



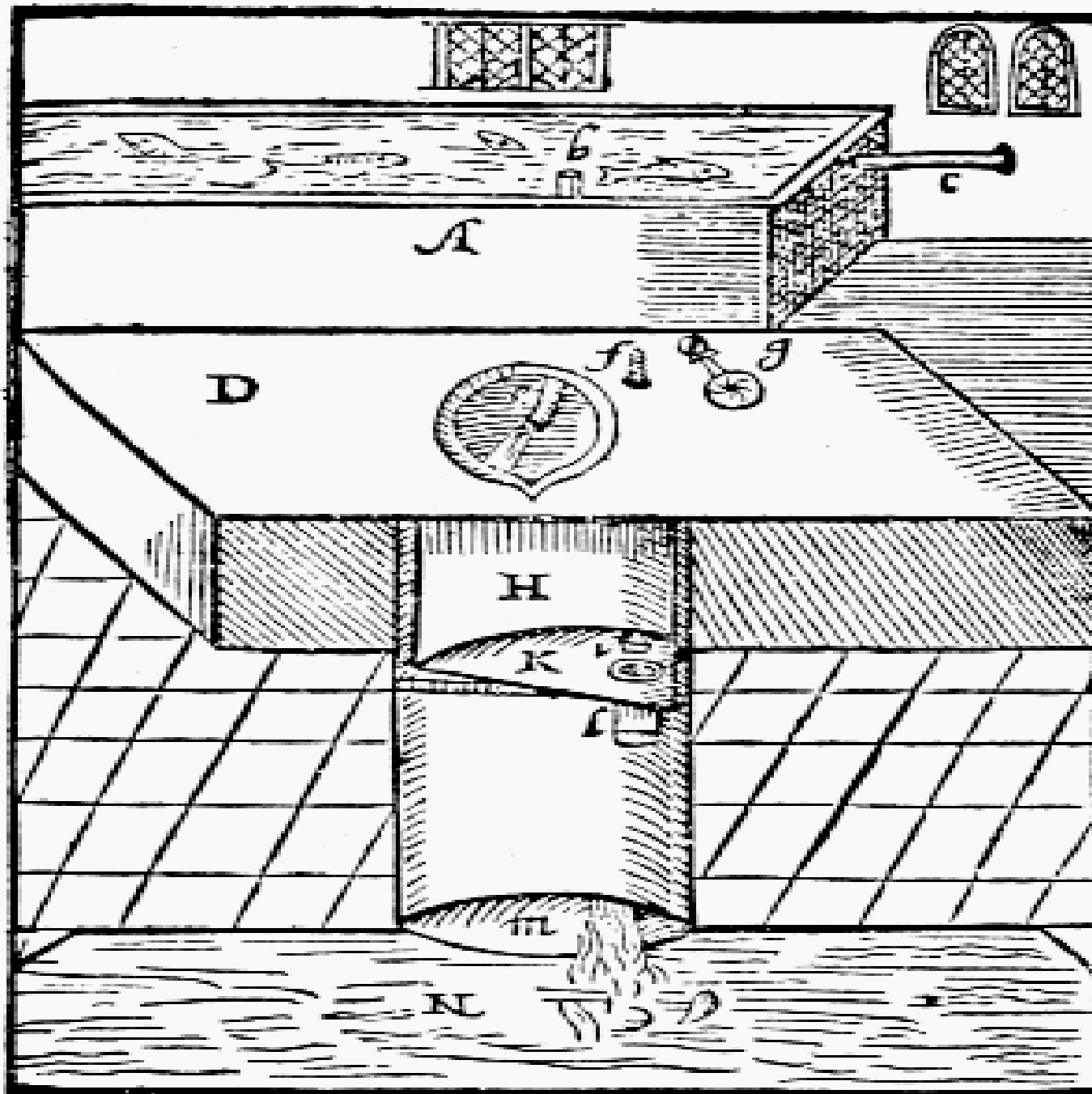


Engraved by J. G. S. & Co. London

THE APPEARANCE AFTER DEATH OF A VICTIM TO THE INDIAN CHOLERA

WHO DIED AT SENSERIND



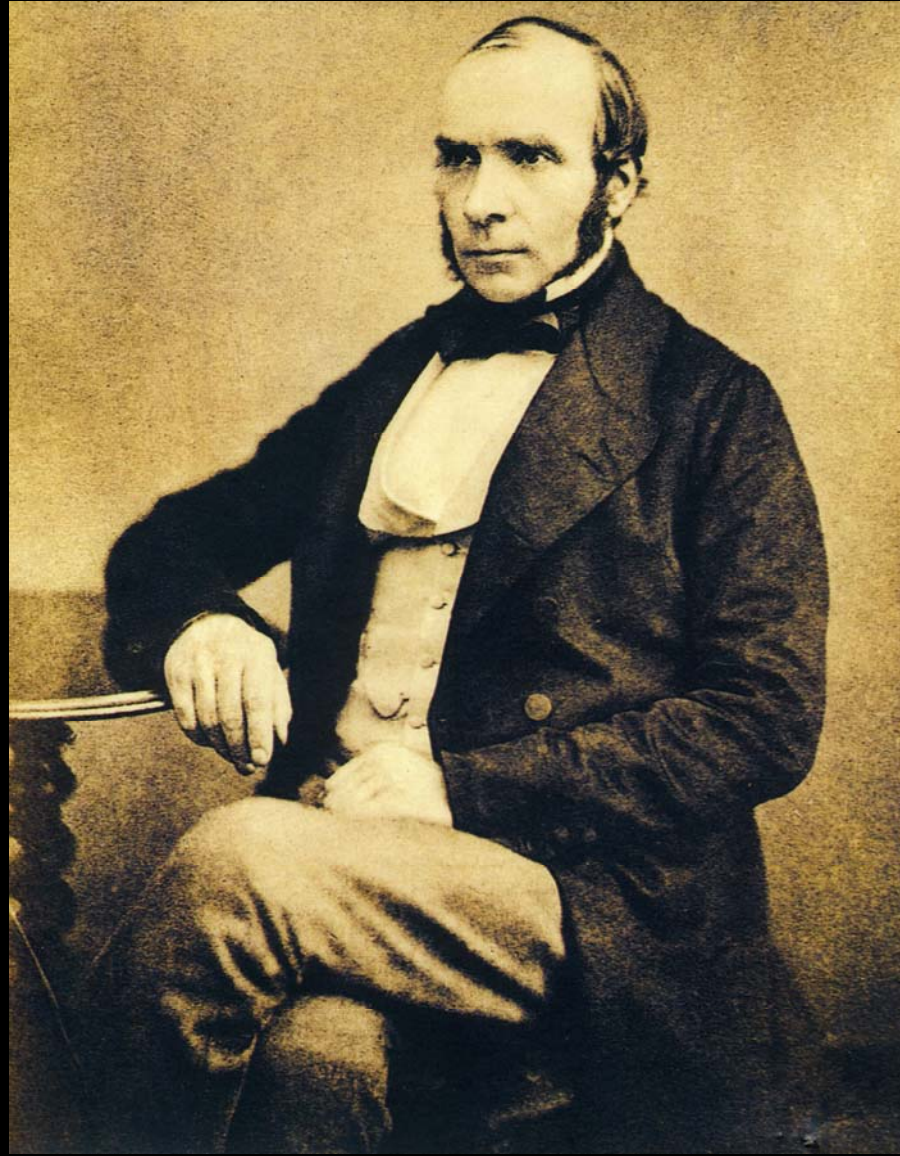


The Grand Rationalization

- ◆ “The chief objection [to flushing human excreta from houses into common sewers] is the pollution of the water of the river into which the sewers are discharged. Admitting the expediency of avoiding the pollution, it is nevertheless proved to be of *almost inappreciable magnitude* in comparison with the ill health occasioned by the constant retention of pollution in the most densely people districts.”
