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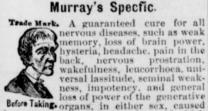
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VOL. III.

MºMINNVILLE, OREGON, OCTOBER 5, 1888.

NO. 24.

GREAT SALT LAKE.

S, A. YOUNG, M. D. SCIENCE AND INDUSTRY.

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DR. HAY'S THEORY.

How a London Chemist Would Dispose of Dr. George Hay, a London chemist, to the elements as soon as possible, He says: "The machines might be civilized world. contrived so as to break the bones first in pieces of the size of a hen egg, next into fragments of the size of a marble, How to Protect Yourself Against the Bite and the mangled and lacerated mass could next be reduced by means of chopping machines and steam power to mincemeat. At this stage we have body structure in the form of a pulpus mass of raw meat and raw bones. This mass should now be dried thoroughly by means of steam heat at a temperature of two hundred and fifty degrees, or a pressure of thirty pounds to the inch; because firstly, we wish to reduce the material to a condition convenient for handling, and, secondly, we wish to disinfect it, as no infectious or contagious disease can retain its vitality at this temperature. Once in this condition would command a good price for the purpose of manure. Another method is by boiling in close vessels. The oil which would rise to the top may be drawn off to be converted into soap or a lubricant. The residue may by various simple processes be converted into

fertilizing material." His final and most brilliant suggestion is the "distillation method." The bodies are to six hours will be converted into illuminating gas, water, ammonia, tar and animal charcoal. By subsequent distillations, such substances as sulphate of ammonia, aniline colors and corboiic acid may be obtained. It is this process which finds most favor with the writer. -St. Paul Pioneer-Press.

specific gravity, contracts in length, The insect known as the seventeen--There are 150,600 miles of railroad in the United States, or about half the mileage of the world. They have cost \$9,000,000,000, and employ -A Milltown, Me., mechanic has infully tested yet, but, if successful, will appears in some parts of the country be a great time-saving invention to nearly every year, and perhaps a few of the insects may appear anywhere, There is about one pound of iron during any summer, but the lineal dein the blood of seventy-five men, but seendants of each swarm appear only small as is the quantity-about one every seventeen or thirteen years. The hundred grains in each man-he could popular name of locust was doubtless not live without it, and he ought to derived from this appearance in large get it from his food, which obtained it swarms after long intervals of time. like the locusts of the East. In its per--A German authority attaches some feet state this harvest fly is of a black

-Attention has just been called in a prophecy is considerably weakened by 000 men, from 100,000 in Captain Cook's the ground, where they instantly bury days, must have disappeared by the year themselves by means of their fore feet. not to exceed 30,000 in numbers, and long period of growth, seldom burrowthere has been observed the phenome-

buildings, is well known. Waxed honeycomb by these insects, they ap-

are gradually becoming fewer.

phere, when free from foreign matter, can not hold electricity, nor serve as a conductor. The floating particles of Its magnificent steel track, unsurpassed train service and elegant dining and sleeping cars has honestly earned for it the tant element in the phenomena of a thunder stown the passage of which thunder storm, the passage of which The female has a complete digestive always leaves the air so clear and clean. The peculiar danger from lightning in than the male-and she feeds upon the Others may imitate, but none can surpass it a manufacturing town, with its smokeladed atmosphere, seems thus to be

scientifically confirmed. -A highly important industry is springing up in the United States, that of "muzzling" oysters, by which they can be sent long distances in their shells with perfect safety. Until recently, the general practice was to pack the raw oysters in ice, but a sudden rise of temperature is liable to render a whole week's supply useless. devour the larvae when they fall to the Oysters feed twice a day; and never open their shells except at feeding time. When taken out of their natural element, they attempt to feed at regular intervals, and so soon as the shells open, the liquor they contain is all lost, from the tree, and in this way the the air takes its place, and the first stage of decomposition sets in. As long as though forest trees bear it very well. the shells are closed, the oyster is The periodical nature of this insect fit to eat; it feeds on the liquor in the shell, and will thus keep in good con- a description of a seventeen-year advances a plan for the disposition of dition for a considerable time. To sethe dead bodies of human beings. He cure the keeping of the shells closed, advocates an economic distribution of a method has been invented of tying the remains, so that they may return ("muzzling") them with a stout wire, which can be done with great rapidity. if for no other purpose than to furnish and now arrangements are being made

A TIMELY REMEDY.

of Insects.

