Many See Satellite Over Aust.

Many thousands of people in many parts of Australia and New Zealand saw Russia's artificial satellite move slowly across the sky early last night.

The satellite, which the Russians have named "Sputnik," will pass over Sydney again tonight about 7.40, the chief engineer of the Overseas Telecommunications Commission, Mr. R. R. Long, said last night.

Scientists "Puzzled"

Hundreds of people in heavily clouded except for an Sydney reported seeing the area directly above the city.

)F

reporting the satellite.

The satellite appeared un-satellite. mistakably at 7.39—the time • A

It resembled a star of aver- satellite.

age brilliance and moved as tar of aver-age brilliance and moved as a high-flying jet aircraft. The satellite approached from the south-south-east and moved towards the north-north-west. The sky over Sydney was cause of distance.

satellite move across a cloudy sky at 7.39 p.m. But two groups of experts were puzzled and disappointed. They were:

They were: • C.S.I.R.O. radio scien-tists who reported "strange interference" with the satel-lite's radio signal as it ap-proached Sydney; and • Astronomers at Belfield whose view of the satellite through special telescopes was blocked by cloud. Newspaper offices and rodio

blocked by cloud. Newspaper offices and radio stations throughout N.S.W. hundreds of excited callers reporting the satellite continuous hurze continuous buzz.

The "Herald" switchboard An expert at the C.S.I.R.O. received more than 150 calls radio research centre at Syd-before 9 p.m. from widely ney University said this scattered suburbs and country towns.

A "Herald" reporter and photographer watched the satellite pass over the city from the roof of the 14-storey "Herald" building. have been intentional. He said it could be due to one of three possible causes: • The signal could have been changed by an auto-matic time switch in the

• A coded radio impulse that Russian scientists forecast from Russia could have affecit would pass over Sydney. ted transmission from the

The Sydney Morning Herald.

TUESDAY, OCTOBER 8, 1957

Over City Tonight

Mr. Long said last night before it disappeared near the the satellite would pass over moon. "The brightness of the moon

about 7.40.

satellite at their radio receiv- Russia provided no further ining stations at Bringelly, near formation on the satellite. Sydney, and Rockbank, Vic-scientists would still gain toria.

From these observations, ting its course. they had computed its orbit "The fact the accurately, he said.

can now be predicted any-said. where," he said.

"It will pass over Sydney at 7.40 again tomorrow night, and also twice during the day, but will not be visible in daylight."

ern Australia and New Zealand last night said thousands of people had seen the satellite travelling in a south-tonorth direction.

Satellite Seen

Interstate

Interstate But the secretary of the Sydney Amateur Astronomers' Group, Mr. G. Pastson, said that the group's 20 trained watched for the satellite but "skywatchers" had missed the his view was obscured by satellite because of cloud. satellite because of cloud.

But they would try again tonight, he said.

The satellite was identified over Canberra at 7.40 last night, the research engineer at the Commonwealth Ober-vatory, Mr. K. Gottlieb, said. Mr. Gottlieb said: "I saw it rising in the forecast posi-tion east of the Southern Cross. I followed it for 20 to 30 seconds.

"It began 10 degrees above the horizon and moved across an arc of 110 to 120 degrees

Sydney again tonight at made it impossible to see past that point.

He said engineers of the The Professor of Physics at Overseas Telecommunications Sydney University, Professor Commission had tracked the Harry Messel, said that if valuable experience in plot-

"The fact that the satellite "The path of the satellite eye is amazing in itself," he

Science Given

Great Scope

"It will mean that scientists will be able to plot the course Reports from Victoria, Tas-mania, South Australia, West-their calculations by observing its flight.

"This gives science great scope for checking predictions on the flight of satellite bodies.

"It was believed earlier that one of the greatest diffi-

Role Of Soviet Satellite Puzzling West's Scientists

NEW YORK Oct. 7 (A.A.P.-Reuter).-In the fourth day of its life, the world's first artificial satellite—which the Russians have named Sputnik is creating confusion over the questions:

- Is Sputnik making space batteries for tracking purposes studies, such as tempera-tures or space's shooting. But in Moscow a promining a team of Soviet scientists
- other nations of what Sputnik learns in this lation difficulties, it is possible maiden voyage space?

