last week of tapes purporting to reveal confidence and the moral support of his and the "pioneers" youth organisation, the "last hours" of Colonel Vladimir comrades did their work", so that a How, precisely, they are to combat the Soyuz-Apollo programme. The tapes October 1964. Before the flight of raise the whole problem of credibility Soyuz 1, said this article, he had re- is who is doing the poaching at all. and completeness of information ex-ceived "the highest rating". Certainly, Byelorussia is not rich in natural can participants.

with Premier Kosygin). According to the official Soviet releases, the flight proceeded normally until the moment of deployment of the parachutes. The Tass communique (April 25, 1967) stated: "After implementation of all the operations connected with transition to the landing regime, the ship successfully completed the most diffi-7 km, a twisting of the parachute lines. according to preliminary data, caused the ship to descend at a great speed last minute effort to save himself. which resulted in V. I. Komarov's death".

the same. The flight was perfectly nor-Communist movement (young, in this context, meaning 18-35 years).

Certainly, a number of Western that the spacecraft had been out of Komarov's craft was meant to be a that difficulties with his craft led to the russia—the close season for fishing is 2,000 roubles (£1,000). after only 18 orbits.

Komarov's health. article in Pravda of April 24, 1967,

THE publication in the United States more sensible everyday regime, self- Fisherman, down to school-children Komarov, who perished aboard Soyuz later medical board found nothing poachers is not explained—presumably 1, can hardly be considered an auspi- wrong with him, and he was able to by some attempt at patrolling the cious augury for the forthcoming make a 24-hour orbital flight in numerous lakes and rivers of the aquichange between the Soviet and Ameri- it would seem unlikely that any space resources, and has a long peasant tradiprogramme would launch a man in less tion of cautious preservation of the According to the tapes, the Soyuz than perfect health-yet some medical little that is available. Although the was out of control for some 12 hours reports which seem to have been writ- new great oil refineries at Novo-Polotsk before the disaster, with Komarov ten for limited circulation among fighting desperately to retain control Soviet experts in space medicine (taking time off, however, for a fare- seemed to imply that the proximate well to his wife and child, and a talk cause of the disaster was that Komarov

## Soviet diary

from Vera Rich

lost consciousness at a crucial moment during re-enry, implying either that the parachute system had to be deployed have to be reimposed, by official by a manual control (out of key with decree. cult and responsible braking sector in the whole tenor of the Soviet space the dense strata of the atmosphere, and programme, which places so much sea is not a new one. But attempts to fully decelerated from the initial orbi- emphasis on automation that the early date have all proved uneconomicaltal velocity. However, when the main cosmonauts were virtually no more the value of the metal recovered being parachute was opened at an altitude of than human test animals) or else that, being unconscious when disaster struck, he was unable to make some

• One of the contributions of the An article by Yuri Gagarin, who was year plan is an extensive programme gold concentration some 1,000 times present at the control centre during the of the study and conservation of the higher than expected—a value which, if whole re-entry procedure, said much flora and fauna of the republic. This included the launching of a new popumal, he maintained, until the moment lar science journal Rodnaya Pryroda could be extracted commercially. when the parachutes should have (Our native nature), research projects opened. He described the shock felt by by the various scientific institutes of trations are as yet a mystery and, not all in the control centre when this last- the republic, and a special prize for the surprisingly, the sites of these anominute disaster occurred. Gagarin's best coverage in the media of the malies have not been revealed.

A background reserves of the republic.

heart murmur, but "a good rest, a Society and the Society of Hunters and turkeys and Japanese quail.

ferous republic. What is more puzzling and Mozyr have brought in many workers from all parts of the Soviet Union, it would be too naive a solution to attribute the depredations to oilmen having a quiet day's angling. The most probable answer seems to be that of 'deculturalisation'—that state planning and state control have destroyed the old, careful traditions, and that rules of conservation which were once an integral part of local tradition now

• The idea of recovering gold from the less than the cost of extraction. Now, however, data from the recent Atlantic voyage of the research vessel Mikhail Lomonosov have reopened the question of extracting gold from seawater. Ana-Byelorussian SSR in the current five- lysis of deep-water samples indicate a confirmed for a sufficient number of sites, might well indicate that the metal

The reasons for these high concen-

- article appeared in Komsomolskaya problems of conservation. The pro- A new means of producing extra-Pravda, the newspaper of the Young gramme was clearly aimed at local strong concrete has been developed at loyalties and sentiment, with extensive Naovi (Uzbek SSR)-dropping it. This, use of the Byelorussian language (al- according to the inventor, Candidate of though current Soviet policy favours Technical Sciences A. K. Brovtsyn, commentators at the time suggested the "unifying" importance of Russian). produces "complex physico-technical According to reports in Rodnaya interactions between the grains of the control for some time before re-entry Pryroda, the programme is making ex-filler and the cement particles", giving -these commentators, however, seem- cellent progress, no less than 13 of the an increase in strength of up to 15%. A ed motivated by a preconceived idea 48 scheduled "themes" being com- pilot plant for dropping concrete comthat, since "Soyuz" means union, pleted three years ahead of schedule. ponents of up to 3 tonnes in weight on In at least one respect, however, all is to an elastic base from a height of participant in a manned link-up, but not well with conservation in Byelo- 35 cm has been developed at a cost of
- cancellation of the (presumed) second not being respected. During the spawn- An artificial method of producing launch and his "premature" re-entry ing season, persons unspecified are triplets from single-yoked eggs has been "barbarously" fishing for shallow water demonstrated by embryologist, German Another mystery is the state of fish, to the great detriment of the fish Svyatogor of Leningrad University. The method consists of surgically opening To combat this, "all possible forces" the egg, dividing the blastocyst with a which had gone to press before the are to be mobilised, ranging from the micro-scalpel, and then resealing the disaster, stated that after the flight of Fisheries Board of the Council of egg. So far, the Novosti agency reports, Vostok 4 (for which he was back-up Ministers of the Byelorussian SSR, triplets have been successfully profor Popovich), he had developed a through the Byelorussian Conservation duced, from the eggs of hens, ducks,