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MISCELLANEOUS.

## From the American Notes of Charles Dickens. The Falls of Ningara.

Between five and six in the morning we arrived at Buffalo, where we breakfasted, and being too near the Great Falls to wait patiently any where else, we set off by the rain the same morning by nine. \* \* \* \*

Whenever the train halted I listened to the roar, and was constantly straining my eyes in the direction where I knew the fall

Within a few minutes of my stopping, I saw the great white cloud rising up slowly and majestically from the depths of the earth. That was all. At length we alightneglity rush of water, and felt the ground and half-melted ice. I hardly know how I got down, but I was soon at the bottom, and were crossing, and had joined me, over some broken rocks, deafened by the noise, half blinded by the spray, and wet to the skin. We were at the foot of the American fall. I could see an immense torrent of water tearing headlong down from some goat height, but had no idea of shape, or situation, or any thing but vague immenfirey-boat, and were crossing the swollen race immediately before both cataracts, I manner stunned, and mable to comprehend the vastness of the scene. It was not till I came on the Table Rock and lookedgreat heaven on what a fall of bright green stalks, at any rate. water !- that it came upon me in its full might and majesty. Then, when I felt how near to my Creator I was standing-the first effect, and enduring one-instant and lasting-of the tremendous spectacle, was peace-peace of mind-tranquility-calm recollections of the dead great thoughts of eternal rest and happiness—nothing of Niagara was at once stamped upon my

heart an image of beauty; to remain there cease to beat forever. Oh how the strife and trouble of our daily life receded from my view and lessened in the distance during the ten memorable days we passed on that enchanted ground. What voices spoke from outshe thundering water; what faces faled from the earth looked out upon me from its gleaning depths; what heavenly promise glistened in those angel's tears; the drops of many hues that showered around and twined themselves about the gurgeous arches which the changing rainnow made! I never stirred in all that time from the Canadian side whither I had gone for I knew there were people on the other shore, and in such a place it is natural to fro all day, and see the cataracts from all ject from the late London papers. points of view; to stand upon the edge of the Great Horse Shoe Fall, marking the harried water gater gathered strength as it pause before it shot into the gulf below; to gaze upon the river's level up at the torrent, as it came streaming down; to climb the neighboring height, and watch it through the rapid harrying on to take a fearful the river, as stirred by no visible cause, it heaved and eddied, and awoke the echoes, being troubled yet far down beneath the surface by its giant leap; to have Niagara before me lighted by the sun and by the moon red in the day's decline, and gray as evening slowly fell upon it; to look upon it every day and awake up in the night and hear its ceaseless voice, this was enough!

Molasses from Apples .... The following excellent method for making use of apples, for the two-fold purpose of obtaining molasses from them, and converting the remainder into excellent food for farm stock, has just been described to the Ohio Free Press. The apples are placed in a hogshead, made tight for the purpose, and subected to the operation of steam. The sacand drops down to the bottom of the hogshead into the vessel covering the bottom, placed there for the purpose, from which it passes off to proper receivers. The juice is subsequently evaporated by boiling. Sour apples only have yet been experimented on one bushel and a half. This molasses difing a peculiar tart flavor. The apples remaining in the hogshead, being softened and well cooked, are mixed with bread or the entire expense of the undertaking, but meal, and thus constitute an excellent arti- little fear need be apprehended upon this cle for hogs and cattle.

### A Pig Story. BY DICKENS.

Once more in Broadway! Here are the repassed the hotel-window twenty times while we were sitting there. We are going to cross here. Take care of the pigs. Two portly sows are trotting up behind this carriage, and a select party of half a dozen

Here is a solitary swine, lounging home-

ward by himself. He has only one ear;

having parted with the other to vagrant dogs in the course of his city rambles. But he gets on very well without it, and leads a roving gentlemanly, vagabond kind of life, somewhat answering to that of our club-men at home. He leaves his lodgings every morning at a certain hour, throws himself upon the town; gets thro' his day in some manner quite satisfactory to bimself, and regularly appears it the door of his own house again at night, like must be, from seeing the river rolling on the mysterious master of Gil Blas. He is towards them; every moment expecting to a free-and-easy, careless, indifferent kind of pig, having a very large acquaintance among other pigs of the same character, whom he rather knows by sight than conversation, as he seldom troubles himself to stop and exchange civilities, goes grunting ed; and then for the first time, I heard the down the kennel, turning up the news and small talk of the city, in the shape of cabtremble underneath my feet. The bank bage stalks and offal, and bearing no tails was vey steep, and was slippery with rain but his own; which is a very short one, for his old enemies, the dogs, have been at that too, and have left him hardly enough climbing with two English officers who to swear by. He is in every respect a Republican pig, going wherever he pleases, and mingling with the best society, on an equal, if not superior footing, for every one makes way when he appears and the haughtiest give him the wall, if he prefer it. He is a great philosopher, and seldom moved, unless by the dogs before mentioned. Some times, indeed, you may see his small eye sity. When we were scated in the little twinkling on a slaughtered friend, whose carcase garnishes a butcher's door-post, but he grunts out "Such is life; all flesh is began to feel what it was; but I was in a pork!" buries his nose in the mire again, Hibernian Advertiser. The way he lashes and waddles down the gutter; comforting Boz is a caution to book-makers: himself with the reflection that there is one snout the less to anticipate stray cabbage

They are the city scavengers, these pigs. Ugly brutes, they are; having for the most par' scanty, brown backs, like the lids of old horsehair trunks: spotted with unrecognise it for a pig's likeness. They are tions and people of your adopted country, a free and enlightened Republic.

never attended upon, or fed, or driven, or I am led to mark Boz down for nothing Your friend and fellow labor them who has over-eaten himself, or has obliged to beg (in a decent way) for the been much worried by dogs, trots sneakingty homeward, like a prodigal son: but this out of his old blue coat, standing, as Tyis a rare case; perfect self possession and rone Power would have it, "on his last self-reliance, and immovable composure, being their foremost attributes.

