

SCIENTIFIC MISCELLANY.

Gas Bubbles in the Earth's Crust—Strangeness of Dustless Rain—Heat from Different Lights—Artificial Respiration by Ice—Progress in Utilizing Peat—Disease and Its Treatment—Heat-Sitting Glass.

Some effects of the expulsion of gases from the interior of the earth were dealt with in an address by Prof. N. S. Shaler, of Harvard, to the Geological Society of America at its Springfield meeting. Wherever gases are generated in a liquid or semi-liquid mass, the pressure is diminished over a given bubble, developing a "chimney" up which a series of bubbles may rush. There is much water in rocks and much more in soft strata. Mud lump springs along river bottoms and particularly along the Mississippi are due to discharges impelled by the liberation of gases. Outbreaks of gases follow earthquake shocks. Hundreds of blow holes or "shock fountains" were formed along the Ashley River after the great Charleston earthquake, ten years ago, these holes being from 10 inches to 3 feet in diameter. The liberated gas was found to have come from a stratum about 50 feet below the surface. Very large and strong shock fountains, 100 feet in diameter and throwing mud to a height of 200 feet, were formed along the Mississippi River during the earthquakes of 1811 and 1813. A volcanic eruption works on the same principle.

The influence of dust on rainfall was noticed during a trip to Greenland last summer by Prof. Wm. H. Brewer, of the Sheffield Scientific School. The fogs progressively thinned toward the north; and, owing to the small amount of dust in the air, the rain, even when falling in such quantity as quickly to drench one, was extremely fine, appearing like a very thin fog. Another effect was the absence of that bluish haze which softens and beautifies a distant view in lower altitudes.

An electrical engineer finds the relative quantity of heat given off by different forms of light to be: Arc light, 4; incandescence, 14; kerosene, argand burner, 331; gas, argand burner, 380; candle, 473; gas, butterfly burner, 511. In the matter of vitiating the air, electricity, of course, compares even more favorably with other sources of light.

A new and remarkable method of artificial respiration is described in a French journal by Dr. Berthold Beer. The mucous membrane of the lips and of the mouth is rubbed slowly with a piece of ice, the rhythm of the motion corresponding as much as possible to that of normal respiration. In the cases observed by Dr. Beer the result was a return of respiration, very strong at first, but, with the continued application of the ice, becoming very regular, quiet and deep. The ice, moreover, is said to have a general sedative effect, and to have been successfully employed in cerebral troubles. Two cases of asphyxia have been treated in this way by Dr. Foges, of Vienna, with equal success. The method is harmless for the patient and easy for the physician, so that it may be employed for several hours at a time.

Important industries are being gradually evolved by the attention that has been given to peat during recent months. The extensive tract of peat land near the English town of Ramsey is being opened up, and great factories are to be built for converting the substance whose waste has been so deplored into valuable and wonderful products. It is found, surprising as it seems, that the peat fiber can be bleached to snowy whiteness, while it will dye any color. It can be woven into cloth, varying in texture from the finest flannel for underwear to the coarsest matting, it is made into a marvellous antiseptic "wool" for surgical use, and it can be compressed into a material for pianoforte legs, or even machine bearings, axle-boxes, etc.

A curious industry, to which the attention of the United States Fish Commission has just been directed, is that of the artificial propagation of alligators to supply the trade in Florida curiosities. The hatching is effected in a very simple incubator. The eggs, about the size of those of the goose, are covered in sand in boxes which are exposed on a roof to the rays of a tropical sun, the young reptiles appearing in a few days.

Bed-bugs, unlike the house-fly, are found fossil, proving them to be an old insect. Four species are now known. These species are parasitic respectively upon the swallow, the pigeon, the bat and man. The old notion that bats bring bed-bugs is not entirely unfounded.

