

Science Finds Cause For Hangovers, But Still Hunts Easy Cure

By ALTON L. BLAKESLEE
Associated Press Science Reporter

PRINCETON, N. J. (AP)—Science now knows a chemical reason why humans get hangovers.

The reason suggests a cure, too—but the cure would be worse than the hangover.

The horrors of the hangover come from what alcohol does to enzymes. Enzymes are vital chemicals that make the machinery of living cells tick in normal fashion. There are enzymes in all cells of your body.

The enzymes get tackled by the excess alcohol of too much drinking. The alcohol wedges itself into empty spaces inside the enzyme molecule and the enzyme is blocked or taken out of action. The cell can't carry on its normal chemical reactions, thus leading to the headache, buttery and despairing effects of the hangover.

Theoretically, the cure would be to squeeze the alcohol out of the enzymes. But that would take tons of pressure. And would be more than a bit lethal. Better, as yet, to put up with the hangover, which wears off in time.

The hangover explanation comes as a by-product of research by Dr. Frank H. Johnson, physical chemist in Princeton University's department of biology.

Dr. Johnson is studying life in its basic form, the molecules of the living cell. He is learning what effects heat, light and pressure have on chemical reactions of cells, and what drugs do to enzymes. The knowledge may aid in finding differences in enzymes of normal and cancerous cells, or explain some other puzzles of disease and health.

A useful look in these studies is luminescent bacteria, which shine with cold light. The light comes from the reaction of a chemical called luciferin, and is sparked by the enzyme luciferase.

If hydraulic pressure is applied evenly over some of these bacteria, the pressure squeezes alcohol out of the enzymes. The chemical reaction from this makes the bacterial cells light up. When the pressure is released, alcohol floods back again into the empty spaces of the enzyme and the light goes out.

Fireflies turn the enzyme activity off and on in this manner to produce their blinker lights.

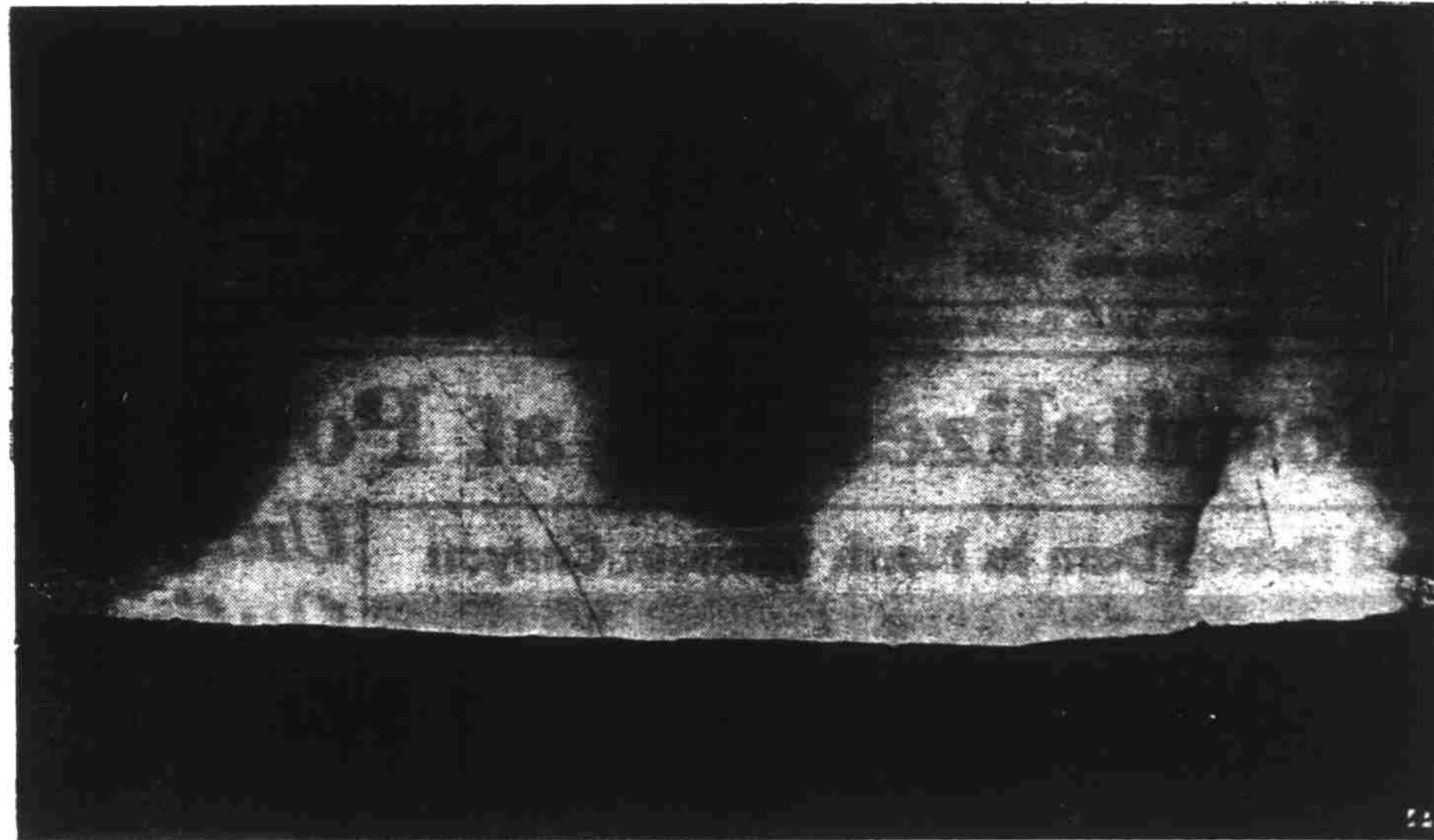
Heat expands the enzymes, making the empty spaces bigger, and under heat at normal pressure it's easier for alcohol to wedge into the enzyme. That is one reason why people can't drink as much liquor in summer as in winter, Dr. Johnson says.

