of France.

From a study of these he drew a rough

plan for a chorus hall and sent it to Captain Fowke who had already laid out part of the Kensington estate and had also been given the task of designing the buildings for the projected 1861 exhibition. It was on this sketch that Fowke based his design for the Albert Hall.

Although a military architect, Fowke enjoyed a considerable reputation in the civil field with such notable buildings to his credit as the Edinburgh Museum of Science and Art and the interior of the Dublin National Gallery. He also designed the library at Aldershot for the Prince Consort, whose gift it was and who afterwards sent him a box of instruments inscribed "Captain Francis Fowke, Royal Engineers, as a token of respect from Albert, 1859."

In 1864 Fowke produced his last great work—the general design for the Royal Albert Hall—but he never lived to see the building completed. He died on 4 December 1865 at the early age of 42 from a burst blood vessel brought on by overwork. Colonel Scott immediately took over the task of completing his fellow sapper's masterpiece and this involved a number of amendments to the original project. The construction of the roof was entirely Scott's and its novelty and daring were



HALL" IS 100 YEARS OLD

Story by John Jesse

nothing less than sensational at the time. The unique elliptical dome—not the circle that most Londoners imagine it to be—was then the largest and loftiest in the world and it is a supreme example of 19th century technology and architecture.

Today, with the warm red-and-cream tones of its brickwork and Staffordshire terra cotta, so long dulled by London grime and now revealed by a mammoth cleaning and repair operation, the great hall looks almost as new and resplendent as when it was opened by Queen Victoria on 29 March 1871.

A hundred years later to the day a grand centenary concert was given by some 120 musicians and 400 choristers before an invited audience of 5000. The programme included "Jubilate," a work composed by the Prince Consort for the opening celebrations in 1871, and a 1971 fanfare entitled "Royal Albert," specially composed by Lieutenant-Colonel Rodney Bashford, Director of Music, Royal Military School of Music, and played by trumpeters from Kneller Hall.

Still the only concert hall in Britain capable of holding up to 7000 people, the Royal Albert Hall is the home of the Royal Choral Society and the famous promenade concerts. Naturally enough

music is the main fare but the huge building is also a favourite place for dancing and revelry, reunions, conferences, graduation ceremonies and major events in the world of sport, particularly boxing. The Royal Army Service Corps/Royal Corps of Transport Association holds a ball there every other year and it is the venue of the Burma Star Association's yearly reunion and the British Legion's annual Festival of Remembrance.

The Army Gymnastic Staff, formed in 1860 and predecessor of the Army Physical Training Corps, presented an assault-at-arms in the Albert Hall in 1878 and this was the foundation on which the present Royal Tournament was built.

Political and business meetings also figure prominently and sometimes noisily, as at one stormy meeting in 1908 when a suffragette in the balcony shouted down Lloyd George while wielding a dog-whip to keep the stewards at bay.

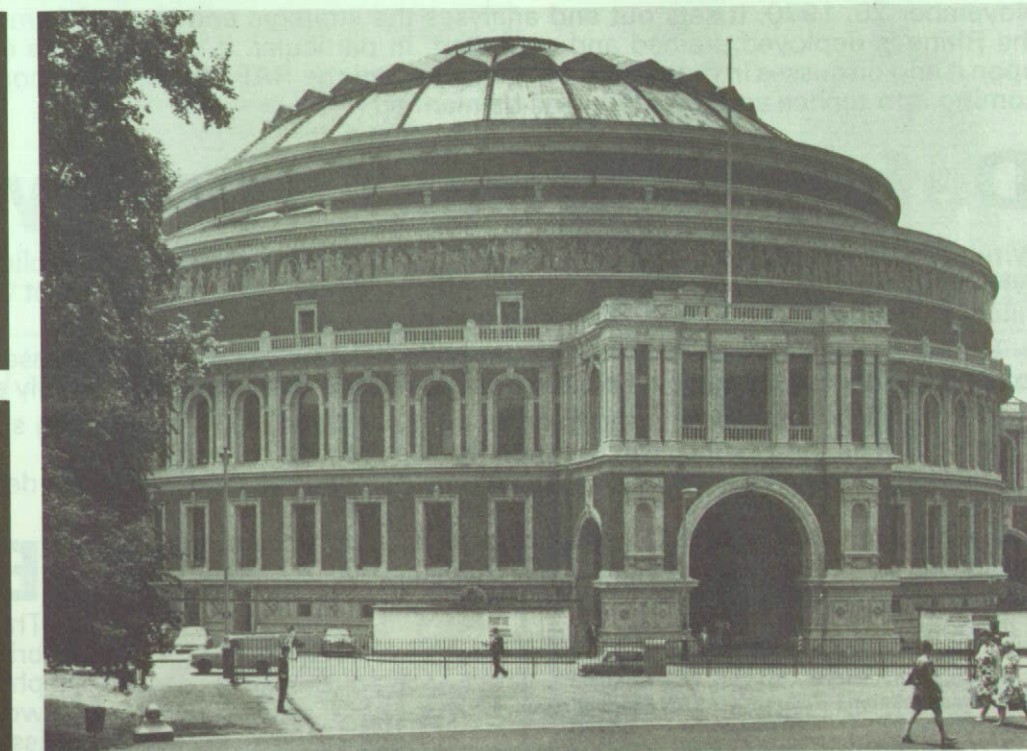
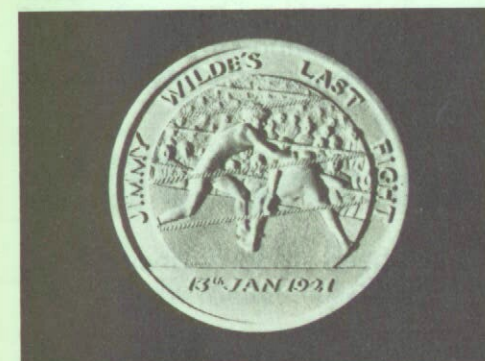
This is London's "village hall," an integral part of the metropolitan scene where every year a million people, a cross-section of society, pass through its doors.

Six million bricks were used in building the Royal Albert Hall and more than one-and-a-half million cubic feet of earth

had to be excavated. Heating was by steam pumped through five miles of four-inch pipes and light was originally provided by 11,000 gas burners which could be ignited within the space of ten seconds by an electric spark—a system perfected by the ingenious Captain Fowke. Other examples of his versatility are the formula he worked out for building a gallery in which pictures could be exhibited without glitter or reflection, a portable military fire engine, a collapsible camera, an improved umbrella and a portable bath.

When it was installed the Royal Albert Hall's great organ, weighing 150 tons, was described as "the greatest and most complete instrument in the world." Today it still ranks as one of the largest in existence, having nearly 10,000 pipes, the biggest of which is more than 40 feet long, weighs nearly a ton and has a diameter of 2½ feet, while the smallest is only two inches long and no thicker than a straw.

A limited issue of five commemorative medals to mark the hall's centenary has been struck by the Royal Mint. Outstanding events and personalities in the history of the hall are depicted on the obverse of the medals, one of them featuring the British Legion Festival of Remembrance on 11 November 1945.



"It looks like the British Constitution," Queen Victoria's description of the Royal Albert Hall.

Commemorative medals. From top: Welsh boxer Jimmy Wilde's last fight in the UK; Sir Henry Wood's last "Prom." Remembrance Festival 1945.

Far left: After its recent cleaning, part of the 800ft-long mosaic frieze encircling the dome. Its 16 allegorical groups took two years to complete.



The half-forgotten army

At any one time, about a third of the British Army, together with supporting squadrons of the RAF, is stationed in Northern Germany. These soldiers and airmen represent, within the framework of the Nato alliance, Britain's most vital defence commitment – the security of Western Europe.

Because this army seems stuck in an endless political rut there is a danger that they will become half-forgotten and that the need to maintain their military capabilities will not be given as much attention as it should.

This 32-page booklet is an updated reprint of the survey which appeared in the issue of *The Economist* dated November 28, 1970. It sets out and analyses the strategic and tactical framework in which the British Army of the Rhine is deployed, trained and equipped. In particular, it examines the effect of the change in Nato's plans upon it and discusses in detail both for the army and the RAF, the new weapons which are coming or will soon be coming into service and how they will be manned.

Defence-Britain's policy in the 70's

Within a quarter of a century Britain's traditional strategy and defence policy have been stood on their heads. Where once Britain could pursue an independent foreign policy, it now must work within the framework of formal alliances or, informal political, economic and military understandings.

The bias in Britain's defence policy towards Western Europe has increased, but while it can no longer claim to be a global power it remains a power of the second rank, which is globally aware.

Is Britain's defence policy going in the right direction? Is enough being spent on defence? Is it right to cling to professional, long service forces when its allies rely on conscripts?

These are some of the questions covered by this booklet, from the series described below.

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The Brief Book binder – Inland & surface mail 80p (16s, US\$2)



On record

"Permission to Sing Sir" (Clive Dunn)
(Columbia SCX 6434)

I don't quite know how he does it but on this LP Clive Dunn (Corporal Jones the butcher, of Dad's Army) holds you spellbound for 40 minutes, or most of it, with a series of old-fashioned, sentimental and only mildly humorous ditties and ballads. The art that conceals art, I suppose, for it is certainly not artifice; it's all as innocent, innocuous and charming as the old sojjer himself whom we know so well.

One of the songs is called "As Long as it Entertains You" and I find this as good a reason as any why Clive Dunn, of all people, should be given an LP all to himself, for he has no voice worth mentioning. And he doesn't play safe by being Corporal Jones in every number. Only when leading a platoon to Trench 42, the lads singing "We Are the Boys of the Old Brigade," and when voices join in with "Wir Sind Die Männe der Alte Brigade," does Corporal Jones realise he has bogged it yet again.

After the title song we have "The Old Brigade," "Cleaning My Rifle," "Dear Jack," the very attractive "Simone," "How

many Christmasses," "I Play the Spoons," the hit tune "Grandad," "Trifling Occurrences," "What the World Needs Now is Love" and "Permission to Leave Sir."

