

cials and to local media. Eventually the Health Department took Galaxy to court, and in September 1970 the plant was ordered closed until pollution control devices were installed. Cecil County Circuit Court Judge H. Kenneth Mackey also ordered the company to refrain from using a wastewater lagoon for disposal of wastes left over at the end of a distillation.

Initially, Mraz refused to install the pollution devices and threatened to move the plant to another state—a response that might have been his best bet. The move did not materialize, however, and Mraz then began installing some of the equipment. Early in 1971, Judge Mackey allowed the plant to be open on a part-time basis to test the new pollution-abatement devices. Mraz's finances were very shaky because of the closure,

and at one point a sheriff's sale was scheduled to auction off the plant's assets for repayment of more than \$100,000 in outstanding company debts. Ultimately, Mraz obtained financing, the rest of the pollution equipment was installed, and the plant reopened on a full-time basis.

Apparently the pollution-abatement equipment was not sufficiently effective, for valley residents continued to complain about the odors and their physical symptoms. Galaxy was shut down briefly again later in 1971 when Judge Mackey concluded that clean-up procedures hadn't been proceeding fast enough, but it reopened and the Circuit Court subsequently seemed satisfied with the company's efforts. Valley residents were not, however, and in 1972 Capurro, his wife, and eight other valley residents

sued Galaxy, alleging that fumes from the company had made them ill. The ten complainants shared an award of \$34,932.

Meanwhile, Capurro was collecting data about the health of valley residents and maintaining a running dialogue with the media. He documented, for example, more than 40 cases of pancreatitis, an acute inflammation of the pancreas that frequently results from exposure to toxic chemicals, among the residents of the valley. He also cataloged a variety of other ailments.

Most crucial, Capurro observed eight cases of cancer among 120 individuals who had lived in the valley for 6 years or longer. He seemed to tie these cases directly to Galaxy when he wrote, in an unpublished paper distributed to reporters: "In a community where the residents

## Briefing

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### Congress Eases Capitation Punishment

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Congress seems to have settled the year-long wrangle over a provision requiring U.S. medical schools to accept transfers of some American students studying in foreign medical schools as a condition of receiving a form of federal aid known as capitation grants. Medical schools had opposed the measure, arguing that it interfered with their right to apply their own selection criteria; the issue had set the House and Senate at odds. A compromise reached just before Congress adjourned for the holidays effectively reduced the number of students the schools will be obliged to take and cut the life of the measure to a single year from the 3-year term in the original bill.

The major residual effect of the tussle may well be the bringing of the whole mechanism of capitation grants under closer and perhaps unfriendly scrutiny. Representative Paul G. Rogers (D-Fla.), chairman of the House subcommittee with jurisdiction over most legislation affecting medical schools and sponsor of the measure benefiting Americans studying medicine abroad, has asked the General Accounting Office to study the usefulness of the grants. Decisions by some 15 U.S. medical schools to forego the grants if it meant accepting students who did not meet the school's admission requirements reportedly led Rogers to

question whether the schools really needed the capitation funds (currently about \$1050 per student). Rogers was not alone in wanting a review of the grant program. The House-Senate conference report on the amendment includes an agreement to carry out such a review this spring.

Medical schools have consistently argued in recent years that they are hard-pressed financially and need increased federal funding. The discussion has been tinged with tensions because the schools have sought support with a minimum of strings attached while Congress has tended to offer funding on condition that the schools take actions it favors, such as increasing enrollments or creating programs for primary care specialties.

It is not yet clear how many of the schools which renounced the capitation grants will go along with the compromise, the main feature of which is a requirement that a medical school expand its third-year enrollment by 5 percent to accommodate the transfers from abroad. A final decision can be deferred until a February deadline, and several schools are known to be waiting to see the final form of the regulations issued by the Department of Health, Education, and Welfare.

On Capitol Hill scant enthusiasm is detectable for carrying the measure beyond this year. The compromise is regarded as discharging the commitment to the group of students now in the pipeline made in the original amendment to the manpower bill. But second thoughts about the necessity and fairness of the

measure appear to have contributed to a general desire to end the episode. The amendment was tacked onto the bill in special circumstances (*Science*, 12 November 1976). It didn't seem to be a bad idea at the time. Now, it appears to affirm the wisdom of holding the debate before you legislate.

### Laetrile Tops FDA's Most Unwanted List

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Laetrile is the target of the Food and Drug Administration's own media blitz. The centerfold of the November-December issue of the FDA's *Drug Bulletin* is a poster warning that Laetrile is toxic. The FDA is already on record as strongly rejecting claims that the substance is beneficial in cancer therapy.

The *Bulletin* is sent to a million physicians, dentists, nurses, and other health professionals and is said to have the largest circulation of any health publication in the world. The poster was prepared in the hope that the professionals will take note and display it where the public will see it. About 10,000 copies of a blow-up version of the poster are being sent to post offices.

Distribution of the poster is unusual though not unprecedented for the FDA. In the 1950's a similar poster was employed to warn against a quack cancer cure then in vogue—the so-called Hox-

were chronically exposed to a mixture of solvent vapors in the atmosphere, the annual death rate due to malignancies appears to be about seven times the rate otherwise expected. The total death rate in the community is thereby doubled." Three of the malignancies were lymphomas, a relatively rare form of cancer not expected to occur with that great a frequency. It was notable, Capurro wrote, that the "people who died of lymphoma had all lived within about a kilometer of the plant, two being within perhaps 100 meters."

This paper and others prepared by Capurro received national attention in the press and led to a 2-year study of the health of valley residents by the Maryland State Health Department. That study, released last November just before the start of the trial, confirmed Ca-

purro's estimate that the overall death rate in the valley was about 2.2 times the national average. It also found that the occurrence of lymphomas in all of Cecil County was about twice the national average. The study stopped short, however, of attributing these effects to any specific cause.