Edwin Chadwick, 1842

By 1846, a WC was required in all new construction and remaining cesspools were required to have overflow connections to the sewers.













Devilish think!
Yes, here I stick!
It makes me Sick!

What torrents of filth come from
that Walbrook sewer!!

Sewer! why there are 130 such!

Oh! never mind, any fastness goes down
here in the Borough

Give us Clean water!

Give us pure water!

We shall all have the Cholera

Give us Clean water!
Give us Clean water!

What do they drink that!

Prodigious!

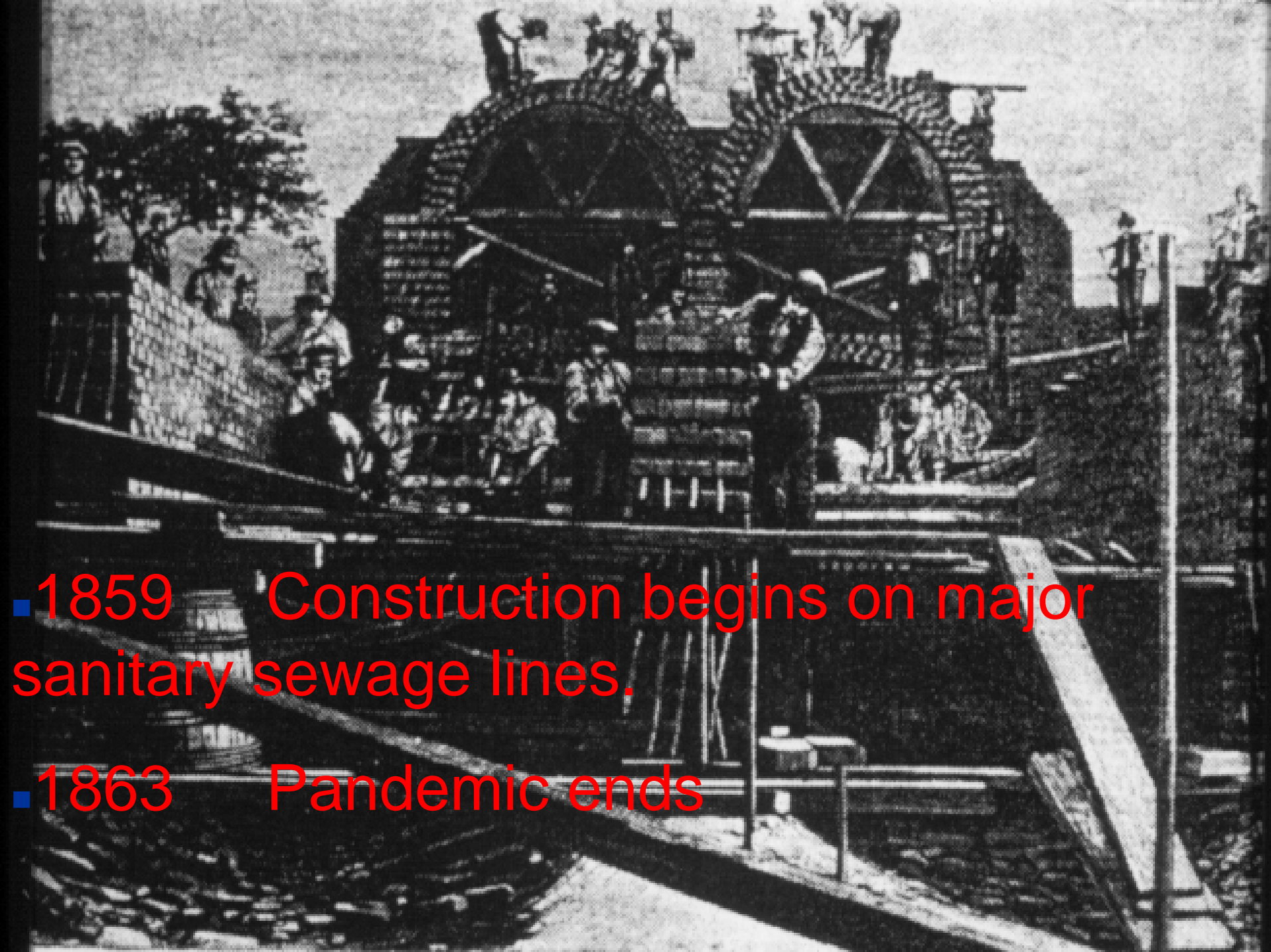
"Tell it not in Gath"

