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SCHOOL TUNICS



DR. BERKNER

NEW YORK, Sat. (A.A.P.). - Details of the Soviet satellite are reported to be-

Size: 22½ inches in diameter.

Weight: 184lb (more than eight times the weight of the planned U.S. 20in satellite).

Speed: 18,000 miles an

Estimated life: Not more than three weeks.

Altitude of orbit: 560

Signals: Two radio transmitters sending "beeps" at 20.005 and 40.002 megacycles, strong enough to be picked up by "ham" operators.

Visibility: Seen best at sundown and sunset with binoculars or spy glass.

Rotation: Circles earth once every hour and 35

Orbit: Ever-changing. Contents: Primarily radio transmitters. with allied equipment.

What to

look for

A U.S. expert on the International Geophysical-Year gave this idea of what the man-in-the-street should look for:

"The satellite aloft will look like a text maying at

look like a star moving at thout one-quarter of a degree a second, or some-what like a high-flying jet aircraft. with a moving pinpoint of light.

Over every

country

A U.S. authority said that the satellite's flight path moves a little to the west each time it goes around the earth, so that it eventually will need to be a second to be it eventually will pass over every country of the world.

The Soviet Union has launched the world's first artificial satellite.

The man-made moon is circling the earth once every 95 minutes at a height of 560 miles.

It passed near Australia at least three times yesterday.

The satellite was launched | by the Soviet on Friday as national Geophysical Year.

Since Moscow Radio announced it late on Friday, most countries have kept watch for it.

In Australia the baby moon was tracked by radio, but up until late last night no sighting had been made from Australia.

Amateur radio tians all Australian States listened to radio "blips" transmitted telescopes reported the streaking satellite in Indiana, Amateur radio "hams" in

When people in Britain switched on their radio sets a contribution to the Inter- for the early morning news yesterday, they heard the satellite signals.

The British Broadcasting Corporation had made a recording and broadcast them as part of the bulletin.

The U.S. Naval Re-search Laboratory in Washington reported three passes of the satellite over America.



California, Ohio, and Vir-

Dr. Armand Spitz, coordinator of Visual Satellite Observation of the Smithsonian Astrophysical servatory, of Cambridge, Massachusetts, said angle at which the Russians launched the artificial moon meant that it would pass eventually over every coun-try of the world.

More soon

He said, because the carth was turning under the satellite, the moon's flight path shifted a little to the west each time it went around the planet.

The satellite is expected to slow up within three weeks.

It will re-enter the earth's atmosphere, where friction will disintegrate it.

Moscow Radio said yesterday that the launching of the rocket must have weighed moon.

"If a satellite of this attending a special confer-

VOLUNTEER members of "Operation Moonwatch" at the official observation station at Belfield. Left to right: D. Patston, H. Northy, E. H. Patston, G. Miles, G. Patston.

of space travel and "flight!

to the moon."
A special observatory to follow the satellite's course had been established at Leningrad.

The radio said that Russia would launch more satellites carrying special equipment to probe the highest parts of the earth's atmosphere.

80 tons

The vice chairman of the British Interplanetary Society, Mr. K. W. Gatland, said the most remarkable thing about the satellite was that three-stage launching

He calculated this from the weight of the satellite itself-184lb.

"The Americans putting up a satellite 211b, which, compared with Russian achievement, is comparatively easy thing to o," Mr. Gatland said.
The American ro do,'

The American rocket would weigh about 11 tons. Mr. Gatland added: "The Russian satellite is the first definite step towards interplanetary travel and, because of the weight of this rocket, it brings much nearer than we had thought the first flight of an unmanned research rocket to circle the

weight can be put up with a three-stage rocket, it requires only one more stage to reach the moon," he said.

The Soviet has been congratulated by the chairman of the United States National Committee for the International Geophysical Year, Dr. Joseph Kaplan.

Noting reports of the satel-lite's size, Dr. Kaplan said: 'This is really fantastic. If they can launch that they can launch much heavier

At party

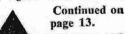
One of the first Americans to offer congratulations was Dr. Lloyd Berkner, reporter on earth satellites and rockets for a special committee set up by the I.G.Y. organi-

Sation.

