

# Look-in

Junior TVTimes No 4 30 Jan 1971 Every Friday 1s. (5p)

Great  
'Aladdin'  
pantomime  
competition  
inside!

Free tickets to be won

★SPECIAL SUPPLEMENT★  
THE GREATEST  
SHOW ON EARTH  
A LOOK-IN ON TELEVISION

# Look-in

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## New programmes on the way!

NEWS came through this week from two television companies that three programmes which became very popular last year are going back into production for a further series each.

Thames Television is busy at the moment setting up scripts for 'Ace of Wands', which as you will remember is an out of the ordinary spy adventure story featuring Tarot, a modern-day illusionist and wizard. 'Bright's Boffins' from Southern TV is also coming back and that should make everyone who enjoys comedy very happy. With Oswald, the cuddly creature from outer space, Group Captain Bertram Bright will be getting into all sorts of trouble once again.

Also from Southern TV comes the news that Freddie and the Dreamers will be back in the Overland in a new series of 'Little Big Time'. So there's a lot to look forward to later on in the year.

In the centre of this week's issue of LOOK-IN you will find an extra four-page pull-out supplement on 'The Greatest

Show on Earth'. Without doubt, television is the world's most enjoyed form of entertainment and it is fitting that LOOK-IN, the only television magazine for children, should present the whole fascinating story of television, from its early beginnings to modern day techniques.

There are so many interesting pictures to show and so much to say, that I have decided to tell the story in two parts. So pull out the first supplement from this issue and keep it safe until next week when part 2 will complete the picture of 'The Greatest Show on Earth'. Once you have collected both parts of this fact-filled extra, you will be able to clip it together and show it to your friends. And when they start asking questions—you'll have all the answers at your fingertips!

*Alan Yarnell*



### The Stars are waiting

Ed 'Stewpot' Stewart, Peter Cleall and Bobby Bennett are waiting for your letters and jokes. These great names are included in a long list of famous stars who have agreed to select and introduce any letters which are of special interest and any jokes which are funny and original. 'Your View' stars next week in LOOK-IN, so get busy. You could win a £1 postal



order—together with a special, signed photograph of the 'Your View' star.

Write to the address below, making sure to tell 'Your View' your 1st and 2nd favourite LOOK-IN features and the article you don't like—if there is one!

'YOUR VIEW', LOOK-IN, Independent Television Publications Ltd., 247 Tottenham Court Road, London, W1P 0AU.



# Crowther in trouble

I'M LATE FOR THAT SPECIAL 'ROAD SAFETY' OUTSIDE BROADCAST, OF ALL THE LUCK. JUST WHEN MY CAR'S PACKED IN, TOO...



THIS IS STUPID - THE FILM IS ABOUT WHAT THE MOTORIST SHOULD DO - BUT I HAVEN'T EVEN GOT A CAR!



BUT ALL IS NOT LOST...



AH, HONEST FRED! I WANT TO HIRE A CAR!

BARGAIN!



IT'S ALL WE HAVE LEFT, MR. CROWTHER, BUT IT'S A REAL GOER!

THEY DON'T MAKE 'EM LIKE THAT NOWADAYS...

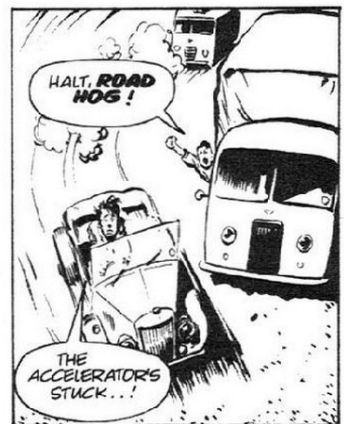


I'M NOT SURPRISED!



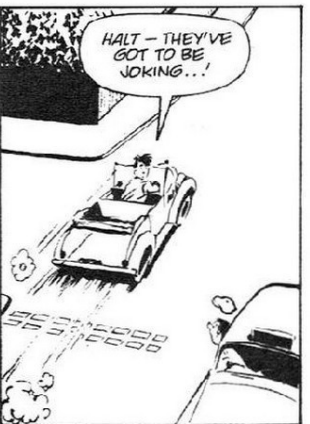
THERE HE GOES - O.K. LET'S GET CRACKING...

DODD! THE STEERING'S NOT RIGHT!



HALT, ROAD NUG!

THE ACCELERATORS STUCK...



HALT - THEY'VE GOT TO BE JOKING...



OH, NO! I NEED A PARACHUTE! THE ONLY PART WORKING IS ME!



I DAREN'T LOOK - YEEEEKS!



MY HEART'S STILL BEATING - I MUST BE ALIVE! BUT I'LL NEVER GET TO THE BROADCAST!

WONDERFUL ... CUT!

THAT WAS FABULOUS, LESLIE - JUST WHAT WE NEEDED FOR THE ROAD SAFETY FILM!

MIND YOU, WE'LL HAVE TO RE-TITLE IT ... WE'LL CALL IT...



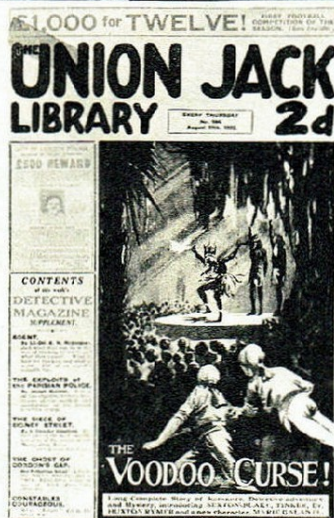
... "THE THINGS A MOTORIST MUST NOT DO!"

THE PRODUCER WAS DELIGHTED! HONEST FRED'S CAR TURNED OUT LUCKY, BUT NEXT TIME I'LL BORROW A BIKE!



# On the trail of super-detective SEXTON BLAKE

by reporter Bill Swallow



**S**EXTON BLAKE was first published in 1894 in a magazine called 'The Marvel' selling at a halfpenny. Immediately established as a popular character, Blake has now taken on folklore status and is known throughout the world.

In 1922 the magazine 'Union Jack' featured Sexton Blake stories and more recently Thames Television recognised the ace detective's great following and so a new audience, the TV viewer, was introduced to the super sleuth.

Now published by Howard Baker in hard cover form at 21/- it is interesting to see how Sexton Blake's price has changed since the days of 1894.



From his latest series, Sexton Blake lands in the desert—and more trouble!

**W**HAT has made Sexton Blake such a world famous crime fighter . . . and why has the Thames TV series been so popular?

I motored down to Teddington Studios to find some of the answers, and to meet the stars of the programme.

Title role actor Larry Payne looks exactly like you'd expect Sexton Blake to look—tall and charming.

"I used to save every penny of my pocket money to buy Sexton Blake comics," he remembers. "Blake was my greatest hero—if only they'd had TV in those days . . ."

What is the secret of Blake's tremendous and growing success?

"Blake is different to all the other modern-day heroes—and he doesn't have all the gadgets like James Bond or the Saint. So he has to rely on sheer brainpower."

Setting the Sexton Blake adventures in the Roaring Twenties has its problems. Everything has to be exactly right—a viewer would soon spot a too-new car or a distant TV aerial in the background!

Larry explained that the producer always likes to shoot outdoor scenes in the autumn: "Then the dead leaves hide the white lines in the middle of roads. They didn't have white lines in those days."

Did you know that Larry is a famous Shakespearean actor? Roles like Macbeth and Romeo are every actor's dream. But Larry reckons that playing his boyhood hero is one of his greatest joys.

## Perfect assistant

And what about Tinker, alias Roger Foss? Roger, a young Cockney just like Tinker, is making a big name for himself in pantomime and pop records. He has been everything from a butcher to a laundryman in his time. So how come he's so perfect for the part of Blake's ever-loyal but sometimes-in-trouble assistant?

When the cameras stopped rolling, he explained. "I know Larry's way of acting just as well as Tinker knew Sexton's way of crime-solving. I can always tell exactly what he is going to do in front of the cameras which means it is always done very naturally."

It is, too—retakes are rare on the Sexton Blake set.

But hold on—we're forgetting the third of the terrible trio, Blake's fearsome looking bloodhound Pedro.

Pedro is played by Sanguine Saintly, who lives in Hampstead. Seeing Pedro's hungry set of gnashers made me terrified of meeting him. "Good afternoon," I said, very politely. I needn't have worried—a wag of a tail and a big wet lick meant we were friends for life!

Sanguine is a pro actor all the way through. He's never late for rehearsals, and nobody has yet heard him complain about those long working hours—although, sometimes, Roger has to carry a big lump of cheese around with him to stop him wandering off behind the cameras!

A crash-landing in the desert, somewhere between Tangier and Timbuctoo—and Sexton Blake escapes from the burning aircraft.



Pedro the bloodhound howls mournfully. But he needn't worry, Tinker is only stunned!



# FREEWHEELERS



TRYING TO LOCATE THE ROUTE USED BY FOREIGN AGENTS TO GET SPIES OUT OF BRITAIN, MI6 ARRANGE FOR CONVICTED TRAITOR, JOHN STRATHMORE, TO ESCAPE FROM PRISON. STRATHMORE IS HELPED BY THE FOREIGN AGENTS AND LEAVES A TRAIL THAT MAJOR GRAHAM AND THE FREEWHEELERS FOLLOW TO A DISUSED TIN-MINE IN CORNWALL. WHILE MIKE AND SUE PURSUE A SUSPECTED AGENT, GRAHAM AND MAX INVESTIGATE THE OLD SHAFT. THEN...

RUN, MAX!  
THE ROOF'S  
CAVING IN!



JUST IN TIME THEY REACH  
THE PROTECTION OF  
STRONGER TIMBERS...

IT... IT SEEMS  
TO BE  
STOPPING!

PHEW!  
THAT WAS  
CLOSE!



THROUGH THE FALLEN RUBBLE  
THE MAJOR SEES A GLIMMER  
OF LIGHT...

MAX, THE TUNNEL'S  
NOT BLOCKED  
COMPLETELY. WE  
JUST MIGHT BE  
ABLE TO DIG OUR  
WAY OUT!

THIS OLD  
SHOVEL  
MIGHT  
HELP!



THEY WORK IN DESPERATION...

IT'S GETTING EASIER,  
MAX. I RECKON THAT  
TUNNEL COLLAPSE  
WAS CAUSED BY  
THE FOREIGN  
AGENTS!

YES, IT'S A BIT ODD  
THAT IT STOOD UP ALL  
THESE YEARS AND IT  
ONLY GIVES IN WHEN  
WE COME ALONG!



AN HOUR  
LATER...

THAT'S THE  
LAST  
BOULDER.  
COME ON,  
MAX...



THEY SCRAMBLE TO SAFETY...

WE'RE ON  
TOP OF A  
CLIFF!

YES. THE  
OLD TIN-  
MINE  
WORKINGS!

John Badley



AND LOOK DOWN THERE — THE SEA! DO YOU THINK THE AGENTS USE THAT TUNNEL AS PART OF THE ESCAPE ROUTE?