SOURCE
OF THE
SOUTHWARK
WATER WORKS

George Street
Alley

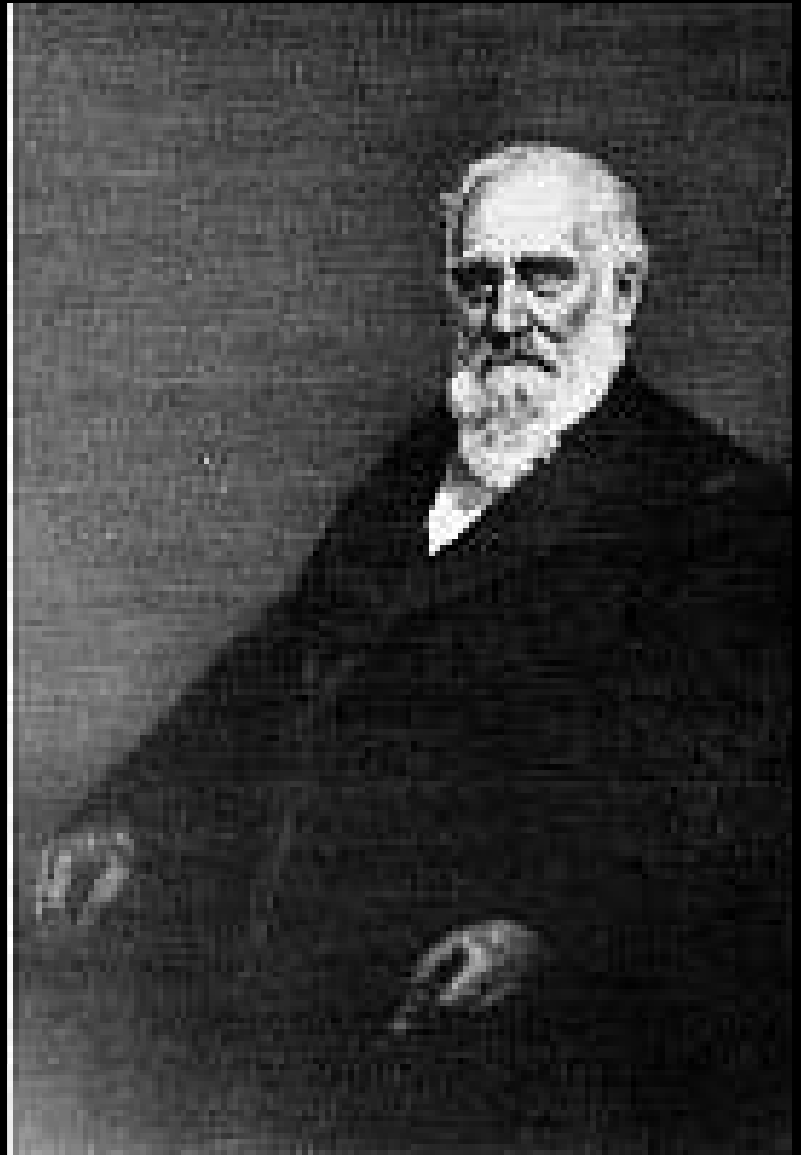
1858 Year of the Great Stink



- 
- 1859 Construction begins on major sanitary sewage lines.
 - 1863 Pandemic ends



QuickTime™ and a
TIFF (uncompressed) decompressor
are needed to see this picture.



So successful has been this experiment, it is said, that any municipal water plant, no matter how large, can be made as pure as mountain spring water. Officials say

New York
Times
12/8/08
(Back Page)

NEW WATER PURIFIER:

Chlorine Used In a Reservoir That Supplies Jersey City.

