TASTE AND SMELL

Closely Allied, They Are the Most Elusive of the Senses.

RIDDLE OF FLAVOR AND ODOR.

Smell Has Been Termed "Taste at a Distance," and the Way In Which Anything Is Appreciated by the Cells of Taste and Smell Is Exactly Alike.

We think we know all about tasting and smelling, but these are the most elusive senses and so closely allied that they have been called the "wedded senses." If you wish to be convinced of the closeness of their connection notice the next time you have a severe cold in the head and ascertain how little taste you get from your food. even though it be the most "tasty."

In fact, flavor and odor are great puzzles to all of the physical investigators. The preponderance of evidence points to the suggestion that all taste and odor are brought about by chemical changes in the ends of the nerves baving to do with these sensations. Smell has been termed "taste at a distance," and the way in which anything is appreciated by the cells of taste and smell is precisely alike.

The infinitely small particle that reaches the nose must first be dissolved in the mucous covering of the olfactory bulb before its odor can be caught and transferred to the end of the olfactory nerve. The same is the case with the thing that is to be tasted. It, too, is dissolved in the juices of believes that he does leap "an average the mouth and then makes its way to of full twenty feet." some one or more of the taste cells, when the chemical change takes place which sets up a sensation in the gustatory nerve, and we really taste the substance and announce to ourselves or others how it tastes.

Most persons think that as the tongue is the chief organ of taste you could taste anything placed anywhere on the tongue. But this is far from being either unable or unwilling to rise any true. There are three chief kinds of height from the ground. Their spepapillae of taste on the tongue, and cialty is broad jumping only. Mr. anything touching it on these papillae | Ward says that they "cannot clear an is tasted, but if it touches any spot be- obstacle greater than four feet," and a tween these it is not tasted at all. The five foot fence is commonly high fillform papillae are at the tip of the enough for any kangaroo paddock .tongue and at the sides, and each one | London Times. contains special taste "buds," which dissolve something of the substance put on them and transfer the sensation to the underlying nerve of taste.

Then there are the fungiform capillae, looking like little mushrooms (whence the name), with taste buds of their own, and there are also the circumvallate papillae, only seven or ten in number, lying toward the back of the tongue, forming a V, with the apex pointing toward the throat. These are little mounds with mosts around them and taste buds lying in the mosts to catch whatever particles of food may reach thus far sufficiently dissolved to be tasted.

The middle of the tongue and the hard palate have no taste at all, and this is the reason that if we are to take a bitter powder and it is carefully placed at the center of the tongue it can be washed down quickly by a guip of water, leaving no taste in the mouth.

The taste bulbs have been carefully measured, and it is found that they are 1-300 of an inch long and 1-800 of an inch broad, oval in shape, some thing like a small Florence flask. The proof that tasting is a chemical process lies in the fact that anything that is to be tasted must be soluble, for the unchewed food or hard coated pill is not tasted. Tastes have been classified as sweet, bitter, acid and saline, and experiment has shown that we taste salty foods most rapidly-to .17 of a second-and that sweet acid and bitter take longer, the last requiring .258 of a second for perception.

Another peculiarity of taste is that after a very strong taste of any kind we cannot so easily distinguish al ighter flavors. The nerve energy has been exhausted for a time, and only after a little does it return. If you have enten sweets for dessert you must drink some water to clear the mouth of the sweet taste or your coffee will taste very bitter, no matter how much sugar you put into it. The professional tea taster knows that the gustatory nerve becomes exhausted, for after a series of tastings he stops to give his nerve of taste an opportunity to return to its normal condition.

In taste and smell alike all individuals differ. The same food does not taste precisely the same to any two individuals, any more than the same perfume smells the same. There is a general resemblance, but the expert who has trained his sense of smell or taste perceives finer distinctions than the person who has given little attention to these special senses and their development. Arguments are of no avail, as was recognized in the popular and ancient proverb, "There is no disput-ing about tastes." There is no scientific explanation of the fact that one person likes onlons and another abhors them. Some persons are fond of olives only after they have cultivated he taste. The only suggestion of an aplanation is that in some persons te chemical changes brought about ontons or offives are pleasing, while others they are offensive. It is the statory perve that tells the tale, but, World.

> ly should we call ourselves men. s it be to succeed in everything where?-Mirabeau.