NO, IT IS TOO DIFFICULT TO REACH A BOAT FROM UP HERE. THAT OTHER SHAFT — THAT IS PROBABLY THE RIGHT WAY!



SUDDENLY, THE BLAST OF A LOCOMOTIVE'S WHISTLE DRIVES THEM TO THE OTHER SIDE OF THE HEADLAND...

LOOK! IT'S MIKE AND SUE. THEY HAVE CAUGHT UP THE OTHER LOCO!



MIKE BRINGS THE PRESERVED ENGINE TO A HALT...

WE CAN'T GO ANY FARTHER — IT'S A TERMINUS!

I KNOW. LET'S SEE WHAT THE DRIVER OF THE OTHER LOCO DOES!



DO NOT MOVE! WE WILL NOT HESITATE TO SHOOT YOU!

NOW, GET DOWN FROM THE TRAIN VERY SLOWLY!



AH, GOOD! GREGOR AND HOLST HAVE TAKEN CARE OF THE OTHER TWO IN THE MINE. ONCE WE HAVE ELIMINATED THE BOY AND GIRL, OUR SECRET SPY ROUTE IS SAFE ONCE MORE!



GET THEM INTO THE COACH AND LOCK IT SECURELY. OUR FRIENDS WILL SOON HAVE AN ACCIDENT — ON THE OLD BRIDGE!



MAJOR GRAHAM AND MAX OBSERVE THE WHOLE SCENE...

COME ON — LET'S GET DOWN THERE!

THIS WAY! THERE'S A PATH!



MEANWHILE, FOR MIKE AND SUE, THERE SEEMS TO BE NO ESCAPE FROM THE SEALED COMPARTMENT...

THESE WINDOWS ARE NAILED IN POSITION!

MIKE! WE'RE MOVING!



TWO OF THE SPIES SHUNT THE TRAIN BACK TO THE SIDING...

WHEN WE ARE CLOSE TO THE BRIDGE WE WILL LEAP CLEAR!

AND THE TRAIN'S WEIGHT WILL CRUMBLE THE ROTTING TIMBERS FOR SURE!



TEN MINUTES FARTHER UP THE WINDING, CLIMBING TRACK...

THE BRIDGE IS AHEAD!

READY! JUMP!



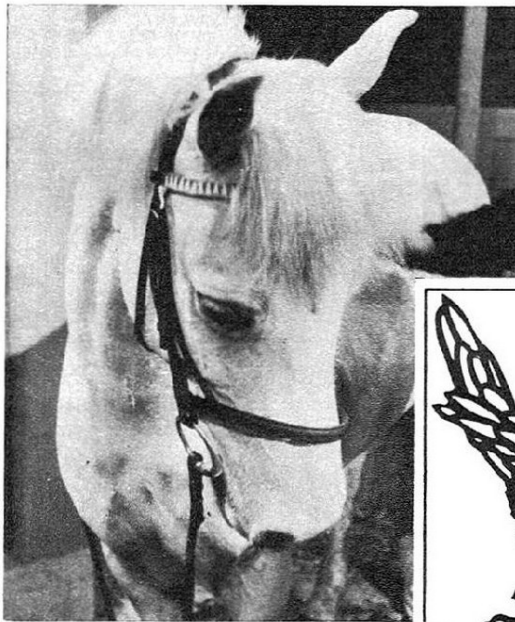
AND THE TRAIN IS LEFT TO SPEED ON...

MIKE! DO SOMETHING — QUICK!

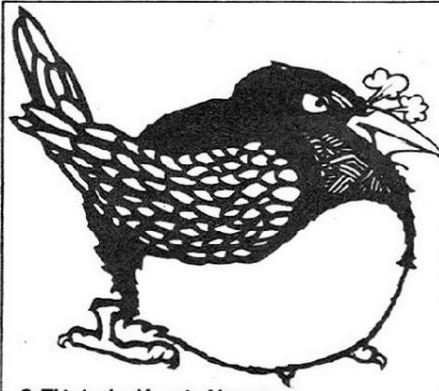
Next Week: A violent crash course!

# Play the **MAGPIE** Memory Game

Here are some questions that should keep you guessing. All the answers have appeared in LOOK-IN or on recent Magpie TV programmes. See how many points you can score and have fun testing your memory.



- 1 Here is Puff the Magpie Pony.**  
 a) How many hands high is he? (Score 3 points)  
 b) Is he a Welsh Mountain pony, Shetland or Shire? (1 point)  
 c) What special course did he pass? (3 points)



- 2 This is the Magpie Mascot.**  
 a) What is the bird's name? (1 point)  
 b) What are Magpies famous for? (2 points)  
 c) Which other bird has the same characteristic? (3 points)



- 3 Magpie gave some helpful football tips in a recent programme.**  
 a) Who is the Crystal Palace player? (3 points)  
 b) Who's the Irishman on the right? (1 point)  
 c) For which club does he play? (1 point)



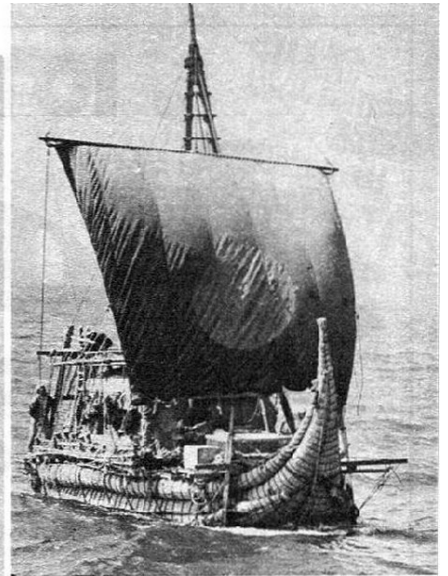
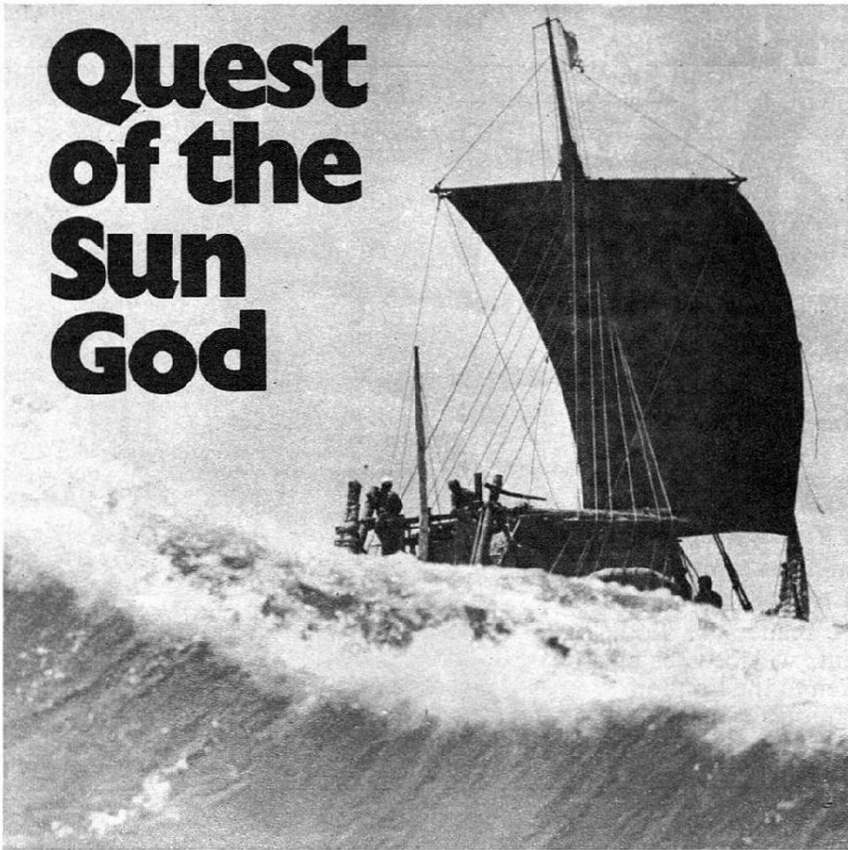
- 4 Here is a picture of Pete, Sue and Tony on the Magpie boat. Can you:**  
 a) Name the boat? (1 point)  
 b) Name the class of boat? (2 points)  
 c) Remember from where it was launched? (5 points)



- 5 This magnificent Magpie float appeared in a famous show.**  
 a) What is the annual ceremony called? (1 point)  
 b) In which month did the show take place? (2 points)  
 c) In which city was it held? (1 point)



# Quest of the Sun God



'Ra' sets sail to face the powerful waves of the Pacific!

**K**ON TIKI—an incredible craft which set out on an amazingly dangerous journey, across the mighty Pacific Ocean—an historic event which you will already know about if you watched the Magpie programme on Thursday (January 28). Remember now? Scientist and adventurer Thor Heyerdahl was the man behind the expedition, a trip which took the flimsy, balsa-wood raft over a hazardous four-thousand-three-hundred miles to prove the long-questioned theory, of whether the Polynesians could have originally reached the South Sea Islands from the shores of Peru, in a similar craft.

Many years later in 1969, the daring Norwegian announced *another* expedition. This time he would cross the Atlantic in a boat made of *paper*! It was to be called 'Ra'—after the Egyptian sun god. Historians had long noted similarities between civilisations of the Mexican Mayas, the Incas of Peru and the Egyptian Pharaohs. Thor Heyerdahl wanted to discover if it was possible for the Egyptians to have crossed the Atlantic Ocean in a boat made of papyrus reeds.

After setting out, a serious fault was discovered in the design. When copying the early Egyptian reed boats, 'Ra's' designers had noticed a rope leading from the top of the

curved stern to the deck. They believed it was merely a decoration. In fact, it would have held 'Ra' together like a bowstring.

Now, slowly, the craft became waterlogged and started to *sink*! The final blow came with a savage storm which ripped at the weakened boat. Thor was forced to radio for assistance as repairs were impossible due to the number of sharks in the neighbouring water. Thus 'Ra' failed to reach the Yucatan Peninsula.

Though bitterly disappointed, the Norwegian was undeterred. The following year he set out in another papyrus boat on the same journey. His unbending determination, coupled with good luck—which had deserted him earlier—now enabled him to succeed. 'Ra' arrived safely—and the world once more hailed the courage of Thor Heyerdahl and his faithful team.

Thor Heyerdahl with his family after completing his epic 'Ra' journey!



**Answers to Magpie Quiz**  
 1 a. 12.2 hands high; b. Welsh Pony; c. Police course.  
 2 a. Murgatroyd; b. Hoarding have a vivid memory.  
 20-27 points: Good. Only one or two of the questions tripped you up.  
 Under 20 points: Well, maybe you haven't been watching Magpie or reading LOOK-IN lately!

**How did you score?**  
 28-30 points: Excellent. You b. November; c. London.  
 4 a. James Magpie; b. Jenny Wren Class; c. Shepperton.  
 5 a. The Lord Mayor's Show.

