

Evidence Produced To Back Theory Universe Evolving With Time

Sheffield, Eng.—(U.P.)—Radio Astronomy, one of the newest of the sciences, has produced evidence to support the theory that the universe is not in a fixed state but is evolving with time, it has been disclosed.

Two scientists discussed the new technique whereby radio telescopes are able to listen to the secrets of outer space without the drawbacks of the optical telescopes. They spoke before the British Association For The Advancement of Science.

Dr. J. G. Davies of Manchester University, which is building the world's largest radio telescope—a radar-like bowl almost

the size of a football field suspended on 160-foot towers—told of research into meteors.

Echoes Into Thousands

Visual observers can see perhaps 10 meteors an hour if fog, cloud or other atmospheric conditions do not interfere.

"But the number of radio echoes detected can run into thousands per hour," he said.

Using this ability to hear far more than the eye can see, radio astronomers, he said, had checked 17,500 meteors to disprove the visual theory about the orbit which meteors take through space and the solar system.

It would have taken visual

astronomers many years of observation and photograph to amass the same evidence.

Dr. J. R. Shakeshaft of Cambridge pointed out that an American engineer offered the theory of radio astronomy in 1932. But already many dark or radio

stars, invisible to the optical telescopes, are being charted and sources of emission of radio waves in outer space are also being located.

Explosion of Star

One of these sources is the remains of the explosion of a star

reported by Chinese astronomers in the year 1054 A.D. Another source 300,000,000 light years from earth and apparently is the result of the colossal collision of two galaxies at the very extreme limit of observable space.

Dr. Shakeshaft said that about 2,000 sources of radio waves from outer space have been found—most of them beyond the limits of even the largest optical telescopes.

There are more of these sources than would be expected if they were distributed uniformly through space and this tends to support the theory that the universe is still evolving.

Science Fiction Writer Said Too Timid In Predicting Interplanetary Flight

New York—(U.P.)—The trouble with science fiction writers who confidently predict flights to Mars within 25 years is that their predictions are "much too timid," according to Arthur C. Clarke, Britain's foremost science fiction writer.

It's actually not a case of our imaginations being too fertile," he said. "On the contrary, At the rate rocket propulsion research is going, we'll probably make it to another planet in about five years."

Clarke, a scholarly-looking ex-RAF officer who was a scientist before he began to write science fiction and non-fiction, is here to address the annual convention of the World Science Fiction Society. He begins a nation-wide lecture tour next week.

Thousands To Attend

Over 1,000 science fiction writers, editors, publishers, and devotees are expected to attend the convention, being held at the Biltmore Hotel, Clarke, the author of "Childhood's End" and the non-fiction "Interplanetary Flight," is guest of honor.

"If you think we won't make it to Mars sooner than anyone expected even five years ago, then you're ignoring the fact that an aircraft in development stages now will fly into space—beyond the earth's atmosphere—in a year or two," Clarke said in an interview.

War Brought Prestige

"The war gave science fiction prestige," Clarke said. "It proved that many years ago, when serious writers of science fiction predicted the invention of the atomic bomb, workable jet aircraft, and even rocket-driven craft, they were not in fact indulging in pipe dreams."

He said that the atom and hydrogen bombs "came along just in time to save the human race, rather than annihilate it, for their power will one day be used to take the place of the world's fast-dwindling natural resources."

The 39-year-old writer, who is chairman of the Hayden Planetarium's symposium on space

flight, said that since he had been unable to go beyond the earth's atmosphere—"so far"—he had taken up skin-diving so he could at least explore the floor of the oceans—another world unknown to man.

His most recent book, "The Coast of Carl," concerns explorations Clarke made with his partner, Mike Wilson, to photograph undersea life along the great barrier reef off the coast of Australia.

Ride on Flying Horse Brings Gift of Poetry, Legend Says

By FAY VAN SCHOLIAK

Would you like to be a poet? Well, that's a simple matter. All you need to do is take one ride on a flying horse! Quote: (from mythology) "... To any mortal who has ridden a winged horse is given the gift of poetry..." And this is a splendid time of year to become acquainted with such a steed.

