UNDETERRED by the Arab boycott, an flight routine and enables them to con- either encased in copper or had copper American firm with a stake in local centrate on target pinpointing and adhering to it. science-based industry this week an- other tasks while flying at more than • The severity of eye injuries during nounced that it will be increasing its twice the speed of sound. It incor- the war has led some of the country's activities in Israel. The firm, Miles porates a reliable and fast-working leading ophthamological experts to re-Laboratories of Elkhart, Indiana, plans detection system, including dual cir- commend that all members of armourto invest an additional £8 million in its cuits, which ensure smooth functioning ed and motorised units wear a special Israeli subsidiaries, which produce even if part of the device should fail. plastic shield. Such a shield, already everything from the company's famous Now being produced for the Israel Air used by Israel Air Force pilots, is made Alka-Seltzer to a broad range of sophi- Force, the Autocommander may be- of a plastic compound ten times more sticated chemicals for research come a major export item. laboratories.

are closely linked with local institutions medical problems, such as that con- • This shield will, of course, be of no of higher learning. Miles-Yeda, located next to the Weizmann Institute in the Hebrew University and Mr Ezra their sight in combat, but attention is Rehovot, makes research chemicals Locwinger of the Hadassah-Hebrew also being paid to their problems. based on Institute know-how. These University Medical Centre on the Chemist Avraham Schwartz of the include lectins, spingolipids, affinity detection and identification of metal Defence Ministry's Weapons Developchromotography material, peptides, O17 and O<sup>18</sup> stable isotopic compounds and a considerable number of immunochemicals. At Ames-Yissum in Jerusalem, where Hebrew University research is utilised, diagnostic kits for testing the thyroid level in blood are the main product. Export sales of these science-based firms last year hit £1.2 million.

not attracted to the country by sentiment but by the chance of making a profit. The Israeli Government realises this and does its part to encourage science-based industries by giving them of irritation, can be left in the eye as • The recently suspended talks beloans and grants, as well as by fostering they do not cause biochemical damage. tween Israel and Egypt prompted the establishment of special science- Copper splinters, however, present a several dozen scientists to recall an offbased industrial parks near universities special problem. Sometimes the frag- the-record discussion they had had and research centres.

The conditions offered are apparently so attractive that many enterprises which could hardly be called sciencebased try to push their way into these parks. In order to ensure that the parks serve the purpose for which they were established, the Ministry of Commerce and Industry announced this week that require some means of keeping a con- when Kissinger was campaigning only enterprises which have ties with stant watch on the copper level. nearby academic centres would be allowed into them. Those firms already in the parks will only be allowed to expand if they carry on a substantial R & D programme of their own.

publicised; others are still under wraps.

Publicity often comes when the firms concerned seek to enter the export detecting test was tried out on them. such a promise would be kept?" market. This is probably the reason why Israel Aircraft Industries, which crew members, copper was found. It moments, the Harvard scholar analready has multimillion pound over- came not from the tank itself (which swered: "No, you couldn't be sure. seas sales of rockets and planes to its is made of steel), but from the copper American policy is made on an emcredit, last week unveiled the Auto- sheath near the head of the Russian pirical, day-to-day basis. It would commander, a supersonic automatic anti-tank missiles hurled at the tanks. pilot.

• The military situation has also given particles. It is also light, translucent Two of the Miles' ventures in Israel impetus to research on war-related and does not cloud with water vapour. ducted by Professor Arve Weinrab of benefit to men who have already lost

## Letter from Israel

from Nechemia Meyers

splinters which enter deep into the eyeball as a result of accidents or battle teleprinters, instead of pressing out the injuries. Exact information about such usual Braille reliefs. These tapes are splinters is important for surgeons, who mounted on paper, and plastic is must decide whether a delicate and dif-Miles, a "non-Jewish" company, was ficult operation on the vitreous body of holes. The raised dots that result can the eve must be performed.

be removed by an electromagnet. Chips of many other metals, though a source material. ment of copper becomes encapsulated some ten years ago with Henry Kisin the vitreous body of the eye and is singer, then visiting Israel as a private rendered at least temporarily harmless. On other occasions, the fragment of relevance to the question of how much copper dissolves, releasing copper ions trust can be placed in US guarantees which, if they reach a certain level, of an eventual settlement, should one can cause metal poisoning and an even- be reached. tual loss of sight. The doctors therefore

Weinrab and Loewinger developed a system to detect the presence of metal ions in the eye by means of X-ray fluorescence. The radiation is measured by a solid state detector which trans-As elsewhere, orders from the mili- lates the X-ray energy into electric ward a question present in everyone's tary have played a key role in the pulses of varying intensity according to mind. "If," the scientist said, "we were development of science-based industry, the metal present. Before the Yom to accept your advice and forego the notably in the electronics field. Some Kippur War they were doing experi- development of atomic arms in return achievements in electronics have been ments on rabbits; when the war broke for an American promise to assist us out and soldiers with eye injuries began should we be under threat of attack by pouring into Israeli hospitals, the metal a nuclear power, could we be sure that

In many of the cases involving tank The copper melted at the high tem-Fully automated, the Autocom- perature of detonation, so almost every One wonders what kind of an answer mander relieves pilots of mechanical steel splinter in a tankman's eye was Kissinger would give today.

resistant than glass to high velocity ment Authority, using spinoff from research on plastic materials, has developed a process for printing books for the blind cheaply, quickly and in multiple copies. In the new process, typewriters punch tapes similar to those of poured over them, penetrating the be printed on both sides of the sheet If the metal in the eye is steel, it may of paper, which itself serves as a relief plate for reproduction of the "printed"

citizen. It was a discussion with special

The conversation occurred at a time against the proliferation of nuclear weapons, and so he naturally urged the scientists present to oppose the development of such weapons by Israel. When Kissinger's presentation was completed, one of the Israelis put for-

After pondering the query for a few depend on the circumstances of the situation when the crisis developed."