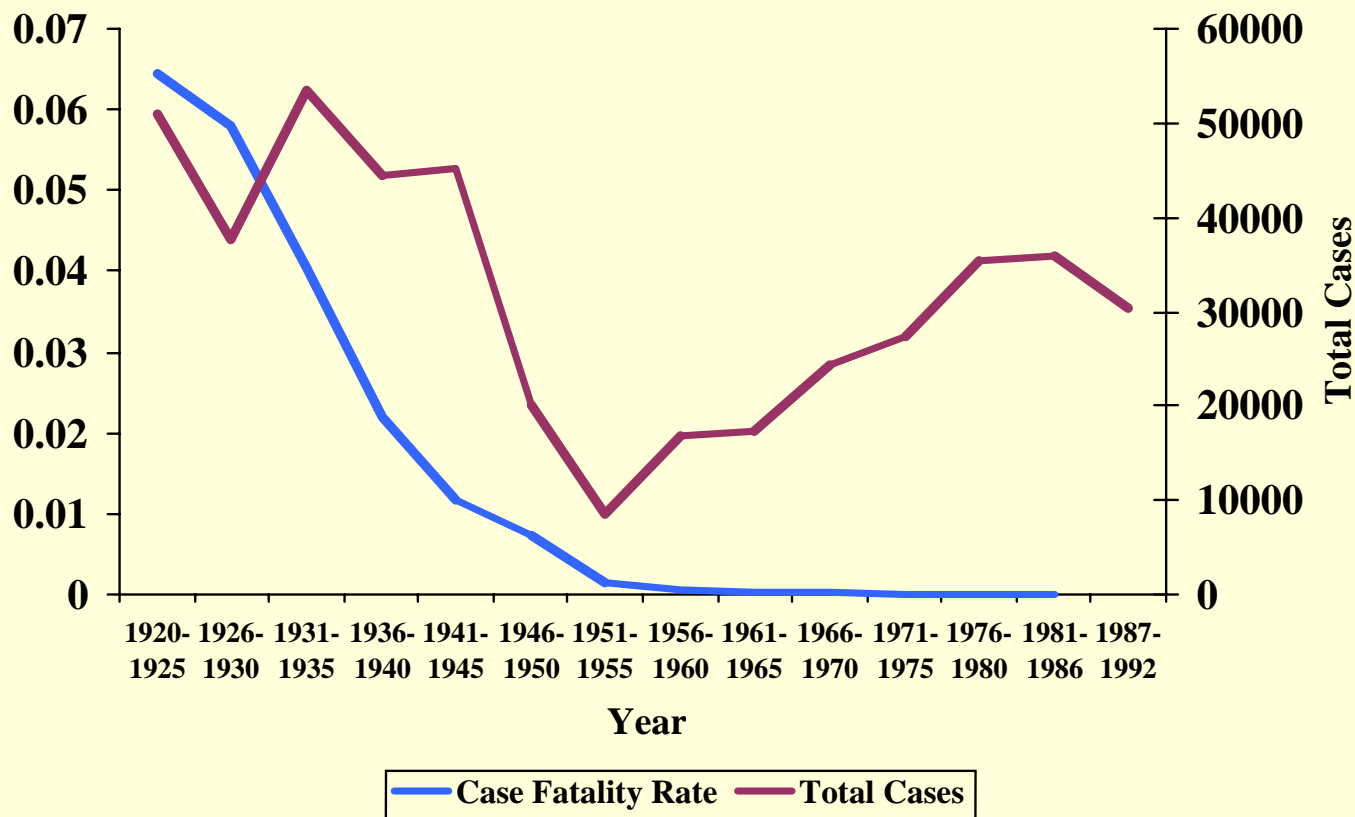
The suit of Jersey City against the Jersey City Water Supply Company, a subsidiary concern of the East Jersey Water Company, to compel the company to live up to its contract to supply the city with pure water will be reached in the New Jersey Court of Chancery, probably in Newark, in a short time.

Jersey City contends that pure water cannot be obtained from the reservoir near Boonton, where the supply now comes from. In its defense the company will assert that even though the water may be polluted in the reservoir it is pure when it leaves it. The company bases this defense on experiments it has made with chlorine, a poisonous gas heretofore used as a disinfectant, but never, according to the water company officials, used to purify water.

So successful has been this experiment, it is said, that any municipal water plant,

The chlorine, it is said, destroys all animal and microbe life in a great body of water, leaving no trace of itself afterward. It is placed in a tank in the reservoir and infused into the water through a spray.

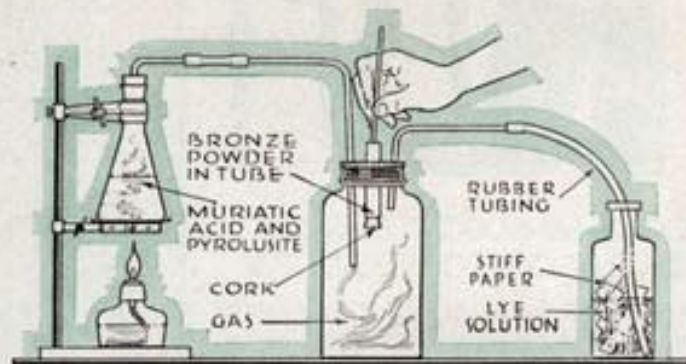
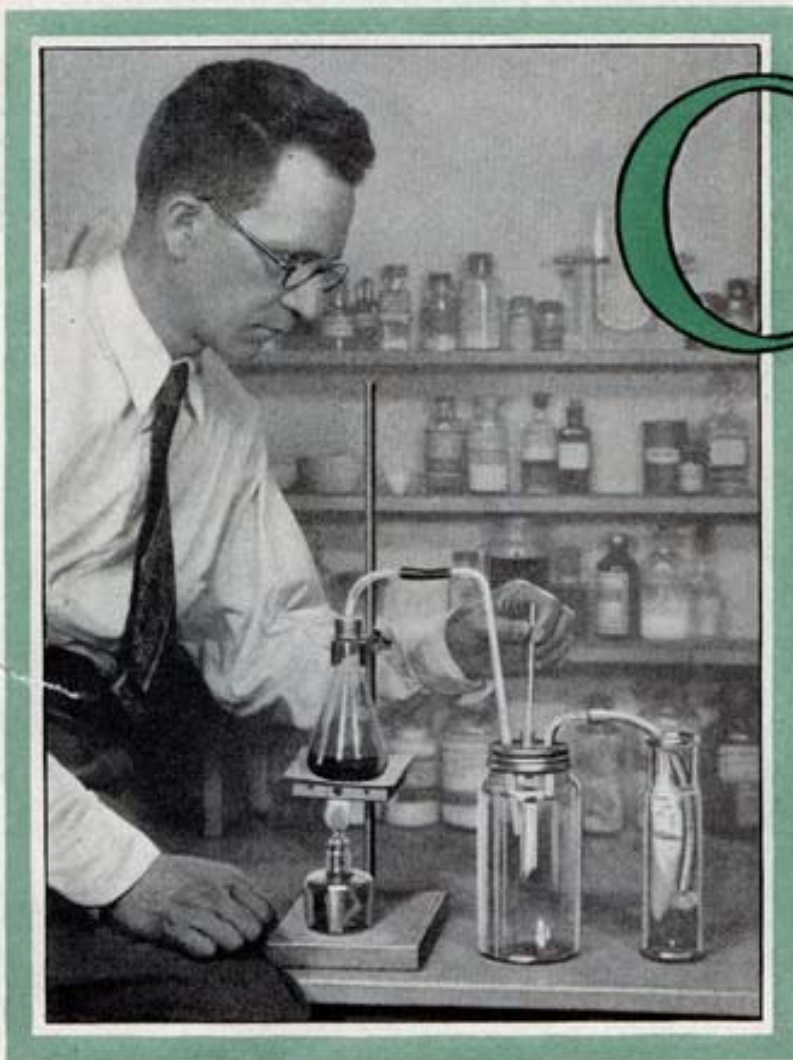
Reported Cases of Waterborne Infectious Disease in the United States: 1920 - 1992