# 10 FREE Aladdin tickets to be won

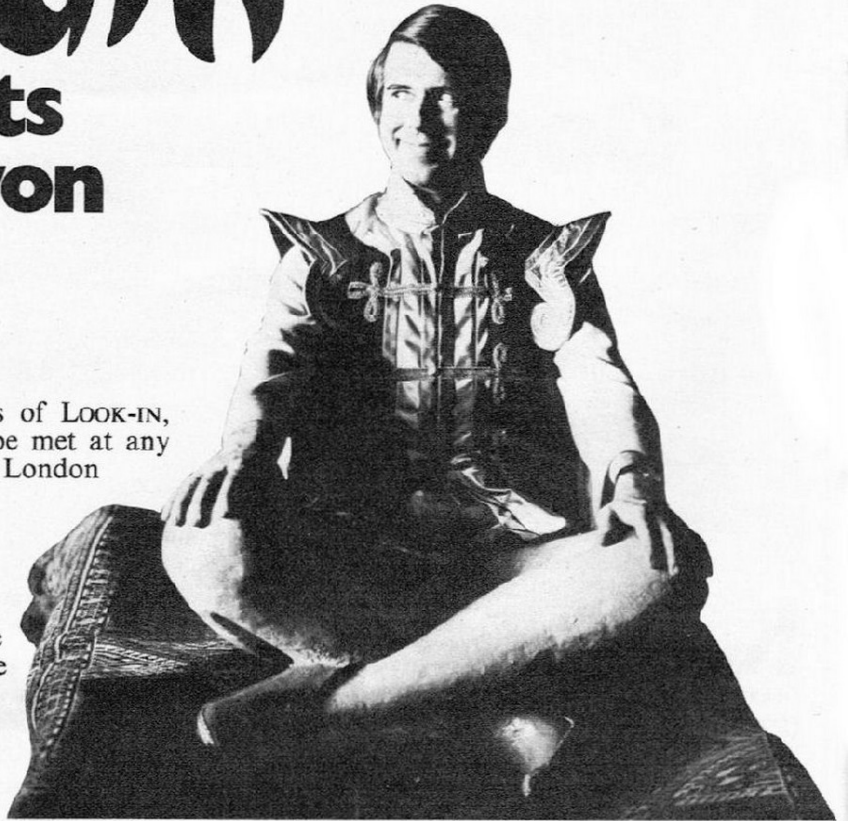
*You don't have to rub a magic lamp to win this fabulous LOOK-IN prize. Just enter the simple competition outlined below and you could be sitting in a special guest seat at the London Palladium.*

## **The Prize**

On Saturday, February 27, five readers of LOOK-IN, each accompanied by one parent, will be met at any London mainline station and taken to the London Palladium—the world's most famous theatre.

At 1.30 in the afternoon the lucky winners will be given an interesting tour of the theatre before taking their special seats for the matinee performance of the most spectacular pantomime in the country—'Aladdin'.

After the show, Leslie Crowther will have tea with the prize winners in his dressing room.





## About the Show

Aladdin at the Palladium until April 17, stars Cilla Black, Leslie Crowther, Alfred Marks, Terry Scott, Basil Brush, Sheila Bernette and a host of famous personalities.

Rich in colour and music, Aladdin is a pantomime that lives up to the great tradition of Palladium masterpieces.



## The World's Greatest Theatre

Now firmly established as the Ace Theatre of the world, the famous London Palladium occupies the site of what was once the town residence of the Duke of Argyll.

The original old building was pulled down in 1870, and a hall known as the Corinthian Bazaar erected on the site. After further reconstruction during the years 1882-84 the building housed the famous Hengler's Circus, and the present safety-curtain (which is lowered and raised in the presence of each audience), shows the building as it was in those days.

In 1895 this was converted into an ice-skating rink known as the National Skating Palace, and in 1909 Mr. (later Sir) Walter Gibbons acquired the premises, and opened after further rebuilding, the London Palladium Music Hall in December, 1909.

## What you have to do

By using paints, crayons or any other method that suits you, design a poster for the Palladium's Aladdin pantomime.

Don't worry if you're not the best artist in the world—the best posters are often those that are simple and direct.

A catchy slogan, a photographic montage or just a pretty picture—there are many ways your design could be approached.

Don't make your poster larger than 10 inches x 15 inches, or you'll have difficulty in posting it to the LOOK-IN offices, and make sure you enclose the completed entry coupon on this page.

All entries must arrive not later than Monday, February 8, and the senders of the five posters which, in the opinion of the judges, show the most originality, will be sent two tickets and full details before Friday, February 19.

## Rules

All entries will be examined and prizes awarded in the manner described. Neatness and age will be taken into consideration.

## Entry is FREE

The competition is open to all readers in the U.K. other than relatives or agents of employees of Independent Television Publications Ltd.

The Editor's decision is final in all matters pertaining to this competition and no correspondence will be entered into.

Winners' names will be printed in No. 11 of LOOK-IN, dated March 20, 1971. The closing date for the competition is Monday, February 8, 1971.

Winners will be notified by post by Friday, February 19, 1971.



## Look-in Aladdin competition

Name .....

Address .....

Age.....

Parent's signature .....

Post to: Aladdin Poster Competition, LOOK-IN, 247 Tottenham Court Road, London, W1P OAU.

The Cacomistle climbs a mesquite tree (below) or a paloverde tree to avoid the heat of the sun.

The Raccoon with baby (right) is a desert relative of the Cacomistle.



Last of four articles about the Arizona desert, by Colin Willock

# Sands beneath the sun

[Photographs courtesy Jen & Des Bartlett]

**W**E'VE looked at the Arizona desert in all kinds of different moods. We've seen its burning heat and its torrential annual rainstorm. We know that some creatures escape the heat by hunting at night and sleeping during the day. But there is a day-shift in the desert, as well. In this final article, I would like you to meet the day-workers.

The sun has just come up over the distant mountains. It's barely warm yet—a mere eighty degrees! By midday, the temperature on the desert floor will have reached *one hundred and eighty!*

As you walk around in the comparative cool of the early morning, you spot the darting forms of many lizards. We're all apt to think of these creatures as sun-worshippers, and so they are—up to a point. But lizards, remember, are reptiles—and that means they're cold-blooded.

They have no means of losing body heat. So if they stay out in the intense sun of Arizona for more than three or four minutes, they are in danger of boiling alive in their scaly skins. Each has various tricks for reducing the effect of the blistering heat. For example, the collared lizard, a fierce daytime hunter of smaller lizards, stands stiff-legged to ensure its body does not touch the burning ground.

Desert birds have their problems, too. Birds have

no sweat glands, like humans, and so they have to pant, losing moisture solely through their lungs. This means they must drink a good deal to replace lost moisture.

There are several ways they can make good their loss. Best off are insect-eating birds like the fly-catcher—or birds-of-prey such as the comic snake-catching roadrunner or the magnificent red-tailed hawk. The flesh of their victims is made up of a good deal of water. But seed-eaters, like doves, have to fly long distances to find the water they need to stay alive in the heat.

Shade is vital to birds. That's why so many species retire into the old gila woodpecker holes in the saguaro cacti, when the heat is really on. Inside the thick green pith of the saguaro, it remains very cool.

Large mammals try to move around only at dawn and dusk. The javelina or peccary, the wild pig of the desert, finds moisture in the roots it grubs out of the ground with its sharp tusk-like teeth and snout. By midday, though, the peccary will have crawled into its burrow.

The cute little antelope ground squirrel is often busy collecting seeds during the hottest part of the day. But even this animal is very wary of the sun and is quick to scurry back to its burrow once having collected its food.

Life in the desert is all a question of 'Survival'—the title of our series. Next week, we'll be taking a close look at a very fascinating creature—the beaver.

The Fringe-Toed Lizard has extra big feet so that it can bury itself three or four inches down in the sand. To prevent it from suffocating this lizard has special sand traps in its nostrils.



## A Look-in on Television

# THE GREATEST SHOW ON EARTH

Since the first TV picture (featured below left), was transmitted, great strides have been made in television. Today we are able to get pictures 'live' from space. The 'Greatest Show on Earth' tells what happened in between these two momentous events.



*Written by Michael Hallett, Manager of the ITA Television Gallery, London*

In the world today, 123 countries have television services of one sort or another. There are over 244 million sets in use ranging from the 1,000 sets each of Congo Brazzaville, Gabon and Senegal to the 90 million sets of America and the 21½ million receivers in Japan.

These facts show why television has become 'the greatest show on earth'.

But what is television? How do we receive our pictures from the TV studios? Where did it all begin?

In this special supplement, LOOK-IN will attempt to answer those questions, for it is a fascinating story of triumph and frustration, fame and failure.

### Who invented television?

THAT simple question, often asked at the ITA Television Gallery, one of the finest exhibitions on the subject of television, has no simple answer, for like many modern developments, a number of separate strands came together and parallel work went on in several countries.


The first practical solution came from a Russian engineer, Paul Nipkow, who patented his scanning disc in Berlin in 1884. His idea was to cut a spiral of holes in a disc, so spaced that as the disc rotated in front of the picture each successive hole traced out another line, until in one revolu-

tion the scan was complete. Using such a disc with 30 holes pierced in it and rotating at not less than 600 rpm a crude picture could be obtained.

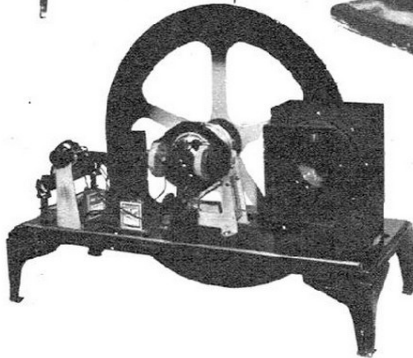
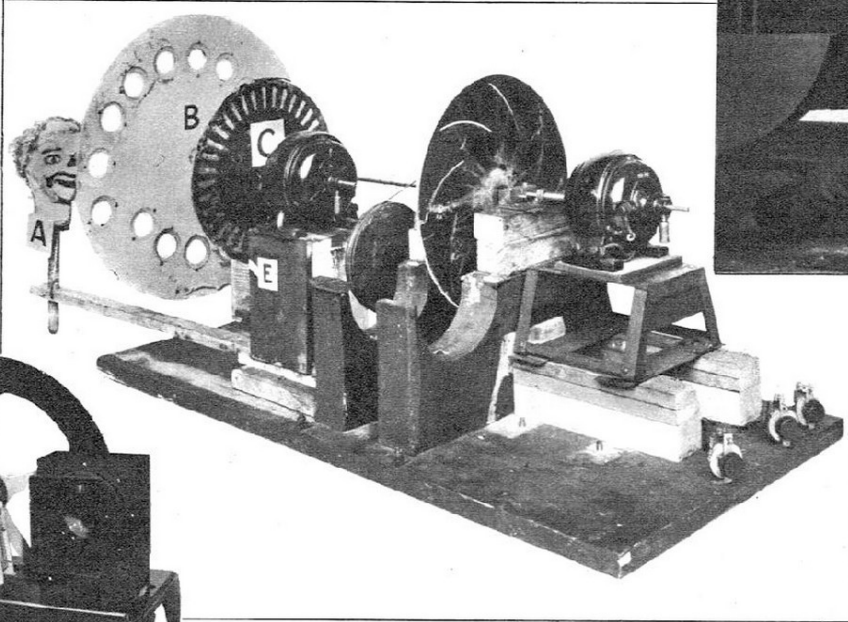
Another method was developed four years later by Professor Weiller in Germany. He used a set of mirrors



**PAUL NIPKOW** devised the first practical method of scanning a television picture. His scanning disc consisted of a spiral of holes cut in a rotating disc so that each part of the picture could be scanned separately by the light source. The spiral course results in curved images.

fixed to a drum, each one inclined at a slight angle to its neighbour. If such a drum rotated in the path of a spot of light each mirror being tilted slightly, would send the reflected spot across slightly lower than the first trace. So one revolution of the drum would trace out the 

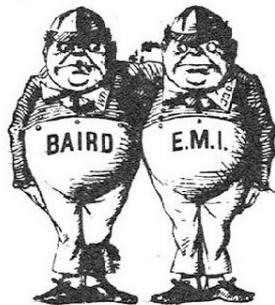
John Logie Baird's original TV camera (below) built in 1926 which can be seen in the Science Museum, London. In the small picture we see Logie Baird at work.