The following suggestions from "Medical Classics" will be appreciated by those whose lives have been made a burden out-of-doors by the bites of insects. The remedy is so easily obtain- viding line being about latitude 38 able, and so simple of application that no one need be unprotected: "Many people do not know how eas

ily they can protect themselves and their children against the bites of gnats and other insects. Weak carbolic acid. sponged on the skin and hair, and in some cases the clothing, will drive away the whole tribe. A great many children and a few adults are tormented throughout the whole summer by minute enemies. We know persons who are afraid of picnics, and even of Clothing is an imperfeet protection, for we have seen a child whose foot and ankle had been stung through, the stocking so seriously that for days she could not wear a leather shoe. All experience, and that we believe of ciously used. The safest plan is to keep or seven percent, and it may be added tor then sewed up the wound and This may readily and with perfect safety be applied with a sponge. We have no doubt that horses and cattle could be protected in the same way from record, and points out the blood spots

THE PERIODICAL CICADA. —Steel, when hardened, decreases in pecific gravity, contracts in length, importance to a troublesome silk spin- color, the edge and veins of its two ner of India—"Gricula trifenestrata" pair of wings being orange color.

from which an excellent fiber has Near the tips of the outer wings is

traordinarily productive, the living be- letter W, which the superstitious ing surviving two generations in one imagine indicates approaching war. year, and it forms a new and remarka- As this is seen on every insect, and as ble source of raw material for the silk some of the insects appear in some part of the country every year, the scientific paper to two races of men its frequent repetition. The eggs of this that must soon become extinct. It is cleada are deposited in the twigs of confidently predicted that at the pres- trees, the female piercing a hole to reent rate of decrease the Maoris of New ceive them. Here they hatch in about Zealand, now reduced to less than 45,- six weeks, and the young larvæ fall to 2000. The Laplanders are estimated They live in the ground during their ing more than three to four feet below -Following the disappearance of the the surface. They follow the roots of upper limb of the sun's disk at sunset. plants in their subterranean movements, and live upon the juices of these, aon of a beautiful green ray, its flash thus sometimes proving quite injurious being as rapid as that of lightning, and to vegetation. As the time of their only visible under rare conditions of transformation approaches they gradclearness of the sky. The explanation ually make their way to the surface of offered for its appearance is that of the the earth through long circuitous passimultaneous contrast of colors, the sages. They burst through the crust theory propounded originally by M. during the warm nights of the spring and early summer and ascend trees; -The frequent need of diffusing light and in a few hours the pupa skin in in the studios of photographers, either which they are enveloped breaks, and the reflection of colored light from high ground is often riddled like a

Pictures may this way be made as skin, the males perform the act of reproquickly as if there were no medium in- duction, and soon die. They have any thing in their brief lives. The refemale are fully developed on their birth into the winged form. The males carry over 500 sperm cells, and each female lays from 400 to 500 eggs. system-though she is smaller in size young foliage, but fortunately she lives twigs, laying about sixteen eggs in a hole, and continues her work until her eggs are deposited; by this time she is so exhausted that she falls from the tree and soon dies. It is fortunate, considering the great fecundity of this

insect, that ants and other flies feed upon its eggs, and that blackbirds, woodpeckers, frogs, toads and hogs ground upon being hatched, or are turned up in a half-developed state by the plow, also that it only appears at long intervals. The twigs punctured to receive eggs usually die and fall cicada does much harm to fruit trees, has been known for two hundred years, locust brood being on record as far

degrees, though in some places the

year broods run up considerably beyond it."-Chicago Inter Ocean. Marvelous Brute Sagacity. In Vanderburg County, Indiana, the other day, a horse was standing tied to a fence, when a drunken man deliberately plunged his pocket-knife into the dumb brute's neck. The gash was

a long one, and quite severe, and the terly. blood flowed from the wound profusely. their own gardens, on this account. The horse writhed in agony, and in its struggles broke the hitching rein and ran out of the lot. The horse kept up its speed down the road until it came to a drug store. The animal stalked into the store and went as far this can be avoided, according to our back as the prescription case and set many others, by carbolic acid judi- was alarmed, but spoke gently to the animal, and, taking a sponge, bathed be placed in gas retorts, and in about a saturated solution of the acid. The the ugly wound in cool water, much to solution can not contain more than six the relief of the brute. The proprieto water until the latter smells strongly. a band around the animal's neck. The horse was then led back, seemingly safety be applied with a sponge. We happy and contented. The druggist

WINNING MANNERS.

Why Young People Should Strive to Develop Lovable Ways.