Professor A. Blagonravov, one of the leading Soviet scientists responsible for Sput-nik, said in New York yester-Code day that the satellite was not

for the I.G.Y. Nobody should have any-thing to fear from the Soviet satellite program, which was aimed at eventually carrying real information." human beings into space, he said.

Professor Blagonravov, who has been attending an I.G.Y. conference in Washington, said that Sputnik carried only radio equipment, circuits and

tures or space's shooting three or other events in space. helping with I.G.Y. studies at stars?
Is it telling about them in a radio code?
Will the Soviet inform other nations of what

However, because of trans-

Code

Circled Earth

30 Times

By 4 a.m. G.M.T. today— 2 p.m., Monday, Sydney time —the satellite had made 32 complete revolutions round the earth, according to Mos-cow Radio.

The radio added: "According to measurements so far made, the satellite's period of revolution is virtually un-

Sputnik, yesterday announced that very soon they would launch heavier and larger "moons" equipped with a more varied range of record-lite, he said. ing instruments.

Professor Fesenkov is head-

site.

into that the Moscow scientist was referring to future satellites, and not to Sputnik. Dr. J. Allen Hynek, asso tory, said last night that American scientists would be able to extract more precise data about the satellite than Russian experts when the satellite's radio batteries were

day that the satellite was not the one the Soviet said it would send up in connection physical Year. **Some U.S.** scientists listen-ing to Sputnik's beeping sig-they said, sounded like a code. **The Russians had 75 moon-watching stations.** The United States had 150 stations throughout the world, 99 in this could well be a practice the United States alone.

I'ear?' Speaking through inter-preters on a television pro-gram, he also said the satel-lite was not transmitting coded interview last night that Southard from a point southard from a poin

gram, he also said the satel-lict, "Vanguard," said in an lite was not transmitting coded messages. Professor Blagonravov said Sputnik was purely experi-mental. The next Soviet for the I.G.Y. Nobody should have any-thing to fear from the Soviet satellite program, which was it's hard to tell if it represents

"The apparatus of the arti-ficial earth satellite is func-tioning normally." Soviet scientists, overjoyed at their success in launching second Soviet satellite.

Instruments to test their re-



DR. J. P. HAGEN

Satellite Old Hat To The S-F Men

NEW YORK, October 7 (A.A.P.).-The Russian space satellite is as outmoded as the T-model Ford as far as science-fiction writers are concerned.

They put satellites on the shelf, along with atomic energy and rockets, 10 or 15 years ago, and turned to fantastic new fields to con-quer. . "The space satellite is not science fiction any more be-cause it's now science," said John Campbell, editor of "Astounding" magazine, yes-""Astounding" magazine, yes-

"Astounding" magazine, yes-terday. "Some years back, atomic energy used to be science fic-tion. Rocket engines used to be science fiction. Now they all are just plain science." Horace L. Gold, editor of "Galaxy," another science-fiction magazine, agreed that the satellite was "old hat" to his writers. "We know too much about it," he said.

it," he said.

Time Travel

Still To Come

"Other things are very far from being immediate reali-ties, such as time travel, travel to very distant stars and travel faster than the speed of light." Other subjects also had been outmoded for science

Bid To Control "Moons"

NEW YORK, Oct. 7.—The United States expects to put before the U.N. Gen-eral Assembly next week a suggestion for the control of outer space missiles, says the "New York Times."

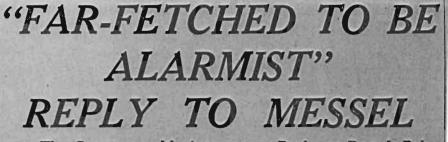
"New York Times." The proposal may cover such a satellite as the Soviet launched last Friday. The newspaper says however that the move is not a result of the Soviet's launching of the earth satellite, but has been part of the Western program for disarma-ment since last summer's disarmament talks in London. London.