Dr. Berkner was attending the Soviet a cocktail party at the Soviet Embassy, given for those ence of the I.G.Y. in Washington.

In Australia the Federal president of the Wireless Institute of Australia, Mr. D. Bowie, said "blips" had been received three times during the afternoon from the satellite.

The overseas radio receiving station of the Overseas Telecommunications at Bringelly, N.S.W., began receiving signals from noon on



Continued circ from P. 1. Saturday, said the studio manager, Mr. John Peel. The A.B.C. at Liverpool so received the signals from about noon.

A "fence" of 20 telescopes is being manned by a team of amateur astronomers.

Two schoolboys in Adelaide were among the first

The Adelaide boys heard the satellite for five minutes from 12.10 p.m.

They are Graham Bowen,

17, of Prince Alfred College, and his friend, Colin Lute,

The powerful radio set they were using belongs to Graham's father, Mr. G. M. Bowen, a member of South Australia's Operation Moonwatch, the committee organ-ised to observe the U.S. ised to observe the satellite to be launched later this year.

Graham Bowen said: "The satellite was probably directly

"We heard it at maximum signal strength as soon as we switched on the set, but the strength

gradually faded during the next five minutes.'

night last stations all over the world flashed the news that they were picking up clear "peeppeep" signals from the satellite as it circled the globe, and watchers in many countries reported having

A total of 150 "moon-watching" teams belonging to the International Geophysi-cal Year have been alerted throughout the world and are now on the lookout for the satellite.

The successful launching took the western world by surprise as no previous news

on the date of the launching been announced by had Russia.

Dr. A. C. B. Lovell, director of the Jodrell Bank Experimental Station, Cheshire, and Professor of Radio Astronomy at Manchester University, exclaimed, "Gosh," when he first heard the news of the Soviet achievement.

He then commented: "The Russians have beaten the Americans to it by a number of months.

"Our information is that America will not be in a position to launch a satellite until next spring.

Top ranking officials Project Vanguard, the U.S. earth satellite project, expressed serious concern pressed serious concern about the Soviet announceconcern ment in interviews yesterday.

None of the vanguard officials contacted wanted to

be quoted by name.
One said: "Frankly it's enough to scare the hell out of me. If they can do that they can drop ICBM's (Intercontinental Ballistics Missiles) on us."

Dr. Richard Porter of the U.S. committee for the International Geophysical Year, said that the Soviets undoubtedly had used a military rocket to launch such a heavy satellite.

He said launching satellite weighing I "is consistent with their statement they have the I.C.B.M."

A 12-year-old Boy Scout in Charleston, West Virginia, is believed to be the first American to see the satellite.

He told reporters he sighted it with binoculars.

The youth reported a "bright red spot" moving across the sky for about a minute.

But scientists at the American Smithsonian Astro-physical Observatory claimed that the Russian earth satellite was not and had not been visible to observers.

Dr. Fred L. Whipple, director of the observatory, said computations had determined that the satellite was between the earth and the shadows of the sun, making it invisible to observers.

Special code

In New York, Rear-Admiral Rawson Bennett, Chief of Naval Operations, said the Soviet earth satellite was a "hunk of iron almost any-body could launch."

American radio and Press reception of the event acknowledged that Russia had beaten the United States in a race to be the first to launch a satellite.

There was no sign that

United States intelligence agencies had any advance knowledge of the launching of the Soviet moon, according to reliable sources in

Washington.
Dr. Henry L. Richter, a scientist at the California Institute of Technology, said the satellite was transmitting coded information in addi-tion to the steady "beep" tion to the steady radio signals.

Special equipment interepted the coded informa-

He said: "Unless the Russians give us a clue, we may not be able to decipher the messages."

A spokesman for the United States I.G.Y. committee said the Russians had announced their satellite was transmitting temperature

data in code.

He said the Russians had agreed to furnish the code.

The spokesman said the code was in the time lapse between single beep signals transmitted from the baby moon.

SYDNEY SPOTTERS SCAN SK

Special Reporter

AST night I sat at a telescope and attempted to track the Russian space satellite as it hurled past Australia at 18,000 miles an hour.