The Largest Survivor of a Once Mighty Inland Sea. The law of attraction and repulsion The largest of the ancient lakes at year locust is not a member of the lo- There are some people from whom it is everywhere operative in society. present known is Lake Bonnville, the cust but of the cicada family, and it: is hard to keep away. They are social Lahonton. Lake Bonneville was situcorrect name is the harvest fly. The magnets, drawing every one to them. ated on the east border of the Great insect is remarkable chiefly for the They are never alone, because their Basin, principally in Utah, and exlength of time necessary for it to pass friends can't let them alone. In a comvented a log-sawing apparatus which from the larva to the pupa state- pany, they are encircled with devoted Utah-Idaho boundary 356 miles southhas an upward as well as a downward seventeen years in one species, thirmotion. The scheme has not been teen in another. The periodical cicada tively. Every motion is followed and Great Salt Lake, together with the the contrary, it needed suppression, it very often imitated. Your first im- Sevier and Escalante deserts in pulse, when you are under the same Southern Utah. It was 125 miles broad ate three square meals, stole most of roof with them, is to approach them and 1,000 feet deep, where Great Salt the lunch he was sent with to the harand enter into conversation. Every Lake is now situated. The site of the vest field, put away about three quarts word, every look and every motion is temple at Salt Lake City was then suban invitation to friendship. You find | merged 850 feet. yourself unburdening your heart to Lake Bonneville overflowed norththem and seeking their counsel. What ward and became tributary to Snake dozen mammoth tomatoes his grand-

an influence they exert on you! You river, which flows into the Columbia. even wonder how it is that you are so At various stages its waves and curposed I'd have to gallop five miles easily persuaded by them. How you rents formed terraces and gravel bars admire such people! How much you on the mountain slopes, which confined stomach-pump, or at least dive into the would give for such a power of person- it. These still remain as fresh and medicine chest after the Jamaica ginal attraction! What would you not perfect as when they were formed, and been obtained. This silk worm is exin this way! What is the secret of it the geologist has been able to deterall? Well, we must recognize the fact mine the history of the ancient lake. that there is a personal magnetism We know that it rose with many flucabout some people which is a natural tuations until it had a depth of nine endowment. All have not the same hundred feet, but did not overflow. attractiveness of face or form, nor Then a change of climate caused it to was a bad boy myself; my son was have all the same unconscious drawing contract its borders, and possibly to worse than I was; but that boy of his power. But, while this drawing force become completely desiccated. In the in part a gift of nature, it is very lower stages of this desiccation it was never believed in total depravity, but largely the product of cultivation. broken into separate water bodies, I believe in it now. He must have been Winning ways are usually developed. which must have been more or less It is not always perfectly natural to saline. exhibit grace of manner. But it is Anot Another great climatic change caused perfectly possible to cultivate attract- the basin to be refilled to a higher reness of manner, and studious watch- level than ever before and to overflow. fulness with earnest effort will do a The water found an outlet at the north great deal to make one attractive. How | end of Cache valley, Idaho, and, as we much better it is to attract than to re- have said, became tributary to the pel! No one likes to feel that they are | Columbia. The lake continued to overdisliked or even unthought of. But flow until the waters had cut down the how many there are whose influence is outlet 370 feet. During this period, comparatively insignificant simply be- unless there were some peculiar condiouse they do not cultivate personal at- tions near the point of discharge, the tractiveness. It is worth thinking about lake must have been fresh. The disand working for. We ought to do charge of the lake was finally stopped very thing in our power to add to our by a climatic change which lowered its nfluence. There are a great many surface below the bottom of the outlet, things which some people are inclined and again the basin became partly if to ignore which have a determining not wholly desiccated. This second from the direct rays of the sun or from the perfect insect comes forth. The power in the matter of personal induence. Among them we would men- present day, and Great Salt and Sevier tion personal appearance. We are aclakes are the representatives of ancient paper of the tissue sort, is now believed to be one of the best mediums for this purpose, since it allows a large of great injury to vegetation, but forpercentage of light to pass, the latter tunately their existence is but epheme. It is quite the fashion to accuse the In 1850 it covered 1,750 and in 1869 eing at the same time equally diffused. ral. After emergence from the pupa young man or young woman who gives 2,166 square miles. Its maximum depth some attention to dress and personal is about fifty feet and its mean depth I glided behind a tree and watched. appearance generally of being proud approximately fifteen feet. These re- I chuckled. I rubbed my hands; my scarcely a trace of digestive apparatus, or vain. It is not strange therefore cent changes in area are due to small -Experiments made by electricians and it is supposed that they do not eat that young people who are continually variations in climate, similar in character to the changes which produced