HOME TESTS *show*

Strange Nature of

Chlorine



HOW TO MAKE METAL FLAME

With your apparatus set up as shown at left, and in the illustration above, place gold bronzing powder in the corked tube in the center. When the gas in center jar becomes green, force the cork out of the tube so powder drops into jar. As powder strikes the chlorine, it will flash

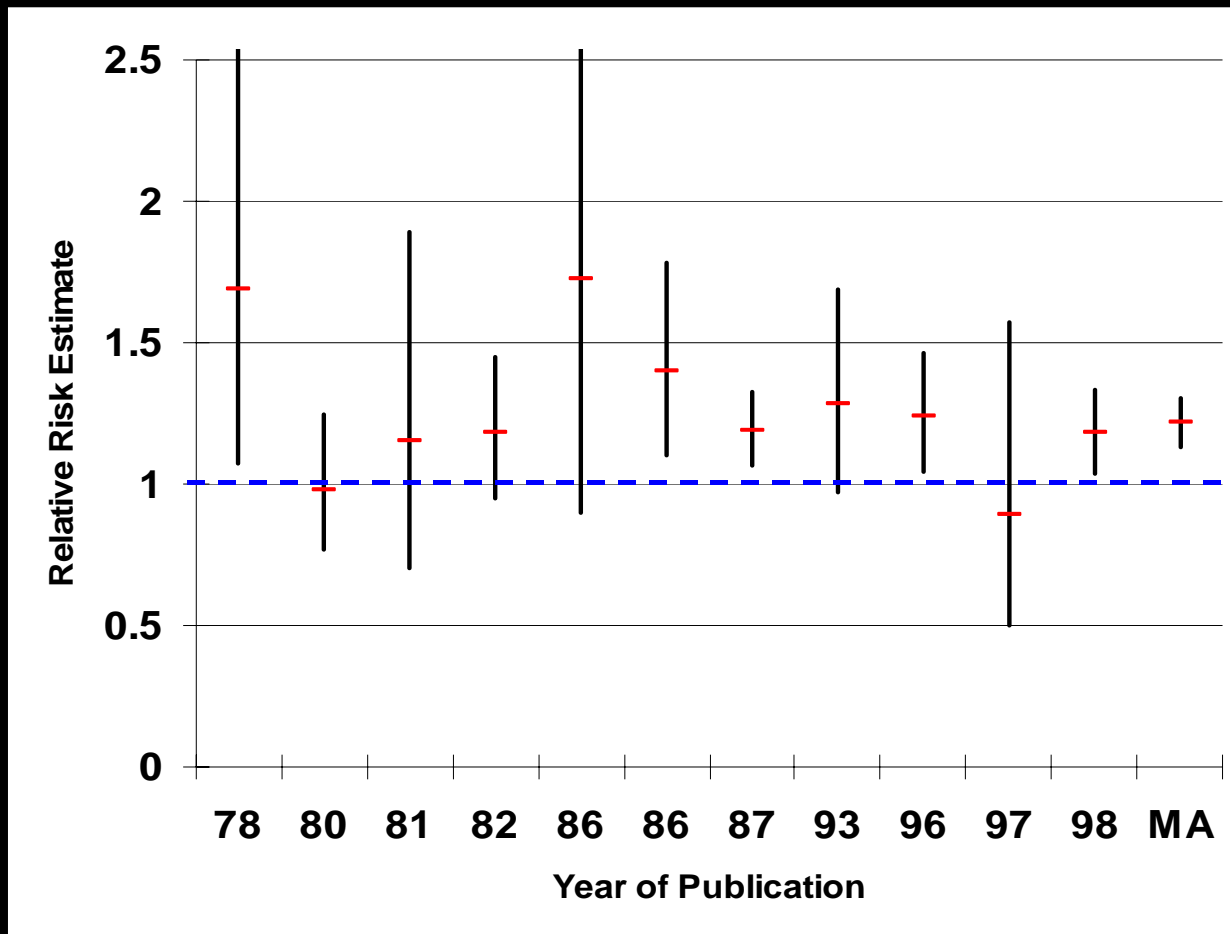
portant part of the apparatus and should not be omitted. It absorbs the unused gas passing from the experiment chamber and prevents it from contaminating the air. To offer a greater absorbing surface for the gas, wet a crumpled ball of stiff paper with the lye solution and immerse it in the bottle. If by any chance you should get a strong whiff of the free gas, you can relieve any unpleasantness by inhaling alcohol.

If you find that the system leaks, plug up any small holes and cracks with putty or wax. Of course, if you desire, you can perform the experiments out of doors,

UN**TIL** you experiment with chlorine, you have missed some of the biggest thrills your home laboratory can give you. Among

place of the tin solution, however, sodium chloride (common salt) is used. The passage of the direct current through the solution produces free chlorine at the positive electrode and hydrogen at the

Studies of Chlorination By-products in Drinking Water and Bladder Cancer



Milwaukee Sentinel

Packers get QB

Green Bay obtains Jets' O'Brien for '93 draft choice / Sports

Tar Heels win

Mental lapse by Webber helps Carolina grab title / Sports



TUESDAY MORNING April 6, 1993

EDITION

Collectors' item: State boasts array of special groups

By RICK ROMELL
Sentinel staff writer

Larry Branstad was explaining how he acquired the interest that led him to help found the country's only national organization dedicated to people who collect juice squeezers.

It was during the 1970s, Branstad, a retired librarian living in northwestern Wisconsin, was

peking about at a garage sale when he came across a reamer.

"You might think of them as orange squeezers, lemon squeezers or whatever," he said.

The rummage-sale reamer had a patent number embossed on the bottom, the price was right, and Branstad was in the market for a hobby.