The early TV set pictured left, with its cover removed, was produced in 1929. The set above left is a later kind incorporating a loudspeaker.

Meanwhile the believers in mechanical methods had not been idle. In England in 1926 Baird demonstrated his system using the Nipkow disc and succeeded in arousing considerable public interest. By 1929 he was broadcasting experimental pictures late at night from the BBC's transmitter at Brookmans Park and the following year the Plessey Company started to manufacture the world's first mass-produced receivers, 30-line mechanical sets based on the Nipkow principle. The disc, however, quickly gave way to the mirror drum because this gave a brighter picture and because the scanning lines were straight, whereas those from the disc were inevitably slightly curved. By 1936 this principle had been developed to give a 240-line picture that even by modern standards was not too bad. In both England and Germany the problem of crowding 240 mirrors into a convenient space had been solved by building them into a helix with, as it were, the risers of the spiral staircase providing the reflectors.

The battle was now joined between the rival electronic and mechanical systems. EMI had joined with the Marconi Company, the pioneers of wireless transmission, to provide a complete system, but a Royal Commission, appointed in 1934 under Lord Selsdon to examine the future of television, found itself unable, on the evidence then available, to choose between the two. Its recommendation the following year, however, was significant. It suggested that the BBC should start as



In 1936 programmes were transmitted using both mechanical and electronic systems.

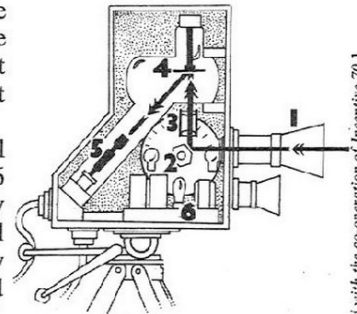
quickly as possible to provide a full-scale scheduled public television service on the highest line standard available, but that it should use the Baird mechanical system one week and the Marconi-EMI electronic system the next and alternate them week by week to give them both a full public trial.

While the BBC was building and equipping the studios at Alexandra Palace much work was going on in Germany. Perhaps the most significant broadcast was the televising of the Olympic Games in Berlin in August 1936.

At last all was ready and on 2 November, 1936, it was a Monday, the BBC service was officially declared open by the Postmaster-General, Major the Rt. Hon. G. C. Tryon, MP. The Baird system was used to televise the occasion.

Baird's mirror-drum system worked best when televising film so he developed the Intermediate Film Camera. An ordinary 35mm cine camera filmed the scene. From this the film passed to special rapid processing equipment and then, to the film scanner. In three minutes a good picture was produced, but the machine was bulky and had to be bolted to the studio floor. It could not rival the compact electronic camera.

The great fire at the Crystal Palace in November 1936 destroyed Baird's laboratory and workshop. But the trial had shown the superiority of the electronic method and on 5 February, 1937, the Postmaster General announced that a single, electronic standard would be used from then on.



A TV camera of 1935. 1, photographic lens; 2, mirror; 3, correction lens; 4, photo-sensitive plate; 5, electron gun; 6, picture signal pre-amplifier.

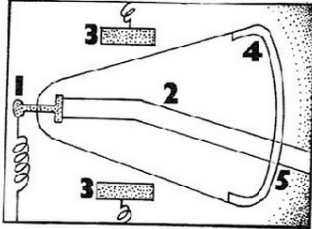
[Text reproduced with the co-operation of Incentive 70.]

# THE GREATEST SHOW ON EARTH

→ picture area in as many lines as there were mirrors.

Both these methods were to be used for many years, but it was Weiller's mirror drum that was used in the world's

first demonstration of television, which was done by Professor Boris Rosing at St. Petersburg, as it then was, in 1906. He used two mirror drums, to scan the picture both horizontally and vertically, and a simple cathode ray tube, of the type developed by Karl Braun in Germany in 1897, to



**T**HIS illustration shows how Braun's television tube worked. The electrons come from (1) the cathode. The stream of electrons (2) are altered by the magnets (3). The screen (4) is the wide end of the cathode ray tube which is coated with a fluorescent substance (5) so that light is produced when this is struck by the electrons.

display the received picture. He was only able to show outline silhouettes of still shapes, partly because the amplifier was then unknown, but his method did work.

The amplifier derives from the work of three men. It was Edison, while working on his electric lamp, who first observed the phenomenon that Sir John Fleming later used in his invention of the Thermionic valve in 1904. This was a rectifying valve, that allowed current to flow one way across it but not the other. A third element is needed to imprint upon this strong current the precise signal information that is coded in the weak current it is intended to amplify. This crucial step was taken by Lee De



A. A. Campbell Swinton. In 1908 he forecast that the solution to transmitted pictures would be found in cathode rays.

Forest in America in 1906. He called his tri-ode valve the Audion, but its value was realised only slowly until the outbreak of World War I brought a rapidly expanding need for communications that brought the Audion to the fore.

At first all the experimental work in television was concentrated on the two mechanical methods of scanning. Many men took part, among them John Logie Baird in England, Jenkins in America and Denes von Mihaly in Austria.



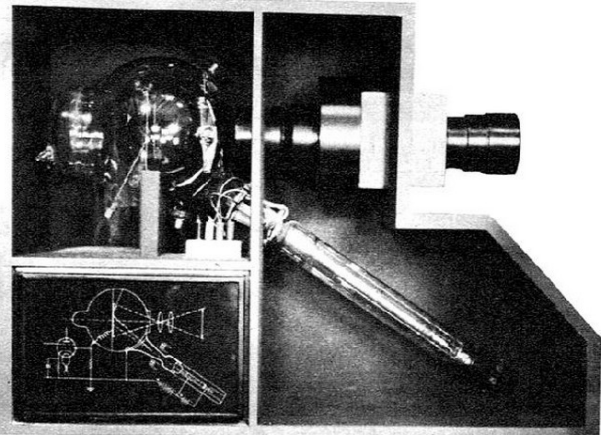
Sir William Crookes demonstrated the nature of cathode rays in 1869.

But to the mechanical approach there was a fatal flaw. The amount of information needed to define a really clear television picture is so great and must be transmitted so quickly that nothing mechanical could move fast enough to do it. The man who spotted this and pointed the way to the future was an electrical engineer called Campbell Swinton. If there was no one inventor of television, he at least was the father of modern systems. In 1908 he wrote to 'Nature' pointing out this problem and forecasting that the solution would be found in cathode rays, the nature of which had been demonstrated by Sir William Crookes in 1878. The state of knowledge was then such that he had to conclude his famous letter with the words, "Possibly no photo-electric phenomenon at present known will provide what is required in this respect, but should something suitable be discovered, distant electric vision will, I think, come within the region of possibility." He worked on his idea to the point that he was able to present to the Roentgen Society in 1911 a complete theoretical circuit. It was to be 20 years before the hardware could be made to turn this theory into practice, but it contained the germ of television today.

The first man to try to make it work was another Russian,



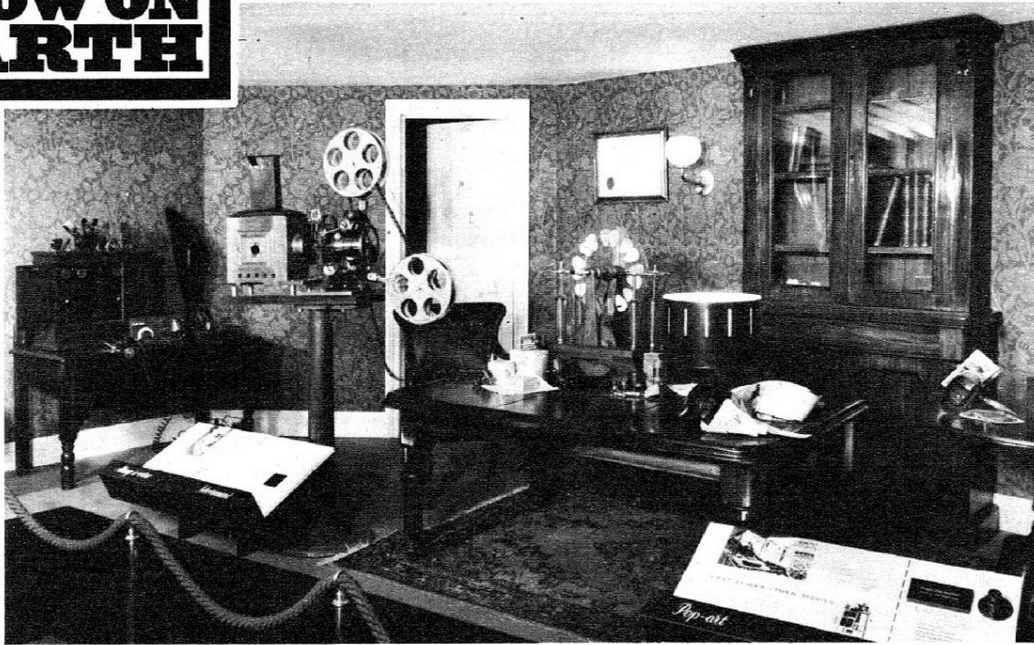
**W**ITH a brilliant team, Sir Isaac Schoenberg perfected the Emitron Mark I camera tube, shown below. This was the ancestor of all TV cameras today. This example can be seen in the ITA Television Gallery, London.



Vladimir Zworykin. He emigrated to America, where he still lives, at the time of the Russian revolution. He had been a student at the Technological Institute in St. Petersburg, where he studied under Professor Rosing. In 1923, he filed an application for a patent for an electronic camera tube, which he called the Iconoscope, but he did not get much backing until he joined RCA to become Director of Electronic Research in 1929.

The practical breakthrough however, came from another Russian, Sir Isaac Schoenberg. He was General Manager of the Columbia Gramophone Company when, in 1931, it merged with others to form Electrical and Musical Industries, of which he became Director of Research. He gathered a brilliant team and by 1932, working on the same lines as Zworykin in America, they perfected the Emitron Mark I camera tube, the ancestor of all TV cameras today.