Permission to sing sir? Certainly, Corporal Jones—I like it, I like it. **RB**

"The Pipes and Drums of the Tenth Princess Mary's Own Gurkha Rifles"
(10GR/EP/1)

The sound of the bagpipe has captivated peoples of many nations outside Scotland and particularly the Gurkha soldier who has taken to Scotland's native instrument like the proverbial duck to water. It is quite surprising that a people with such a differing culture and with such a vastly differing native music should play the bagpipe so well. This liking for the Highland bagpipe is carefully nursed by the Gurkha regiments who have always had a close link with so many of the Scottish regiments. They see that their pipers are sent to courses either at the Scottish Infantry Depot or at the Army School of Piping thus keeping their standards up to scratch.

The musical difference between the two cultures is very apparent in the two compositions "Rambahadur VC" and "Amalgamation" by Pipe-Major Bhairamani Rai whose splendid picture appears on the record sleeve. The steady two-bar rhythm of the Scottish compositions has not been retained and one gets the impression that the measures of the tunes are incomplete but careful counting of the beats reveals that it is correct though the phrases are of differing lengths.

The remaining selections are all old favourites—"The Skye Boat Song," "The Kilt is My Delight," "Mhairi's Wedding," "The Black Bear," "My Home," "O'er the Bows to Ballindalloch," "The Highway to Linton" and finally the regimental march past, "A Hundred Pipers," at 140 paces per minute.

In general the playing of these selections is very sound and comes through in a spritely manner but as usual when bagpipes are not perfectly knit together and in unison, the sound takes on a raggedness in quality that leads one to use the phrase "The skirl of the pipes." Better tuning would have helped to large degree.

Each side of this extended play record lasts approximately five minutes. It is sold at 50p,

in aid of the Gurkha Welfare Appeal, and can be obtained from the Gurkha Welfare Appeal, Ministry of Defence (Army), Lansdowne House, Berkeley Square, London W1. **JM**

"KH Loges March Band" (Polydor 2041 100)

This EP purports, according to the blurb, to be something new in military music. I've heard it all before though, even the "original" tunes. The general effect of "Ein Platz an Der Sonne" (A Place in the Sun) is of a quite ordinary military march bloated to bursting point by excessive orchestration. The tunes are almost lost in a welter of modulation and tone colouring. The style is Big Dance Band, with horns, glockenspiel etc added and strident trumpets overall. Not new, as I say, but nevertheless quite uplifting, good swinging stuff which I can't imagine the German Army Musikkorps, for whom it seems to have been written, taking to its bosom. Not in this arrangement anyway.

The composer is Henry Loges, a Hamburg Radio conductor and arranger, and this is the signature tune of the German national TV lottery. The basic tune is typical and good of the signature-tune style and no doubt helps to sell a lot of tickets.

On the other side is a march called "Neue Kameraden" credited to the same composer. If it is a version of Teike's old march then it is only loosely so. **RB**



HOW Observant ARE YOU?

These two pictures look alike but they differ in ten details. Look at them carefully. If you cannot spot the differences see page 35.



Uniformed university

Story by Hugh Howton ● Pictures by Martin Adam

INTO the hushed hall will come a procession of professors in mortar boards and flowing robes. The Duke of Edinburgh will take his place at their head on the flower-bedecked stage. Then 60 bright young men, wearing gold and turquoise hoods and black gowns over Army uniform, will take turns to bow before him.

With the three words "I admit you," Prince Philip will confer on them the new Shrivenham BSc degree.

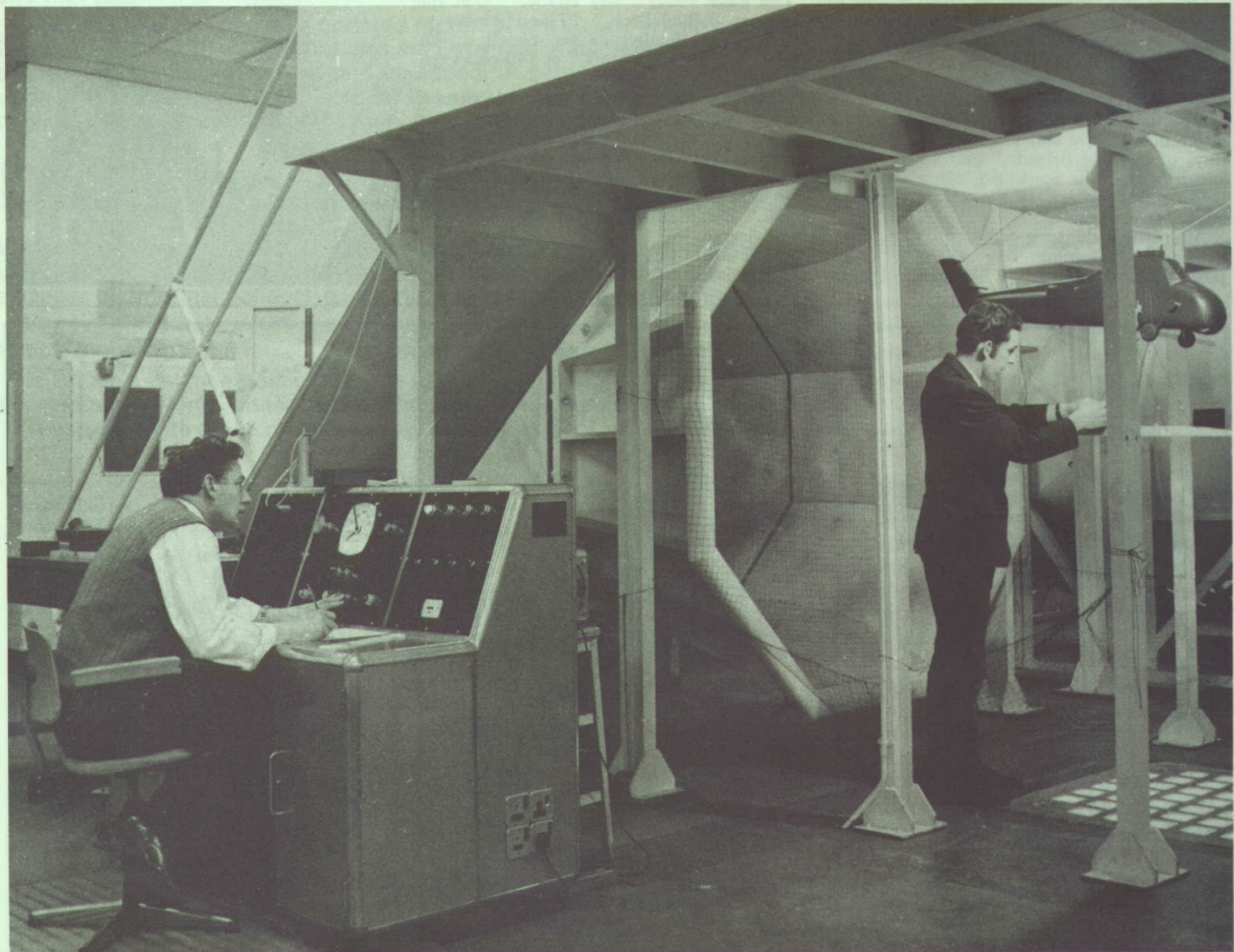
The occasion, at the Royal Military College of Science, Shrivenham, on 9 July, will have all the pomp and ceremony of an Oxbridge graduation. The new graduates will escort fathers, mothers, wives and girl friends into library and laboratory and along the poplar-lined avenues of the Wiltshire countryside campus. There will even be strawberry-and-cream teas.

Previously Shrivenham students have taken the London University external

degree, which most received as a piece of paper through the post. This year's graduates will be the first to gain the new Shrivenham BSc, awarded under the auspices of the National Council for Academic Awards.

Shrivenham in fact did well under the old system. In the past 24 years 891 students gained London external degrees. In 1969 alone they won five of the eight first-class honours degrees awarded in chemistry (special) and engineering. But the syllabus had to cater for students worldwide and could never be completely up to date. Under the newly founded National Council, which approves curricula and authorises degrees, the staff and advisory council of the Royal Military College of Science have been able to tailor their courses to Army requirements. For example the civil engineering course now concentrates on road and bridge building, which have strategic significance, and does

Below: Testing the effects of turbulence on a helicopter underslung load in the wind tunnel.