I knew from radio signals that somewhere overhead the satellite was flashing towards us 560 miles above the earth.

I was one of 20 "space" observers who gathered at the headquarters of the Sydney Amateur Astronomers'

I looked for

Group in the backyard of the home of their secretary, Mr. Gordon Patston, in Lincoln Street, Belfield.

Twenty - wide-angle . telescopes, each trained on 11 degrees of the sky, stretched in a row across Mr. Patston's backyard.

When the satellite, moving in a west-to-east direction across the earth at 65 degrees to the equator, flashed near Australia, it had to pass this line of telescopes, Mr. Patston explained.

Precisely at 6.30 p.m., Mr. Patston called his members to their telescopes - the sun had now set and the "satellite alert" was on.

Immediately the satellite appeared on my telescope I was told to press a time switch which would record the interval

it took to cross the

"grid." At the same time I would press an alarm switch which would alert Mr. Patston at the master telescope to "home" with

the satellite and plot its course.

At 7.22 p.m. an alarm bell rang—this was the signal that Sydney radio amateurs had picked up the signal of the approaching satellite on their sets.

For half an hour members trained their telescopes on the now black sky, dimly visible through the breaking clouds.

At 8.10 p.m. Mr. Pat-ston called the attempt off-we had failed to see it.

Shortly before dawn today, when the rays of the near rising sun reflect on the polished surface of the satellite, Mr. Patston and some of his members my telescope and track will try again to track it.

MES B. GRIFFIN, ry. Retail Traders' Asso-N.S.W.

nts "Crammed" Examination

in about a month's time ing Certificate Examinacommence. Once more he annual scramble to ite the work of two order to star 1 or fall on ts of from five to eight

Leaving Certificate are not educated; we are -crammed with a mass ormation, ready-made and prepared answers prime object of "satisexaminers.

is done to equip us for d and citizenship. We e literally the slaves of ial examinations like the bassy. Certificate.

ville. J. PEACOCK.

bside Parking

cars, which arrive in our rom 7.30 onwards and when the to a 11 S. scientification of the control of the contro kerbs of our frontages p.m. and after?

Soviet Satellite Expert Is Artillery General

When the news of the Soviet space scientists responsible for it — possibly the director of the entire project — was in Washington at a cocktail party.

THAT man was Anatoli Arkad yevich Blagon-ravoy, Lieu tenant-General of artillary in the course of the entire project — was in Was a at a rakish angle.

CORRESPONDENT In NEW YORK

In NEW YORK

CORRESPONDENT In NEW YORK

In NEW YORK

"We are even better able to face the summer fire hazard this season," says the secretary of the Bushfire Committee, Mr. B. Anatwo and the perimeter of the fire also doubles, but the area destroyed quickly. They know that a fire which burns 30 acres in its first face the summer fire hazard this season," says the secretary of the Bushfire Committee, Mr. B. Anatwo and the perimeter of the fire also doubles, but the area destroyed quickly. They know that a fire which burns 30 acres in its first face the summer fire hazard this season," says the secretary of the Bushfire Committee, Mr. B. Anatwo and burning-off impossible. Today, firebreak preparations are very good. We should come through the season well—practice that airliner pilots must at a rakish angle. satellite reached the world, one of the key

of artillery in the Soviet Army and fully fledged academician of the Soviet Academy of Science.

cational system which scientists he vivas a guest at a like another professor than a ment. the pernicious influence cocktail party -at the Soviet Em-general.

Could something be done face lit up, he wheamed constantly quality to his thin smile. as other scien tists stepped for-

When the to op U.S. scientists approached, he asked if he could ay big rates and have ovision in our own small the "moon's" riadio signals.

matic sources declared it was a at a rakish angle. search.

dull, gathering. Then came the face show his 63 years. Twink- rank of Professor.

news: Russia had successfully ling blue eyes help reinforce the Three years later he won a launched the world's first satelegenial attitude he seeks to convey Stalin Prize for his contributions but they and their vehicles are genial attitude he seeks to convey Stalin Prize for his contributions but they and their vehicles are profested by the Workers' Comin personal contact though some to Soviet Artillery and during protected by the Workers' Compeople believe there is a furtive most of the years since World pensation (Bush Fire Fighters) ringah and Sutherland, have in-

came out from time to time when Science.