# THE GREATEST SHOW ON EARTH



**The Television Gallery** In the Television Gallery of the Independent Television Authority's Headquarters in London is a specially designed permanent exhibition covering all the facts about TV discovery and development.

Presented in an exciting series of step-by-step details, many of the original machines and inventions on display provide marvellous illustration.

The gallery is open to the public and special parties by appointment. Ninety-minute tours start at 10.00, 11.30, 2.30 and 4.00 each weekday and there is room for up to 30 people at a time, but it is not suitable for younger children.

The gallery is at 70 Brompton Road, London, S.W.6, opposite Harrods Store.

## The Development of Television.... the facts

- 1839 The French scientist Alexandre Edmond Becquerel observed the phenomenon known as photo-electricity of physical changes produced by light.
- 1842 Alexander Bain made a chemical recorder for the electric transmission of still pictures.
- 1863 First still pictures were transmitted by wireless telegraphy in France.
- 1869 Sir William Crookes demonstrated the nature of cathode rays with his Maltese Cross tube.
- 1875 Bell invented the telephone, which led to numerous theoretical schemes for seeing by electricity.
- 1881 Shelford Bidwell, of Britain, demonstrated his apparatus for transmitting a shadowgraph image.
- 1882 L. B. Atkinson used a mirror-drum scanning system.
- 1884 Paul Nipkow patented his famous scanning disc in Berlin.
- 1888 Professor Weiller demonstrated his mirror-drum scanner.
- 1896 Guglielmo Marconi arrived in England and took out his first patent for a system of wireless telegraphy.
- 1897 Karl F. Braun, of Germany, perfected a cathode ray display tube.
- 1901 Marconi, at Signal Naill, Newfoundland, received the first transatlantic wireless signal from Poldhu, Cornwall.
- 1904 Ambrose Fleming invented the Thermionic valve.
- 1906 In Germany, Professor Max Dieckmann patented a method for the transmission of written material and line drawings by cathode ray tubes. Lee De Forest patented the Triode valve.
- 1907 In St. Petersburg, Boris Rosing demonstrated the use of the cathode ray tube as a television receiver, using two mirror drums in the camera.
- 1908 A. A. Campbell Swinton wrote his famous letter to 'Nature'.
- 1911 Campbell Swinton presented his scheme in greater detail to Roentgen Society.
- 1918 Vladimir K. Zworykin arrived in U.S.A. from Russia to work for Westinghouse.
- 1923 John Logie Baird started experiments in low-definition television. As did C. Francis Jenkins, of U.S.A., who transmitted still pictures by wireless.
- Zworykin filed his patent application for a new camera tube, later called the Iconoscope.
- In Austria the Hungarian inventor Denes von Mihaly developed the 'Telehor' which he claimed transmitted geometrical silhouettes.
- 1925 Baird demonstrated his equipment at Selfridges, in London, the (Apr) first public demonstration of television.
- (Jun) In U.S.A. Jenkins gave one of the earliest demonstrations of low-definition television there. His equipment showed the moving outline of a model windmill and was transmitted by wireless.
- 1926 Baird demonstrated his system to the Royal Institute in January.
- 1927 Television images were transmitted by wire between New York and (Apr) New Jersey by Bell Telephone Laboratories.
- 1929 In London the B.B.C. and the Baird Television Company commenced the regular experimental transmission of low-definition pictures on a 30-line system.
- 1930 The first receiving sets were sold in London, costing £18. A serious study of television was begun in Britain by the Gramophone Company.
- 1931 E.M.I. Company was formed from a merger of the Gramophone Company, the Columbia Gramophone Company and others.
- Isaac Schoenberg was appointed director of research on television. His team included A. D. Blumlein and P. W. Williams. Their work led, in 1932, to the development of the Emitron Electric camera tube.
- 1932 Zworykin, then with R.C.A., constructed a system using a cathode ray receiver and Nipkow disc scanner.
- 1935 A Royal Commission under Lord Selsdon reported and suggested that the (Feb) B.B.C. should start a regular public high-definition television service alternating the Baird mechanical 240-line system and the Marconi-E.M.I. electronic 405-line interlaced scanning system week by week.
- 1936 The B.B.C. service was officially declared open by Major the Rt. Hon. (Nov) G. C. Tryon, M.P., H.M. Postmaster-General.
- 1937 The-Postmaster General announced that a single standard (the Marconi-(Feb) E.M.I. system) would be used from then on.

[Photographs for this supplement from: Associated Press, B.B.C., I.T.A., Radio Rentals, Radio Times Hulton Picture Library, Science Museum and the private collection of Mr. Michael Hallett. Diagrams by John Prater.]



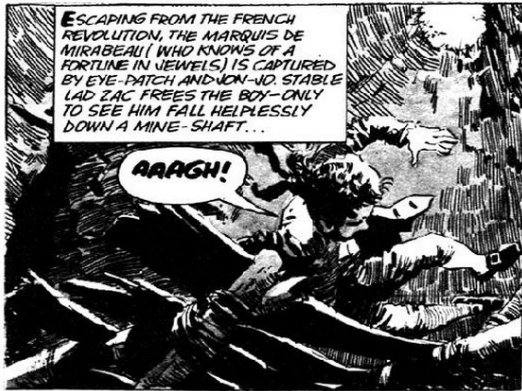
The Gambel's quail is one of the prettiest desert birds. It hunts ceaselessly for seeds and insects.



Antelope Ground Squirrels seem to mind the desert heat less than most other mammals. Nevertheless, they dig deep burrows inside which they can escape the hottest part of the day. These burrows play a valuable part in irrigating stony soil. The tunnels trap and hold any moisture that's going.



# WRECKERS AT DEAD EYE



ESCAPING FROM THE FRENCH REVOLUTION, THE MARQUIS DE MIRABEAU (WHO KNOWS OF A FORTUNE IN JEWELS) IS CAPTURED BY EYE-PATCH AND NON-JO. STABLE LAD ZAC FREES THE BOY—ONLY TO SEE HIM FALL HELPLESSLY DOWN A MINE-SHAFT...

AARGH!



AN INSPECTION PLATFORM—IT'S TAKEN 'IS WEIGHT... I COULD REACH 'IM!

UUSH!



MINUTES LATER...

M... MY HEAD!

JUST HOLD ON, LAD! LUCKY THIS ROPE WAS LYING ABOUT! I'LL GET YOU TO CAP'N SHADRACH'S PLACE.



AT MOOR HOUSE, SHADRACH'S NIECE, CAROLINE, AND THE MARQUIS' GOVERNESS, MISS GILBEY, HAVE ALREADY ARRIVED...

THERE'S A LOT MORE TO IT THAN THAT, CAP'N...

STAP ME! THE BOY'S PASSED OUT—HE'S BADLY CONCUSSED! CAROLINE'S TOLD ME ABOUT THE SHIPWRECK...



QUICKLY, ZAC EXPLAINS—ABOUT THE JEWELS AND THE FIGHT WITH THE SMUGGLERS IN THE OLD MILL...

RATTLE MY ANCHOR CHAIN, SO YE SCUPPERED 'EM, DID YE, LAD? WELL DONE!

WITH THE BOY SAFE HERE, EYE-PATCH AND HIS GANG CAN'T MAKE 'IM TELL THE SECRET O' THE JEWELS...



THAT NIGHT...

RIGHT, NON-JO, FOLLOW ME! AN' IF YER INFORMATION'S WRONG, I'LL SPLICE 'EE!

THE KITCHEN MAID LET DROP THAT THE BOY WAS BEIN' PUT ABEAD IN THE WEST WING TOWER ROOM...



SO...

AIEEE! ZAC! CAP'N! COME QUICKLY!

BATTEN YOUR HATCHES, MISSY! 'TIS NOT YOU WE'RE AFTER!



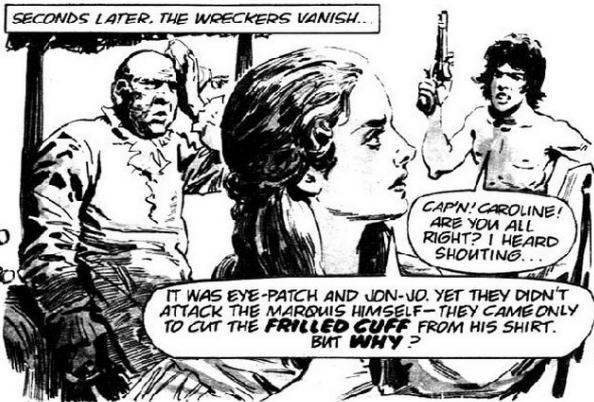
AVAST THERE, YE LILY-LIVERED BILGE-RATS! BREAK INTO MY HOUSE AT DEAD O' NIGHT, WOULD YE?

HOLD HIM OFF, NON-JO—MY WORK WILL TAKE BUT A SECOND!



BACK, YE SWAB!

RIGHT, MISTER! OUT THE WAY WE CAME! 'TIS DONE!



SECONDS LATER, THE WRECKERS VANISH...

CAP'N! CAROLINE! ARE YOA ALL RIGHT? I HEARD SHOUTING...

IT WAS EYE-PATCH AND NON-JO. YET THEY DIDN'T ATTACK THE MARQUIS HIMSELF—THEY CAME ONLY TO CUT THE FRILLED CUFF FROM HIS SHIRT. BUT WHY?

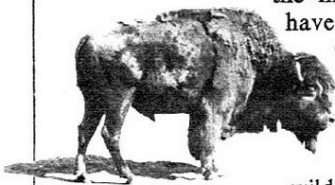
# TONY BASTABLE'S BACKCHAT



**A** FRIEND of mine came out with one of his more extraordinary statements last week.

"Animals," he said, "were not put on this earth in order to be cooped up in zoo cages for us to gawp at. They should be allowed to roam free in the world's open spaces!"

Of course, he is quite right. If we had an ideal world that is just what would happen—animals could wander happily wherever they wanted. Unfortunately, and I'm by no means the first person to say it, we *don't* have an ideal world.



One example is the sad case of the giant panda, the most lovable animal on earth. There are now probably less than eighty giant pandas in the wild. As the bamboo forests in which he lives slowly disappear, so the panda dies out from lack of the right food.

But the point of the panda story is that the pandas in the Peking Zoo are doing very nicely, thank you. They are safe, well protected and getting plenty to eat.

The North American bison, too, is another animal thankful to live in captivity. Once they roamed America in millions. Man killed them for meat. So now, there are no bison in the wild, at all. They all exist in zoos.

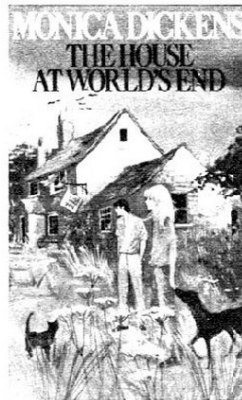
The choice is really quite simple. Either we have zoos which are constantly improving to give animals a better life, or we get used to the idea of being the last generation on earth to see a host of animals, many of which are threatened, roaming free in the wild.

What do you think? Write and tell me. Address your letters to: BACKCHAT, LOOK-IN, 247 Tottenham Court Road, London W1P 0AU.