productive organs of both male and tion to their appearance and dress, the great expansions and contractions should come to feel that there is a of the lake in ancient times. With sort of virtue in ignoring these things change in volume there is change in altogether. But such is not the fact. density; that is, the strength of the in mourning, there was a lump on his It is quite as reprehensible to be brine increases with decreased area, forehead as big as a goose egg, and his slovenly or uncouth, as it is to be vain. and decreases when the lake expands. In fact of the two evils the latter is the In 1850 its waters contained about least. But there is no necessity for twenty-two parts, by weight, of saline either extreme. Having made your- matter in solution to one hundred young foliage, but fortunately she lives either extreme. Having made your matter in solution to one hundred coming this summer. Now, what am but a few weeks. She bores into small self as attractive as possible in your parts of water. In 1869 the saline I to do? I'm too brave to commit suipersonal appearance, let your conduct matter had decreased to a little less be affectionately winning. Be grace- than 15 and in 1874 to a little more ful in movement. Be studiously carethan 14 per cent. This change in ful of the feelings of others. A consalinity was accompanied by increased

multiply your usefulness .- Rev. A. Z Conrad, in Christian at Work.

stant inquiry as to how you can best

promote the happiness of others will

develop winning ways and indefinitely

ORIGIN OF PETROLEUM.

The Plausible Theory Advanced by a Dis-tinguished Russian Chemist. The origin of petroleum has been explained both on the organic and inorganic theory. The commonly accepted view which is held by many American geolointernal heat of the earth. Others con- and transparent, but as cold weather sider that it has been formed directly back as 1633. But it remained for the tions, and that its existence is in no sodium-sulphate in an extremely fine present entomologist of the United States, Professor C. V. Riley, to distheir appearance, that one of the Russian chemist, has recently advanced broods to the Southern States, the di- the hydrogen, forming the hydrocar- salt in Utah a practical method of seventeen-year broods extend below this line, while in Illinois the thirteenmost important practical point of this sulphate. Lake Sevier is also highly going on, so that we need have no fear Overland Monthly.

of the supply becoming exhausted.

She Felt Sorry for Him. A young Texas lady of violent temper, just about to be married, was man. found by a friend to be weeping bit-

"Why do you weep, Fanny?" "I just can't help it," replied the obbing bride. "But your future husband is one of

the very best men in the world." "I know it, and that's what makes up a most pitiful neighing. The clerk after we are married, I'll be snatching Pittsburgh Chronicle, his hair and twisting his ears. The poor man hasn't got the least idea of the fate that awaits him." And once more the eyes of the kind-hearted woman filled with tears, and her chin quivered like a bowl of calf-foot jelly.

-Texas Siflings. -A lady of Mississippi has sold more THE TELEPHONE.

RATES OF ADVERTISING.

Professional cards, \$12 per your. Special rates for large display "ads."

TOTALLY DEPRAVED.

An Old Deacon's Description of "That Grandson of His."

He arrived at the farm-house before breakfast. He came from the city. was fourteen years old, and looked

thin, scrawny and dudish. "Poor boy," my wife said, "I must get up something to tempt his appe-

The events of the day showed that a twenty-pound melon, and sat on the shed after dark and demolished a across the country at midnight for a

tiate and cavernous as ever. A more mischievous boy never came

under my observation. Pure cussedbeat all creation. I'm a deacon, and beyond redemption before he was boru.

He threw the cat into the well; he pulled out the peacock's tail; he stole the eggs from the setting hens; he fired squibs into the bee-hives; he fed the pigs paris green; he crushed tenpenny nails in the corn-sheller; he-well. there's no relating what he didn't do.

Wasn't he hurt any? A little. He fell from the top of a barn; a mule kicked out two of his teeth; the cornsheller took off a thumb-nail, and the bees punctured his anatomy right lively. But it didn't abate his evil propensity; it scarcely disturbed his se-

renity. One afternoon I saw him quarreling with one of the Scroggin boys. I knew what would be the upshot of that. The Scroggin boy was as tough as a dog-wood knot; he 'was a fighter from way back; he would give that frail-looking city boy, that dudish grandson of mine, a terrific trouncing. He'd wipe up the ground with him:

he'd walk all over him. The hour of my revenge had come. eyes snapped with pleased anticipation.

They got to blows, but things didn't Scroggin boy crawled home the worst whipped boy you ever saw. His nose was split like a peach, his left eye was off-leg limped painfully after its mate.

That was last summer. Yesterday I received a letter announcing that he is cide and it would be mean to run away. I'll shut my teeth hard and possess my soul in patience, if I can. If I can't, I'll resign the office of deacon, and give free outlet to my pent-up feelings .- Detroit Free Press.