"I had just moved here from Los Angeles and

decided that I wanted something to occupy my time, and so I bought it for 30 cents," said

"Then I thought if I collected five or six of these that that would be my nice collection."

"Well, it didn't take very long to find out that I wasn't the only collector and that there are literally thousands of different reamers. They come in all materials from glass to precious metals ... from ceramics to plastics, from wood

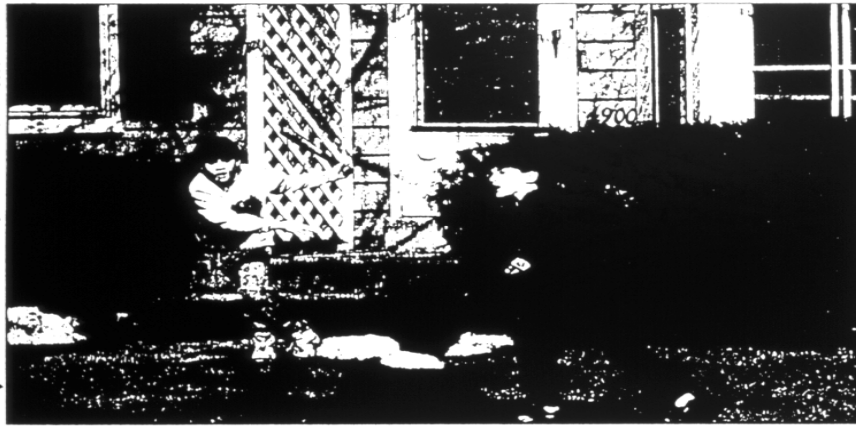
to aluminum, and from electric to hand-held, and there are thousands of them."

Almost as many, perhaps, as there are associations, societies, clubs, alliances, networks and bureaus in this well-organized land of ours.

From a Boston-based educational advocacy group called A Better Chance, to the ZZ Top

See Groups / 6A

'Field' of dreams



Nate Weiner, 8, drives a pitch from his twin brother, Max, while Dan Lamont, 9 (bottom center), plays the outfield in an after-school ball game Monday in the front yard of the Weiners' home at 4900 N. Berkeley Blvd. in Whitefish Bay. When asked who their favorite

Milwaukee Brewer is, two of the boys yelled "Robin!" One of the boys, however, said, "Paul Molitor," who left the Brewers during the off season to play for the Toronto Blue Jays. The Brewers' season opens in California Tuesday.

JEFF FREY, PHILIPS / Sentinel photographer

Raging virus hits hard at area schools

Pharmacies short of supplies

By JOE MANNING
Sentinel staff writer

A rampaging virus closed one school, threatened to force others to close and clogged hospital emergency rooms Monday asking patients seeking treatment for diarrhea and vomiting, officials said Monday.

The Milwaukee Health Department sent viral kits to hospital emergency rooms Monday asking physicians to take samples from the first 10 people who came in with the typical symptoms of the disease — diarrhea, dehydration, abdominal cramping and vomiting.

Health officials said the cause of the outbreak remained unknown, but it was possibly caused by a common adenovirus or rotavirus. Officials were amazed at how widespread the illness seemed to be.

St. Adalbert's Parish School, 1913 W. Hecher St., closed Monday when not enough substitute teachers could be found to replace the sick members of the faculty, a school official said. A third of the students were out.

West Allis School District Administrator Harold Sloan said the district was able to deal with

See Virus / 11A

Health plan may use identity card

Social Security number debated

Washington, D.C. — AP — President Clinton's plan to reform health care is likely to include a universal identity card that may use Social Security numbers to keep track of patients, say White House and congressional aides involved in drafting the package.

Ira Magaziner, coordinator of the president's health care task force, says a "health security card" part of the FBI's counterterrorism unit said Musa offered to kill Tina because she knew too much about the organization and planned to leave her family on her 17th birthday.

Luis Nijmeh, 29, another alleged Abu Nidal member in St. Louis, suggested Tina be taken to the Occupied West Bank, "where she could be killed safely, and without suspicion," the affidavit said.

See Suspects / 6A

"The use of the Social Security number is an invitation to abuse."

— MARC ROTENBERG
of Computer Professionals
for Social Responsibility

number before the baby's first birthday, part of the plan Clinton expects to give Congress this spring.

Two congressional aides with ties to the task force both speaking on condition of anonymity, said Social Security numbers were being considered as the identification number for the cards.

More than 200 million Americans have Social Security numbers. All parents who want to claim a child as a tax deduction now must get a Social Security

See ID card / 11A

Suspect allegedly offered to kill girl

Racine man led Abu Nidal colleagues, FBI affidavit says

By MEG JONES
and MICHAEL S. BAYER
Sentinel staff writers

A Racine man charged with being a terrorist volunteered to kill the daughter of an alleged Abu Nidal colleague because she knew too much, according to an FBI affidavit filed Monday.

Tawfik Musa, 43, also allegedly supervised the terrorist organization's four-person cell in St. Louis, according to the document, filed in Dayton, Ohio, federal court.

"This defendant was looked to as a leader by the other defendants," Asst. U.S. Atty. Stephen Biskupic said during an extradition hearing for Musa in federal court in Milwaukee.



Musa: Must leave state

Isa: Was killed in 1989

mobile, traveling all over the world on behalf of" Abu Nidal, the FBI affidavit said.

Musa and three others were indicted last week for their alleged ties to the Abu Nidal group. According to FBI investigators, they talked about killing informants and owning grenade launchers.

The men were charged last week with conspiring to murder Jews and plotting to blow up the Israeli Embassy in Washington, D.C.

One of the men charged is Zein Isa, 61, of Mineral Point, Mo., who is on death row in Missouri for the murder of his 16-year-old daughter, Tina, in 1989.

FBI agents, investigating

whether Isa had been involved in the PLO, bugged his home and inadvertently captured the killing on audio tape.

In an affidavit, James C. Van Rhein Jr. of the FBI's counterterrorism unit said Musa offered to kill Tina because she knew too much about the organization and planned to leave her family on her 17th birthday.