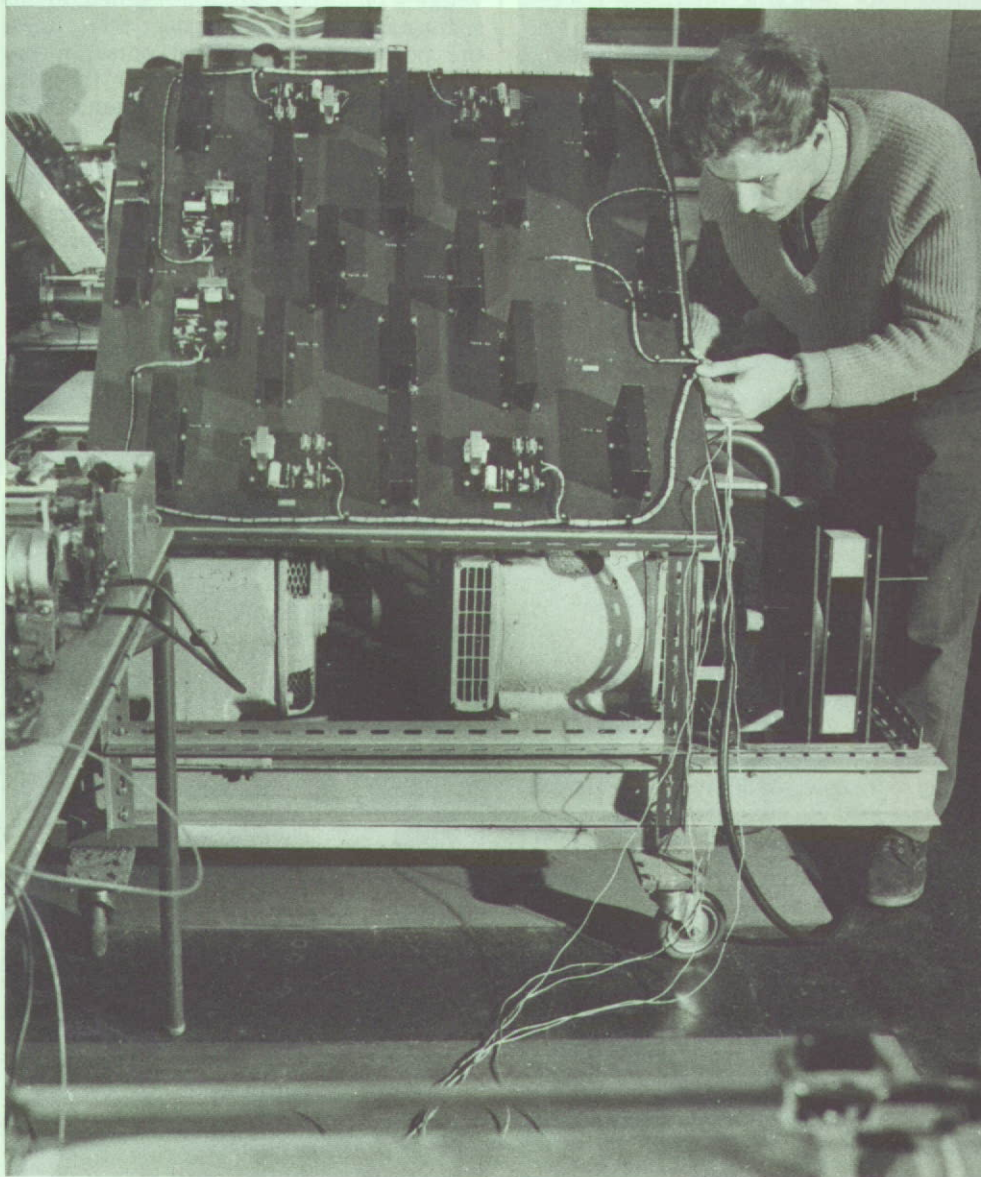


Left: Blow-forming the new zinc alloy Zam in an oven at 250 degrees Centigrade. The automobile industry has already shown great interest in it.

not much concern itself with the building of dams, canals and power stations which are of lesser interest to the Army. Also planned is a master of science degree in guided weapons—a subject offered by no university.

The best science qualified young officers at Sandhurst are creamed off to Cambridge University. But on the whole those who go on to Shrivenham achieve better results. This is probably largely due to the student-teacher ratio which is better than most universities. "Oxford and Cambridge are very good for the high flier but Shrivenham is better for the moderate sort of chap because he gets more individual instruction," explained the Dean, Dr Francis Farley. "We are training people for a life of practical management in the field rather than for academic research."

Unlike civilian universities, which have academic and financial autonomy guaranteed by their charter, Shrivenham is an



Left: Lieutenant Tony King, REME, working on thyristor commutation of a DC electric machine. **Above:** A stereo-scan microscope in operation.



"Look at this computer—it's filthy!"

Army establishment commanded by a major-general with an advisory council including three Army Board members.

Degree students usually graduate from Sandhurst and spend 18 months with their regiment before going up to Shrivenham. The two halls of residence—Kitchener and Roberts—are run on the lines of an officers mess with lecturers mixing with students instead of dining at a high table. Students wear civilian clothes but even these tend to conform to a uniform style of sports jackets and cavalry twill trousers. There is no scarf but there is a blazer badge with the Latin motto "Rerum cognoscere causus" (To understand the cause of things).

Although students are not allowed to become involved in political demonstrations, the college debating society once invited Tariq Ali to address them, but he was unable to attend. They are however en-

couraged to discuss controversial issues in the classroom. Liberal studies, a compulsory part of the course, include such subjects as "The theory of revolution," "The common market" and "Student unrest and the new Left."

Each year Shrivenham accepts up to 30 civilian students—"to prevent us from becoming too inbred and too inward-looking," said the commandant, Major-General Frank King. Some are trainees in the scientific Civil Service. But firms like Plessey and the British Aircraft Corporation, which make radio equipment and guided missiles for the Army, are particularly pleased to be able to send their sponsored students. It gives their potential executives contacts in the Army and an insight into military thinking.

Apart from taking students reading for BSc degrees in engineering and applied science, Shrivenham runs such specialist

courses as computer technology, the Royal Army Ordnance Corps long petroleum course and nuclear, biological and chemical courses.

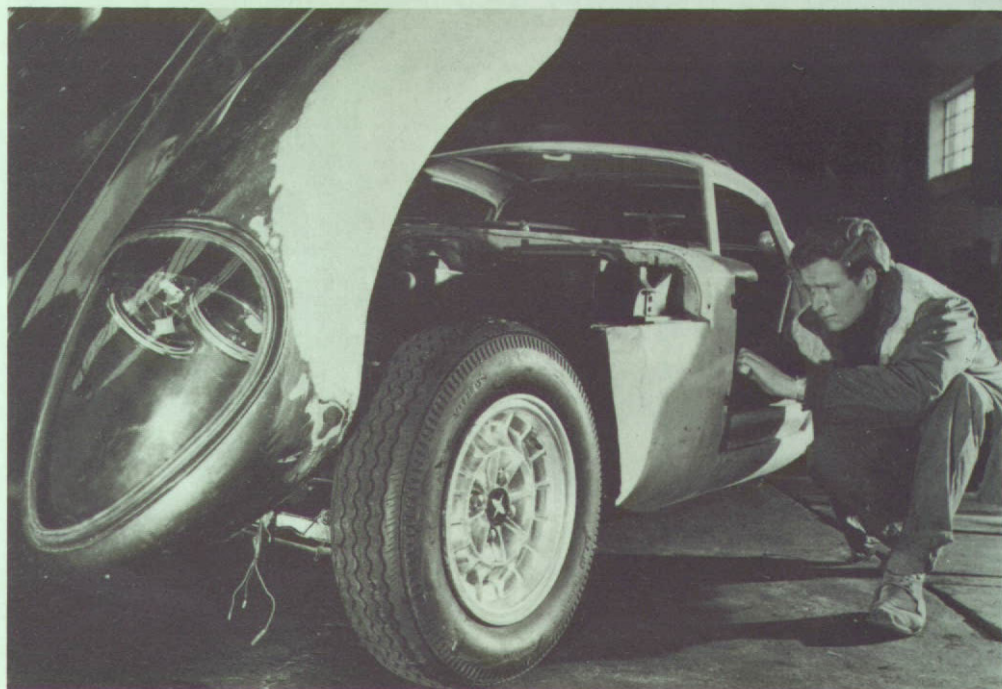
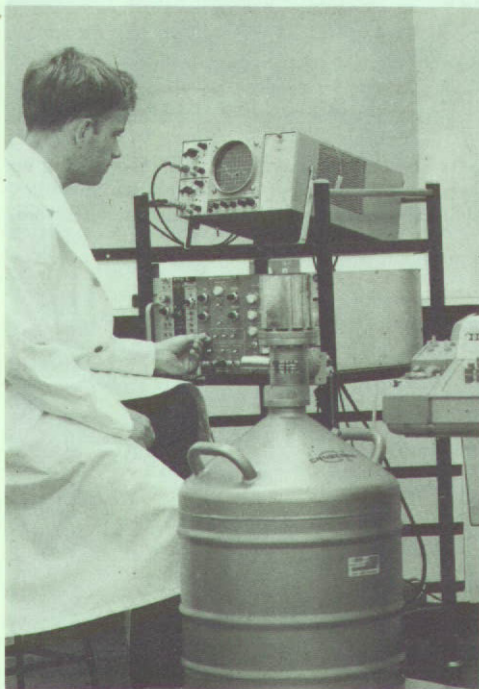
Of about 1000 students who attend each year nearly two thirds are married. With no institution comparable to a students' union building and only three girl students (one of whom is married), most of the bachelor officers have to find their social life outside the campus.

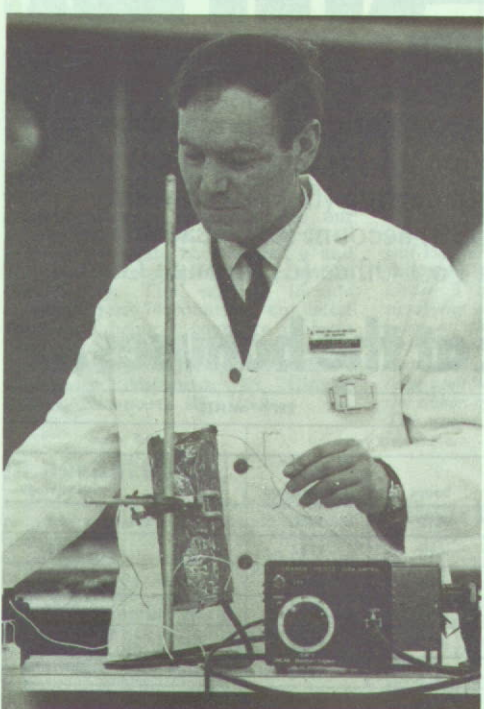
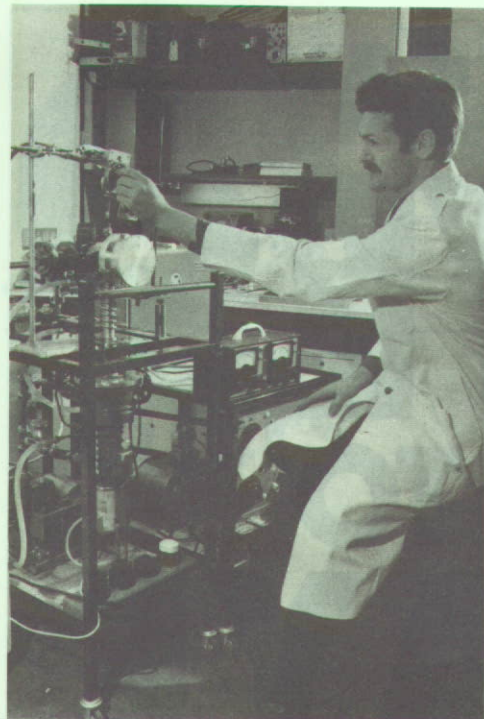
During their vacations Shrivenham students have taken part in a raft-borne expedition along the upper Nile, collected bats for the British Museum in Trinidad and Tobago and earned mates' certificates by sailing round the Greek islands. But they need not go so far afield to expend their energies. The college has first-class facilities for rugby, soccer, fencing, riding, cross-country running, tennis, cricket, squash and hockey. As there is a nine-hole course on campus, golf has become one of the most popular sports with 300 students competing for only eight colours.