Even now disease is very imper-

fectly understood, and physicians are groping in a dim light in their search for means of curing it. In the treatment of organic or structural diseases, as of the nervous system, the blood-vessels, and various vital organs, the fact, says Modern Medicine, is quite generally overlooked that the structural change is a consequence and not an actual disease. The real disease is the morbid process which has resulted in the tissue change. The researches of Bouchard and other modern investigators have thrown great light upon this subject, and have placed upon more than probable grounds the theory that the presence in the blood and tissues of various morbid substances of a toxic character, such as uric acid and various leucumains and ptomaines, originating in the tissues as the result of imperfect oxidation or absorbed from the alimentary canal wherein they are produced by microbial action and morbid digestive processes, constitutes the real morbid entity in a large number of organic or structural maladies, especially those of the nervous system and kidneys. In the treatment of these affections, it is, then, of the utmost importance that the physician should look carefully after the processes of digestion and respiration. These are the two great means by which the blood is to be purified. The exclusion from the dietary of poisonous substances and of such food substances as readily undergo putrefactive processes in the alimentary canal, and the introduction of an increased quantity of oxygen whereby the poisons resulting from morbid tissue changes may be destroyed by oxidation, constitute the most important measures for combatting the onward march of an organic affection. An ideal mode of treatment will necessarily include both remedies aimed at the morbid tissue itself and measures which strike at the root of the disease. Bacteriology and physiological chemistry are opening up for us almost daily new lines of thought, new methods of treatment, and new possibilities of cure.

About 86 per cent of the sunlight passes through ordinary window glass. A German inventor claims, however, that his new glass sifts out nearly all the heat rays, but is perfectly transparent to light. A plate of the material 4-10 inch thick, containing 28 per cent of iron in the form of ferrous chloride, allowed only 4.06 per cent of radiant heat to pass through it, while another plate of equal thickness, having quite as much iron in the form of ferric chloride, permitted 11.2 per cent to pass.

In a recent letter to the manufacturers Mr. W. F. Benjamin, editor of the Spectator, Rushford, N. Y., says: "It may be a pleasure to you to know the high esteem in which Chamberlain's medicines are held by the people of your own state, where they must be best known. An aunt of mine, who resides at Dexter, Iowa, was about to visit me a few years since, and before leaving home wrote me, asking if they were sold here, stating if they were not she would bring a quantity with her, as she did not like to be without them." The medicines referred to are Chamberlain's Cough Remedy, famous for its cures of colds and croup; Chamberlain's Pain Balm for rheumatism, lame back, pains in the side and chest, and Chamberlain's Colic, Cholera and Diarrhoea Remedy for bowel complaints. These medicines have been in constant use in Iowa for almost a quarter of a century. The people have learned that they are articles of great worth and merit, and unequalled by any other. They are for sale here by O. M. Royster Druggist. 36-4t

A Great American Question.

Had southern statesmen 50 years ago not been so bent on securing an extension of slave territory and the administration of Polk not been in sympathy with them, there would not now be any Manitoba question to disturb the cabinet of Premier Bowell and make the outcome one of suggestive speculation from our side of the line. Had the Democratic cry of "Forty-four forty or fight" been carried into our foreign policy, what is now Manitoba and the provinces to her west would have been either states or territories of the United States.

The conviction is deep that events are rapidly ripening for the absorption of Canada by the United States.—St. Paul Globe.

Give the boy all the mental equipment you can; if he finds himself inclined to follow some other life work than farming no matter. He would not then make a good farmer, possibly. Fit him for the battle of life the best you can. This is better than to leave the children gold over which to quarrel. The uneducated young man, left with a lot of property, is to be pitied.

Iron is good for the blood, but no man likes to have it administered in the form of carpet tacks.

HERE'S PICKLE AND HOT SHOT.

Boasted Policy of Civil Service Reform A Snare and Delusion—Cabinet Officers Leading in Offensive Partisanship.

