SUNDAY

From 12.45

GRANDSTAND

Introduced by DAVID COLEMAN
direct from TWICKENHAM

featuring

INTERNATIONAL RUGBY UNION

ENGLAND v. WALES

BBC outside broadcast cameras bring you the whole of today's match in the Rugby Union International Championship.

The match can be seen in colour on BBC-2.

Commentator: BIL Mckee

Summary: GIL MORGAN

Television Presentation by Alastair Moseley

RACING

from Lingfield Park

1.0 Ophington Hurdle Race (Div. I) over 2 miles

1.30 Welsh Hurdle Steeplechase over 3 miles

2.0 Sussex Novices' Steeplechase (Div. II) over 2 miles

Commentators: Peter O'SULLIVAN and Clive Graham

Television Presentation by Denis Morgan

TEST CRICKET

from Trinidad

West Indies v. England

Brian Johnston and Denis Compton report with Grandstand Film cameras on the start of the First Test Match yesterday in Port of Spain, Trinidad.

See page 37

AMATEUR BOXING

Tel Aviv A.B.A.

Highlights of this International match at Groenvoort House

At 4.40 Results Service: Classified football results, Racing results, Rugby League and Rugby Union results.

Presented by Brian Venner and Don Sayer

Editor: Bryan COWGILL

10.0 a.m.-10.25

KOMM MIT!

For beginners in German

11.15 mi Bűro

with

Hildi Friedt, Dieter Golschier

Introduced by

Tobias Kaestle, Paul Mannard

Produced by Colin REINS

Shown last Sunday

10.30-10.55

BONJOUR FRANÇOISE

For absolute beginners in French

11: C'est le potage du chef!

with

François Bricourt, Malee Panek and André Maranne, Pamela Sjöbring

Written by

Michaél Fairen and Joe Cassina

Produced by Ronald Tasker

Shown last Tuesday on BBC-2

12.40

THE WEATHER MAN

Graham Parker

12.45

GRANDSTAND

See panel and facing page

5.15

TOM AND JERRY

playing Cat and Mouse in a selection from the world-famous award-winning cartoon films created by WILLIAM HANNA and JAY MEYER

The Cat and the Mouse... a play,talk?

5.25

DR. WHO

An adventure in space and time starring

PATRICK TROUGHTON as Dr. Who and Satamander with

MARY PEACH, BILL KERR, COLIN DOUGLAS and

Frazer Hines, Deborah Watling

* The Enemy of the World by DAVID WATKINS

5.50

THE NEWS

and THE WEATHER MAN

Graham Parker

6.0

THE MONKEES

Four young men and their music finding fun in their way-out way

A film series starring

DAVE JONES, PETER TORK, MICKY DOLENZ, and MIKE NESMITH

6.25-7.10

DEE TIME

The Saturday scene

SIMON DICKIE

Introduces his guests

including

GRAHAM HILL

BLOOMIN' DOLLY

LONG JOHN BARRY

SIMON DUBREUS

KENNY DADAM

JUAN JUNIOR

The Alys Amsworth Orchestra

Script

R.H. SHAW, JOE STEEL

Design, KENNETH SHARP

Direction, RONNIE JONES

Production, YVONNE LORRIS

5.15

* Buy Quality...Post Free

DIRECT FROM

Witney

EASY TERMS ARE AVAILABLE

Curtains

MADE-TO-ORDER

Send for wonderful selection of patterns

Witney VELVETS

MADE-TO-ORDER

Unbeatable for those homes and drawing rooms where luxuriant, sumptuous furnishings are essential. Available in a large selection of patterns and shapes. See Salesman or direct to Witney Blanket Co Ltd., Dept. B102, Buttercups Works, Witney, Oxfordshire. We always recommend the WITNEYS MIRACLES. Send for free sample cards and prices today.

5.50

STRETCH-FIT NYLONSLIP-OVER COVERS

Quartwoven Hard-wearing Fabric in many colours and nylon

Send coupon to TO-DAY for full picture brochure

FROM

55/-

FREE

HOME BARGAIN BOOK

Send coupon for your free copy of a helpful guide to prices and bargains that are available in your area. Low prices and high quality mean special value for every penny spent.

THE WITNEYS BLANKET CO. LTD.
Dept. R.S.2, Buttercups Works, Witney, Oxfordshire. Please send name and address. Certain patterns exclude this offer, but your nearest branch will be able to inform you.

THE WITNEYS BLANKET CO. LTD.
Witney, Oxfordshire. Please send name and address. Certain patterns exclude this offer, but your nearest branch will be able to inform you.

Create own dreams! NEST required.
Daleks, Cybermen, Yetis, Ice Warriors—familiar monsters guaranteed to chill the blood of anyone over the age of ten. But where do they come from? Who dreams them up? How are they made? How do they work? We sent Gay Search to find out...
Last week we saw how the men from Mogul, and the other oil companies, work at drilling for gas in the North Sea—and are finding it. But what they all fail to realise is that they are running a serious risk. Because the bottom of the North Sea is the home of a very strange creature and the gas being tapped at high speed is its food. The creature, disturbed and outraged by this human encroachment on its domain, makes its way aseventh on vengeance.

We are now—if you haven’t guessed—in the fantasy world of Dr. Who, and the creature is yet another monster for the Doctor and his companions to tackle.

In the five years that the series has been running, there have been almost as many monsters as there are diaries on the Tardis' instrument panel, and many of them the brain children of the Bbc's Wardrobe and Visual Effects Department.

