

the ship produces an alternate rise and fall of the quicksilver, creating thereby a vacuum, in- to which the bilge-water rushes and is pumped out at the vent in a continuous stream. The cy- linders which expel air are filled with water; but their action is the same as here described.

AN EXTINCT UNOULATE.—Recently in his opening lecture, Professor Flower mentioned a new ungulate animal from the Eocene beds of the Rocky Mountain region, which has recently been discovered by Professor Marsh, of Yale College. This animal attained nearly the size of an elephant. It had a largely-developed supra-occipital crest, which projected backwards beyond the occipites. There were osseous cores for three pairs of horns. The posterior horns were attached to the supra-occipital crest, the median arose from the maxillaries, and the anterior from the tips of the nasals. The upper incisors were wanting and the canines were greatly developed. The skull was long and narrow, and there were six small molar and premolar teeth. The extre- mities were short, but resembled those of the proboscidea. There was no third trochanter of the femur, and no pit for the ligamentum teres. Professor Marsh calls this animal the *Dinocoeras mitrobatis*. It seems to have had characters allying it with perissodactyls as well as with proboscidea.

THE MOON.—If the atmosphere of the moon really exists (says the *Engineer*), its density is less than 2000th part of the density of the earth's atmosphere. Such an atmosphere would be more attenuated than the vacuum which is obtained, under the best conditions, in the most perfect air-pumps. The refraction, or rather non-refraction of stars, is the means by which this determination is obtained. All observations hitherto made tend to prove that water in any form does not exist on the moon's surface. But it has been considered that it was once present there, and indeed traces of aqueous or glacial action are by some considered to be evident. What then has become of the water? Assuming the solid mass of the moon to contract on cooling at the same rate as granite, its refrigeration, through only 180° Fahr., would create cellular space equal to nearly 14½ millions of cubic miles, which would be more than sufficient to engulf the whole of the lunar oceans, supposing them to bear the same proportion to the mass of the moon as our own oceans bear to that of the earth. If this be the present condition of the moon, we can scarcely avoid the conclusion that an ocean can only exist on the surface of a planet as long as the latter retains a high internal temperature.

GOLDEN GRAINS.

KINDNESS is stronger than the sword.

CHILDREN are the to-morrow of society.

THE man that speaks plain truth is a cleverer fellow than he is generally taken for.

EVERY man deems that he has precisely the trials and temptations which are the hardest of all for him to bear; but they are so because they are the very ones he needs.

A LOVING HEART and pleasant countenance are commodities which a man should never fail to take home with him. They will best season his food and soften his pillow.

FALSE HAPPINESS renders men stern and proud, and that happiness is never communicated. True happiness renders them kind and sensible, and that happiness is always shared.

MARRIAGE is altogether too momentous a matter to be decided upon precipitately. Better never marry than to marry a person with whom it is not morally certain that you can live happily.

A BEAUTIFUL form is better than a beautiful face. A beautiful behavior is better than a beautiful form. It is more to be admired than the beauties of nature or of painting. It is the finest of the fine arts.

How often a sound night's sleep changes our feelings towards those who differ from us. And how cautious, after this experience, should we be in our hasty, ill-digested denunciations of the conduct and opinions of others!

If a seaman should turn back every time he encounters a head wind, he would never make a voyage. So he who permits himself to be baffled by adverse circumstances will never make headway in the voyage of life.

A GOOD WIFE, a true woman, is a real heroine. She puts her own grievances out of sight, to drive away, with pleasant smiles the clouds that gather around her husband's gloomy brow; she pours oil on the troubled waters of her own soul, that she may soothe his sorrow.

"I RESPECT," says Goethe, "the man who knows distinctly what he wishes. The greater part of all the mischief of the world comes from the fact that men do not sufficiently understand their own aims. They have undertaken to build a tower, and spend no more labor on the foundation than would be necessary to erect a hut."

SMILES.—What sunshine is to flowers, smiles are to humanity. They are but trifles, to be sure, but scattered along life's pathway, the good they do is inconceivable. A smile accompanied by a kind word has often been known to reclaim a poor outcast and change the whole career of a human life. Of all life's blessings none are cheaper or more easily dispensed than

smiles. Let us not, then, be too chary of them, but scatter them as we go, for life is too short to be frowned away.