A PECULIAR AILMENT.

The Sight-Seer's Headache the Result of Continued Observation. six times as saline as' the ocean. Like the ocean, too, it holds many sub-Of the lighter penalties which pleasstances in solution; the principal ones ure entails none probably is more are common salt, or sodium chloride, widely known and felt or more perand sodium sulphate; besides these sistently endured than the sight-seer's there are small percentages of potasheadache. It is nature's tax levied on the comfort of that great body of busy The influence of temperature on the idlers to which we all at some time or solubility of certain saline substances other belong. It is endemic among gists, is, that it has been formed by the is well illustrated by this dead sea of the frequenters of museums, picture distillation of organic remains by the Utah. In summer its waters are clear galleries and exhibitions. The very general prevalence of this variety of comes on it becomes milky or opales headache, and its independence in from its elements by chemical reac- cent, owing to the precipitation of many instances of any vitiation of atmosphere teach as to look for its explanation in other causes. The effort of mind implied in long-continued obcover, by comparison of the dates of fessor Mendelejeff, the distinguished phere above the lake falls far below servation, even though this does not freezing, an immense quantity of involve the strain of study, has probaif for no other purpose than to lurnish and now the strain of study, has probaa fertilizer. Dr. Hay would pulverize for dispatching American oysters in
for dispatching American oysters in
their appearance, that one of the
cicada species had a period of transtradeum which is of considerable intertradeum which is of cons a fertilizer. Dr. Hay would pulverize the body with the aid of machinery. their natural condition all over the formation five years shorter than the troleum which is of considerable inter-thrown ashore by the waves until influence. Fatigue certainly has an other. Prof. Riley published in 1885 est. Briefly stated, he believes that thousands of tons accumulate on the important share in its production; but a chronological statement of all the in the interior of the earth iron is beach. When the temperature rises it is with most persons rather fatigue periodical cleada broods that had been present in large quantities, combined the salt thus precipitated is again dis- of muscle than brain. The maintenrecorded up to that year, giving dates with earbon in the form of a carbide. solved. This natural process of fracof their future appearance. He says Now, when water from the surface tional crystilization produced by a several hours of languid locomotion. that in general terms "the seventeen- reaches this heated carbide of iron the lowering of temperature is instruct- and varied and frequent movements of year broods may be said to belong to oxygen combines with the iron, rethe Northern, and the thirteen-year placing the carbon, which unites with the iron, replacing the carbon, which unites with the iron, replacent the iron

rection, and the similar and equal restbons of which petroleum and natural treating the natural brines in order to shifts at every turn as a new object prelessness of eyes whose focus of vision gas are principally composed. The obtain common salt free from sodium sents itself form a combined series of theory is, that, if true, the formation of saline, and during the arid season than the sunlight and frequent changes forces more powerful in this respect these substances may be continually sometimes evaporates to dryness.— of mental interest and attention by which they are accompanied. The muscular strain implied in these movements is necessarily very considerable. It af-Jones-I say, Smith, I understand ects more or less every member of the that Brown is something of a literary body, but the distant localization of the resulting ache has probably much to do Smith-Literary man, yes. Why, with the usual activity of the cervical Brown writes for the waste baskets of extensor and rotator muscles and of some of the leading newspapers and the muscles which move the eyeball. magazines in the country .- N. Y. Sun. Whatever the minor influences at work, therefore, there can be little -"I notice," remarked Amy, "that doubt that mere fatigue is primarily the milk shake is making a heap of fuss | accountable for this most general form now " "Yes," replied the High School of headache, and that rest and nourme cry. I've got such a tender heart girl, "the lacteal agitation is responsi- ishment are most reliable antidotec. that it makes me weep to think how, ble for considerable perturbation."- The utility of stimulants for this purpose is necessarily temporary and deceptive. One improvement on exist--It is said that kissing was intro- ing arrangements ought to be of real

duced into England by Rowena. There assistance to the suffering sightseer if are lots of fellows who would like to more generally introduced by responsubscribe \$5 for a monument to Rowena sible authorities. The comparative -Burlington Free Press. scarcity of seats in many places of amusement has often been noticed. It -The direct action of steam at two

-A lady of Mississippi has sold more than \$1,000 worth of pecans from a cient to destroy all germs in from five to could be protected in the same way from the flies which sometimes nearly mading the fl

A Literary Genius.

The waters of the ocean contain 3-10

per cent. of total salts in solution.

Great Salt Lake, therefore, in 1850, was

sium, magnesia, etc.