DENVER, Col., September 8.—In a published letter replying to criticism of Frank P. Arbutle, chairman of the Democratic State Committee and receiver of the land office, which accused him of disloyalty to the Democratic party, S. S. Thomas member of the National Democratic Committee for Colorado, says:

"If the party in national convention construes Clevelandism to be synonymous with Democracy, it needs no prophet to forecast its certain fate. If the men who rose into power upon its greatest tidal wave have in two short years wrecked its fortunes and laid its face in the dust are to be commended for their accomplishments, then is Ichaabod written upon our party's future. I have criticised this administration. I shall continue to do so as long as it continues to trample the party principles under foot. I have said and probably will say, that it has repudiated every plank in the platform. Even the President's boasted policy of civil service reform is a by-word among all men. During his first administration Mr. Cleveland removed a district attorney in Missouri because he was trying to manipulate a party caucus. At present his secretary of the interior, who in 1890 openly advocated the sub-treasury scheme of the Farmers' Alliance, is now beginning in Georgia to cast his vote for 'sound' money and is encouraging his subordinates by his example to run the machine everywhere.

"It may be that I do not possess in any way the confidence of the National Committee, for months have passed and I have had no word from any of them. Possibly you may have had. I can only say that so far as I know my relations with all of them are pleasant and because if I propose to be a Democrat in spite of the administration and its syndicates, I have offended any of these gentlemen, I shall not, much as I regret the fact, make any explanation. I am meek enough to believe that I truly represent the Democracy of Colorado, and that, after all, is my chief concern."

Did You Ever Think.

That a kind word put out at interest brings back an enormous percentage of love and appreciation?

That though a loving thought may not seem to be appreciated, it has made you better and braver because of it?

That the little acts of kindness and thoughtfulness day by day, are really greater than one immense act of goodness shown once a year?

That to be always polite to the people at home is not only more ladylike, but more refined, than having "company manners"?

That to judge anybody by their personal appearance stamps you as not only ignorant, but vulgar?

That to talk, and talk, and talk about yourself and your belongings is very tiresome to the people who listen?

That to be witty (?) at the expense of somebody else is positive cruelty many times?

That personalities are not always interesting, and very often offensive?

That the ability to keep a friend is very much greater than that required to gain one?

That if women would allow their friends to enjoy themselves in their own way there would be fewer stumbling blocks in life?

That if the girls all over the world were to form societies of one, each being her own president and house committee, and secretary and treasurer, and make kind words the currency, considerate actions the social functions, and love the great aim, that the whole world would be sweeter and purer for it? Just form one society where you are, and see what a great success it will be.—Ladies' Home Journal.

Agamemnon's Tomb.

Schliemann's greatest discovery was at Myceanae, where he found the tombs of Agamemnon and his companions, who, according to tradition, were murdered by Aegisthus and Clytemnestra at the close of the Trojan war, B. C. 1183. He found five sepulchres, all containing bodies, evidently the remains of very distinguished persons.

There stands in Berkely Springs, W. Va., on Washington street, a stately elm, which was planted by General Washington in 1776, when the town was laid out. It is the only one left of three planted at the time by the Father of his Country.

Eighty millions of dollars is the amount paid to school teachers in the United States.

Church Membership.

"Can't I live a Christian out of the Church?" Yes, my young friend, just as easily as you can make a fire with one stick. Look at the wood fire. There must be three or four sticks to make a good fire. Now, take those blazing sticks out of the stove, and put them singly on the ground, and see how quickly they are black and dead.

Jesus said, "where two or three are gathered together, there I will be in the midst of them." He did not mean that you will have to go to church services always to have His blessing. But you need the fraternity of at least two or three. Jesus knew best when He organized the Church. We have learned a great deal, doubtless, but we haven't got beyond His wisdom. He will never get out of date. "The heavens may wax old, but He remaineth."

You have but to look about you. Others have tried what you propose. They have failed; so must you. What you might do in theory is not of much consequence. What you will do in practice is the question. You need the Church help, and you will fail without it.

I have no doubt the Church and preacher are sometimes to blame for the question. They often tell young people, "You are needed so in the Church." Let me assure you, you need the Church much more than the Church needs you. Israel conquered without Meroz; but Meroz perished without Israel. But why don't you want to "join the Church?" Look me straight in the eye young person, and tell me whether it is not because you want to shirk your legitimate burdens? Is it not because you want the burdens of the work to be on other shoulders than yours? Or is it because you do not wish to be responsible to the Church for your good conduct? What reason could any one have who wishes to live a real Christian life?—The Outlook.