One lecturer, who specialises in ballistics and is chairman of the golf club, makes use of both talents in his lectures and learned papers on the aerodynamics of a golf ball. "It is more interesting than the behaviour of a shell," he explained, "because a golf ball has lift as well as air resistance drag."

The academic staff is also engaged in more utilitarian research. The Electrical and Electronic Engineering Department is working on electric machines which do not spark and produce more than three times the power of conventional ones. In the Applied Chemistry Department they are developing a process using a luminescence spectrophotometer to detect minute amounts of LSD and cannabis in saliva, pocket linings or on fingertips.

But the greatest recent achievement has been the Metallurgy Department's production of a zinc alloy called Zam which is stronger than mild steel yet two thirds of its weight, does not oxidise and can be blow-formed at low temperature in a shaped die. Since the featuring of Zam on a recent television programme the department has been inundated with enquiries. It had 200 telephone calls in two weeks.





Above: Lecturer C Grace conducts an experiment in the Rutherford nuclear science laboratory. The lab is built in shape of a water molecule.

Top: Lieutenant Keith Rowbury, Royal Signals, uses a mass spectrometer to determine the type and amount of atoms in gas. He is in final year.

Left: You can even build your own car. Sapper Lieutenant Meryon Bridges will finish this 120 mph sports job in spare time before graduation.

Far left: Radio activity can be used to tie in bullet with murder weapon. A civilian forensic scientist experiments with this new technique.

WOs/NCOs



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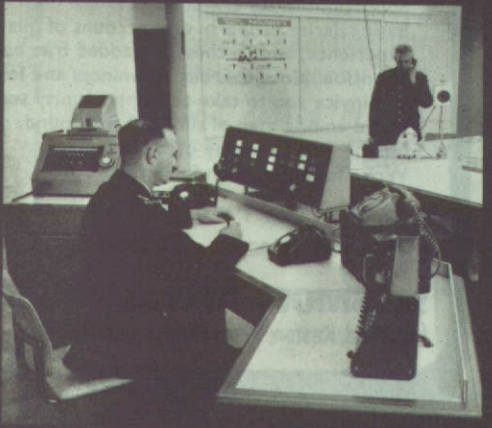
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NOT-FORGOTTEN ELEPHANTS

The Duke of Wellington's Regiment resumed wearing its distinctive elephant collar badges on 1 March. When brigade badges were introduced under the brigading system in 1958 the "Dukes" adopted The Yorkshire Brigade badge and as "collar dogs" used a smaller version of the DWR badge—about half-size and without the West Riding scroll. The elephant badge, worn as a pair facing inwards, was granted to the old 76th to commemorate

its 20 years' service in India from 1787 to 1807. When the brigades were superseded by the divisional structure in 1969 The Duke of Wellington's Regiment reverted to its old cap badge—the family crest and motto of the Duke of Wellington, showing the top half of a lion emerging from a ducal coronet. The lion holds a staff and pennant, part of which contains the cross of St George and the whole badge is mounted on a ribbon reading "West Riding."

The Duke of Wellington's is the only regiment in the British Army named after a personage not of royal blood. As a young officer Arthur Wellesley served in the regiment, later commanding it and eventually becoming its regimental colonel. Early attempts to establish the present name were turned down by the old duke who would not sanction it in his lifetime. It was eventually adopted in 1853, the year following his death.

Letters

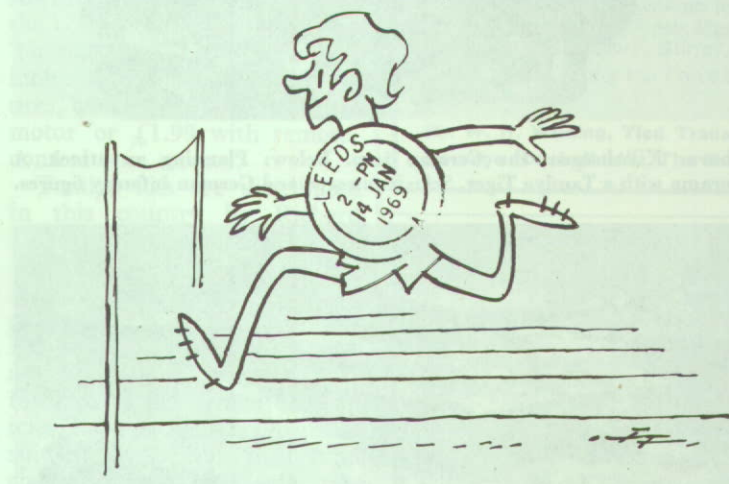
Newport Artillery Company

A few years ago our militia group was greatly honoured by a fine article in **SOLDIER** which we have appreciated throughout the years as **SOLDIER** was the first foreign publication to give us recognition. We feel that through this article and our correspondence we are now known throughout the world. The ten years since we started our military museum have exceeded our wildest expectations. People from all parts of the world have visited it and praised the arrangement and extent of the display. The exhibits include uniforms from 74 countries, our latest acquisition being a complete uniform from King Hussein.—Maj Elton M Manuel, Curator, Newport Artillery Company Museum, 23 Clarke Street, Newport, RI, USA.

In despatches

I would be grateful if you could direct me to any sources of reference material dealing with the award of "Mention in despatches"—especially when the custom began; whether official from the start, or unofficial and then regularised; authorities for the award and when the oak leaf emblem began.—J B Hopley, 187 Alison Road, Randwick, NSW 2031, Australia.

★ The origins of "mentions in despatches" are vague and indeterminate. The custom goes back to early military history when commanders reported back to their sovereign on the conduct in the field of officers and soldiers. An early example of the use of despatches to name individuals



or bodies of men in commendation of their conduct is General Schomberg's despatch to King William III regarding the Battle of the Boyne in which he mentioned the "Enniskillen men."

As time went on the custom gradually became regularised until the bronze oak leaf was introduced by King George V in January 1920 and promulgated by Army Order 3 of that year. This emblem, signifying a "Mention in despatches," is worn on the ribbon of the War Medal 1939-45, only one oak leaf being worn no matter how many times the wearer may have been mentioned. It was first worn on the ribbon of the 1914-18 Victory Medal. The award is promulgated in the London Gazette.

"Hearts of Oak"

In RB's review (December) of the record "The Band of Her Majesty's Royal Marines, Portsmouth" some doubt seems to be cast on the correct title for the tune "Hearts of Oak." Hearts, plural, is correct and, as is well known, "Hearts of Oak" is the marching tune of the Royal Navy. It was written in 1759 to celebrate the "year of victories" (eg Quiberon Bay, Glorious First of June, etc.).—Lieut-Cdr W Y McLanachan RN (Retd), War Department, Proof and Experimental Establishment, Inchterf, Milton of Campsie, Glasgow.

D-Day Fellowship

Readers may be interested to know that the D-Day and Battle of Normandy Fellowship, formed in 1968 in connection with the completion of Portsmouth Cathedral as a D-Day Memorial, continues to grow steadily. About 1200 certificates have now been issued, including several hundred to North America, Australia, Greece and other overseas countries. Many certificates have been taken out in memory of relatives who were killed in 1944 or took part in the historic operations and have since died.

An explanatory leaflet can be obtained from the Appeal Office, Cathedral House, Old Portsmouth.

The use of the phrase "D-Day" can now revert to its one and only historic use!—Commander A D Gilbert RN (Retd), Hon Secretary, D-Day Fellowship, Flat 2 Cathedral House, St Thomas's Street, Old Portsmouth, PO1 2EZ.

REUNIONS

Notices of corps and regimental reunions should be sent to Editor, **SOLDIER**, 433 Holloway Road, London, N7 6LT, at least two months before the event is due to take place. No charge is made for announcements.

RAOC Association. Annual reunion dinner 24 April, Royal Station Hotel, Station Road, York. Tickets £1 from RAOC Secretariat, Deepcut, Camberley, Surrey.

17th Armourers Reunion. Saturday 22 May at Royal Green Jackets Drill Hall, 56 Davis Street, Mayfair, London W1, 1830 hours. Open to all serving or who have served at any time as armourer or artificer weapon in RAOC or REME. Details and application forms from Maj M G Chetwynd, REME, HQ Southern Command, EME Branch, Hounslow, Middlesex. Closing date for applications 1 May but early notification would be appreciated.

13th/18th Royal Hussars. Reunion dinner Saturday 1 May, Saddle and Sirloin Restaurant, Chesterfield House, Rood Lane, London EC1. Tickets £1.25. Inquiries to Lieut-Col Palmer, Home HQ, TAVR Centre, Colliergate, York.

York and Lancaster Regimental Association. Annual dinner and dance 1 May, Metropole Hotel, Leeds 1. Applications for tickets to RHQ, York and Lancaster Regiment, Endcliffe Hall, Sheffield 10.