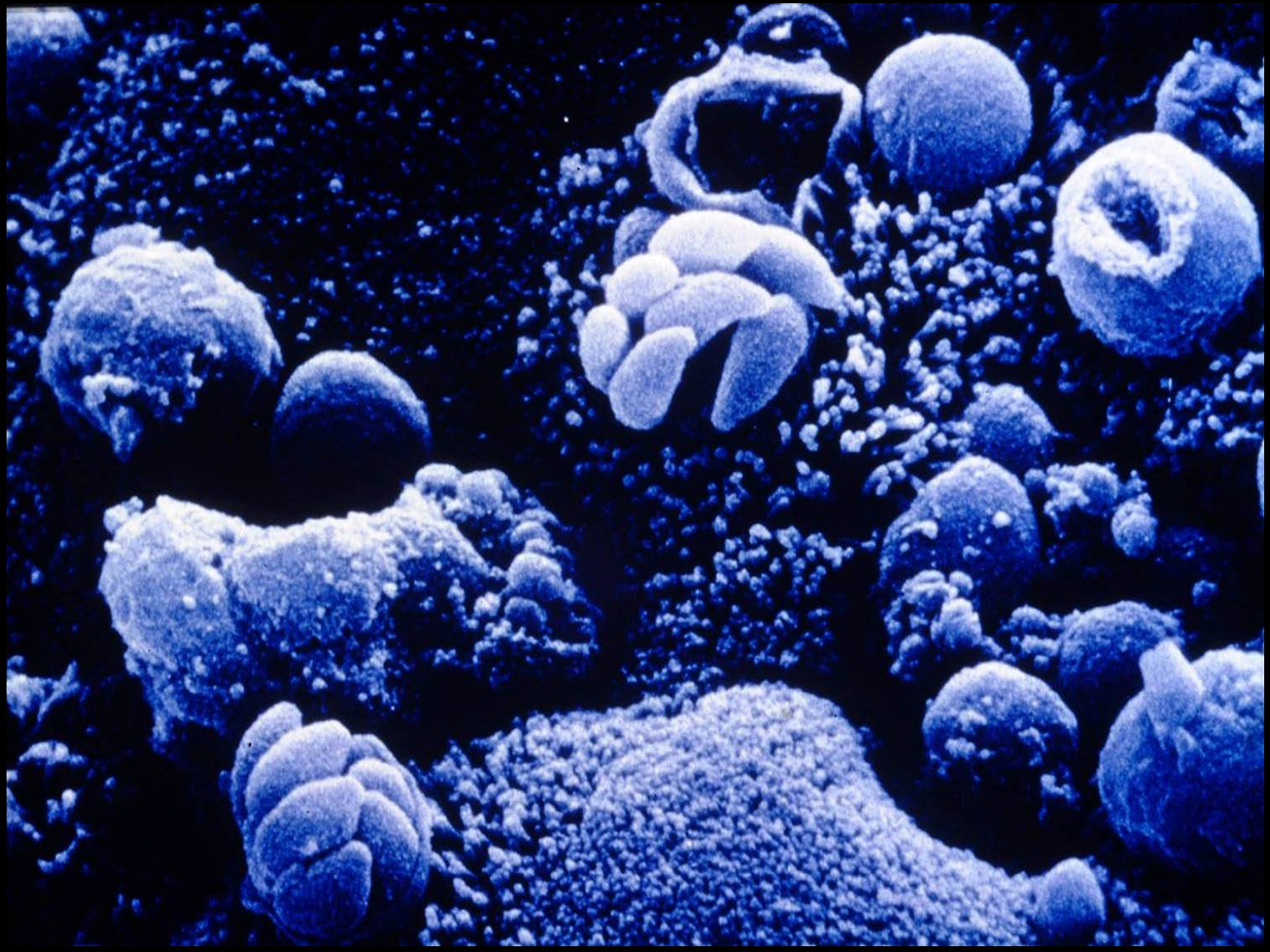
Luis Nijmeh, 29, another alleged Abu Nidal member in St. Louis, suggested Tina be taken to the Occupied West Bank, "where she could be killed safely, and without suspicion," the affidavit said.

Nijmeh refused Musa's invitation

Election '93
Statewide election today.

Bouncing baby boy wears stripes, dots
By KAREN HERZOG

First steps: A male Malayan or Asian tapir, named Kris, stands near his mother, Bonnie, at the Milwaukee County Zoo. He was born Wednesday.





New Packer Reggie White

THURSDAY MORNING APRIL 8, 1993

***** EDITION

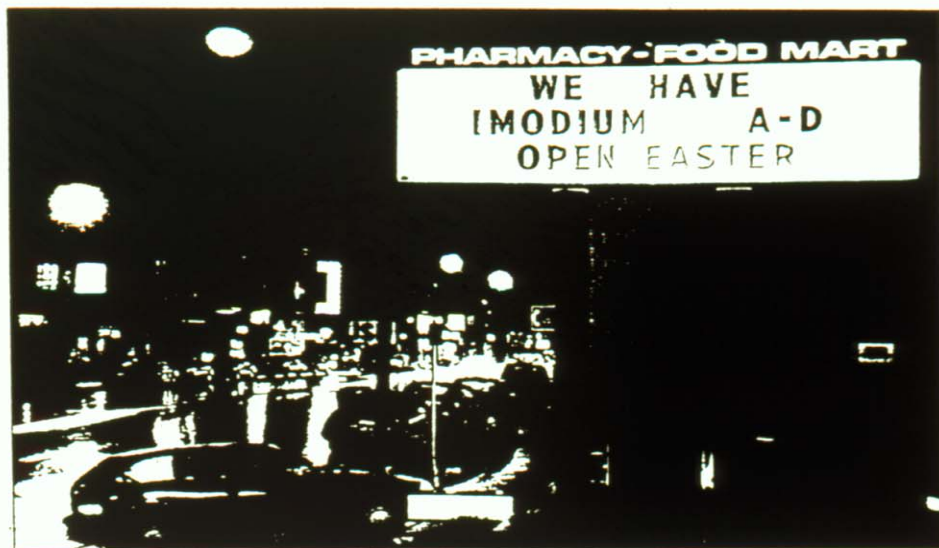
Boil water, mayor says

Safety of drinking supply probed in wake of mystery epidemic



JEFFREY PHELPS, Sentinel photographer

Water scare: The Walgreens drug store (right) at 2830 N. Oakland Ave. assures customers that it has what many people may need most these days — an anti-diarrheal medicine. Heather Guthrie (above), a sales clerk in the store, was drinking spring water Wednesday night. She said her roommates were ill and she didn't want to get sick.



