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3 Oct 1980

Title: IMPROVED TRANSFORMER OIL FOR SUPERHIGH-VOLTAGE POWER LINES

Primary source: Vyshka, September 13, 1980, No. 212 (15176), p. 2, cols. 4-7

Extract: A new transformer oil lengthens the service life of superhigh-voltage power transmission line equipment by five times. A process for manufacturing this oil has been developed by Azerbaydzhani scientists. With respect to properties, it substantially surpasses all oils in use for similar purposes.

Doctor of Technical Sciences R. Sh. Kuliyeu, head of an oil chemistry and technology laboratory, told an Azerinform correspondent: "Heightened demands are being made in oils that are used for filling large-capacity transformers. And in creative collaboration with our colleagues of the All-Union Scientific Research Institute of the Oil Refining Industry and industrial specialists of the Baku Oil Refinery, we have succeeded, through intensive refining, in developing an oil that meets these requirements."

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Title: "SOYUZ-38" CREW EXECUTES "SALYUT-6" APPROACH MANEUVER

Primary source: Komsomol'skaya pravda, September 20, 1980, No. 219 (16925), p. 1, cols. 6-7

Entire text: Space Flight Control Center, September 19 (TASS)--As of 1:00 p.m., Moscow time, the spaceship "Soyuz-38", which is piloted by an international crew, had completed 10 orbits around the earth.

Cosmonauts Yuriy Romanenko and Arnaldo Tamayo Mendez have carried out planned operations for monitoring the ship's onboard systems, and they have executed the first twin-pulse maneuver for the long-distance approach to the orbiting complex "Salyut-6"--"Soyuz-37".

Following the correction of the flight trajectory, the orbit parameters of the "Soyuz-38" spaceship are: maximum distance from the surface of the earth--320 kilometers; minimum distance from the surface of the earth--278 kilometers; period of revolution--90.2 minutes; inclination--51.6 degrees.

On board the scientific research complex "Salyut-6"--"Soyuz-37", Leonid Popov and Valeriy Ryumin are preparing for the upcoming docking with the "Soyuz-38" spaceship.

The flight of the manned spacecraft is proceeding in accordance with the program.

The cosmonauts--comrades Popov, Ryumin, Romanenko and Tamayo Mendez--are feeling well.

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Title: NEW HIGHER MILITARY POLITICAL SCHOOL IN TALLIN

Primary source: Sovetskaya Estoniya, September 2, 1980, No. 203 (11200), p. 1, cols. 1-4

Extract: September 1, 1980, will go down in the history of the Tallin Higher Military Political School of Construction as the first day of this new educational institution.

A ceremony was held to commemorate this event. It was opened by General-Major V. Gnezdilov, the head of the school. Words of congratulation were spoken by A. B. Upsi, secretary of the Central Committee of the Communist Party of Estonia, and by Colonel V. Lukin, deputy head of the political administration of the Baltic Military District.

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Author: Levitskiy, Yu., correspondent (Irkutsk)

Title: SOLAR VACUUM TELESCOPE AT BAYKAL OBSERVATORY

Primary source: Sovetskaya Rossiya, September 19, 1980, No. 217 (7368), p. 2, col. 8

Entire text: The shore of the lake near the village of Listvinichnyy is the site of the Baykal Astrophysical Observatory of the Siberian Institute of Earth Magnetism, the Ionosphere and Propagation of Radio Waves (SIBIZMIR) of the Siberian Branch of the USSR Academy of Sciences. A large solar vacuum telescope that will be one of the largest in the country is being erected here. The height of the support tower on which the 10-ton mirror device is mounted is 24 meters, and the length of the optical tube exceeds 40 meters. With the aid of a

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powerful twin lens, it will be possible to obtain an image of the sun 390 millimeters in diameter. The theoretical resolution power of the telescope is 0.2 of an angular second.

Adjustment of the gigantic astronomy instrument should begin late this year. Associates of SibIZMIR who are taking part in this are working hard to bring this moment closer.

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