Royal Military Police Association. Reunion and dinner 15 May at RMP Training Centre, Roussillon Barracks, Chichester, Sussex, 7 for 7.30. Dinner tickets £1.50 from Secretary, RHQ/RMP, Roussillon Barracks. Limited accommodation available at barracks on written request to RHQ/RMP.

HOW OBSERVANT ARE YOU?

(see page 29)

The two pictures differ in the following respects: 1 Fingers of No. 4. 2 Right foot of jumping man. 3 Sideburn of No. 8. 4 Legs of spectator third from right. 5 Crossbar of numeral 4. 6 Right plank-line of springboard. 7 Numeral 9. 8 Top bird. 9 Mouth of No. 4. 10 Top of right leg of display stand.

SHIP AHoy!

Competition 150 (November) was to have closed on 15 February, with the answer and winners' names appearing in this issue of **SOLDIER**. Because of the postal strike, which prevented some competitors from sending in their entries, the competition closing date has been put back.

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Above: Kübelwagen, the German jeep. Below: Planning an attack. A diorama with a Tamiya Tiger, Schwimmwagen and German infantry figures.



Beetle and Duster

THE ubiquitous "Beetle"—the world's most popular car—was initiated by Hitler in 1933. Right up to today its design has scarcely changed, but there have been two notable exceptions, the wartime *Schwimmwagen* and *Kübelwagen*.

Hitler ordered Dr Ferdinand Porsche, designer of the present-day sports car, to make a "people's car" or *Volkswagen* which would be tough and reliable yet cheap enough for the average German family. Work began at the Wolfsburg factory in 1938 and more than a quarter of a million people paid in advance for their cars—but never got them.

Production was instead switched to a military version, the VW type 82. Rommel, the first general to use a VW, was duly impressed. He made repeated requests for extra numbers of these vehicles which were ideally suited for desert travel. But more insistent pleas came from the Russian steppes where the Wehrmacht had at

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last found a vehicle which could be used in mud and snow. It weighed only half a ton, so seldom got bogged down and could be righted by two men if it overturned.

More than 52,000 models were produced of this vehicle which came to be known as the *Kübelwagen*, from the *Kübel* or bucket seats.

The special amphibious version, useful for crossing rivers where the bridges were blown, went into 14,267 units. It had a bath-shaped body with all openings sealed by corrugated rubber tubing. To travel in water the three-bladed propeller at the rear was lowered to engage the end of the crankshaft. The *Schwimmwagen* could swim at seven miles an hour and steered by turning the front wheels.

Neat and inexpensive kits of these two vehicles, produced by the Japanese firm of Tamiya, are now available in Britain. Each kit costs 65p and is in 1:35th scale (four inches long). Neither is motorised and the *Schwimmwagen* is not suitable for putting in water. Each kit incorporates an officer and two soldier figures, an informative instruction sheet with comprehensive painting details plus transfers which include swastika and SS markings and the

death's-head insignia of the 3rd SS Tank Division.

Modellers with a penchant for unconventional vehicles will be interested to know that Tamiya has also recently released a self-propelled "Duster." This vehicle, officially designated M42, consists of twin 40mm anti-aircraft guns mounted on the chassis of the M41 tank. It was developed for the United States Army in 1950. The kit, in 1:35th scale and including three crewmen figures, costs £1.60 with a single motor or £1.99 with remote-control twin motors.

Tamiya kits are distributed in this country by Richard Kohnstam Limited of 13 High Street, Hemel Hempstead, Hertfordshire. This firm, which goes under the trade name of Riko, recently began marketing a useful series of transfer packs for aircraft and armoured vehicles. Each pack costs 49p and is suitable for aircraft in 1:72nd and AFVs in 1:35th scale.

One set is of markings for the British tanks Centurion, Cromwell, Crusader and Churchill. The most colourful, for the Boeing B-29 Superfortress, include voluptuous lovelies like "Battlin' Betty," "South Sea Sinner" and the subtle "Dina Might."

HH



Above: Turret tête-à-tête. US Army tank crew in an M42 "Duster" SP gun.

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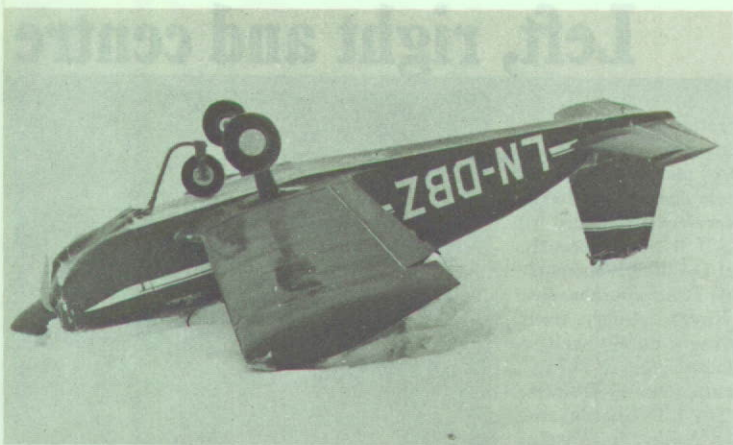
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Search and rescue

WHILE training with NATO forces in Norway, on Exercise Hardfall, British Army helicopters of 3rd Division were alerted to stand by for a search and rescue operation. A civilian light aircraft, caught in a blinding blizzard, had crashed 5000 feet up in the mountains.

The aircraft, a two-seater Yankee carrying pilot and passenger, had just completed a sales demonstration flight and was on its way back to Oslo. Heavy snowstorms continued to lash the area and search operations were hampered until the early hours two days later.

Concern was by now mounting—survival in arctic conditions, despite heavy clothing, can sometimes be for only a few days—but a Scout helicopter spotted a red flare and saw the wrecked aircraft.

The Scout, piloted by Lieutenant John Grieg, of 663 Aviation Squadron, who was accompanied by a Royal Norwegian Air Force liaison officer, Captain Bjorn Jaeger, picked up the Yankee's pilot and passenger and flew them to 15 Field Ambulance at the exercise's base hospital. The two survivors were examined by an Army doctor and appeared to be none the worse for their ordeal.

From a report by Army Public Relations, 3rd Division.



Top: The Yankee aircraft upside down 5000 feet up in the mountains. Above: Lieut John Grieg, pilot of the rescuing Scout helicopter. Below: The rescued Norwegians, Gudmund Dilkestad and Olav Sorenson.



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Left, right and centre

Unusual main attraction at a car firm's Croydon showrooms was a Bofors gun. But not really out of place as the Dove Group of motor vehicle distributors has a special department for servicemen headed by Lieutenant-Colonel J H Walters, recently retired from the Royal Corps of Transport. In the picture (right) Lance-Bombardier William Fetches, Royal Artillery, from Woolwich, is showing a Bofors shell to (left to right) recruiter Sergeant "Chip" Standley, Royal Signals, Colonel Walters, Trooper John Dutton, The Life Guards, and Dove executive Mr Jack Ashby. During the display newly married Corporal D P B Usher, Royal Signals, and his wife called to collect their new Maxi before leaving for Rhine Army.



Past and present linked the Army Air Corps and the Royal Air Force in a ceremony at Minden, Germany, when Squadron-Leader Jack Fleming from RAF Topcliffe was presented with an inscribed tankard as first honorary member of 658 Army Aviation Squadron. He was a sergeant with 658 Air OP Squadron, RAF, which supported the Army advance to Luneburg Heath in World War Two. He handed over (right) a photograph of the original 658 Squadron to Major David Nichol, the present commanding officer.



It all began with a TAVR officer writing to the Daily Mirror that he could not get a decent kipper in Germany. Egon Freiheit, enterprising journalist on a German newspaper, Bild Zeitung, took up the challenge and bet a Rhine Army public relations officer, Lieutenant-Colonel Colin Fitzpatrick, that their country could cook a kipper just as well. The stake was settled at an English teapot to a case of German kippers and the battle fought (above) in a five-star Hamburg hotel. The judge, a Swiss gastronome, declared that the German kipper had won. And Herr Freiheit went happily away, not with the English teapot but with two bottles of whisky. Photo: BILD-Zeitung



Captured on canvas (above). Former official war artist Bernard Hailstone chats with Field-Marshal Sir Gerald Templer after Sir Gerald unveiled his portrait at the Duke of York's Headquarters in Chelsea. Field-Marshal Templer is honorary Colonel of D Company (London Irish Rifles) of the North Irish Militia in whose mess the portrait will hang. Mr Hailstone has also recently completed a picture of Princess Anne for the 14th/20th King's Hussars.



A band contingent (above) from the Brigade of Gurkhas is in Britain and will be seen at the Royal Tournament and the tattoos at Edinburgh, Cardiff, York and Colchester and at more than 30 other engagements throughout the country. This is the largest band contingent from the Brigade ever to appear in the United Kingdom and has a strength of 137 plus a display team of 30 which will perform a jungle scenario and a kukri dance. The men come from regiments stationed in Singapore, Hong Kong and Brunei, a part of the world where their units have been on active service almost continuously over the past 20 years. The four will focus attention on efforts of the Gurkha Welfare Fund to reach its appeal target of a million pounds.



When 72-year-old Mrs Jeannie Caldwell travelled 10,000 miles from Australia to Scotland she was fulfilling a promise to her late husband Thomas, a former sergeant in 12th Battalion, The Royal Scots Fusiliers, who before he died two years ago asked her to give his Victoria Cross to his old regiment. Mrs Caldwell presented it personally in Glasgow (left) to Major-General Charles Dunbar, Colonel of The Royal Highland Fusiliers (an amalgamation of The Royal Scots Fusiliers and The Highland Light Infantry). The regiment paid her civilian air passage from Adelaide to Singapore, from where she was flown by the Royal Air Force. The Victoria Cross will be on permanent exhibition at the regimental museum in Sauchiehall Street with a copy of the citation telling how Sergeant Caldwell captured an enemy machine-gun position single-handed at a farmhouse near Audenarde in 1918. The regiment's two living Victoria Cross holders, Mr David Lauder and Mr John Hamilton, watched the presentation.