Another effect of the media attention, Mraz says, was that Galaxy began to receive bomb threats, abusive letters, and irate phone calls, and many of his best customers became reluctant to do business with him. From a peak of \$438,000 in 1974, Galaxy's revenues plummeted to \$22,000 in 1976, the year the firm's creditors foreclosed. Mraz formed a small new company, Solvent Distillers Inc., and leased back the facilities, and began to operate on a small scale again. But the damage had clearly been done,

and Mraz decided to sue Capurro for \$2.1 million.

The jury trial focused not on the odors that emanated from the plant but on Mraz's belief that Capurro had associated the excess cancer deaths in the valley with emissions from Galaxy. "I can't think of any greater calumny," said Galaxy's lawyer, George W. Constable, "than saying that somebody's killing people." Capurro "showed an obsessive desire to get Galaxy," Constable said, and in doing so, "he ignored facts which contradicted his theory." This narrow focus of the trial largely ignored the serious problems associated with the breathing of chemical fumes and directed attention to a complex scientific problem on which there is not even agreement among experts in the field.

Galaxy's star witness was environ-

## Briefing

sey cancer cure. And in 1970 the hazards of an electrical apparatus called the Relaxacisor, which sometimes accidentally imparted a strong electrical shock to users, were the subject of a poster. The Laetrile poster notes that "Laetrile can be

# LAETRILE WARNING

### LAETRILE IS WORTHLESS

Cancer patients and their families are warned that  
 Warning used as a drug (malignant) or as a vitamin (B-17)  
 Laetrile is worthless in the treatment of cancer and  
 can be a cause of death in the pediatric or infantile case.

### LAETRILE IS DANGEROUS

Laetrile can be fatal for cancer patients who delay or give up  
 regular medical treatment and take Laetrile instead.  
 Laetrile contains cyanide and can cause poisoning and death  
 when taken by mouth. One adult is known dead of cyanide  
 poisoning after swallowing 100 mg of Laetrile tablets. At  
 least 10 other deaths have been reported from ingestion of  
 Laetrile ingredients taken out and crushed (fruit pits).  
 Laetrile is especially hazardous if the tablets form a slurry by  
 mouth. This can result in death.

### LAETRILE MAY BE CONTAMINATED

Laetrile is not regulated by the FDA inspection for quality and  
 purity in the United States.  
 Any use has shown serious Laetrile contains heavy metal  
 contaminants. Any use of Laetrile for injection has been associated with  
 other serious complications in the drug industry.

Those who present themselves to Laetrile or its ingredients should  
 be inspected for their general health and cyanide poisoning.  
 If the oral product is used, vigorous medical treatment must be  
 started immediately or death can result.

Adopt the early symptoms of chronic cyanide poisoning, in  
 cluding weakness, in the arms and legs, and disorders of the  
 nervous system.

\* Keep the mouth out of reach of children.

### GET THE FACTS

For full details about the hazards of Laetrile, see your family  
 physician or a cancer specialist, or write the Food and Drug Ad-  
 ministration, Laetrile, 481 GPO, 1969, Silver Spring, Maryland 20907.

*Donald Kennedy*  
 Donald Kennedy  
 Commissioner of Food and Drugs

fatal for cancer patients who delay or give up regular medical treatment and take Laetrile instead." The toxicity warnings in the *Bulletin* and on the poster say that Laetrile, which is made of apricot pits, contains cyanide and "can cause poisoning and death when taken by mouth." The text adds that Laetrile is not subject to FDA inspections for purity and quality and that toxic contaminants have been found in some samples.

## Academy Would Send Observer to Dissident's Trial

The Soviet government will apparently go ahead with the trial on treason charges of a dissident computer scientist on whose behalf the National Academy of Sciences recently sought to intervene. The Academy announced on Christmas day that NAS president Philip Handler had cabled Soviet President Leonid Brezhnev for permission to send a legal observer to the expected trial of Anatoly B. Shcharansky, who has been accused in the Soviet press of involvement with the U.S. Central Intelligence Agency. The Academy request is the first such action taken in its public and private presentations in behalf of Soviet dissident scientists.

Shcharansky, who is Jewish, worked in a research institute of the Soviet petroleum ministry until 1975 when he was dismissed after repeated applications to emigrate to Israel had been rejected. He has been active both in efforts by "refuseniks" to win greater official receptivity toward requests to emigrate and also in the broader human rights movement in Russia. Shcharansky speaks English and has served as a spokesman for Western reporters.

Shcharansky was arrested in March and reportedly has been held incommunicado since then. Under Soviet law, 9 months is the limit for detention

without trial and in mid-December that period expired and was extended for 6 months by special decree. There was speculation that the Soviets wished to avoid action which would exacerbate American feelings at a time when the human rights provisions of the Helsinki accord are under discussion.

President Carter at a recent news conference, commenting on charges in the Soviet press that Shcharansky had worked for the CIA, said that he found no link between the scientist and the U.S. intelligence agency. Soviet press accounts said Shcharansky was being investigated on charges which carry a possible death sentence. A recent article in the Soviet press said that Western protests amounted to blackmail and indicated that Shcharansky would be put on trial.

The Academy request for permission to send a legal observer was based on a statement on the Shcharansky case prepared by the Academy's committee on human rights. The statement also asks that Shcharansky be allowed contact with relatives, friends, and legal counsel of his own choosing and that all legal proceedings be open to the public. Handler's cable repeats the statement's comment that "The widespread reaction to Dr. Shcharansky's detention reflects the grave concern of his colleagues in the United States and elsewhere for his welfare and their fear that further actions against him will severely damage scientific interactions with the USSR." The Academy so far has received no reply from the Kremlin.

John Walsh