## Feathered Stamps

Continuing the animal theme of the page this week, I have come across some very delightful birds on stamps. Recently issued, the four stamps show birds which are natives of the exotic Norfolk Island. The 2c shows a Norfolk Island Thickhead; 5c, a Norfolk Island Green Parrot; 15c, a Norfolk Island Pigeon (now extinct), and the 50c, a Red Parrot.



**I**T never ceases to amaze me that hard-cover books especially novels are so expensive. That's why I'm usually a glutton for paperbacks.

A case in point is 'The House at World's End' by Monica Dickens, great grand-daughter of Charles, for the historically-minded. The book is published by Heinemann and costs a guinea.

Nevertheless, if you do like stories set in the countryside involving lots of animals and plenty of adventures, then you might persuade someone to buy

this book for you as a birthday present!

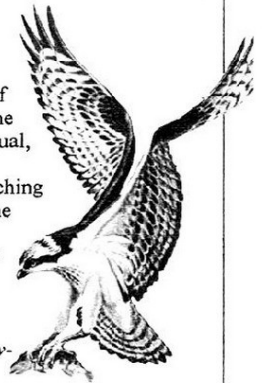
**L**AATEST addition to the Magpie pocket-books is a certain 'winner' with those who like birds. It's the Magpie pocketbook of 'Birds of the Countryside' and lives up to the high standards of the previous books. As usual, it's only five bob.

Far too big to take with you on a bird-watching expedition but equally useful at home is the much larger and more expensive 'Book of Birds', by Arthur Singer, containing many illustrations, such as the one here.

Put the two together and you've got the bird-watcher's basic library.

Magpie Pocketbook: *Birds of the Countryside*: Lutterworth Press: 5s. (25p).

*Book of Birds*: Arthur Singer: Paul Hamlyn: 21s. (£1.05).



## Thinking Ahead

"Advice for those about to get married—don't", wrote an acid commentator in 'Punch' magazine many years ago.

This advice obviously was worth taking a long time to consider by two Mexicans who got married in June 1969.

They first got engaged 67 years before and by the time he walked her down the aisle they were both aged 82!





# PLEASE SIR!



HELLO, POTTER, BOY-O! OFF ON SAFARI ARE YOU?



A SPECIAL ASSIGNMENT FOR MR. SMITH. IT'S IMPORTANT I FIND HIM...



OOOOOOPS!



WHOOOPS!

SEEMS O! SMITHY FOUND YOU!



JUDGING FROM THAT CONSIGNMENT I'D SAY YOUR TAILOR'S BEEN BUSY, EH, OSBORNE?

WAG, BERNARD! THE COSTUMES ARE FOR THE SCHOOL PLAY I'M PRODUCING...



LATER...

COR! LOOK! MAYBE I CAN PLAY JAMES BOND!

DON'T BE DAFT, DEN! BUT YOU CAN BE A ROUND 'EAD LIKE ME!

BLOCK-HEAD, YOU MEAN!



SOON...

IT ALL SOUNDS SOFT TO ME, UNLESS-- WAIT A MINUTE! I'VE AN IDEA...

NO ONE FROM FIVE 'C' STANDS A CHANCE OF A PART!



I MIGHT HAVE GUESSED!

LAY OFF, MAUREEN. I'LL LET YOU WIN!



SUDDENLY...

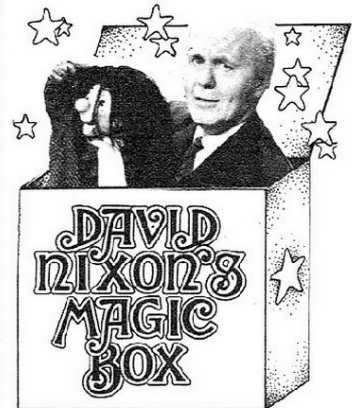
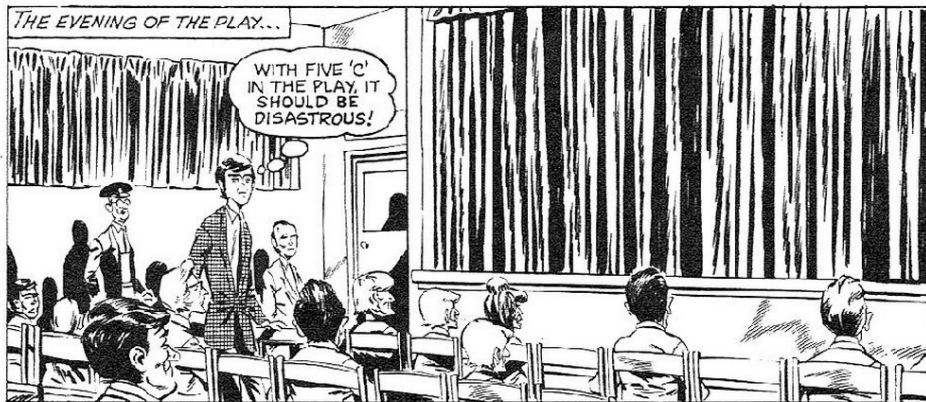
WHICH WAY? I CAN'T SEE!

CHAAAARGE!



WHOOOOPS! I'VE TRODDEN ON SOMETHING!

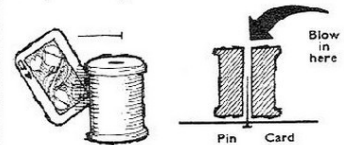
ME, YOU... OWWWW!



ONE of my favourite tricks is making Anita Harris float about in mid-air. Here's a miniature version of that trick for you to do at home.

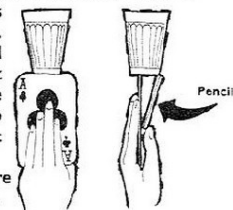
### The Floating Queen

You need a cotton reel (with the end labels removed) a large pin, and the Queen of Hearts from a pack of cards. Push the pin through the centre of the card, and then insert it loosely into the hole in the reel—as shown here. Now, if you blow into the top of the hole, and let go of the card, it will float just below the reel for as long as you keep blowing.



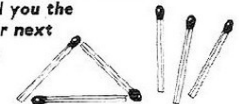
### The Balancing Glass

It looks very difficult to balance a glass on a card. It's really quite a skilful feat! The picture; below right, shows you how it's done. A short pencil held at the back of the card acts as a support. To avoid breakages it would be advisable to use a plastic beaker while you are practising.



### Teaser Time ★★★★★★

Can you make four triangles just like the one in the picture—but using only SIX matches? I'll tell you the answer next week.



The solution to last week's teaser is really a bit of a swindle—but it works. All you do is pick up the centre glass, drink the water, and put it down in the same place. Now the glasses are alternately full and empty, and you have only touched one glass!

By arrangement with David Nixon

# Queen of the Road



*Richard Davies talks to Rosemary Smith.*

**T**HROUGH dense fog the Sunbeam Rapier rally car sped along at 60 m.p.h. towards Monte Carlo. Suddenly, it smashed through the barrier and down the steep mountainside. When it finally came to rest at the bottom it was a battered heap of metal. The driver of that ill-fated car was eventually helped from the wreckage, shaken but uninjured. It was Rosemary Smith, Britain's leading woman rally driver.

The accident, which occurred in the 1964 Monte Carlo Rally, was a turning point in her career. As Rosemary explained herself: "My co-driver was in hospital for sixteen weeks and I wanted to give up there and then—I was so frightened of driving. But my manager wouldn't hear of it. He forced me into another car and made me drive almost immediately. I was literally petrified. But,

by the end of the day, I had found my confidence again."

That particular kind of special courage is essential to make an ordinary rally driver into a really great champion—which Rosemary certainly is!

She faced her toughest-ever drive—the World Cup Rally—last year. Rosemary explained:

"It started at Wembley stadium and finished in Mexico City just in time for the World Cup Football Tournament. In all, there were nearly 15,000 miles of driving and one particular stretch, I drove fifty-five-and-a-half hours without sleep. I was utterly exhausted. But my co-driver and I were consoled when we won the Ladies' prize.

"In rallying, you have to drive fast—*very fast*, and it can be very dangerous, too. The main objective, of course, is to *finish* regardless of the conditions—that's what rallying is all about."

Why does Rosemary go rally driving? "It's the challenge," she says. "There's always room for improvement."



## HEADING HINTS by Ron Davies

*I expect many of you footballing enthusiasts find heading a ball one of the most difficult things to do. With this in mind, I made a point of speaking to one of the best ball headers in the game—Southampton's Welsh International, Ron Davies. And here's his advice:*

*"You must always keep your eye on the ball, and your eyes open when you make contact. Never be afraid of the ball. Now here's a tip that once proved invaluable to me. Tie a length of string to a football and then hang it up somewhere where it can swing freely to and fro. Once you've done this, you have a constantly suspended ball with which you can practise heading. As you become more skilful, you can shorten the length of string so that you'll have to jump higher to reach the ball. After all, when I play against Jackie Charlton, the only way to score is to outjump him."*

*Well, that's sound advice from one of the best centre-forwards in football. Thank you, Ron.*

## Soccer Down Under

You may have often wondered if the Australians have a traditional sport. Well, they do—and it's their own tough and exciting form of football. This is an incredibly rough game and some of the players are over six feet, six inches in height. The pitch is twice the size of our soccer pitch and there are eighteen players on each side. When the game was first played, a hundred years ago, no less than 40 players played in one team, and a single match once lasted for three weeks. In fact it was abandoned without a result. After all that, I expect they forgot the score!

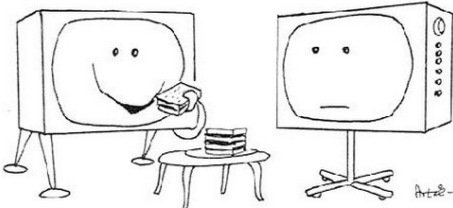


*By courtesy of Australian News and Information Bureau.*

# Look-in Laughs



**Jimmy Tarbuck picks this week's jokes.**  
A host of other top TV personalities have agreed to choose your letters and jokes, every week, for LOOK-IN's 'YOUR VIEW', starting shortly. Readers who have their original items published, will each receive a £1 Postal Order—plus a special signed photograph of the 'YOUR VIEW' star. So why not get busy now! But when you write in to the address below, remember to name your 1st and 2nd favourite features in the magazine, and the article you don't like—if there is one! Write to:  
**'YOUR VIEW', LOOK-IN, The Junior TVTimes, 247 Tottenham Court Road, London, W1P 0AU.**



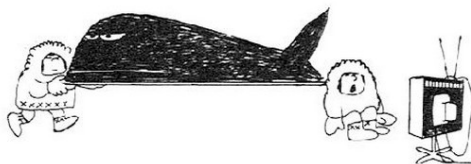
"I love these TV snacks!"



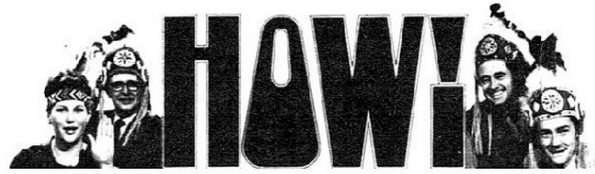
"Can I interest you in a fabulous hair tonic?"