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BOOKS

From then till now

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This important work surveys the military historical spectrum worldwide from the beginning of recorded time to the present. It includes the narration of wars and campaigns in general and the concurrent growth of the military art—tactics, strategy and weapons. In preparation for over a decade, this 1404-page volume is divided into 21 chapters, each with an introductory essay summarising the highlights of the period covered.

An exhaustive and meticulous general index, cross-referenced, includes all names and events mentioned in the text and there are two additional index sections, one for battles and sieges, the other for wars.

The book is so organised that a reader in search of some specific incident or personality or even type of military activity should be able, once he has located it, to relate it immediately to the local and world situation obtaining at the time and to the current practice of warfare. It is also possible to pursue the general course of the military history of a region or nation by following the appropriate sections from one chapter to another. An extensive bibliography includes general references as well as those of specific significance for each individual chapter. Supporting the text are nearly 170 maps and a number of photographic illustrations and sketches. The book itself is splendidly produced and comes in a special protective box cover featuring a particularly pleasing painting of Napoleon at Waterloo.

Macdonald, £8.50

JFPJ

Raised by a Scot

"The Bedfordshire and Hertfordshire Regiment" (G W H Peters)

This story, in the "Famous Regiments" series, began in Reading in 1688 when the 16th Foot was created by a Scot, Archibald Douglas. As an ex-Royal Scot it was only natural that he should clothe his men in red uniforms lined with white and with grey breeches and stockings. They had little time to train. Within a year they were fighting the French at Walcourt. Soon they had Namur as a battle honour and under Marlborough added Blenheim, Ramillies, Oudenarde and Malplaquet.

Now renowned for their *esprit de corps* and discipline, the 16th policed the outposts of Empire, making roads through the Highlands, maintaining law and order in Ireland, suffering disease and hurricanes in the West Indies and spending long years in India and Ceylon. In 1858 a second battalion was raised.

The long spell of non-active service ended with a posting to the North-West Frontier. Later, in South Africa, they served as mounted infantry. In World War One The Bedfordshire and Hertfordshire Regiment fielded only eight battalions, but at the cost of 20 battalions' casualties. At Thiepval Ridge in one vicious action they won a Victoria Cross and five DCMs. During World War Two five battalions served abroad—they were at Dunkirk, Tobruk, Singapore, Djebel Aoud, Burma and Cassino.

Their deeds, done with honour, can be recalled with pride.

Leo Cooper, £1.75

AWH

Back in 1795

"Reflections on the Menaced Invasion" (George Hanger)

A certain Colonel George Hanger, former Hessian Jager in the American War of Independence, in 1795 sent his comments on the possibility of invasion by France of

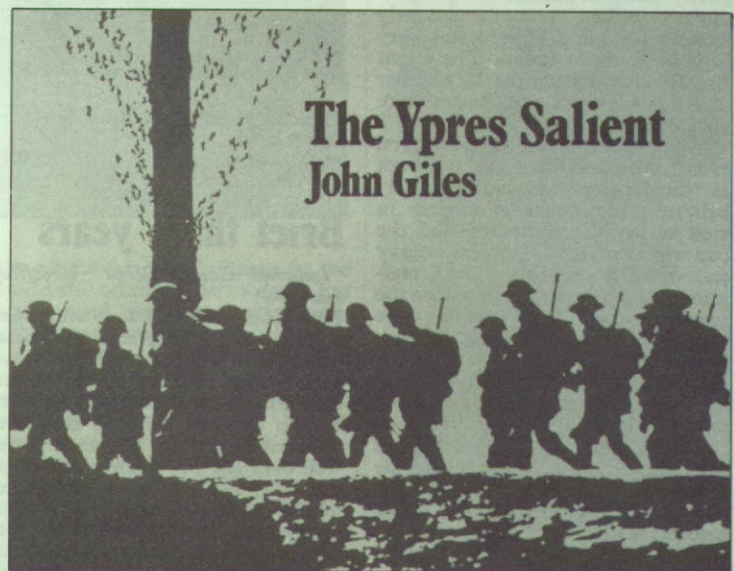
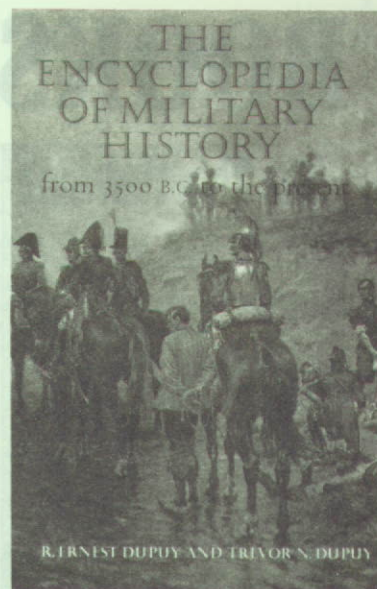
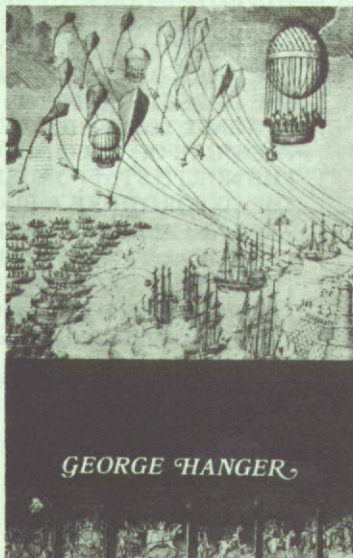
England, and the best means of countering it, to the Earl of Harrington. Hanger's views, sound and essentially realistic, were the product of four years' tramping across southern England surveying the topography and studying likely defence positions.

Hanger estimated that an invading force would require at least 50,000 men and 3000 vessels. By closely observing the effect of winds and tides he was convinced that the only feasible line of attack was up the Thames. He suggested a transfer of the bulk of the Army from Brighton to nearer London and urged the scuttling of ships at key points in the river and the immediate construction of floating batteries, gunboats and fire-ships. He also argued that the population should be armed and taught to harass the invader. As a last resort Hanger was prepared to flood vast areas of the country.

Fortunately there was no need to put his ideas to the test. This reprint of the 1795 publication is highly interesting and astonishingly modern.

E & W Books, £2.50

AWH



Graveyard of hopes

"The Ypres Salient" (John Giles)

In the devastation of war few places have suffered so much and for so long as martyred Ypres. In 1914 it was a little-known town of 17,000 inhabitants, famous for its 12th century cloth hall. Standing in a tiny corner of Belgium near the French border and in the direct path of the advancing German armies, it was inevitable that it would suffer.

Four huge battles were fought in and around "Wipers" and for the hundreds of thousands of Commonwealth troops who fought in the Salient every little village, wood and hill became a familiar name—Hell-Fire Corner, Gheluvelt, Hooge, Hill 60 and Ploegsteert Wood. The quiet, beautiful countryside was turned into a crater-pocked lunar landscape. Trees became shattered skeletons as bullet and shell tore away leaves and bark. Wrecked tanks lay in a vast sewage heap. Homes were reduced to obscene ruins in a sea of mud and the smell of death was everywhere.

Within four years Ypres became the greatest graveyard in history. Some 200,000 Commonwealth troops alone died in the salient and are buried in 150 cemeteries in the area. Everything was on a colossal scale—on the Menin Gate Memorial there are 55,000 names and on the Tyne Cot Memorial near Passchendaele there are 34,000 more.

The author captures the mood of the Ypres Salient with a vast collection of photographs, some from

the 1914-18 war and some from today, linked with extracts from letters, diaries, poems and maps.

Leo Cooper, £4.20

AWH

Airfield protectors

"A Short History of the RAF Regiment"

There was little need to protect airfields in World War One and it was not till 1922, when the Government began its policy of air control of under-developed territories, that armoured car units were required to defend bases in Iraq and Transjordan. The 1940 campaign in France showed how useless the Lewis gun was as a modern weapon and with 365 RAF stations to defend in the UK alone there was a tremendous task ahead. The dramatic German success in Crete goaded the authorities into establishing in 1942 the RAF Regiment. Its duties were to defend airfields and installations against ground and low-level attacks. Later these tasks were extended to cover fire, crash and rescue services.

Units were sent abroad to replace Army formations in West Africa and before long the RAF Regiment was in action in Algiers, Sicily, Italy, France and Burma. It fought on almost every front with considerable success—its men protected Slav partisans in the Balkans, were the first to land in Greece, shot down the first enemy jet plane, captured Focke-Wulf's chief designer and at

BOOKS

more

one stage took 15 enemy airfields and 50,000 prisoners. Since the war the regiment has served in Palestine, Malaya, Cyprus and Borneo.

This first detailed history makes very interesting reading and has masses of photographs.
E & W Books, £2.50

AWH

Crimea campaign

"The Thin Red Line" (John Selby)
Although fashionably known as "The last gentleman's war," the Crimean campaign was essentially stupid in origin and characterised by a mixture of bravery and useless sacrifice. Yet all the participants had confidently welcomed the challenge. Colourful armies of Turks, Bersaglieri, Cossacks, Zouaves and Sardinians milled around aimlessly looking for glory. There was very little of it to be found. The Light Brigade charge was a ghastly blunder and the Malakoff and Redan were virtual death traps.

While most of the commanders, even Lucan and Cardigan, were not as incompetent as is commonly believed, they were powerless in view of army organisation and the bad winter of 1855. Cholera, scurvy and dysentery combined with malnutrition and exposure to wither the armies away. The British were luckier than most in having Florence Nightingale, the "Lady with the Lamp," and Alexis Soyer, who did so much to improve the quality of food for the troops.

The best British commander was Sir Colin Campbell who alone of the senior officers had had recent experience in action. His use of his beloved 93rd Highlanders was extremely skilful. The French were far more professional and very brave. Even the Russians were far from being the cannon fodder that some writers have suggested.