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HAWAII'S VOLCANO BUBBLES IN THE NIGHT—Fiery smoke rises from Halemauau, inside and some 1,000 feet below two-mile rim of Kilauea crater in Hawaii National Park, as it subsides to a bubble between eruptions.

Ike Better Cook, Wife Tells News Women

By RUTH COWAN

CHICAGO (AP)—Mrs. Dwight D. Eisenhower concedes that her husband is a better cook than she is. But she doesn't think much of the pictures he has painted of her—in fact he has given up trying.

Mamie Eisenhower Saturday held her first news conference since the Republican National Convention picked General Ike as the party standard bearer in the 1952 presidential campaign.

The meeting with women reporters was quite formal at the outset. Mrs. Eisenhower sat in front of a

table, and the newswomen took chairs arranged in rigid semi-circles. They asked the usual questions—What are you going to do now? Are you tired? Then the ice gave way.

Mrs. Eisenhower noticed a table with a tray of sandwiches. "Don't you want a sandwich? I know I do."

Life in recent days has been hectic for candidates' wives and reporters alike, with meals irregular and everyone tense.

Mrs. Eisenhower's natural gesture eased the formality. Someone got her some sandwiches, and the reporters took some too. They clustered around her and between bites got a wife's eye view of Eisenhower art.

Eisenhower, like Britain's Winston Churchill, has taken up oil painting and she rather indicates she rated an Eisenhower canvas above a Churchill.

"Ike has never had any instruction; Churchill has," she said, ad-

ding that generally speaking "Ike's painting is good."

But his efforts to paint her portrait have not been successful.

"I was his first subject—and that picture was a lu-lu," she said.

She told of the day several years ago—when they were living at Fort Myer, Va.—that Eisenhower decided to try to paint her portrait.

She had a narrow pink ribbon bow in her hair—"It was a bow just so big"—with thumb and finger she measured about two inches.

"When he got through it was huge." She held her hand before her head indicating the bow must have grown about a foot.

A reporter mentioned a portrait Eisenhower had done of Brig. Gen. Tony Biddle on his NATO staff in Paris.

"That portrait started out as a tree," Mrs. Eisenhower laughed.

Ike got started painting after watching a friend at work and asking if he could have the pallet of left-over paints. Then he asked Mamie to find "a rag, thumb tacks and a board." The rag, she confided, was an old dishcloth.

And that is the basis of that first portrait of her.

INVITED TO LAUNCHING
WASHINGTON (AP)—John L. Sullivan, the former Navy Secretary who angrily quit his job when the administration stopped the building of a supercarrier, has been invited to the Navy's day of ultimate victory in the fight he could not win three years ago.

Malaya Seeks Helicopters

SINGAPORE (AP)—The Royal Air Force in Malaya is making inquiries in London about the possibility of obtaining large helicopters capable of carrying up to 20 men each for use in the war against the Communist terrorists.

The big hover-planes could be used by combat troops to descend into jungle clearings to intercept fleeing terrorists instead of hacking their way slowly as at present.

It is understood, however, that Western Union and other rearmament commitments will make it unlikely that such troop-carrying helicopters will be made available to Malaya for some time.

Talking Parrot Scares Prowlers

PASADENA, Calif. (AP)—"Mr. Potter," a spunky parrot, put two prowlers to flight recently with his human-like cries of "Help, Pappy, help."

Evidently, the bird heard noises in the backyard, said William B. Frank, whom "Mr. Potter" calls Pappy.

Frank looked around the backyard after the bird awakened him and found the prowlers had abandoned loot they had collected elsewhere in their hurried flight.

New Tenant Leaves With Deputy Guard

LAPER, Mich. (AP)—Sheriff Clark Gregory withdrew his armed deputies Saturday from the 80-acre Stevens farm, scene of Lapeer County's latest and roughest eviction battle, and with them went the newly-installed tenant on the property.

"There has been nothing to indicate there will be further trouble," the sheriff said.

But Richard Newman, 26-year-old Flint fireman, who took over the property after Friday's eviction battle, apparently didn't agree. He clamped a padlock on the front door and left in the wake of the deputies.

Rumors of counterattacks by farmer sympathizers of Mrs. Elizabeth Stevens, who was dragged away screaming and fighting, have kept the area in a state of tension.

The armed deputies had been on guard since the eviction was completed. In withdrawing them, the sheriff said he had fulfilled his legal duty by ousting the widowed mother of nine children.

Shortly after withdrawing his men, Sheriff Gregory reported an "unidentified party" had called him from Detroit, saying that arrangements had been made to buy the farm from Mrs. Grace White of Lapeer, who bought it at a

court-ordered auction, and return it to the evicted widow.

Mrs. White, a Lapeer attorney and herself a widow, refused an offer last week of the \$500 she had paid for the farm, plus six per cent interest. She said this failed by far to cover her court costs and other expenses in trying to gain possession.

Angry farmers, who have waged a 17-year fight against the assessments growing out of the failure of an insurance association, have sworn to put the 60-year-old widow back on her farm.

U. S. West Coast redwoods, transplanted to Hawaii as seedlings 25 years ago, are now producing lumber.

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