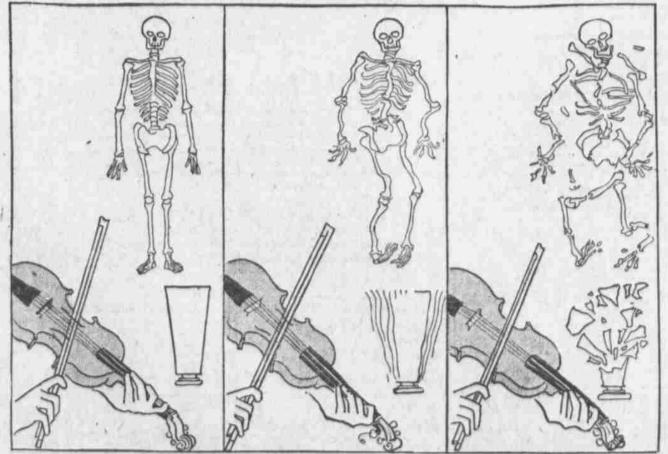
THE OMAHA SUNDAY BEE MAGAZINE PAGE

Caruso Cursed By His Musical Bones Scientists Point Out to the World's Greatest Tenor His Danger of Being Shattered by the Dominant Note of His Uniquely Vibrant Skeleton ARUSO, the world's greatest tenor, is scientifically eligible creased that at at any moment to the same least every parfate that befell the walls of Jericho ticle exceeds the -if science is to be believed at all speed limit, and the well-known law of vibrations breaks the law, is not founded upon fallacies. rushes into space, and so that thing This extraordinary announcement disintegrates and vanishes. follows logically the discovery by Dr. One of the ways of doing this is George Lloyd, the distinguished Lonto find the dominant note of the don physician, that the \$3,000-a-night thing to be destroyed, and then, by all day without singer has musical bones. producing a long-sustained, sympaweakening a strand. This is cause the rhythetic note, so stimulate the vibration The uniquely vibrant quality of that at last it files apart. Caruso's skeleton makes of him Here are some practical illustra-tions of the law. The Bible tells us thmic beat of the a human music-box, and sets him marching feet in aside from his fellow men and lays how the walls of Jericho were made step so increase him open to as unique a danger. Just to fall by the blowing of trumpets. the vibrations of the bridge itself that it passes outside the law. In as a glass may be broken by a violin Science says that this is perfectly possible. The walls of Jericho had their dominant note—that is, their playing sustainedly the same note the broken ranks there is no rhythm. which that glass gives upon being In this same way, the continued tapped with the finger, so, too, the scientists have told Caruso, he may be shattered by a sound of just the rate of vibration. Joshua, who was reproduction of the dominant note of apparently quite a scientist, discovanything so increase its vibration that it files apart. ered what this was. Having discovered it, he selected hundreds of pitch, quality and number of vibra-Thomas Edison has said that this tions a second that will meet the trumpets producing this note. The same Brooklyn Bridge could be de dominant note of his resonant bones Israelites blew them lustily. The vistroyed in the same way by In other words, somewhere in the brations of the trumpets set up a a man playing long enough infinite world of sounds lurks one sympathetic vibration of the walls. the dominant note in which sound which conceivably can so set every tiny molecule of Caruso's skel-The horns kept blowing. The walls it vibrates. In this case eton vibrating so rapidly that the bones themselves will disintegrate and the tenor either drop into a squid-like mass, or else be torn apart by what would literally be the atomic explosion of his framework. This sound may hide anywhere-in a steamer's foghorn, in a locomotive whistle, in the roar of an avalanche, or even in the battered penny trumpet of a street urchin! To the incredulous it may be said at once that this statement is not a joke in any way. It is a sober, scientific truth. It is a little difficult to make clear the scientific basis upon which this peril of Caruso stands. And yet it is simple. Everything in nature vibrates. Matter itself is, it is thought, only a peculiar vibration of the ether. And what is called vibration is only the movement of all the tiny par ticles of matter of which we everything that exists is formed. Naturally, all the particles or atoms in every division of matter, from stone to flesh, are governed by law. If there were no such law, everything would fly to bits-just as the flywheel of a dynamo bursts into Somewhere pleces when the speed at which it lurks one revolves becomes so great that it sound which overcomes the cohesive force that holds all its particles of steel toconceivably can so set This law of vibration fixes the rate of movement of the atoms of each every molecule substance so that they do not exceed of Caruso's the speed limit and cause disintegration of the thing they form. It proskeleton duces what is called equilibrium of vibrating so forces. And here enters a curious thing-every vibration produces what rapidly Miss Mary Garden with Whom Caruso Will Not Sing Because we call a musical sound. Every muas to tear the Two of Her Notes Make His Bones Ache. sical sound is simply composed of vibrations. The highest notes we can great tenor apprehend contain the greatest numvibrated more and more. And finvibrations from the musical inapart. . . ally they vibrated so fast that all strument correspond to the tread of ber of vibrations to the second; the lowest notes contain the fewest. their particles flew apart and the the feet of the soldiers marching in It may even Above the highest notes and below walls quite naturally fell. step. Every great structure in New lurk in the the lowest are vibrations our ears Again, it is a military rule that York and anywhere else in the world whenever soldiers cross a bridge they are not built to hear, but which we is subject to the same influence. penny trumpet break ranks. That is, they do not Again, when certain big ocean know exist, by their effects. of a street note which each substance keep step. If they did keep step gosteamers come into New York hargives forth through its atomic vibraing across, the unison would break bor and blow their deep whistles, urchin!" down the bridge. It has been esti-mated that five thousand soldiers tion is called its dominant note. And certain skyscrapers so vibrate in harmony that ink wells are shaken from just as the spinning fly wheel can be made to burst by increasing its keeping step on Brooklyn Bridge tables and chairs rattle across the would break it down in thirty min-The Lusitania, for instance, speed beyond the strength of its arfloors. utes. Yet a hundred thousand, not will make the Singer Building shake ticles to hold themselves together, so the atomic vibration of everything keeping step, could march across it to its foundations, while the Olympic



How Caruso's Bones Might Be Shattered Like a Glass.