Could Be

Converted

An earth satellite, in the opinion of the U.S. delegation, could be con-verted into a weapon-carrying missile. The "New York Times" quotes diplomatic sources as saying that the U.S. resolution already has the support of 20 nations. It is believed to urge

It is believed to urge that all future outer space research should serve "only peaceful and scientific purposes."



The Commonwealth Astronomer, Professor Bart J. Bok, said in Canberra last night that it was far-fetched to be alarmist about the Soviet's earth satellite.

of 'what goes up must come down.'"
 U.K. Govt. To Study Claim On Leakage
 LONDON, Oct. 7
 (A.A.P.-Reuter). — The Minister, Mr. Harold Macmillan, agreed to consider Labour Party allégations of a leakage beforehand of the Government's intention to raise the Bank Rate to 7 per cent.
 of 'what goes up must come difficulties to the along time before cameras ould be installed in earth and the apparation of the orbit, and the stripus interesting and valuable things. These included the study of the along time before cameras the stars and sun, the precise form of the orbit, and the distribution of matter and face of the stars and sun, the precise form of the torbit, and the distribution of matter and face of the stars and sun, the precise form of the orbit, and the distribution of matter and face of the along time stars and sun, the precise form of the orbit, and the distribution of matter and face of the along time stars and sun, the precise form of the orbit, and the distribution of matter and face of the along time stars and sun, the precise form of the orbit, and the distribution of matter and face of the along time stars. The stars and sun, the precise form of the orbit, and the distribution of matter and face of the along time stars. The along time stars and sun, the precise form of the orbit, and the distribution of matter and face of the along time stars. The stars and sun the distribution of matter and face of the along the manemade moon had been recorded on magnetic tape.

the Bank Rate to 7 per cent. This was announced follow-ing a visit to 10, Downing Street this morning by two leading Labour Party M.P.s. Mr. Harold Wilson, its econo-mic expert, and Mr. James Griffiths, Deputy Leader of the Opposition. The Government has so far refused to hold an inquiry into the Labour Party allegations. Mr. Wilson, in a letter to the Government last Friday, offered to place prima facie evidence before any Govern-ment inquiry. Mr. Marouille told the told the

Mr. Macmillan told him in reply: "If you are willing to make this available to me, I am prepared to refer it to the Lord Chancellor and to ask him to report to me whether it affords sufficient ground for further investigation."

Fourth Quin Dies TOULON, Oct. (A.A.P.-Reuter). - Roland, one of the two surviving

Christofle quintuplets, died at 3 a.m. today. This morning, doctors said that the condition of the only survivor, Michele, was sta-

Michele, the first of the quintuplets born last Wednes-

day, weighed 21b 1oz at birth.

tionary

He was commenting on a statement by the Professor of cheerful rivalry between the able to record details of other planets. on Sunday night that he had "a dreadful feeling that we are nearing the end." Professor Bok said there might be military implications. ULK Covt To

magnetic tape.

Mr. Beale said the

Woomera scientists were now

Woomera scientists were now analysing the recorded signals. They would pass on any interesting information to scientific organisations throughout the world. If Russia provides the necessary data and equip-ment, the Weapons Research Establishment is willing to authorise Woomera scientists to radio-interrogate Russian satellites in the same way as they will the American satel-lites, to be launched later, and lites, to be launched later, and record the automatic radio replies.

If Russia accepts this offer Woomera will radio the coded signals received from the Russian satellites to Russia through the International Geophysical Year authorities in the U.S. Mr. Basle said a round the

in the U.S. Mr. Beale said a round-the-clock listening watch was organised at Woomera as soon as the Russians an-nounced the launching of the satellite and its frequencies. Woomera radio first picked up the satellite at 10.30 p.m. on Saturday.

up the satellite at 10.30 p.m. on Saturday, The Woomera scientists are tracking the satellite on hastily prepared emergency equip-ment, and their findings may not be perfectly accurate. Special American equip-ment worth £100,000 is being assembled at Woomera to track satellites accurately to track satellites accurately— but it will not be able to follow the Russian "moon" because of the radio frequency used. The frequency varies from that which America is to

Woomera Scientists Analysing Signals