Rising in the east during the early evening hours, the star picture called Pegasus, the Flying Horse, is well placed for observation during the months of autumn and early winter. But a very vivid imagination is necessary to anything resembling a horse in this constellation. Only part of the animal is shown as it flies upside down across the sky.

Flying to Heaven

Some say that Pegasus is flying toward heaven partly submerged in clouds. Others claim it to be a ship's figurehead for the Egyptians and Phoenicians looked upon this star group as the emblem of a ship. The Hebrews called it Nimrod's Horse.

The most conspicuous part of this star picture is the body of the horse formed by four stars outlining a figure so nearly square that it is named the Square of Pegasus or the Great Square. The Square of Pegasus looks much like a huge square dipper resting on one corner which gives it a diamond-shaped appearance. Two lines of stars representing the front legs of the horse extend upward from the highest star in the Great Square, or the top of the diamond.

The head, shaped like a triangle, reaches to the right from the star on the right side of the diamond as the observer is facing east. Only the body, front legs and head of this creature are shown.

Sprung to Life

According to Greek mythology, Pegasus, a beautiful horse with great white wings, sprang to life from one of the several drops of blood that fell to the ground when Perseus cut off the head of Medusa, a Gorgon with snakes for hair. Only Minerva, goddess of wisdom, could tame this beautiful, but wild creature, who had taken up his abode on Mount Helicon.

Bellerophon, a brave young man who had accidentally killed a man, was sent by King Iobates of Lycia to destroy the terrible Chimera, which had the head of a lion, body of a goat and tail of a dragon and breathed fire and smoke against its enemies. King Iobates hoped that Bellerophon would lose his life in combat with the monster.

Spent Night Praying

Before starting on this dangerous mission, Bellerophon spent the night in the temple of Minerva, praying before the altar. During his vigil the goddess of wisdom appeared and presented Bellerophon with a golden bridle and gave careful directions for placing it upon the Flying Horse, which would then do his bidding.

Filled with hope, Bellerophon hid beside the spring where Pegasus came for his morning drink. Leaping onto the back of the wild horse he slipped the golden bridle into its mouth. Instantly Pegasus spread his beautiful wings and rose into the air with Bellerophon on his back. To overcome the Chimera was a simple matter.

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Is That So?

At some time during its lifetime, every mammal possesses some hair. In fact, that is one of its most distinctive features. With the whale, it may be limited to a half dozen on the lip; with the sea otter, there may be thousands of soft lustrous hairs on a space no larger than a dollar bill.

In the hot tropics, the hair may protect animals from direct



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sunlight. With others, like the hippopotamus which spends most of its life in rivers and lakes where its body can be kept relatively cool, few hairs are needed. But for protection from enemies—including insects, mainly—these relatives of the pig have a thick skin, in some places two inches thick.

Like some animals, the human infant is born with a covering of fine down. Later, this is replaced with the usual growth of hair all over the body with the exception of palms of hands, soles of feet, undersides of fingers and toes and the lips. Most of the human's hairy coat goes unnoticed however because it is usually of very fine texture and light in color. But in some human races, the thickness of hair varies: in some Asiatics, the hair may be notably scarce, with little if any heavy beard. But with others, like the primitive Ainus of Japan, the body is covered with an extremely heavy layer of black hair.

Two Kinds of Hair

Blow kinds of hair, and you will see that basically most animals have two kinds of hair. One long and coarse, called guard hair; the other fine and thin, the under-fur, much more numerous and shorter. The guard hairs provides the protection—but for the most commercial uses, it is trimmed or plucked.

Some animals have curly hair, others straight—the latter being due to a round shaft, the former to a flattened one.

