Seminar contacts under pressure

from Vera Rich, London

THE increasing pressure on the remaining members of the Voronel Sunday seminars now seems to be spreading to their contacts throughout the Soviet Union. In Tbilisi, pressure is being exerted on the Goldshtein brothers. Isai (35) and Grigorii (42), both cyberneticists and both "refusniks" since 1971, when their applications to emigrate to Israel were rejected on the grounds of "security".

After they were refused their visas. the brothers were both dismissed from their posts at the Institute of Cybernetics of the Georgian Academy of Sciences. It is reported that the director of the institute admitted in a private conversation after their dismissal that neither brother had ever been connected with secret work but that he, the director, was "afraid".

The Goldshtein brothers have maintained close contacts with the members of the Moscow seminar, especially with Aleksandr Lunts and Viktor Brailovskii, who, since Voronel's departure for Israel, have been the leading organisers. The Goldshteins had planned to visit Lunts and Brailovskii at Passover, but were prevented from doing so by the authorities. After this attempt, they were taken to their local KGB offices, questioned about their activities and warned that their files would be handed over on April 7 to the State Prosecutor in preparation for a trial. It was also intimated that the



The Goldshteins: Isai (left), Elizaveta Bykova and Grigorii

charges against them would be linked with four other trials now being prepared in the USSR. Since Lunts and Brailovskii have already been threatened with legal proceedings, it is feared that they will be involved in these other trials.

The charge against the Goldshtein brothers falls within the category of an unpublished edict of the Presidium of the Supreme Soviet of 1972. It is alleged that since they were refused permission to go to Israel, they have been slandering the USSR, and that their activities threaten the security of the USSR-a charge which carries a maximum sentence of seven years in a strict regime labour camp.

So far, no charge has been preferred

against Elizaveta Bykova Goldshtein, the wife of Isai and, like him, a physicist. Since, however, she is the author of a survey of the problems and backgrounds of refusniks and the means used to intimidate them, which has recently reached the West through samizdat channels, it seems not unlikely that she too could share the fate of her husband and brother-in-law.

In the week that physicist Evgenii Levich, who was associated with the Voronel seminar, was finally allowed to emigrate to Israel together with his brother, Aleksandr (an engineer), it seems ironic that two other brothers, also associated with the seminar group, should attract the renewed attentions of the KGB.

economic and social adjustments on a handy review a wealth of scattered inworldwide scale . . . it is not primarily formation; but the Panel on Climatic internationally collaborative basis and the advance of a major ice sheet over Variation which has produced the regional climatic studies of anomalies our farms and cities that we must fear report makes some far-reaching recom- of special interest carried out. . . . rather, it is persistent changes of mendations about the nature of future the temperature and rainfall in areas research: committed to agricultural use, changes in the frost content of Canadian and Siberian soils, and changes of ocean temperature in areas of high nutrient production . . . Our vulnerability to climatic change is seen to be all the more serious when we recognise that our present climate is in fact highly abnormal".

These sentiments will already be familiar to readers of Nature; now they come with the official blessing of the lengthy appendix surveying past be

- Research Program to include
- A Climatic Data Analysis Program with the development of new climatic data-analysis facilities and
- A Climatic Index Monitoring Pro-
- on climatic variation.

US National Academy of Sciences in as best taking place within an inter- whether a really effective programme a report, "Understanding Climatic national framework, and suggests that will take place. That is in the hands of Change—A program for action" pre- the period prior to 1980 "be used to the politicians; but politicians outside pared as part of the US contribution to develop additional scientific and tech- the USA should also take note of this the Global Atmospheric Research Pro- nical manpower through the establish- NAS report. They may decline to take gram (GARP). There is little in the ment and support of fellowships in appropriate action, but they cannot say report that will be new to the serious appropriate areas of climatic research", any longer that they do not have the student of climatic change, although a and that the period 1980-2000 should necessary information on which to base designated the

"A major climatic change would force climates does pull together in one Climatic Decades" during which data should be gathered extensively on an

Apart from the rather leisurely timescale mapped out (in view of the present The immediate adoption and develop- world food situation and the changes ment of a coherent National Climatic in climate that have occurred in the past 25 years) the report is likely to be welcomed by all of those climatologists whose lonely warnings about the importance of climatic change are now provided with the seal of scientific gram to acquire the needed data with respectability. The cost of the massive A Climatic Modelling and Applica- effort needed (massive by scientific tions Program to accelerate research standards, but small compared with, say, the development of a nuclear The Panel sees these American efforts missile system) must make it doubtful "International a course of action. John Gribbin