This is a fascinating book based on eye-witness accounts of Surgeon Munro, Captain Ewart, Captain Hodasevich, Colonel Wimpffen and Captain Loizillon. There are plenty of maps and more than 60 plates,

The Thin Red Line

JOHN SELBY



some coloured and quite a few very rare indeed.

Hamish Hamilton, £3.00

AWH

Brief three years

"Imperial Camel Corps" (Geoffrey Inchbald)

Few people believed that white men could ever learn to ride the camel but in 1916 it was decided to form a camel corps and the author volunteered from the Berkshire Yeomanry to join the 2nd (British) Battalion. Trained near Cairo in temperatures well over the 100 degrees the corps was soon ready to cover an area of 50,000 square miles, much of it unexplored. It was given the task of bringing the Senussi—religious fanatics led by Nuri Bey—to accept British control. This was a tough proposition as the Senussi had a mobile force of 8000 equipped with modern machine-guns and even artillery. Endless marching and patrolling, with the constant risk of mutilation if captured, were the only answer and in 1916 the Senussi gave up. The campaign against the Turks

and Germans in Sinai and Palestine was much harder.

The author paints a delightful picture of Arab nomads with their five-foot long flintlocks banded in silver, the heliographs flickering messages from dune to dune, the menacing hover of the vultures and the comical jerboa.

This unofficial history of the camel corps' three-year existence is most interesting. There are some unusual photographs and helpful maps.

Johnson Publications, £1.75

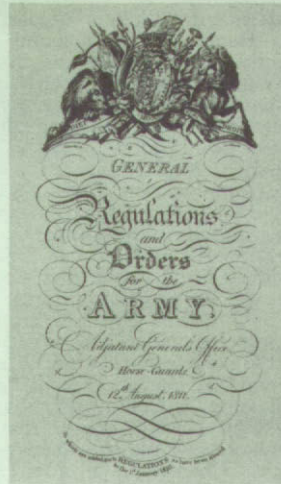
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What price colonels?

"General Regulations and Orders for the Army 1811"

This is a facsimile edition of the General Regulations and Orders for the Army issued by the Adjutant General's Office, Horse Guards, 12th August 1811. To which are added such Regulations as have been issued to the 1st January 1861. By Command of His Royal Highness, The Commander-in-Chief. And what a gold mine it is!

Some of the most interesting regulations are those dealing with



the purchase of commission, abolished in 1871. The price of lieutenant-colonels was fixed at £4950 for the Royal Regiment of Horse Guards, £4982 for dragoons, £6700 for foot guards and only £3500 for infantry of the line. Officers involved were required to certify "Upon the Word and Honour of an Officer and of a Gentleman" that they had neither given nor received more than the prescribed maxima.

There is a general impression that a soldier's life in the Army at the time of Waterloo was inhumanly brutal. A study of these regulations shows that the standards of that time were comprehensive and humane. Many will be familiar to soldiers serving today.

Muller, £3.00

RHL

Queen Victoria's regiment

"The Micks: The Story of the Irish Guards" (Peter Verney)

The bravery of Irishmen in the South African War persuaded Queen Victoria to take up a suggestion made in a letter to the Times and form a regiment of Irish Guards. Although the direct descendants of the famous "Wild Geese" (Irish mercenaries) of the 18th century, the regiment had to be created from scratch. Ceremonial duties and the occasional manoeuvre were the only forms of real excitement until 4 August 1914. The Irish Guards were sent to France in time to take part in the Mons Retreat.

For the next four years they had their full share of constant shelling, bomb and bayonet attacks, gas, mud, mines, gangrene and gas and were almost wiped out at Ypres. The "Micks" helped to carve all the immortal names: Festubert with its enfilading machine-gun fire, Hill 70 and the Chalk Pit at Loos, the Somme and Passchendaele, and bloody Vieux Berquin where the 2nd battalion was shattered. At a cost of 8000 casualties they won



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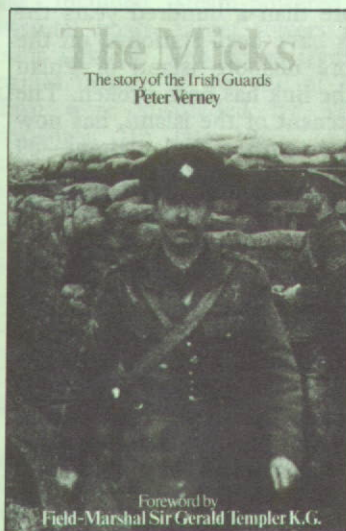
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almost a hundred decorations, including four Victoria Crosses.

In World War Two the Micks licked their wounds after Norway, Holland and Boulogne, and took the first steps in the long fight back in North Africa at Recce Ridge and Point 212 and later in the furious fighting in the Campo di Carne at Anzio. As part of the Guards



Armoured Division the Micks fought in Normandy against Tiger and Panther tanks. After the war came long spells of internal security and "hearts and minds" duty in Palestine, Tripoli, the Canal Zone, Cyprus and Aden.

An interesting, well-written and at times quite moving account of a splendid regiment. There are plenty of good maps and plates.

Peter Davies, £3.00

AWH

"Sergeant of the Waggon"

"The Royal Army Service Corps" (Graeme Crew)

This addition to the "Famous Regiments" series clearly shows wars would be impossible without the men who supply the food and equipment. One of the earliest references comes from 1415 when Henry V appointed a "Sergeant of the Waggon of the Household."

The first breakthrough came in the Peninsular War when John Bissett and Robert Kennedy, the Duke of Wellington's two "unsung heroes," kept an army of 53,000 men supplied by 10,000 pack mules. Various units were now formed to bring supplies to fighting formations. Although the Corps of Waggoners, The Royal Waggon Corps and the Royal Waggon Train had gloriously impractical uniforms they were stumbling towards a system of sorts.

The decision to disband the Royal Waggon Train in 1833 was a disaster as the Crimean War soon demonstrated. Fortunately the Army profited from its mistake and by 1856 a Military Train was in existence with soldiers able to fight as well as deliver supplies. General Buller's Army Service Corps, created in 1888, gave the army highly efficient supply services. In the final advance into the Sudan in 1898 the British column employed 2469 horses, 896

mules, 3524 camels and 229 donkeys.

ASC units fought on every World War One front from France to Mesopotamia and from North Russia to the Cameroons. Their efforts were prodigious and the statistics staggering. In 1918 they were feeding an army of three million men and half a million animals in France alone. For this they had something like 332,000 officers and men and 48,000 lorries, cars and tractors.

The corps was renamed the Royal Army Service Corps in 1918 and its part in World War Two, what with Pluto and Mulberry, was so extensive that the story required a history of over 700 pages when it was published in 1955! This is an interesting volume of more than 300 pages packed with detail.

Leo Cooper, £2.50

AWH

Nunquam ulterior

"The Queen's Malabars" (Andrew Graham)

It was 1781 and a British unit was surrounded by thousands of howling Senussi amid the treacherous shallows off Van Diemen's Land. The young officer in command, Lieut Grant Tyldesley, drew his sabre and led his men forward in a last, forlorn charge. As this volume in the "Not So Famous Regiments" series records, this was only an episode in the long and gallant history of The Queen's Malabars (200th Foot).

George Aloysius Cardew founded the regiment in the West Indies in 1656—although the enlisted men were generally shaven-pated Creoles and Caribs, he was careful to pick only Lincolnshire men for his officers and NCOs. The Queen's Malabars entered the 18th century to the strains of the famous march "Bobadillo," from the Prelude to Act III of Gluck's comic opera, "Enobarbus in Austria." Soon they were helping to carve out an empire for Britain. The Manitoba campaign of 1736-37 was particularly hard as was their great battle honour, Nixon's Gap, won in the American War of Independence.

Throughout the 19th century The Queen's Malabars lived up to their motto of "Nunquam ulterior." Although they missed Waterloo because of misdirections they would have contributed a great deal to Wellington's victory. The remainder of the century was fairly peaceful apart from the mysterious loss of their commanding officer, Colonel the Hon Adolphus Bekynton-Tarbat, from egg poisoning.

Like every other regiment the Queens' Malabars saw some pretty hard fighting in World War One. In World War Two they fought on in the Western Desert long after the enemy had surrendered.

In 1963 it was decided to disband this fine old unit and at Market Blisworth in August 1964 The Queen's Malabars paraded for the last time. Although not easily found in the Army List they were steady, fearless, fighting men full of *joie de vivre*, *élan* and *esprit de corps*. When sober they were even more terrifying.

This volume (which took eight years to compile) has some grand sketches and a fascinating chapter on the regimental silver.

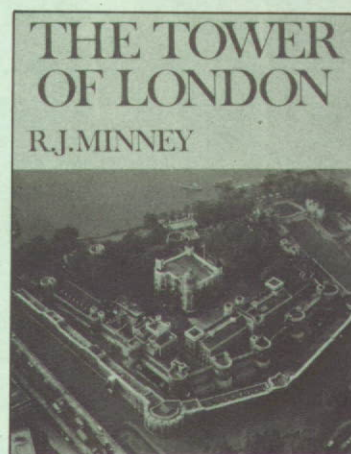
Leo Cooper, £1.25

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IN BRIEF

"The Tower of London" (R J Minney)

For 900 years the skyline of London has been dominated by the gaunt outline of the Tower. Older than the Doge's Palace in Venice, the Kremlin, Vatican or Louvre, it is



the oldest fortified building in the world still occupied. In its day it has been royal residence, menagerie, observatory, prison, arsenal, mint and repository for state archives.

The Tower was especially renowned as a prison and its grim walls bear silent witness to the many men and women who passed through Traitors' Gate to the scaffold. The list includes great names of history—William Wallace of Scotland, Henry VI, the two princes, Sir Thomas More, Anne Boleyn, Katherine Howard, Lady Jane Grey, Earl of Essex, Sir Walter Raleigh, Strafford and Archbishop Laud.