VERDICT OF THE AUDIENCE. Ordeal Which Budding Actors In Nor-

mandy Must Face. It is not without fear that an actor makes his debut in the capital of Normandy. A debut in the French provinces is by no means an easy ordeal to pass through. An actor has a right to choose three different parts, says Mme. Rhea, which must be played inside of a

The first and second debuts have no significance; he may be received coldly. critically or enthusiastically-it has no meaning; the third one decides his fate. That night after the play the manager, very solemn in his dress suit. appears before the audience and says: "Monsieur or Mile. So-and-so has made his or her debut. The management wishes to know the verdict of the pub-

Then he produces a placard on which is printed in large letters the word "Accepted." If the actor pleases the audience applauds; if not, it bisses until the manager produces another placard with the word "Refused." Then the applause starts again, without regard for the feelings of the poor. broken hearted girl or boy who has been waiting in the wings for the verdiet of that inhuman jury called the public .- Argonaut.

LEAP OF A KANGAROO.

Never Over Four Feet High, but May Be Thirty Feet Broad.

Precisely how far a big kangaroo can jump is a matter of some dispute. A writer in Cassell's Natural History says that they can leap "over ten, fifteen or more feet." Mr. H. R. Francis tells us that he has "known an 'old man' to cover nineteen feet at each bound for full half a mile," and be

Mr. Lydekker is of opinion that the great kangaroo leaps "not far short of thirty feet," and Mr. Thomas Ward gives it as "at least thirty feet." Probably Mr. Rudyard Kipling's "twentyfive feet to a bound" is near enough as a general rule.

But with this more than Olympic leaping power they seem commonly

Memory In Old Age.

Ways of the memory in later life exercised the famous Dr. Jowett of Oxford when he reached it, but he found consolation. "At fifty-five you fail to remember things-words, pictures, persons-after six months or a year's interval. Yet the circle of objects which you recognize is ever becoming wider, and this power of recognition is a great gift if cultivated. There is the greatest value in 'forgotten knowledge.' Instead of the stores of memory oppressing you, with a little trouble you can recall all that is useful or necessary." And to Lady Wemyss, recovering from illness, he wrote: "Like get it? Peace promptly replied, 'I you. I read a book through and do not remember a word of it. I think, however, that the reading of the book has an effect, and if I read it again I understand it better. I believe that as we lose our powers of memory we may increase the power of reminiscencethat is, of recalling what we want in small quantities for a short time."

Did the Romans Smoke?

"Why is it that smoking never crept into Roman literature?" I have asked. To which a correspondent answers that it has crept. It is mentioned by Pliny (N. H. xxvi, 6-16). He records the use of coltsfoot for smoking and recommends smoking the dried roots and leaves of this plant as a remedy for obstinate colds and coughs. From this the botanical name of the coltsfoot (tussilago), which means "cough easer," has been derived. British boys who have neither coughs nor colds still smoke coltsfoot surreptitiously and find that it makes them satisfactorily sick. -London Spectator.

Bad Calculation.

John, who was going to bed one night and having no light, was groping his way (the bed being one of the old fashioned kind, with high bed posts). John, in feeling for the bed post, missed it with his hand and struck it with his nose.

"Ach!" he yelled. "That is the first time I knew my nose was longer than my arm."-National Monthly.

Guessing His Trouble. "I sometimes feel as if the world

had little use for me-that things would go on just as well if I were out of it." "Come, cheer up, old man. Before this time tomorrow you may meet some girl who will look just as good to you as the other one ever did."-Chicago

Bad Form.

Record-Herald.

Brother-What did you say to that sold chap just now? Sister-I only thanked him for picking up my bag. Brother-My dear girl, you must learn not to be so beastly grateful. It's not done, you know, nowadays .- London

Har Life Long Passion.

A girl buby begins to flirt with men wi ien she is about two years old. So is understood about it.-New far as we can determine she keeps it until she is about ninety .- Albany Kid ckerbocker Press.

> He is the truly courageous man who never desponds.

metal the number of spectacle and eyeglass frames and mountings made of this material has shown a very large yearly increase. Considering the importance of gold filled wire and the many uses to which it is put it seems surprising that so little is really known of this and how nearly equal to solid gold it is for many uses. The term gold filled is somewhat misleading. Merely reversing it almost thoroughly explains both the material and the

Filled gold, as it might well be called, consists of a gold shell filled with an alloy of base metal. The popularity of gold filled is demonstrated by the fact that nearly \$1,000,000 of fine gold is used annually in one plant alone, and half of this is used in the manufacture of the gold filled wire from which spectacles and eyeglass frames and mountings are made .-American Machinist

Gladstone and Disraeli.

