

Scientists Say

Thar's Voltage In Them Thar Molars - 1-2 Volt Up

By ALTON L. BLAKESLEE
Associated Press Science Reporter

NEW YORK — Your teeth can pack a fair electric wallop. Two teeth can generate a current of half a volt or more, if they have different kinds of metal in them as fillings. When they meet, you might get a little shock. Or you can get a shock when a spoon or fork touches both teeth.

It has been known for years that fillings of different metals can set up electric current.

How strong it can be has been measured by Dr. William Schriever, professor of physics at the University of Oklahoma, and Dr. Louis E. Diamond, biochemist in

the university's school of medicine. They made tests on 137 patients, under an Office of Naval Research project.

"It is remarkable that the fillings of some persons have electrical potential differences of over half a volt, and yet these persons apparently suffer no discomfort and apparently no ill effects," they told an American Chemical Society meeting.

The mouth battery is like the simple battery you can make by dipping a copper wire and an iron wire into a glass of salt water, and holding the two upper ends of the wires together. Current flows through the wires, and through

the salt water, which is an electrolyte.

The saliva in the mouth and the fluid in the jawbone also can act as electrolytes and conduct an electric current.

"If two teeth are filled, one with gold and the other with silver amalgam, these fillings are in contact with the saliva at their exposed surfaces, and with the bone-fluid at the surfaces down in the teeth.

"Thus the gold and amalgam together with the saliva constitute one electric cell, and the gold and amalgam together with the bone-fluid constitute another electric cell. These cells tend to send electric current from the amalgam to the gold through both fluids."

Each cell generates an electrical pressure, and a current can flow between them even when there's no metallic connection made to the fillings.

Dr. Schriever and Dr. Diamond, using meters, measured the average normal electric currents flowing between various combinations

WHERE FATE OF 250 CARS DEPENDS ON MELTING ICE



LEAVING BEHIND many fishermen and 250 cars, marooned on an icecap that broke away from the shore on Lake Winnebago, a small boat carries several persons to safety at Oshkosh, Wis. Other boats waited to pick up the stranded fisherfolk, but the fate of the autos was declared dependent on the weather. If a freeze sets in, they will be easily removed, otherwise they will go down with the melting ice. (International)

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Cattle Seen As Hope Of The South

SENATOBIA, Miss. (UP)—M. P. Moore, the number one Polled Hereford breeder in America, has what he calls the "cattle cure for the cotton jinx."

It consists in spreading the gospel of balanced agriculture, especially the development of beef cattle in the cotton South.

It's an old story now that the South has moved a long way from the days of 'taters, 'pone and crinoline ladies. Industry has moved in and wages have gone up. But for Moore there's a greater future in cattle.

In the past year, he traveled through 35 states as president of the American Polled Hereford Association.

A six-foot four-inch 240-pounder, Moore is a firm believer in cattle as the future economic hope of the South.

Rounded Program

His own sprawling 12,000-acre farm here is devoted to a rounded program of cotton, corn, oats, hay, timber, pastureland and cattle.

The land was acquired over two previous generations. When Moore, known as "Hot" Moore because of his prowess as a baseball pitcher at the University of Alabama, returned home from college in 1926, most of the acreage was devoted to cotton. There was no sound planned program in effect.

At a family council, his father and grandfather told Moore to go ahead with his plans for cattle-raising. He said it was a question of beef or dairy animals, and he decided on beef.

"Like everyone else at the time," Moore said, "I didn't know a thing about cattle. I was typical of the cotton South. But I learned."

He started his now world-famous herd that year when he bought 10 commercial heifers and one registered bull. He kept on at a modest pace until 1933, when he bought 11 registered females and two bull calves to raise his own bulls and set up a commercial operation.

On Right Track

Farmers bought every bull calf produced in the five-year period up to 1938, convincing him that he definitely was on the right track.

In fact, an aunt of his once fainted when he paid \$3,550 for a Polled Hereford heifer. But she lived to see him prove the wisdom of his investment.

Moore's Circle M Ranch since then has produced more champions than any other herd. And that's no small distinction, since the Polled Hereford Association, with headquarters at Kansas City, Mo., has more than 3,900 members.

This year's national show and sale at Memphis, Tenn., had 65 herds from 20 states entered, and of those, 20 herds had Circle M blood lines.

So widespread has become his fame, that his breed stock now is being shipped abroad. In the last 16 months, 14 head of seed stock went to Argentina, Uruguay, New Zealand, South Africa and the British West Indies. Interested visitors have visited the ranch from other South American countries, Australia and New Zealand in the last six months.

Moore calls the Polled Hereford "tomorrow's cattle today." He says it is gentler, less dangerous, feeds better and gives the producer less loss from horn bruises in the carcasses.

Benefit to South

He maintains that cattle production in the South will cut down the cost of meat and dairy products to the consumer by eliminating long-distance handling and transportation costs.

"It's fine for the South especially," he said, "because it provides a 365-day annual income, will give more and better food to more people, helps soil conserva-

of fillings. They found the most current produced by pairs of teeth with gold and amalgam fillings, and the least between pairs both filled

Writing Music Very Simple, It Says Here

HOLLYWOOD (UP)—It's really very simple to write the musical score which accompanies a movie, one composer contends. All you do as you read the script is to draw

everything from the hero to his dog.

The dog, in Nat Finston's current assignment, will romp on the screen to the accompaniment of Tchaikovsky's piano composition "Humoresque."

The hero, a lonely and luckless fellow, reminds Finston of Tchaikovsky's music for "None but the Lonely Heart." But he didn't say what he's going to do about combining them when the man takes his dog for a walk.

Matter of fact, the whole picture, which is Harry M. Popkin's "Here Lies Love," reminds Finston of Tchaikovsky.

More Tchaikovsky "It has emotional profundity in the best Tchaikovsky manner," he said. "The whole story brings me to his music."

He picked the slow movement of the Symphony No. 4 for the heroine, Betsy Drake.

"Feminine triste and sympathetic," he explained, "but not without energy."

A character actor, Henry O'Neill, who's the cause of all the trouble, drew the finale of Symphony No. 6.

"It gives play to the cross-currents, conflicts, emotions, despair and drama his portrayal takes us through," Finston said.

Getting past the actors to other feature of the show, there's a horse, named Shamrock. Finston picked a piano dance for him.

WRONG PLACE AND TIME

DUNN, N. C. (UP)—Neill McCray picked the wrong place and time to play Peeping Tom. The place was the home of former Police Sgt. C. E. Moore. The time was when Moore came home without his door key and circled to the bedroom window to ask his wife to let him in.

NARCOTICS MAKE

CHICAGO (UP)—Narcotic addicts roaming streets steal to buy drugs. Commissioner John C. ... estimated that the average steals \$6 to \$40 a day to satisfy cravings.

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