As this beautifully illustrated volume aptly shows, the history of the Tower of London is the history of England.

Cassell, £5.25

"American Civil War Infantry" (Michael Blake)

A concise yet detailed guide which describes—mainly for the benefit of the modeller and military uniform enthusiast—the organisation, dress, arms and equipment of both Union and Confederate infantrymen in the American Civil War. The many illustrations include badges of rank, flags and standards, formation signs, small arms and uniforms. A selection of contemporary lithographs and engravings in the heroic style of the period show troops in action.

Instructive and good value.

Almark, £1.25 hard cover; 87p paperback

"French Napoleonic Artillery" (Michael Head)

Packed with information, this handy little book gives a remarkably comprehensive account of Napoleon's artillery forces, their weapons and equipment, organisation, uniforms and saddlery. The detailed descriptions of uniforms, illustrated with line drawings and eight colour plates, will be particularly welcomed by model soldier collectors.

Almark, £1.40 hard cover; £1.00 paperback

Here is the ladies' news



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Pull-out from Pulau Brani

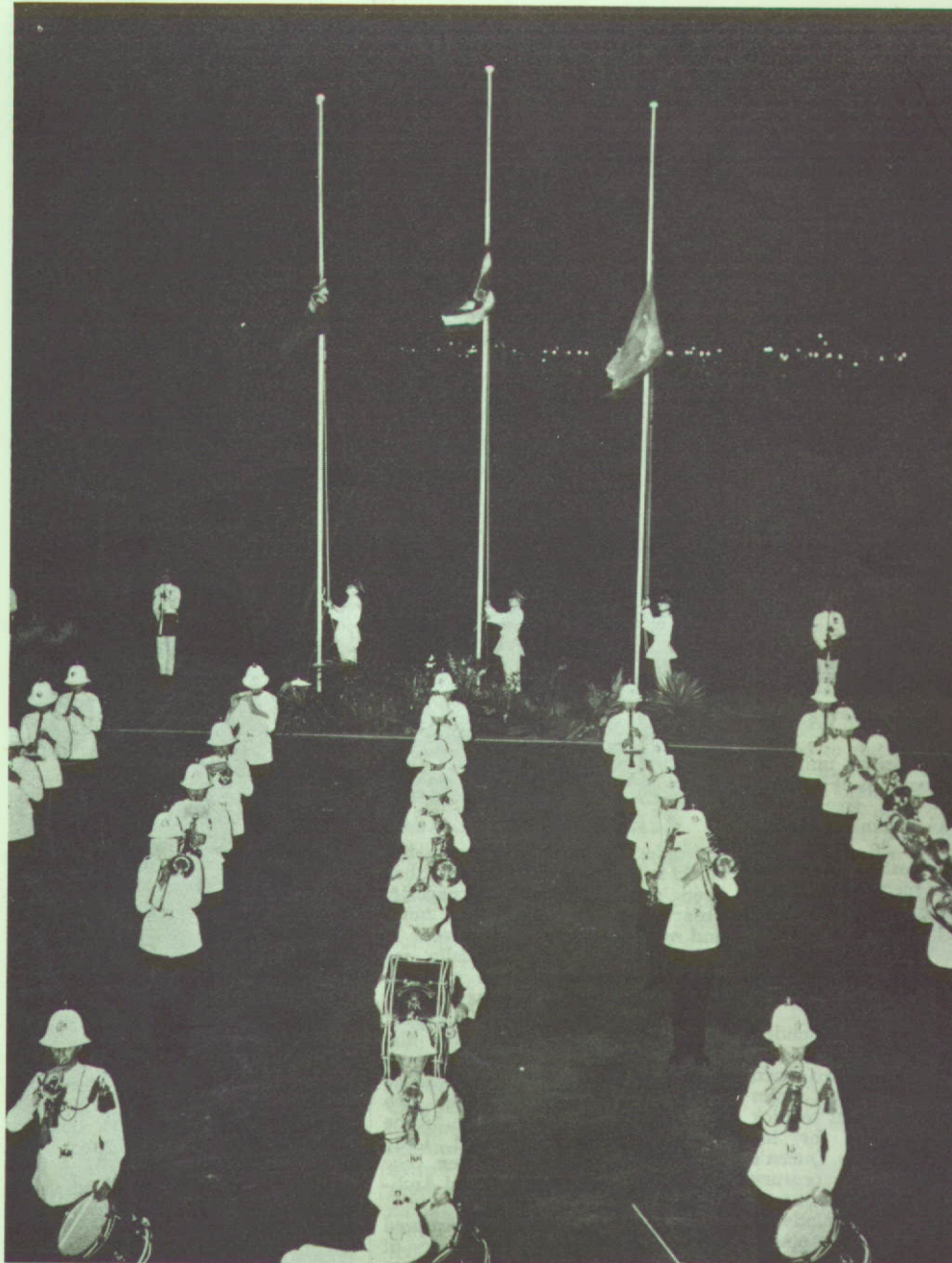
FOR more than a hundred years the Services have been stationed on the Singapore offshore island of Pulau Brani. Now the link has been broken. The Army, main tenant of the island, has now left and its two-thirds of Pulau Brani—89 acres on which stand about 80 buildings—have been handed over to the Singapore authorities.

In a floodlit farewell ceremony, staged by 33 Maritime Regiment, Royal Corps of Transport, and watched by invited guests and many of the island's civilian population, the flags of Far East Land Forces, the Royal Corps of Transport and the Royal Corps of Transport Fleet were lowered in fading light as trumpets sounded Sunset.

Earlier the Commander Far East Land Forces, Major-General Walter Thomas, inspected a guard, dressed in *songhoks* and sarongs, of 33 Regiment's locally enlisted soldiers. Then they and the unit's British soldiers lined the parade ground while the band of 3rd Commando Brigade, Royal Marines, beat Retreat.

Pulau Brani's military history is thought to have started with a Royal Navy coal depot around 1859. An ordnance depot was established in 1893 and the buildings which then held stores and ammunition

Left: The flags are lowered for the last time on Pulau Brani. Below: During Confrontation police boats and launches patrolled the Johore Strait.



still exist today. There too were the gunners and sappers. The island was part of the chain of Singapore's fixed defences; emplacements, fortifications and associated magazines and galleries are still to be seen. Most prominent are Fort Teregah, which bears the date 1895, and Fort Silingsing, the island's highest feature. Before World War Two a sapper fortress company was stationed on the island and a large sapper badge was recently discovered facing the eastern anchorage.

Water transport on Pulau Brani goes back to well before World War One and has included steam-powered launches, hospital boats, target towers and locally built lighters. The water transport companies formed at the end of World War Two were succeeded by 37 Maritime Squadron. In late 1965, following the introduction of the Royal Corps of Transport, 33 Maritime Regiment was formed to take over 37 Maritime Squadron, 74 and 75 landing craft tank squadrons, 54 Maritime Workshop (Royal Electrical and Mechanical Engineers) and 6 Maritime Stores Depot (Royal Army Ordnance Corps), all of which were on Pulau Brani, plus 10 Port Squadron, a former Royal Engineers unit at Tanjong Berlayer.

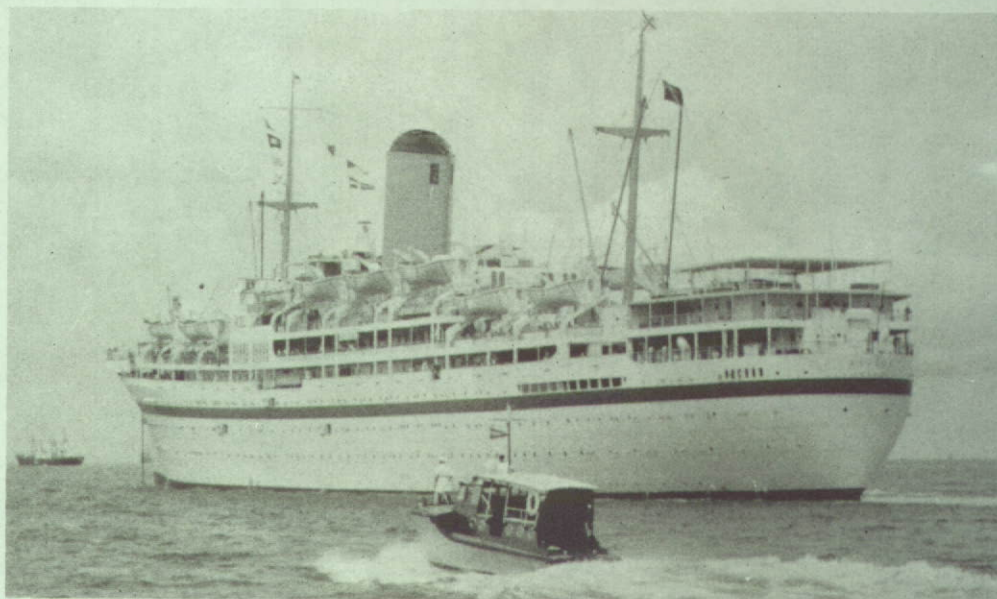
The new regiment provided launches, tank landing craft and lighters for support of Far East Land Forces. It also provided light aircraft in 130 Flight, which flew its Beavers back to Britain last September on disbandment; air despatch in 55 Air Despatch Squadron which ended 25 years' Far East service with air drops over the East Pakistan cyclone disaster area before returning to the United Kingdom; and 200 Hovercraft Squadron which held trials in the Far East for an 18-month period ending in September 1969.

The headquarters of 33 Maritime Regiment have now moved to Tanjong Berlayer for disbandment and the regiment's work will continue on a reduced scale.

From a report by Army Public Relations, Far East Land Forces.



Above: Hovercraft of 200 Squadron carried mapmakers to offshore islands. Below: Flashback to the days of 37 Company RASC—fast launch Fowey meeting the troopship Nevasa arriving from Hong Kong.







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