It was Disraeli at the Academy banquet who said that "the noble, distinctive trait of British art was its boundless fertility in imagination and fancy. In the reaction after the banquet, as he was going home with Mr. Goschen, he "descanted on English painters and deplored their total want of fancy and imagination." Being reminded by his companion that this was not exactly what he had led people to believe was his opinion in his speech at the banquet, "No," replied Dizzy, "but, then, my friend, one must be pleasant

after dinner." Very characteristic was the com ment next morning of Mr. Gladstone, who glared at the companion and roared out: "Do you mean to say that he carried his ghastly insincerity with in those walls! It's hellish!"-Independent.

How a Beetle Makes Love.

The deathwatch is always destruceats up books and furniture, and when and of a gray color, it does not seem to be a very terrifying creature; but it has a facetious little habit of butting its armor plated head against anything hard it may meet with, such as wood or plaster, thus giving rise to a ticking sound which might, by a good stretch of the imagination, be thought to sound like the ticking of a watch. The poor little beetle, when he causes the ticking, is only serenading his sweetheart. He can play no musical instrument to please her, and so, to prove his devotion, he butts his head against the wall .- Family Doctor.

Kept His Word.

An amusing tale is told in "Police Work From Within," by Hargrave L. Adam, of Charles Peace, the celebrated burglar. He once went into a chemist's shop smoking a choice cigar, which he had burgled in a recent "exploit:"

"The chemist, noticing the aroma of the cigar, remarked, 'That's a nice cigar you're smoking. Where did you and said, 'I wish you would steal some as good for me.' Again Peace promptly replied, 'I will.' Shortly after he again secured some good cigars upon the occasion of one of his nocturnal jobs, several of which he took to the chemist in question. As he handed them to him he remarked. There you are-I stole them for you.'

The Insulted Tiger.

In "Tigerland" C. E. Gouldsberg, its author, alludes to the belief, current among some of the natives of Bengal, "that tigers resent being discussed by human beings and should one overhear a man doing so will not rest till it has killed and eaten the offender." Therefore when a tiger is near at hand they speak of it as a "geedur"-Bengali for jackal-and so hope to deceive it. When it was pointed out to an old native that to insult a tiger by calling it a jackal-the smallest and most insignificant beast in the forest-was scarcely the best way of propitiating it he merely shrugged his shoulders and said, "Kya jane?" (who knows?). adding by way of explanation that "such was their 'dustoor' (custom)."

Pride In Their Country.

In Germany there is a national association called the Heimatsschutz Bund which was formed for protecting and preserving the natural beauty of the German fatherland, together with its historic and artistic buildings, cities, monuments, etc.; also to unite the efforts being made by various local and state organizations.

That Held Him. "Your 'air's getting thin, sir. Les

me sell you"-"That's all right. I put something

on it every morning." "May I ask what you put on it, sir?" "My hat!" (operation finished in silence).-London Opinion.

Arc Lamps.

The intense light given out by the flaming are lamps is caused by giving the carbons a soft core of some metallic salt, which is vaporized by the beat. the vapor, passing through the electric arc, illuminating the space between the

Barleycorns.

The inch was formerly subdivided into three "barleycorns," these divisions being originally the length of a well dried grain of barley.

The wheel that turns gathers no rust. Old Saying.

Since the perfection of gold filled Made My Life Worth Living

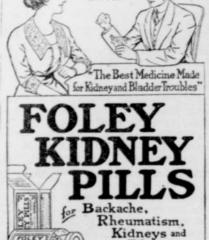
"I feel it my duty to tell others what Chamberlain's Tablets have done for me," writes Mrs. L. Dunlap, of Oak Grove, Mich. "I have suffered with pains in my back and under my shoulder blade for a number of jears, also with a poor appetite and constipation. I tried all of the remedies that I heard of and a number of doc tors, but got no relief. Finally a friend told me to try Chamberlain's Stomach and Liver Tablets. I got a bottle of them and they soon helped my stomach; by their gentle action my bow-

els became more reg

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tive. In its earlier stages of life it photographed often enough to keep a record of each interesting stage In length about a quarter of an inch more and more as the years go by Monk's S'udio.



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FOR SALE RY

E. F. LAUGHLIN,

Tillamook, Ore

Summons.

Department No. 2 in Equity.
In the Circuit Court of the State of Oregon for Tillamook County. Jackson Powell, Plaintiff.

Aaron Sherman and Jennie I. Sherman, his wife and A. G. Reynolds and Daisey V. Reynolds, his wife, Defendants.