From A STAFF

"reasonable guess" from the evi- Ending his training at the dence available that he was in Soviet Military-Technical Acadcharge of all Russian rocket re- emy about 1930, he began his With other raoted international ington party, he appeared more with infantry and aviation arma-

Yet the two seasons nere ... similar, with heavy spring growth roads to traffic and to burn hrefollowed by late rains right into breaks.

No Complacency

come through the season well— practice that airliner pilots must but do not let any of our mem-report any fire that they see to bers, or the public, interpret this the nearest ground control. The

By 1938 his books had won that their jurisdiction ends a few indeed if they were not on the hoselengths from the ends of the scene of a local fire in a quarter It started of J as a quiet, even snowy hair and the lines in his tor of Technical Sciences and the water mains. And that is where of that time.

War II he has been head of the Act of 1944. Funds for equip-stituted a new system, which will The inner intensity of the man Soviet Academy of Artillery ment come from the State Gov- probably spread rapidly, particular out from time to time when Science.

the summer, making burning-off The captain, deputy and secreimpracticable in most districts, tary of each brigade is registered The only factor that made the with the local telephone ex-task more difficult in 1951-1952 change. Directly a fire is reportwas the prevalence of high winds. ed, local brigades are alerted.

It pays them to be on the spot quickly. They know that a fire

harge of all Russian rocket re- emy about 1930, he began insearch.

weapons research and 25 major

But to the group at the Wash- scientific works, most dealing agion party, he appeared more with infantry and aviation armaike another professor than a ment.

Of course, the Board of Fire taileds, out an hour of fine elapses before it is relayed bility for most of the thickly through to the bushfire brigades settled areas in the State. For a of the particular area. Brigade rough definition, it could be said captains' faces would be very red

size of the Soviet satisfication of the Soviet IL Military scientists saft up achievement, gloomy view of the Rlou Department officials thus Some senators and ods ton by telephone. kept in touch with Wasod rerday and played goboss at his Gettysburg farious Mr. Eisenhower Iel aut

"ipstrument trip" to the moon "in a few ye Over Moscow Radio, leading scientis In Moscow, Russians are jubilant :

victory. ment. Officials believe Russia has scored Congressmen admitted greater concern s However, State Department official

not surprised," said the President had taken the Soviet s President Eisenhower's Press secret

announced yesterday.



to be a success in eventual com- the results of from five to cight mand that they have their boys sho. papers. trained in the type of ship which We Leaving will be their life at sea.

T. W. COYNE, Master Mariner (retd.). Armidale.

Sir,-I do not think the Pamir fying the examiners." was lost because she was a sail- Little is done to equip us for cadets.

to list badly.

I think a modern steamer would come to a similar end in these circumstances. There are numerous examples of bulk coal or ore carriers which have gone down along the Australian coast, that is easy to remember.

liar with these things, it seems till 4.30 p.m. and after? divide the upper layers of a bulk cargo in a ship's hold with temporary baffles to stop the cargo rear premises for our own car, while a squatter makes use of the shifting to one side in rough seas. while a squatter in shifting to one side in rough seas. front—non-rated. JOHN R. LEE.

Larras Lee.

High School's Early

who was born in November, at Admiralty House, Sydney.

My eldest sister (also deceased) who was born in April, 1869. His Excellency the Governor Identified only as Academician was one of the first girls to go and Mrs. Woodward, attended by Blaganravov and decreased in the to the school—she knew Ethel members of the Personal Staff, civilian clothes

1886. I am now in my 86th Woodward entertained guests at Last December year. The school was between luncheon and afternoon tea.

F. D. HOBBS.

Certificate ctudents are not educated; we are crammed-crammed with a mass of information, ready-made opinions and prepared answers with the prime object of "satis-

ing vessel manned with a lot of adulthood and citizenship. We are quite literally the slaves of We are told that the ship's an educational system which cargo of bulk wheat "shifted" in spreads the pernicious influence cocktail party at the Soviet Emgeneral. the mountainous seas, causing her of external examinations like the Leaving Certificate.