SOWING WILD OATS.—Of many a young man to-day whose life is irragrant, if not flagrant, criminal, fond friends are saying, "Oh, he is only sowing his wild oats." Sowing his wild oats, indeed, but not in the sense intended, not in the sense of burying them, but sowing them as the terrible seed of a more terrible harvest. It is false, parents, that such a youth has rich promise in it. It is false, young man, that you can transgress great moral laws and form vicious habits, and on arriving at manhood cast them off as easily as you can change your dress. The law is that you will reap in maturity what you sow in youth; that and not something else.

RETIRING FROM BUSINESS.—Says Dic Lewis, retiring from business, common and popular as it is, is a great humbug. No man should retire from business until he retires to his grave. When his faculties become slow and dull from age, he should reduce the number of hours in his daily work—reduce them just as his strength declines; but in no case should he change his occupation or drop it unless disease actually compels him. He may purchase an estate in the country, to which he retires at an early hour in the afternoon, and he may postpone his morning arrival till two or three hours after the younger people have begun, but he must not quit or make a radical change. We know of nothing more sure to lead to dyspepsia, insanity and suicide than retiring from business.

MISCELLANEOUS ITEMS.

WEDDING-CARDS are now made very long and narrow.

THE discovery of another Swedish nightingale is announced.

A WOMAN in Iowa is clamorous to be made State Treasurer.

THERE is a town named Embarrass in Wisconsin, and just now it is more than ally embarrassed by the destruction of its school house by fire.

AN extensive reading of newspapers seems to show that the word lose is more often misspelled than any other. The types exist upon doubling the o.

PRINCE FREDERICK CHARLES of Prussia has commenced a tour of inspection through the newly acquired provinces of Germany. He goes to Metz in the first instance, and after inspecting this fortress and those adjacent, will proceed to Strasburg.

A LETTER from Zanzibar, dated February 12, states that Sir Bartle Frere's mission to the Sultan has failed. The Sultan refuses to make any concessions beyond those contained in the treaty of 1846, and is said to have sent to the British Envoy a reply which "rendered further negotiation with him not only useless but also derogatory." The correspondent of the *Pall Mall Gazette* attributes the Sultan's obstinacy to the influence of the French consul.

AMUSEMENT.—Here is a new way of spending the long winter evenings, when home amusement of some kind is in demand. After you've all read the paper and are tired of talking seriously, try "blowing cotton" for a little fun. Let as many as may sit around a table, with hands folded and arms extended along the edge of the table, each person touching elbows with his neighbor on each side of him, take a small piece of common cotton batting picked up to be as light and airy as possible. Put this in the centre of the table. Let some one count one, two, three, and then let each one blow his best to keep the cotton away from himself and drive it upon some one else. The person upon whom it alights must pay a forfeit. No one must take up his arms to escape the cotton. When it alights, take it up and start anew. It will be a very sober set indeed who can play two or three rounds without indulging in uproarious laughter.

HINTS TO FARMERS.

SWINE.—If you have a good breed of pigs, take good care of them; feed the young growing stock all they will eat—corn-meal, bran, mangels, small potatoes, and milk. Nothing comes amiss. Vary the food. Keep the pens clean, dry, warm, and comfortable. If you have not a good breed, now is the time to order a pair or two of spring pigs from some responsible breeder.

SHEEP.—Damp, dirty yards and sheds are an abomination to sheep. During dry, warm days the sheep will do better on a dry, old pasture than in the yards, but during storms they must be provided with shelter from the rain. Feed all the hay the sheep will eat up clean. If the sheep have had grain during the winter, continue to feed it moderately. It will enable the ewes to give more and richer milk. Let them have access to fresh water, and give salt daily.

THE VALUE OF ARTIFICIAL MANURES.—The chemistry of agriculture has some curious inconsistencies, which are rather hard to explain. For instance, it is well known that superphosphate of lime and bone-dust are valuable applications to turnips, and yet this crop contains but a small proportion of phosphoric acid; while wheat, of which the grain is rich in this substance, often receives no apparent benefit

from a dressing of these manures. So that, after all, it is not probable the chemist will soon be able to write a code of laws for our guidance in farm operations, and yet we cannot afford to ignore his services altogether.