Aaron Sherman and Jennie I. Sherman, A. G. Reynolds and Daisey V. Reynolds, defendants. IN THE NAME OF THE STATE OF OREGON:

GREETING: -You, Aaron Sherman and Jennie I. Sherman, husband and wife, A. G. Reynoids and Daisey V. Reynolds, husband and wife, defendants herein, are hereby required to appear and answer the complaint filed herein against you, on or before the 2nd day of April, A.D., 1914, that being six (6) weeks from the first publication of this summons, and if you fail to appear or answer, plaintiff will apply to the Court for the relief demanded in the ular. Today I feel like praising them to all who suffer as I did, for complaint on file herein to which reference is hereby made and which is made a part hereof, to-wit : for a decree of this Court for judgment me and made my life against the said defendants Aaron Sherman, Jennie I. sherman aud A G. Reynolds and against each and all of you for the sum of two hundred seventy (\$270) dollars, United States gold coin, with in-terest at the rate of eight (8) per cent per annum from the 29th day of December, 1911; and for the further sum of five and 25-100 (\$5 25) dollars for taxes paid on said land, with interest thereon at the rate of six (6) per cent per annum from the the 13th day of February, A.D., 1914; together with attorney's fee \$50.00 and costs to be found due herein, with interest thereon at the rate of six (6) per cent per annum from date of payment by the plaintiff herein; and for the usual decree for the sale of said premises, Babies will grow and while they are growing, you should have them the practice of this Court; that the proceeds of said sale may be applied in payment of the amount it reaches maturity the damage it does of their childhood. You will prize due to the plaintiff, and that you, is greater still, though not so costly, the collection of baby's pictures said defendants, and each and all of

you, and all persons claiming under you or either of you, sub-sequent to the execution of the mortgaged sued on and against said premises, either as purchasers, encumbrancers or otherwise, inluding the incohate dower interest of you the said Daisey V. Reynolds, may be barred and foreclosed of all right, claim or equity or redemp-tion in the said premises and every part thereof; and that the said plaintiff may have judgment and execution against the said defendants Aaron Sherman and his wife Jennie I. Sherman and A. G. Rey-nolds and each of you, for any deficiency which may remain after applying all the proceeds of the sale of said premises properly applicable to the satisfaction of said judgment; that the plaintiff, or any other parties to this suit may become purchaser or purchasers at said sale; that the Sheriif of Tillamook County execute and deliver to the purchaser or purchasers, pro-per certificates of sale for said premises, and after the period for redemption required by law, that he execute the necessary Sheriff's deed or deed therefor; that the purchaser or purchasers at said sale may be let into the immediate possession of the premises herein ; and that the plaintiff may have such other and further relief in the premises as to said Coart may seem meet with equity and good This summons will be served on

you by publication thereof for not less than six successive weeks in the "Tillamook Headlight," a newspaper of general circulation published in the City of Tilla-mook, County of Tillamook, State of Oregon, the place where said suit is now pending, all by order of the Hon. Homer Mason Judge of the County Com* of said County and State, in the absence of the Circuit Judge of the above entitled court, which said order is dated the 16th day of February, 1914. The property herein referred to consists of all those certain lots or percels of land situate in the County of Tillamook and State of Oregon. and more particularly described as follows: Lot number one (1) and lot number two (2) in bloc : number six (6) of Norton's addition to Tillamoo's City, Oregon, as per the re- Tillamook . . . Oregos

The date of the first publication of this summons is the 19th day of February, 1914. The date of the last publication is the 2nd day of April, 1914.

JOHN LELAND HENDERSON, Attorney for plaintiff, New Bank Building, cor. 3d St. and 2d Ave. E.

Executor's Notice.

In the County Court of the State of Oregon for the County of Tillamook. In the matter of the estate of Matthew

Casey, deceased.)
Notice is Hereby Given,—By
the undersigned, Dennis A Brown,
Executor of the Estate of Matthew Casey, deceased, to the creditors and to all persons having claims against said deceased, to exhibit them with the necessary vouchers within six months from the first ublication of this notice to said Dennis A. Brown. at Tillamook County Bank, in the City of Tillamook, County of Tillamook, State

of Oregon.
This notice is published by order of the Honorable Honier Mason, Judge of the County Court within and for the County of Tillamook, tate of Oregon.

Date of first publication, March 5th, 1914. Date of last publication, April 2nd, 1914.

DENNIS A. BROWN. Executor of the estate of Matthew Casey, deceased.

Change in Water Collection. Water rents are now due and payable to the Collector at City Hall.

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