The most customary use of hair is to aid the animal in conserving its body heat. In the far north, for example, all animals have a heavy coat—the dense underfur providing an insulating envelope of air. As a special adaptation, the caribou of the northland has hollow hairs which not only helps keep it warm but also helps it to cross fairly large bodies of water, acting as a life-saver.

With some, hairs have been developed into protective devices. Some hogs have joined to make heavy bristles. The Old World hedgehog and our porcupines are veritable pin cushions, the large strong spines capable of inflicting serious injuries.

Most night-moving animals, particularly those which burrow, have special long constantly-moving hairs on the sides of the face, so-called moustachial whiskers, like those of a mouse. These are extremely sensitive and, because they are attached to special nerves, permit the animal to make quick responses to what things the hairs may encounter.

Hair offers another kind of protection—that of camouflage. A fawn is born with colored hair spots which help the infant blend with spotted shadows. A kangaroo rat which lives in a light desert will have much lighter fur than one living on dark soil. The color and pattern of a leopard help it remain hidden. But more amazing perhaps, is the annual color change of the northern animals which thus blend with a background of snow or one of soil and leaves.

May Attract Opposite Sex

As another protection, special long hair may grow on a mane to protect an animal's neck from the teeth of its enemies. Or, when it grows on the tail as a fly swatter. With a few, a hair-like crest may be used to attract the opposite sex.

There is yet another function of hair—when the weather is cold, tiny muscles contract and erect the hair. This provides a greater air pocket to insulate the animal. Or, the hair may rise when the animal is angry, bluffing. This makes the animal ap-

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"IC" FOR "RE"—Former President Harry Truman, an old hand at catch-as-catch-can politics, chuckles in Kansas City as he comments on GOP reference to Democratic Party as "Democrat" Party. Harry is telling a radio reporter, "I will trade them (Republicans) the 'ic' on our's for the 're' on theirs and make it Republican Party. You know, in Roman history, the Publians were tax collectors who paid for the privilege."

Mexican Laborer Injured in Accident

Candelario Palafox Rodriguez, 23, a Mexican laborer, suffered a fractured leg and contusions of the back Friday afternoon, when the car in which he was riding overturned while making a turn on Valley View rd. east of Talent, according to state police.

Rodriguez was taken to Sacred Heart hospital by Medford ambulance, state police reported. Hospital attendants said Saturday his condition was "good."

State police said five Mexican nationals were passengers in the car, which was operated by Paez J. Jesus Esparza, also a Mexican national. The car was registered to Newbury Orchards, Ashland, where they were employed, according to officers.

EXPENSIVE DRINK

Indianapolis—(U.P.)—William E. Sherrill, a filling station manager, will think twice next time he feels like stopping for a drink on the way home from work.

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Police Cars Damaged In Parking Area

Three state police cars were damaged Friday afternoon when a car occupied by James R. Dungan, Phoenix, and two Medford juveniles, ages 17 and 18, went out of control on the North Pacific highway, traveled into the state police parking lot and struck the cars, it was reported yesterday.

Driver of the vehicle was reported to be one of the juveniles, according to the state police. Officers said they were informed

Dungan grabbed the steering wheel before the car went out of control. The auto was registered to Dungan. Dungan was arrested for being intoxicated on a public highway and was lodged in the county jail along with the two juveniles.

New Haven, Conn.—(U.P.)—Arrested for speeding, Marion Barnett explained that she gave a false name because she was afraid of losing her job as an auxiliary policewoman.

Elk, Buffalo Offered for Sale

Washington—(U.P.)—Now's chance to buy a buffalo cheap. But you'll have to hurry, the government only has 500 for sale.

The government also is offering a rare opportunity to snap up 76 elk, 100 mule deer and 151 longhorn cattle.

The Fish & Wildlife Service has announced it would sell the animals because of the growth of its herds on the big game preserves in Nebraska, North Dakota and Oklahoma. Officials said the surplus animals cannot be accommodated on the available ranges without danger of overgrazing.

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Mature buffalo will sell for about \$150. Mature elk will sell for \$80.

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