By GRETCHEN SCHULTZ
Sentinel staff writer

Metropolitan Milwaukee residents were told Wednesday night to boil their water before drinking it or using it to clean food because of a recent outbreak of digestive illness.

Mayor John O. Norquist said tests on eight people who caught the illness found a type of organism that can be waterborne.

That raised suspicions about the water supply, which originates in Lake Michigan and serves Milwaukee and 10 suburbs.

The outbreak has struck hundreds of people with diarrhea, stomach cramps, vomiting and fever. Some schools have been shut down. No deaths have been reported.

Norquist issued the advisory at a 9 p.m. news conference Wednesday.

Water should be boiled for at least 5 minutes, officials said. The elderly and those with weakened immune systems should be especially careful.

It is not certain the water supply is at fault, Norquist said.

"We are erring on the side of caution," he said. "We do not know enough of where it came from. We are not even sure it's from the water supply."

The organism is called Cryptosporidium, a rare, microscopic parasite.

While there is no cure but time, common over-the-counter medications can relieve the symptoms, officials said.

It will take several days to determine whether the organism is in the water supply. Health Commissioner Paul W. Nannis said.

Special Deputy Commissioner of Medical Affairs Thomas Schienker said hundreds of gallons of water must be collected to get enough sediment to test for the organism.

See Epidemic / 8A

Bottled water buyers deluge stores

By JAMES E. CAUSEY
Sentinel staff writer

Milwaukee-area residents flooded grocery stores late Wednesday night to buy bottled water after city officials speculated that a parasite in the city's water supply might be responsible for a major outbreak of digestive illness.

"We've been wiped out," said

Pat Cavanaugh, manager of Cub Food Store, 4061 N. 54th St.

"In the last hour we've sold about 100 gallons of bottled water," Cavanaugh said.

The supermarket normally would sell about five gallons of water during that time, Cavanaugh said.

"People were buying six or seven gallons of water at a time," Cavanaugh said.

8A Do's, don'ts How long to boil; what not to use

At the Sentry supermarket, 2938 N. Oakland Ave., one man filled a shopping cart with bottled water.

Every third customer in line

had at least two bottles of water in their cart, a store clerk said.

Most shoppers opted for 2½-gallon bottles. Everyone in line was talking about the ailment possibly being caused by the water.

One store clerk said she asked a stock boy to save some bottled water for her because she hadn't gotten sick yet and didn't want to.

Walt Lewandowski, assistant manager of Pick 'N Save Warehouse Foods, 9200 N. Green Bay Road, said the store sold out of water shortly before 11 p.m.

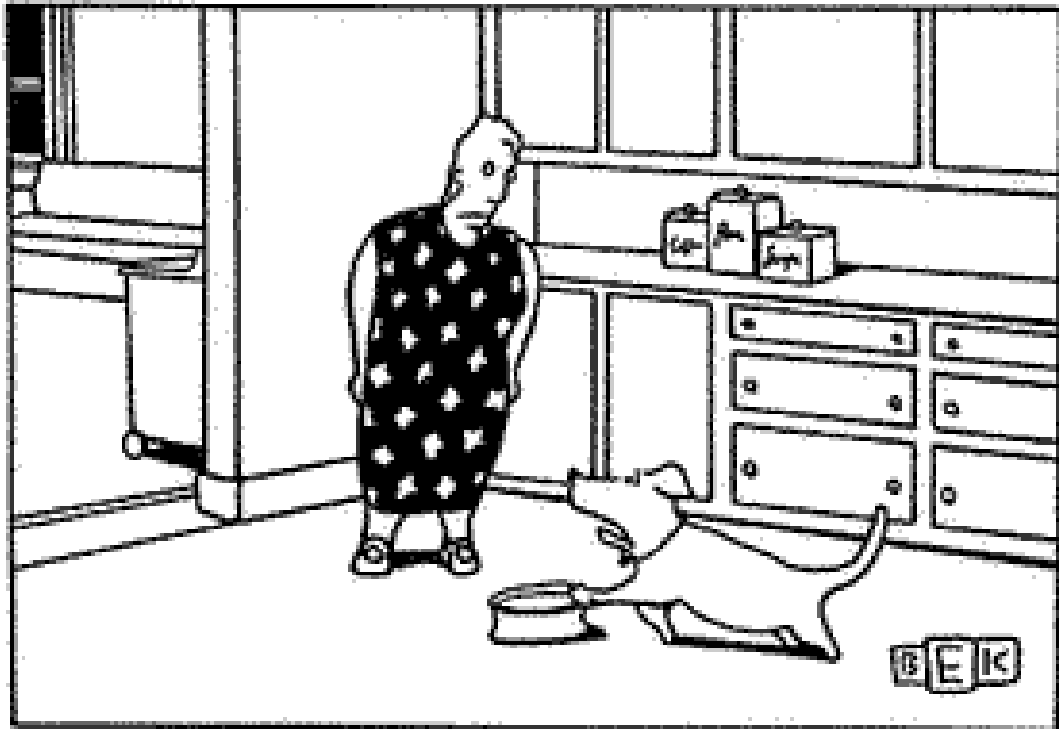
"We were not prepared for this," Lewandowski said. "We sold over 30 cases of water within a matter of hours."

In addition to selling out of

See Water / 12A

GOP budget boss warm to tax freeze 'adjustments'





"This isn't tap water, is it?"