"No dog or TV licence!"

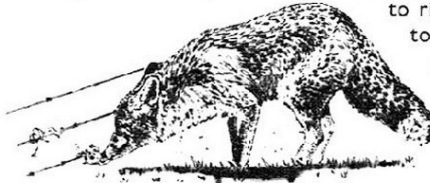


"Hurry up with that TV snack, dear!"



Once again the How! programme panel of experts are ready to give you some more interesting facts. They are, from left to right, Bunty James, Jack Hargreaves, Jon Miller and Fred Dinenege.

**HOW** does a fox get rid of its fleas? Perhaps you didn't realise that they have them. But they do, in fact, just like many other animals. The first thing the fox does to rid himself of his tiny tormentors is to find a piece of sheep's wool (caught perhaps on a piece of bracken or a barbed wire fence). Then, he takes hold of it with the tips of his lips, and walks into a nearby stream. As he goes deeper and deeper, the fleas hop up his neck to avoid drowning—until they are finally forced on to the wool that the fox holds in its mouth. After the fox releases the wool, this floats away downstream taking all the fleas with it.



**HOW** useful are proverbs? Well, they are quite useful as there is often a moral attached to them. Some, however, contradict others. Take for example 'look before you leap' and 'he who hesitates is lost'. Then there's 'too many hands spoil the broth' and 'many hands make light work'. Try and think of some others—there are plenty more.

**HOW** do you stick a knitting needle through a balloon without bursting it? As you know, a needle, stuck into an inflated balloon bursts it instantly. This is because the first little prick of the balloon is widened by the air pressure within the balloon. But, if you stick two squares of tacky tape on to each side of the inflated balloon, you can, if you are extremely careful, insert the needle into the balloon through the square of tape and out through the other square of tape on the other side.

**HOW** bad was the worst spelling mistake ever made? A schoolboy once made 13 mistakes in spelling a 5 letter word—usage. He used 8 wrong letters and none of the correct ones. This is what it looked like: YOUZITCH.

**HOW** much lead is there in a pencil? None, the piece that you actually write with is graphite.

**HOW** were the first clothes made? Thousands of years ago, prehistoric man lived in caves. In order to keep warm, he wrapped himself in animal skins. Then, the 'needle', a bone sliver with a hole for leather thonging, was invented, and women were able to stitch skins into crude shapes.

**HOW** was the ancient city of Troy re-discovered? In 1870, Schliemann, a wealthy German, and his young Greek wife began excavating the site of Troy. Schliemann's ambition was to find the cities spoken of in the famous Iliad. He took the book with him and began to dig where he thought the ground matched the descriptions in the old tales. Incredibly, he found what he sought.

## Win a book to the value of £1!

You can win a HAMLIN BOOK of your choice for any question which YOU have published—together with the team's researched answer! So get thinking and send your entry to:  
**LOOK-IN, The Junior TVTimes, 247 Tottenham Court Road, London, W1P 0AU. Hurry! The team is ready and waiting!**

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# TIMESLIP

LIZ SKINNER AND SIMON RANDALL HAVE THE INCREDIBLE ABILITY TO PASS THROUGH THE INVISIBLE TIME-BARRIER - TRAVELLING BACKWARDS OR FORWARDS THROUGH THE AGES. MILLIONS OF YEARS IN THE FUTURE, WHEN THE EARTH HAS RETURNED TO A PRIMITIVE STATE, THEY ARE PURSUED THROUGH THE SWAMPS BY CAVEMEN - AND CAPTURED!

WE'VE GOT TO GET AWAY, SIMON! WE'LL NEVER GET BACK TO OUR OWN TIME!

WE'LL GET A CHANCE TO MAKE A BREAK FOR IT, LIZ - YOU'LL SEE!

BUT THEN, ASTONISHINGLY...

ODDORM! PROOLA!

GOORGA!

WHAT...? THEY'VE LET US GO!

WOW! I THINK THEY WANT TO BE FRIENDLY, LIZ! THEY WEREN'T HUNTING US AT ALL!

SUDDENLY, ONE OF THE CAVEMEN PICKS UP A STICK...

HE'S DRAWING A PICTURE OF OUR FIGHT WITH THAT DINOSAUR! THEY MUST HAVE BEEN WATCHING!

AND THEY WERE IMPRESSED IT MUST BE THAT, SIMON!

GRNRRR! HARRH!

PHEW! I DO BELIEVE YOU'RE RIGHT, LIZ! THEY'RE PRAISING US FOR BEING STRONG!

NOW THE CAVEMAN BEGINS TO DRAW AGAIN...

WHAT IS IT? IT CAN'T BE A MAN - NOT WITH THAT SIZE HEAD!

IT'S LIKE A WALKING FOOTBALL!

AAAARGA! MNNNN!

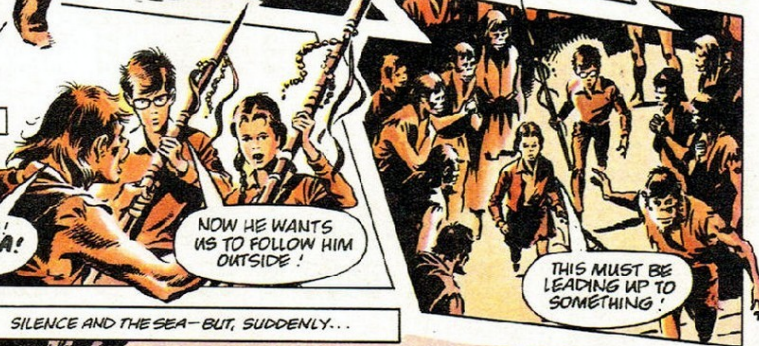
WHAT'S HE GETTING AT?

HE'S SAYING HE'S AFRAID - OF WHATEVER HE'S DRAWN!

THEY WANT US TO FOLLOW THEM...

WE MIGHT AS WELL BUT KEEP AN EYE OPEN FOR THE TIME-BARRIER MARKS. IF WE SPOT THEM, I'M ALL FOR GOING BACK THROUGH...





Next week: The Body-Snatchers!



# Look-in on your ITV programmes this week: Jan 30 - Feb 5

**C**OUNTDOWN for America's Moonshot! 9.23 p.m., parents for permission to stay up for the broadcast of the Sunday, 31st January—that is the blast-off time for America's Apollo 14 moonshot provided, of course, will interrupt programmes during the week. The crew members are no last minute difficulties. So historic is this latest development in the space race, that you might want to ask your Shepard (in command) and Major Stuart Roosa.

	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
<b>ANGLIA</b>	12.50 World of Sport 5.10 Stewpot 5.50 The More We Are Together 6.15 The Sky's the Limit 6.45 Leslie Crowther	1.00 Play Better Tennis 3.00 Barefoot in the Park 3.25 Match of the Week 4.40 The Golden Shot 5.35 Catweazle	4.30 The Romper Room 4.50 Felix The Cat 5.10 Timeslip 6.40 David Nixon's Magic Box	4.35 The Enchanted House 4.50 Junior Showtime 5.10 Magpie 7.00 The Tuesday Comedy	4.30 The Romper Room 4.50 The Sooty Show 5.10 The Freewheelers 7.00 This Is Your Life 8.00 U.F.O.	4.30 Rupert Bear 4.45 Joe 90 5.10 Magpie 7.00 The Thursday Film	4.35 The Romper Room 4.50 Lost in Space 6.30 Apollo XIV 8.25 Six Dates With Barker

	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
<b>MIDLANDS</b>	12.15 Joe 90 12.50 World of Sport 5.10 The More We Are Together 5.50 What Are You Doing After the Show?	1.00 Play Better Tennis 1.30 Mr. Piper 2.15 Star Soccer 4.40 The Golden Shot 5.35 The Forest Rangers	4.35 Once Upon A Time 4.50 Junior Showtime 5.10 Timeslip 6.40 David Nixon's Magic Box	4.30 Popeye 4.35 Origami 4.45 The Flaxton Boys 5.10 Magpie 7.00 Star Movie	4.30 Cartoon 4.35 Rupert Bear 4.50 Fireball XL5 5.10 The Freewheelers 7.00 This Is Your Life 8.00 U.F.O.	4.30 Cartoon 4.35 Wind in The Willows 4.50 The Sooty Show 5.10 Magpie 7.00 Thursday Movie	4.35 Zingalong 4.50 Thunderbirds 6.30 Apollo XIV 7.30 Department S 8.25 Six Dates With Barker

	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
<b>BORDER</b>	12.50 World of Sport 5.12 The More We Are Together 5.50 What Are You Doing After the Show? 7.05 Leslie Crowther	1.00 Play Better Tennis 2.20 Football 3.20 The Saint 4.15 Jungle Boy 4.40 The Golden Shot 5.35 Catweazle	4.35 Once Upon A Time 4.50 Joe 90 5.10 Timeslip 6.40 David Nixon's Magic Box	4.05 Survival 4.35 Origami 4.50 Junior Showtime 5.10 Magpie 7.00 Feature Film	4.05 Tales from Dickens 4.35 Rupert Bear 4.50 The Sooty Show 5.10 The Freewheelers 7.00 This Is Your Life 8.00 The Invaders	4.05 Nanny and the Professor 4.30 Pauls 4.45 Stewpot 5.10 Magpie 7.45 Feature Film	4.07 Junkin 4.35 Zingalong 4.50 Land of the Giants 6.30 Apollo XIV 7.30 Six Dates With Barker

	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
<b>CHANNEL</b>	12.50 World of Sport 5.15 Shane 6.15 What Are You Doing After the Show? 7.00 The More We Are Together	2.15 U.N.C.L.E. 3.10 The Big Match 4.10 Shari Lewis 4.40 The Golden Shot 5.35 Catweazle	3.55 Once Upon a Time 4.05 Puffin 4.45 The Forest Rangers 5.10 Timeslip 6.45 Magic Box	3.55 The Enchanted House 4.05 Puffin 4.50 Junior Showtime 5.10 Magpie 7.00 Star Movie	3.55 Rupert Bear 4.05 Puffin 4.50 The Sooty Show 5.10 The Freewheelers 7.00 Treasure Hunt 8.00 It Takes A Thief	3.55 Origami 4.05 Puffin 4.45 Skippy 5.10 Magpie 7.00 The Thursday Film	3.55 Zingalong 4.05 Puffin 4.15 The Ghost and Mrs. Muir 4.50 Lost in Space 7.30 Feature Film

	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
<b>GRAMPIAN</b>	12.30 The Stories of Tuku 12.50 World of Sport 5.10 Stewpot 6.15 Nanny and the Professor 6.40 Leslie Crowther	1.00 Play Better Tennis 4.40 The Golden Shot 5.35 Catweazle	4.10 Once Upon A Time 4.55 Rumble Jumble 5.15 Timeslip 6.00 Cartoon 6.15 Junkin 6.40 Magic Box	4.10 The Magic Ball 4.50 Junior Showtime 5.15 Magpie 7.00 The Tuesday Film	4.10 Rupert Bear 4.50 The Sooty Show 5.15 The Freewheelers 7.00 This Is Your Life	4.10 Origami 4.50 Skippy 5.15 Magpie	4.10 Zingalong 4.50 Adventures in Rainbow Country 5.15 Arthur! 6.30 Apollo XIV