Hurstville. J. PEACOCK.

Kerbside Parking

Sir,-Could something be done the Birchgrove Park being one hugging cars, which arrive in our To one who is not very fami- streets from 7.30 onwards and hug the kerbs of our frontages

We pay big rates and have

Redfern.

PEEVED.

VICE-REGAL

My eldest brother (deceased), K. V. Newman, general secre-tary of the R.S.S. and A.I.L.A. satellite echoed reception room.

go to the school-previously he received Mr. C. St. J. Mulhol-sian. "I recognise it." had been to Newington College. land, Acting Under-Secretary. The other seisentists just stared. The headmaster there was Mr. New South Wales Department of at him. It sees med that at the

were present at the Australian scholar, he ha I started at the school in Janu- Jockey Club's Spring Meeting at Washington as ary, 1885 and have a report for Randwick Racecourse on Satur-viet delegation t the half-year ended December, day. His Excellency and Mrs. meeting of rocl

Castlereagh Street and Elizabeth
Street, where David Jones Ltd.
big shop now is.

Lizabeth His Excellency the Governor In the Sovie and Mrs. Woodward, attended by popular Press to members of the Personal Staff, articles have left Sydney yesterday evening on authoritative pro an official visit to Taree. Russian rocket

Arkad vevich Blagonravov, Lieutenant-General of artillery in the Soviet Army and fully fledged academician of the Soviet Academy of Science.

bassy.

face lit up, he weamed constantly quality to his thin smile. as other scien tists stepped forward and cong ratulated him.

When the top U.S. scientists approached, he asked if he could borrow some e quipment to hear the "moon's" radio signals.

Heard On Tape

The U.S. men had already thought of tha t. They quickly produced a rec order which had been used to listen for such

"That is the voice. That is the 1867, was one of the first boys to Subsequently his Excellency voice," called the excited Rus-

Joseph Coates, who became the first headmaster at the High school.

Mines, and Mr. F. Perkins, moment Gene al Blaganravov (Admiralty House, Sydney.

Mines, and Mr. F. Perkins, moment Gene al Blaganravov (Admiralty House, Sydney). specialist.

> that befit the d been sent to head of the Soo an international cet scientists. er he had headed

ition to Paris.

space travel.

matic sources declared it was a at a rakish angle. "reasonable guess" from the evi- Ending his training at the dence available that he was in Soviet Military-Technical Acad-

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came out from time to time when Science.

charge of all Russian rocket re-emy about 1930, he began his of course the Post of Fig. 1990

THAT man was Anatoli at laying the groundwork for colleague but mostly he tried to firebreaks and burning-off imposappear nonchalant, holding his sible. Today, firebreak prepara- quadr A month ago, Western diplo- Russian cigarette cocked upward tions are very good. We should It come through the season well- practi but do not let any of our mem- repor bers, or the public, interpret this the n

weapons research and 25 major Commissioners accepts responsi- often But to the group at the Wash- scientific works, most dealing bility for most of the thickly throu settled areas in the State. For a of th rough definition, it could be said capta By 1938 his books had won that their jurisdiction ends a few indec He has a slight build and his him the scholarly degree of Doc-hoselengths from the ends of the scene

Immediately, in the General's people believe there is a furtive most of the years since World pensation (Bush Fire Fighters) ringa ace lit up, he upcamed constantly quality to his thin smile.

War II he has been head of the Act of 1944. Funds for equip-stitut The inner intensity of the man Soviet Academy of Artillery ment come from the State Gov- probi lernment (25 per cent), from the larla

> in t'E star. hol ard ? spol COIT pors fror the . mar ip" to the moon "in a few years." (Story, page 3.) APTAL GATTAR w Radio, leading scientists forecast a Soviet ow, Russians are jubilant at their space success. HOLID

> > ls believe Russia has scored its greatest propaganda admitted greater concern at the Russian achiever, State Department officials, scientists, and some

> > dent had taken the Soviet success "calmly and was it Eisenhower's Press secretary, Mr., James Hagerty,

l yesterday.

"Frida

Lindfield.

et scientific and his past year his been the most

onouncements on

progress, aimed