host country to an international con- matics and Artificial Intelligence". ference to refuse entry visas to foreign interesting variation on this problem:

The problem in this case was that of Jewish refusnik scientists, still living within the Soviet Union but dismissed from their academic posts while awaiting a visa for Israel. Although the Soviet scientific hosts of the conference netics Institute of the Georgian courage. Academy of Sciences, Dr V. V. Chavpinning on among the delegates and take part in to attend. Nevertheless, two other Khrushchev era-maize,

country to refuse to admit its own and talking with them on scientific excluded in toto.

## Soviet diary

from Vera Rich

were quite willing to admit them, the topics and also on the difficulties of life Kazakh, Georwian, Azeri, Lithuanian, KGB was totally opposed to this and as a refusnik, they were called in by Moldavian, Latvian, Kirgiz, Tadjik, considered their wish to attend as be- the KGB and warned to stay away Armenian, Turkmenian, and Estonian ing a "provocation". The international from the area of the conference build- Academies, "for service in the developorganising committee, however, made ing, unless they had had an official ment of Soviet science, economics, and strong representations that, should invitation from the conference com-culture, and in the training of highly these scientists be refused permission mittee. It was not until Saturday, Sep-qualified scientific cadres". One Reto attend, there would be forceful pro- tember 6, the penultimate working day public only is not so honoured—the tests and resulting adverse publicity of the conference, that Elizaveta Russian Federated Republic, which has Consequently, for fear of a withdrawal Bykova, the wife of Isai and herself a no academy of its own.

Lerner was able to circulate freely a promise of a visa far too late for him of

THE right of the government of the a panel session "Cybernetics, Mathe- Israelis from the USA, Judah Pearl and Meir Weinstein, were permitted to Less fortunate were the Gold'dshtein attend, so that the Soviet authorities delegates has long been a vexed one. brothers, Isai and Grigorii. Being resi- fulfilled at least the letter of the un-The Tbilisi conference on artificial in- dents of Tbilisi, they did not have the official working agreement on intertelligence (September 2-8) produced an initial difficulties of travel permits and national conferences—that although hotel registrations; nevertheless, after individual delegates may be refused the right of the government of the host meeting with newly arrived delegates entry, no national delegation will be

- The Presidium of the Supreme Soviet of the USSR has announced that "The Order of Friendship of Nations" has been awarded, individually, to each of the Academies of Science of the Union Republics of the USSR, namely, to the Byelorussian, Uzbek, Ukrainian,
- by the USA and other Western dele- physicist, managed to convey this mes- Reconstruction work has began at gations, and as a result of last minute sage to the committee. After a long the highest botanical garden in the meetings in Moscow, the authorities and forceful meeting between the con-world, at Khorog in Tadjikstan. The decided to permit Dr Aleksandr Lerner ference committee and the Georgian garden, at a site in the High Pamirs to travel from Moscow to attend the hosts, a compromise was reached by some 2000 m above sea-level ("above conference. He was escorted to Tbilisis which Dr Chavchanidze undertook to the clouds") is extensively used for by the same KGB officer who had for- invite them for the remainder of the field work on the introduction and mally told him he could not go and conference on his own personal initia- acclimatisation of plants in extremal welcomed by the head of the Cyber- tive-a singular example of moral conditions. The plants, received on â basis of a regular exchange of seed This reluctance to admit the refus- with 30 Soviet and 36 foreign botanical chanidze, who had himself photo- niks seems to be related to the attitude gardens, therefore include not only Lerner's to Isaeli scientists. No scientists resi- and the Hindu Kush, but also more conference badge. Although subjected dent in Israel were allowed to attend, high-altitude flora from the Himalayas to a certain amount of official sur- and one Israeli, Dr Y. Yakimovsky, at plebeian species, including several veillance throughout the conference, present working in the USA, received strains of potatoes, and that mainstay agricultural

THERE are indications that the new head of the Soviet space establishment, Academician Roald Sagdeyev, has wider interests in space cooperation than costly "spectaculars". Space scientists of the West first made his acquaintance at this summer's COSPAR Symposium in Bulgaria (COSPAR is shorthand for the ICSU Committee for Space Research, the principal international scientific—as opposed to technological - meeting ground). The impression he made was fresh and favourable: he is youngish, full of ideas, and expresses them in excellent English. This is not quite the image projected by his long-surviving predecessor, Academician Blagdonravov-a loveable octogenarian if ever there was one-who died earlier this

Sagdeyev's actual post as head of the USSR Institute of Space Research in Moscow puts him in a key position to monitor international developments at

## Plans for space

from Angela Croome

least in the physical sciences. Soviet development of ideas for experiments must surely have seemed to stagnate since the 1950s; sputniks were becoming not only relatively smaller but stupider. At the COSPAR meeting, Sagdeyev was not only responsive to the idea of international cooperation in certain fields but showed particular interest in getting involved in X-ray astronomy projects.

On the organisational front, the initiative seems to have passed from the USA (at least temporarily). The formation of the European Space Agency (ESA) as a matching body to NASA has thrown into prominence the lack of a learned body in Europe, comparable with the Space Sciences Board of the US National Academy of Sciences, to give informed but independent opinions on the long term objectives of space research. A European Space Sciences Board has now been formed under the formal auspices of the European Science Foundation with Sir Harrie Massey as chairman.

It acts as a clearing house for research ideas in conjunction with the US Academy of Sciences' Board and looks ahead to acting as a joint negotiating body for the West for broad cooperative programmes with the Soviet Union on a range of topics better pursued on a synoptic or systematic basis than from discrete and occasional national spacecraft. The idea of an international space observatory seems particularly to recommend itself to Sagdeyev and his institute colleagues at present. The European Space Sciences Board holds its next meeting-the third-in London in the middle of September, and expects to clarify some of these possibilities.