CHANDLER'S SCRAPS FOR FOWLS.—The cheapest and handsomest substitute for insects which can be provided as poultry feed, is scrap-cake from the candle factories. Butcher's waste, such as calves plucks and the like, procured fresh, costs more, because it contains so much water. But scraps are very dry and concentrated. Generally they are so thoroughly pressed that not enough fat remains to be at all objectionable. Animal food of some sort or other is indispensable if fowls are to be kept in perfect thrift, and Chandler's scraps not only furnish the needed supply, but are also cheaper than grain. One pound of scraps cost as much as two of grain it is true, but it contains more available nutriment than three pounds of the latter. Analysis gives a much less value to meat as an article of food compared with grain, than is proved by actual practice. In the case of the diet of either man or the lower animals, it is not so much what the food contains as what may be readily digested and assimilated, that determines its value. The best way to prepare scrap-cake is to chop it with a hatchet or cleaver in pieces of the size of a walnut, and soak in water for twenty-four hours, after which mince fine using a large wooden box instead of a chopping-bowl, and a sharp spade in place of a knife. Meat, bran, and washed potatoes being added, the mass will contain the three essentials, meat, grain, and fresh vegetables.

HUMOROUS SCRAPS.

A TABLE OF INTEREST.—The dinner-table.

NEARLY all women like soldiers, and some like a offer, sir.

MACHETH TO BAD MOCK TURTLE—"Unreal mockery, hence!"

IF a fute could speak, it would probably say, "Well, I'm blowed."

AN EARLY SPRING.—Jumping out of bed at five o'clock in the morning.

MILITARY INTELLIGENCE.—An army does not always fly when it extends its wings.

A HATER advertises that "Wat's on the blind" is of great importance, but what's on the head is of greater."

A QUEER TALE.—If man is descended from the monkey, the descent must be, as the lawyers say, "in tale."

WHAT is the difference between a sailor and a beer-drinker?—One puts his sail up, and the other puts his ale down.

WHY did not George Washington's sister go with him to cut the cherry tree? Because she had not got her little hat yet.

PROGRESS.—A female student of medicine, out West, wrote home to her friends for twenty dollars, "to buy a man to cut up."

SOLDIERS are generally rather tired on the 1st of April. Perhaps it is because they have just had a March of thirty-one days.

A STONINGTON girl recently contracted neuralgia by sleeping with her hands in a stocking of mush to whiten them. The mush froze.

SAID a man who tumbled out of a third-story window, "When I first fell I was confused; but when I struck the pavement I knew where I was."

ARE blacksmiths who make a living by forging, or carpenters who do a little counter-fitting any worse than men who sell iron and steel for a living?

QUESTION AND ANSWER.—When Shakespeare wrote about patience on a monument, did he refer to doctors' patients? No. How do you know he didn't? Because you always find them under a monument.

A CONTEMPORARY remarks that an old gentleman's "head is covered with the snows of seventy-four winters." He must have a remarkably large head if the snow of one such winter as this last one won't cover it.

A YOUNG lady at Troy, while engaged in conversation with a gentleman a few days since, spoke of having resided in St. Louis. "Was St. Louis your native place?" inquired the gentleman. "Well, yes, part of the time," responded the lady.

A MACON, Georgia, mule made a decided hit in the production of "The Cataract of the Ganges" on the local stage there recently. The "hit" was made with the mule's dexter hind hoof on one of the star performers, resulting in a total eclipse.

SURGICAL EXAMINATION.—At an examination of the College of Surgeons a candidate was asked by Abernathy. "What would you do if a man were blown up with powder?"—"Wait until he came down," he coolly replied.—"True," replied Abernathy. "And suppose I should kick you for such an impertinent reply, what muscles should I put in motion?"—"The flexors and extensors of my arm, for I should knock you down immediately." The candidate received his diploma.