Truth is Tough.

Said the late Oliver Wendell Holmes: "Truth is tough. It will not break, like a bubble, at a touch; nay, you may kick it about all day, like a football, and it will be round and full at evening." This is why gospel truth endures the assault of the ages. Infidels have been kicking at it ever since it was proclaimed, but it is so tough that it hurts their heels without being itself hurt. Faint hearts have feared lest the truth should suffer from infidel attacks, but their fears are groundless. Not till men can kill God, can they kill his truth. Firmer than the stars, stronger than the mountains, the truth of God will abide forever.

The city of Berlin possesses a large number of important Luther relics. In one of its museums is to be seen Luther's well-preserved Latin Bible, which was printed at Basel in 1509 and which contains marginal notes in Luther's own hand. There are also numerous editions of Bible translations, old hymn books containing Luther's hymns, and also the principal and best writings of the man of God, Doctorus Martini Lutheri. This latter work is by Nicholas Voltz, and was printed by him in 1589 in the Grauen monastery in Berlin for the Margrave of Brandenburg. In the Knight's hall of the royal castle there is preserved the rock crystal chandelier, purchased for the sum of \$18,000, under which Luther stood before the German princes at the Diet of Worms. The Hohenzollern Museum contains a goblet and a death mask of the Reformer.

It is at the feet of woman we lay the laurels that without her smile would never have been gained; it is her image that strings the lyre of the poet, that animates the voice in the blaze of eloquent faction, and guides the brain in the august toils of stately councils.—Beaconsfield.

The Ferris wheel is being put up again in Chicago, and will be ready for business this fall.

A CLEAR HEAD; good digestion; sound sleep; a fine appetite and a ripe old age, are some of the results of the use of Tutt's Liver Pills. A single dose will convince you of their wonderful effects and virtues.

A Known Fact. An absolute cure for sick headache, dyspepsia, malaria, sour stomach, dizziness, constipation, bilious fever, piles, torpid liver and all kindred diseases.
Tutt's Liver Pills

In Poor Health

means so much more than you imagine—serious and fatal diseases result from trifling ailments neglected. Don't play with Nature's greatest gift—health.

Brown's Iron Bitters

It Cures
Dyspepsia, Kidney and Liver Neuralgia, Troubles, Constipation, Bad Blood, Malaria, Nervous ailments, Women's complaints.

CLINTON A. CILLEY
ATTORNEY AT LAW,
HICKORY N. C.

Practices in the courts of this and adjoining counties, also in the Federal courts. mch 8 1y

W. L. LOWE
HAS the largest stock of Musical Instruments in North Carolina, and his prices are the lowest. Come to see me. Orders by mail have prompt attention. Address
W. L. LOWE, Newton, N. C.
May 9, 1895.

NOTICE.
I WANT every man and woman in the United States interested in the Opium and Whisky habits to have one of my books on these diseases. Address B. M. Woolley, Atlanta, Ga. Box 392, and one will be sent you free.

Chamberlain's Eye and Skin Ointment
Is a certain cure for Chronic Sore Eyes, Granulated Eye Lids, Sore Nipples, Piles, Eczema, Tetter, Salt Rheum and Scald Head, 25 cents per box. For sale by druggists.

TO HORSE OWNERS.
For putting a horse in a fine healthy condition try Dr. Cady's Condition Powder. They tone up the system, aid digestion, cure loss of appetite, relieve constipation, correct kidney disorders and destroy worms, giving new life to an old or over worked horse. 25 cents per package. For sale by druggists.

OF COURSE YOU WANT THE BEST OF COURSE YOU WANT The Cheapest. Well, When You Want THE BEST GRADE OF Job Printing LOWEST PRICES.

Send us your order—it perhaps will save you money, and we guarantee to furnish you as FINE WORK as is done anywhere. Call and see samples, or send us your orders by mail. This is no idle tale—we mean what we say—we will furnish you

THE BEST WORK THE LOWEST PRICES.
Address
HICKORY PRINTING CO.
Hickory, N. C.