Beginning the Note Which is the Dominant Note of the Glass—Above a S

First—A Violin Beginning the Note Which is the Dominant Note of the Glass—Above a Skeleton as Resonant as Caruso's. Second—The Dominant Note is Found and Under its Vibrations the Glass Begins to Quiver—Just as Caruso's Skeleton Would Begin to Quiver Under Ita Dominant Note. Third—The Prolonged Tone Has Set Up Such Enormous Agitation Among the Molecules of the Glass That it Bursts to Pieces—Just as Tariso's Bones Might Burst to Pieces Under the Prolonged Vibrations of Their Dominant Note.

will not affect the Singer at all, but cause the Woolworth tower to shiver all through. This is because the dominant note of the Lusitania is the dominant note of the Singer and the dominant note of the Woolworth, Many of the occupants of each building complain that at such times they experience a deep inward tremor as though, as one says, "My bones were dancing about."

Here we foreshado.. the plight of Caruso.

And still again, Colonel Younghusband, the brave English officer who led the British expedition into Lhassa, the mysterious capital of Thibet, relates a curious punishment meted out to offenders by the Lamas. "They place these culprits in a

"They place these culprits in a dark room," he says, "and there they leave them. There is a contrivance in the room that emits a continuous note of a peculiar timbre—F sharp I placed it as. This note sounds for five hours. At the end of this time the prisoner is brought out. He is invariably blind. The Lamas say the sound does it. Dr. Ffarson, who was with the expedition, examined the eyes of a number of these men and found the optic nerve entirely destroyed."

So much for the scientific principle. Now, as to Caruso:

Dr. Lloyd says: "Caruso's bones are more resonant than are the

bones of other persons. For instance, if you tap one of his knckles with your forefinger, it gives out a higher pitch, and more resonant tone than those of the average per-

son's knuckles."

But this extraordinary susceptibility to evibration exists absolutely throughout Caruso, even to his cartileges and muscles. Dr. Lloyd re-

marks further:

"Another point is that the vocal cords are fully an eighth of an inch longer than any other singer's I have examined. They are also extraordinarily vibratile. When he sounds his high C-sharp they vibrate 550 times a second, which is phenomenal for a man, whose voice is pitched an octave lower than a woman's."

In this respect, therefore, Caruso is more than normat—he is a phenomenon, a veritable human sounding board, his whole physical structure more resonant and sympathetic to sound vibrations than any other human creature.

To assert in so many words that it is possible for a sustained musical note of a certain precise pitch and quality to shatter Caruso's physical organism is, of course, something that no scientific man of established reputation would do. One of the experimenters above referred to, however, consented to present the case in the

following significant words: interest
"There is no room for doubt that entific

Caruso would suffer serious physical inconvenience if he should be subjected to the influence of a powerful and prolonged musical tone of the exact pitch to which his highly resonant body is attuned. Much experimenting would be required to determine that pitch—though it has been noticed by his opera comrades that that his entire musically restrons set up attack the will disastrons."

It can trut great tenor is apprehension.

the great tenor exhibits signs of distress in the few instances in his repertory where the solitary, prolonged note of middle F sharp is produced by the slide trombone.

"Caruso's only real danger, if any, is the slight one of accidentally encountering the vibrations set up by that precise note, produced by some research.

"Caruso's only real danger, if any, is the slight one of accidentally encountering the vibrations set up by that precise note, produced by some means outside of his usual activities as an opera singer. The thickly inhabited centres of the world are filled with all sorts of sound vibrations, of all pitches and qualities, produced by a thousand different means. There is, of course, a possibility that circumstances—or fate, if you prefer that way of looking at it—might bring Caruso and those shattering vibrations into conjunction.

"In the case of orditary human beings, it would be expected that each individual bone in the skeleton would possess its own 'dominant note.' In such a case—if the bones were sufficiently resonant and sensitive to be affected by sound vibrations at all—one might be shattered by such means, while the others would be disturbed only slightly, through sympa-

"The instance of Caruso becomes interesting, and important, in a scientific way, through this discovery

that his entire physical organism is a musically resonant unit—the vibrations set up by the fatal note would attack the whole man. It is not inconceivable that the results might be disastrous."

It can truthfully be said that the great tenor is in a state of constant apprehension lest some accidental and not to be escaped encounter with the sustained "dominant note" inherent in his own bodily structure shall set up physical disturbances of sufficient gravity to end his professional career, if not to make of him an in-

valid for the rest of his life.

That, it is now learned, is the main reason for those nervous claspings and unclaspings of his hands, so characteristic of Caruso when off the stage, and which are plainly indicated in many of his photographs. He resistes that his danger is not in connection with his professional work, because at rehearsals or during the performance of opera he cannot be subjected to the influence of any single, long-sustained tone; the notes of the orchestra and of the voices are mingled in constantly changing pitches and harmonies, each, therefore, neutralizing the sympathetic vibratory effect of the others.

But when walking along the street, when traveling by train or steam-ship, even when entrenched within his own four walls, he may be said to be constantly in the mental attitude of a man dodging some anticipated mysterious physical attack—in his case the physical attack of sound vibrations which his dody could not resist