THE New York practice of using a reflector and throwing a ray of rose-colored light upon the bride's cheek as she passes up the aisle of the church was sought to be introduced in San Francisco, but the man managing the reflector was a little nervous, and directed the rays upon

the nose of the bridegroom, and the consequence was that those who assembled to witness the marriage, and were not in the secret, thought the bride was throwing herself away on a magnificent rum-blossomed nose.

NAUGHTY GIRL.—A traveller was recently taken ill at Brighton, and, though the doctor saw no cause for alarm, the patient got low-spirited, thought he was going to die, and requested the doctor to break the news to a girl in London, whom he loved dearer than life. He must do it gently, for she was a tender flower, and might fade under the shock. Tenderly the doctor wrote, and this was the response from the loving girl:—"Dr. D., I care nothing for that Mr. B., nor to hear from him. You will please tell him to send me no more word.—Rosy R.—P. S.—Kill him."

NATURAL HISTORY.—A simple fellows says:—"Once I visited a show in Georgia. It was a moral animal show. I heard a fellow shouting.

Says he, "Here's your celebrated tropical American animal that feeds on ants."

Says I, "Eats nothing but ants, does he?"

Says he, "Sir, he is the most interesting animal in the show. Observe his bushy tail and his long face, with a tongue into it formed for nothing but catching ants."

Says I, "He is interesting, so he is. But I can tell you an animal that would be just two times as interesting, if you could only procure one."

Says he, "Sir, what animal, what animal would be more interesting than the great tropical American ant-eater?"

Says I, "A mother-in-law-eater would knock spots out of your old ant-eater."

I guess he had a mother-in-law, for he embraced me and gave me two tickets to go in to see the moral wax works, made of wax.

OUR PUZZLER.

53. CHARADES.

1. My first is always in luck; my second, reversed, is not; my whole is a manufacturing town.

2. If you are in debt, beware of my first; if you keep a horse you use my second; if you are a "man of straw," you should visit my whole.

CHARACTACS.

54. SQUARE WORDS.

1. A dreadful yet stirring sight; does nothing from morning to night; proceeds from a very strong light; grows wild on many a height; when long is a woman's right.

2. An imprisoned statesman; to rise up; a country residence; a term for a small island; a number of resting-places.

3. An island in the Mediterranean; two rivers in France; a capital of a division of Italy; an open space.

4. A continent; an Asiatic island; a man's name; signifies anger; reduced white lead, surname.

55. ENGLISH TOWNS.

1. My first, transposed, a motion of terror; my second, part of a river.

2. My first a color, my second to scorch.

3. My first, reversed, is a burden; my second, reversed, an insect.

4. My first, transposed, is to string; my second, a beverage.

5. My first is a scar; my second, reversed, a foreign land.

6. My first, curtailed and transposed, is an animal; my second a mineral.

7. My first is disgraceful; my second impo-

8. My first, curtailed, is to putrefy; my second a town of England.

9. My first, transposed, we are governed by; my second, transposed, is a liquor; my third is good to eat.

10. My first is to sprinkle; my second, a pronoun; my third, a preposition.

11. My first is an exclamation; my second, the point of an epigram; my third, a cavern.

12. My first is common; my second, reversed, a preposition; my third, a border.

13. My first is luminous; my second, reversed, a foreign river.

14. My first is to omit; my second a weight.

15. My first is luminous; my second, reversed, a color; my third a region.

JOHN SANDS.

56. TITLES OF PLAYS.

1. Fifteenth decree, read on. 2. I can clasp O, I refrain. 3. Bark but this. 4. Ah, no, don't, ride Ned, push'd us on. 5. Sect, bah, insect, horror. 6. We fly a work. 7. Bond, why knowe. 8. I club to favor duty. 9. Heil my fifth. 10. Oh, Count Gab-mouth and I. 11. Pre resign'd Moss. 12. On photo Co's request.

ANSWERS.

48. DECAPITATION.—1. Knight, night, nig-gin. 2. Ranger, anger, nag. 3. Halbert, albert, blare, etc.

50. CHARADES.—1. Partisan. 2. Police-man (policeman).

51. COGN.—1. Co-lon-draw (colon-drain). 2. What Tyler, Will Rufus (what tyler will rof us?).

52. CHARADE.—Cata-comb.