	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
<b>GRANADA</b>	12.15 Supercar 12.50 World of Sport 5.15 The Ghost and Mrs. Muir 6.15 Bonanza 6.45 Saturday Suspense 8.05 Leslie Crowther	1.00 Play Better Tennis 2.20 Cartoon Time 2.30 Football 4.40 The Golden Shot 5.35 Catweazle	4.35 Once Upon a Time 4.50 Skippy 5.10 Timeslip 6.20 The Beverly Hillbillies 6.40 David Nixon	4.35 The Magic Ball 4.50 Junior Showtime 5.10 Magpie 6.20 The Beverly Hillbillies 6.50 The Tuesday Film	4.35 The Enchanted House 4.50 The Sooty Show 5.10 The Freewheelers 6.20 The Beverly Hillbillies 7.00 This Is Your Life	4.35 Origami 4.50 Woobinda 5.10 Magpie 6.20 The Beverly Hillbillies 6.50 The Saint	4.35 Zingalong 4.50 Spiderman 5.10 Joe 90 6.05 The Beverly Hillbillies 6.30 Apollo XIV

**WALES/WEST**

12.15 Joe 90  
 12.50 World of Sport  
 5.10 The More We Are Together  
 6.20 Arnie  
 6.45 The Saint

1.00 Play Better Tennis  
 2.15 Big Match  
 4.40 The Golden Shot  
 5.35 Catweazle

4.50 Magic Boomerang  
 5.14 Timeslip  
 6.45 David Nixon's Magic Box

4.37 The Magic Ball  
 4.50 Junior Showtime  
 5.14 Magpie  
 7.00 Bonanza

4.35 Rupert Bear  
 4.50 The Sooty Show  
 5.14 The Freewheelers  
 7.00 This Is Your Life

4.35 Once Upon A Time  
 4.50 Forest Rangers  
 5.14 Magpie  
 7.00 Mid Week Movie  
 5.14 Magpie



**LONDON**

11.20 Thunderbirds  
 12.20 Stingray  
 12.50 World of Sport  
 5.10 Stewpot  
 5.45 The More We Are Together

1.00 Play Better Tennis  
 2.45 The Big Match  
 3.45 Randall and Hopkirk  
 4.45 The Golden Shot  
 5.35 Catweazle

4.10 Once Upon A Time  
 4.50 Lost in Space  
 6.40 David Nixon's Magic Box

4.10 The Magic Ball  
 4.50 Junior Showtime  
 5.15 Magpie  
 6.30 Arnie

4.10 Rupert Bear  
 4.50 The Sooty Show  
 5.15 The Freewheelers  
 6.30 Nanny and the Professor  
 7.00 This Is Your Life  
 8.00 The Champions

4.10 Origami  
 4.50 Flipper  
 5.15 Magpie  
 7.40 The Thursday Film

4.10 Zingalong  
 4.25 Jesse James  
 4.55 Roadrunner  
 5.15 Timeslip  
 6.30 Apollo XIV  
 7.00 The Sky's The Limit



**SCOTTISH**

12.20 Survival  
 12.50 World of Sport  
 5.10 The Sky's The Limit  
 5.45 Voyage to the Bottom of the Sea  
 6.40 Leslie Crowther

1.00 Play Better Tennis  
 4.40 The Golden Shot  
 5.35 Catweazle

4.15 Once Upon A Time  
 4.50 Captain Scarlet  
 5.10 Timeslip  
 6.40 David Nixon's Magic Box

4.10 The Enchanted House  
 4.50 Junior Showtime  
 5.10 Magpie  
 6.25 Hogan's Heroes  
 6.55 The Tuesday Film

4.10 Rupert Bear  
 4.50 The Sooty Show  
 5.10 The Freewheelers  
 7.00 This Is Your Life  
 8.00 Man In A Suitcase

4.10 Origami  
 4.50 Skippy  
 5.10 Magpie  
 7.00 The Thursday Film

4.10 Zingalong  
 4.50 Joe 90  
 5.15 Cartoon Cavalcade  
 6.30 Apollo XIV  
 7.35 Department 5



**SOUTHERN**

12.50 World of Sport  
 5.15 Voyage To The Bottom of the Sea  
 6.15 The Golden Shot  
 7.05 The Saturday Film

1.00 Play Better Tennis  
 2.00 Sara and Hoppity  
 2.15 The Big Match  
 3.15 Mad Movies  
 5.35 Catweazle

4.12 Felix The Cat  
 4.20 Best of Lucy  
 4.50 Lost in Space  
 6.45 David Nixon's Magic Box

4.12 The Enchanted House  
 4.50 Junior Showtime  
 5.15 Magpie  
 7.15 The Tuesday Film

4.12 Sean the Leprechaun  
 4.50 The Sooty Show  
 5.15 The Freewheelers  
 7.00 This Is Your Life  
 8.00 Man In A Suitcase

4.12 Plupp  
 4.50 Forest Rangers  
 5.15 Magpie  
 6.30 Apollo XIV  
 7.00 Junik  
 7.30 The Thursday Film  
 7.35 Department 5



**TYNE TEES**

12.15 Joe 90  
 12.50 World of Sport  
 5.10 The More We Are Together  
 5.45 The Sky's the Limit  
 6.15 Bonanza

1.00 Play Better Tennis  
 2.20 Football  
 3.15 Cowboy in Africa  
 4.45 The Golden Shot  
 5.35 Catweazle

4.35 Paulus  
 4.50 Stingray  
 5.15 Timeslip  
 6.45 David Nixon's Magic Box

4.35 Hubble Bubble  
 4.50 Junior Showtime  
 5.15 Magpie  
 6.30 The Tuesday Film

4.35 Rupert Bear  
 4.50 The Sooty Show  
 5.15 The Freewheelers  
 7.00 This Is Your Life  
 8.00 U.F.O.

4.35 Stories of Tuktuk  
 4.50 The Forest Rangers  
 5.15 Magpie  
 6.35 The Thursday Film



**ULSTER**

12.30 Winter of Enchantment  
 12.50 World of Sport  
 6.15 The More We Are Together

1.00 Play Better Tennis  
 2.45 The Big Match  
 4.45 The Golden Shot  
 5.35 Catweazle

4.25 Romper Room  
 4.50 Phoenix Five  
 5.15 Timeslip  
 6.45 David Nixon's Magic Box

4.25 Romper Room  
 4.50 Junior Showtime  
 5.15 Magpie  
 6.30 Cartoon Time  
 7.00 Mid-Week Movie

4.25 Romper Room  
 4.50 Joe 90  
 5.15 Magpie  
 6.30 Cartoon Time  
 7.00 Feature Film

4.10 The Enchanted House  
 4.25 Romper Room  
 4.50 Thunderbirds  
 6.30 Apollo XIV  
 7.30 The Sky's the Limit



**WESTWARD**

12.50 World of Sport  
 5.15 Shane  
 6.15 What Are You Doing After the Show?  
 7.00 Leslie Crowther

1.00 Play Better Tennis  
 2.15 U.N.C.L.E.  
 3.10 The Big Match  
 4.05 Shari Lewis  
 4.45 The Golden Shot  
 5.35 Catweazle

3.55 Once Upon A Time  
 4.05 The Gus Honeybun Show  
 4.45 Forest Rangers  
 5.10 Timeslip  
 6.45 Magic Box

3.55 The Enchanted House  
 4.05 The Gus Honeybun Show  
 4.50 Junior Showtime  
 5.10 Magpie  
 7.00 Star Movie

3.55 Rupert Bear  
 4.05 The Gus Honeybun Show  
 4.50 The Sooty Show  
 5.10 The Freewheelers  
 7.00 Treasure Hunt  
 8.00 It Takes A Thief

3.55 Zingalong  
 4.05 Gus Honeybun  
 4.15 The Ghost and Mrs. Muir  
 4.50 Lost in Space  
 6.30 Apollo XIV



**YORKSHIRE**

11.55 Cartoon Club  
 12.50 World of Sport  
 5.10 The More We Are Together  
 5.45 Gunsmoke  
 6.40 Leslie Crowther Show

1.30 Play Better Tennis  
 2.20 Soccer  
 4.45 The Golden Shot  
 5.35 Catweazle

4.10 Once Upon A Time  
 4.50 The Rovers  
 5.15 Timeslip  
 6.45 David Nixon's Magic Box

4.10 The Magic Ball  
 4.50 Junior Showtime  
 5.15 Magpie  
 6.30 Nanny and the Professor  
 7.00 Movie Of The Week

4.10 Rupert Bear  
 4.50 Sooty Show  
 5.15 The Freewheelers  
 6.30 Hogan's Heroes  
 7.00 This Is Your Life

4.10 Origami  
 4.50 Arthur!  
 5.15 Magpie  
 6.30 Arnie  
 7.00 Men Of Action

4.10 Zingalong  
 4.50 Lost in Space  
 6.30 Apollo XIV  
 7.00 The Sky's The Limit  
 7.30 Six Dates With Barker



[All details are correct at time of going to press.]

FOR COMPLETE DETAILS OF ALL TV PROGRAMMES SEE TVTIMES

Geoff Cowan invites you to . . .

# Meet the compères!

**JOE BROWN**—a top pop personality with plenty of musical talent!



**LES DAWSON**—that's him, in the middle of several young performers.



**KEN DODD**—provides music and laughter with a Mexican-styled song!



**BOBBY BENNETT**—as he appeared in a show from an earlier series.

**I**NTRODUCING your own star-spangled spectacular—*JUNIOR SHOWTIME!* And who better to make such an announcement than the programme's compère? But what does a compère do? Let's ask the producer, Mike Bevan.

"Most important of the Junior Showtime production are the young stars. But someone has to co-ordinate and introduce the acts. That's the job of the compère."

In addition to this difficult task, the compère has another important role to play—one which is not so easy to notice. He holds the show together. In other words, acts as a centre-point to keep both the performers and viewers at home happy.

Variety is what JUNIOR SHOWTIME is all about. So Mike decided that the programme should have a variety of compères, too; such famous stars as Ken Dodd and Billy Dainty—brilliant comedians; Joe Brown and Gerry Marsden who sing and play guitars, while Lionel Blair was

chosen for his dancing ability.

Adding to variety again, each production of JUNIOR SHOWTIME has a special theme. Remember the last show—when Les Dawson took the whole cast—and viewers—to the Zoo? There were songs, jokes and dance routines about animals, of course. Well, keep a close look out for future programmes and you will get a peep at many more subjects like 'Winter', 'London', and the 'Carnival'.

You're probably wondering why I haven't mentioned Mr. JUNIOR SHOWTIME, himself—the original resident compère—Bobby Bennett.

Yes. He appeared on some of the programmes in the present series—and he's very happy about it, too!

In fact, Bobby sums up the whole 'feel' of the show better than anything or anyone else.

"The secret of the show's success is to let the young performers have 'their heads'—and to work *with* them! It's smashing fun and it's real team production!"