A sea creature emerges

This latest addition to the family—the sea creature—is being dreamed up by Jack Kine and his team in Visual Effects. For once it will not be based on an actor. Jack has found a new substance that fits the bill admirably. 'It is hard to describe,' he says, 'but you know the foam you see collecting on rivers at weirs? Well, imagine that five thousand times bigger.'

Jack was experimenting with some a few weeks ago and in a very little time was able to get it to a depth of thirty feet. The creature is a bit like plastic—it starts in bits and then gradually come together to form the final undulating beast. 'It's about the size of a first division football crowd,' says Jack.

Before the advent of the seaweed creature, the idea was to keep Dr. Who's enemies as villainous and as mechanical as possible. Jack's boys look on the Doctor with mixed feelings, because in every story he finished by destroying the evil creatures and often wrecking their city—things that they spent weeks creating. 'Ah well,' says Jack, philosophically. 'I suppose the baddies must always lose.'

The Daleks

But of all the monsters, none has caught the imagination of children of all ages like the Daleks did. They were based on an idea of Terry Nation's, and with it, there were little figures shuffling everywhere with outstretched arms saying, 'Ex-ter-min-ate, ex-ter-min-ate.' Jack thinks their popularity is due to the simplicity of their shape. Any child could make himself look like a reasonably good Dalek merely by bending a sheet of cardboard round his body.

And when Blue Peter organised a contest last year for children to design their own monster, the Dalek was one of the most obvious influences. But the winners in each group showed a good deal of imagination and originality—the octopus-like creature with hundreds of exploding arms which, incidentally, terrified its four-year-old designer when she saw it made up, the bug-eyed robot with the sonic gun in his chest, and the very sinister hypotenuse with a beard-shaped head and one huge staring blood-shot eye! Visual Effects had just five days to get these creatures made up, but they did it.

For once they had to organise only one creature of each sort, whereas they must have made dozens of Daleks in all sorts of sizes and materials.

For the big battle in 'War of the Daleks' where many Daleks had to be extermin-ated, Visual Effects built some in very light-weight balsa-wood that would fragment easily when the explosive inside them went off. The other Daleks, made from aluminium, glass fibre, plywood, cost anything up to £300 each.

Daleks' brains, the stuff that came oozing out when their heads were blown off, is a Visual Effects 'special': cellulose wall-paper paste mixed with foam rubber chippings and tinted a restful shade of green. The same mixture—minus the foam chippings—was used for the slime of the Macra.

The Yeti

The Yeti were a completely different kettle of fish—or whatever the correct figure went with them to the foothills of the Himalayas—well, North Wales actually—to see them filming on location. The Yeti were built on bamboo frames, padded with foam rubber and covered with fur. Their hands and feet were made of moulded rubber which did not give them a very firm grip on the wet, rather slippery, Welsh mountain.

Yeti, unfortunately, are rather like tortoises or beetles—once they have fallen on their backs they can't get up again unaided. So once they had fallen over they just had to lie there while a few mountain sheep looked on in amused detachment, until help arrived. The Yeti did not turn out quite as terrifying as planned. Small children who came to watch the filming thought they were lovely and kept putting them and stroking their fur off.

For their new 'adventure,' 'Dr. Who and the Web of Fear,' which begins on February 3, the 'intelligence'—the oozing mass that controlled the Yeti in Tibet—has modified them for their new, very different environment, the London Underground. They will be slimmer—to get through the tunnels and will have eyes that light up—to see in the dark.

The Cybermen

If the Yeti were the hairy men of the monster world, then the Cybermen are certainly the smoothest. They are silver all over, smooth silver bodies and heads—all with exterior plumbing. In their last series, they had help in their struggle against the Doctor and his companions in the form of the Cybermats.

These bio-mechanical creatures that homed on people's brainwaves were themselves the brainwave of Michael John Harris, a Visual Effects designer. The head Cybermat had to be radio-controlled, so the body was designed around a radio unit. Of the rest, some were run on electric motors, others were hand-controlled, and others were operated by good old-fashioned string.

The Ice Warriors

The most recent race of monsters to threaten the crew of the Tardis (incidentally there are four Tardis, ranging from a size of four to four inches high) were the Ice Warriors. They were all played by actors of at least six feet six inches who, by the time they had got their helmets on, towered a terrifying seven feet above the ground.

Martin Baugh who designed the costumes based them very largely on reptiles.

The body part, or shell, as Bernard Bresslaw (chief of the Ice Warriors) called it, is made of moulded glass fromanger Jones, another Ice Warrior, says that after wearing the costume for half an hour, he felt as though he had only been working down a coastline for two days!

The sonic guns which the Ice Warriors use and their effect on people are Visual Effects' products too. The way people appear to crumble and distort when the sonic guns are fired at them is all done with mirrors—literally. Highly polished foil is stretched very thinly over a frame, forming a perfect mirror. The camera then focuses on the actors' reflections and when the foil is pushed gently from behind, these distort.

Radiophonic Workshop

Most of these monsters have correspondingly weird voices and these, along with the title music, are created by the Bbc Radiophonic Workshop.

In the case of the Daleks, the chief voice is Peter Hawkins. His words are fed into a special modulator which produces the familiar harsh jerky sound of the Daleks.

For the Cybermen a different sort of modulator is used to give them timey voices to match their rather tinny bodies.

Apart from the monsters themselves, the Visual Effects Department are kept pretty busy with other things, from instant snow to flashing light sequences on the computers.

Perhaps the most spectacular snow scene of all was the glacier crumbling and melting. Very cleverly done on the model with bicarbonate of soda and steam. Dr. Who calls for a lot of work with mechanical models. Views of Tibetan monasteries seen from great heights, and erupting volcanoes. But the Visual Effects Workshop is used very easily in their monstrous stride.