## at first. I never crossed the river again; Unparalled Sub-marine rail road We have seen nothing which so illustrates the amazing march of mind in our day, as shan strange company. To wander to and the following vast internal improvement pro-

The provisional committee appointed to approached the verge, yet seeming, too, to to China, beg leave to submit the following rican shiner! I open the controversy on the trees, and see the wreathing water of culty at present experienced in making the the very weed that he (Mr. Xlob) attacks relative length of day and night. plunge; to linger in the shadow of the the delay and chances of shipwreck, it has spit, squirt and other natural propensities solemn rocks three miles below; watching been proposed, under the advice of an em- incident to the human frame, with all the lations of the Nautical Almanac will be soon hence to the Celestial Empire. The plan suggested for the end in view is to penemedium of a tunnel from London to Canton, passing through the centre of the globe compelled to pay very near a dollar per lb. Shaft, Esq., the engineer, who has descended some of the deepest wells and sewers in and about the metropolis, and has sounded the earth in various places at the outskirts, be burned in Queen Vic's custom house there is every reason to believe that the centre of the globe consists of a solid mass of the softest soil, except when intersected stamp. by solid rock of gold and silver, and caverns charine juice soon begins to coze from them of precious stones; and that from his examination, there is no reason whatever to believe, as some have conjectured, that the earth is a mere crust, a state of things which would have rendered the cutting of a tunnel through it an expedient of some difficulty. As it is however, the cutting will in this way. The quantity of molasses be exceedingly easy, except when the masobtained from them is ten gallons for every ses of precious metals and jewels interpose fifteen bushels of apples, or a gallon from an obstacle; but, inasmuch as this material, when extracted will be immediately valfers from sweet apple molasses in possess. uable, and, according to the most moderate calculations of our engineer, will be many hundred times more than sufficient to cover

Paul's Cathedral, London, which for the perfection at Buckingham palace, where I same ladies in bright colors, walking to and purposes of this undertaking is to be pulled intend to go the next drawing room, to see fro, in pairs and singly; yonder the very down. As the railway will pass immediately in the hope of getting a garter or sword ately under Mount Versuvius, a station will in the hope of getting a garter or sword be erected there, at which various trains touched on his numscull; yet he must chatand lava, or Cyclops, should there be any officers than soldiers in down-fallen Enggentleman hogs have just now turned the the view of getting a supply of water, which to damnable aristocracy. I thank God he may be anticipated; and as the company will doubtlessly convey all the Government troops, and as the war in the East will in all probability be everlasting, (if not long-

> In addition to which, it is confidently expected that most of the continental nations area of American freemen, who in a simulthat of the company, which will be both a of any aristocratic dog that dare to bark most advantageous source of revenue, and or growl on an unpolluted soil. be the means of establishing an immense field of commercial enterprise. The works of St. Paul's, the shaft will be sunk, when every effort will be made to bring the whole of the undertaking into a sinking condition. Further particulars will be announced as a deposite of £5 to the secretary of the be abandoned, to obtain it back again when- | can't fight unless their bellies are ful. ever they can.

# O'Connell upon Dickens,-et als.

Dublin, Nov. 1, 1842. Dear friend,-Several copies of your spirited little paper came to hand, but I had not time from my official and political business to write until the present opportunity, which I snatch with gladness. The chief subject, however, I mean to awell on, in wholesome black blotches. They have this scroll, is Charley Dickens and his nonlong, gaunt legs, too, and such peaked sensical Notes on the land of the Free and shouls, that if one of them could be per. the Home of the Brave. From what I can caught, but are thrown upon their resources more or less than a drivelling, miserable, in early life, and become perpetually know. scribbling aristocrat of the worst order, ing in consequence. Every pig knows from the fact that not many years, nay where he lives, much better than anybody months, if computed he was ranked among could tell him. At this hour, just as even. the paupers and fellows who, "live by their ing is closing, you will see them roaming ways and their means" in the metropolis, towards bed by scores, eating their way to where, until employed as a penny-sliner of the last. Occasionally some youth among an obscure London paper, he was lately common necessaries of life, with his elbows legs without a single shilling in his breeches pocket!"-a regular caricature of a briefto fill his ungrateful gob! I ask you, sir, (as you know something of the greediness of a hungry Englishman,) were a yankee sailor to meet Mr. Boz, when in that dilemma, and offer him a silver dollar to permit him to squirt a " quid" into his delectable eye, would be refuse the offer? I will ansuperinted the preliminary arrangements swer for you as the Atlantic rolls between connected with the railway from England us :-He'd show both peepers for the Amestatement, with the view of forming a com- tobacco and spitting, and squirting, etc. but pany to carry out this vast national concern as he has borrowe I Mrs. Trollope's words by shares, to consist of an unlimited num- to fill his notes on this point, he well knows | teracting influence intervenes there will soon be ber. In consequence of the extreme diffi- that his own countrymen indulge freely in a perceptible change in the seasons and in the voyage to China and India, together with you for, and necessarily must chew, smoke, inent engineer, to construct a railway from propensity imaginable; but I award you the palm on that score, for remember you have your tobacco at first cost, and are at LIBtrate the bowels of the earth through the ERTY to plant, cut, dry, pack, sell, and well as planets, will prove entirely unsafe, if the chew as much as you please, but we are thus obviating altogether the enormous ext of your money as duty to the Queen, to pense usually incurred in the purchase of support a lazy foreign mongrel breed from about six degrees to the north of the equatorland, and avoiding the opposition likely to Germany, Princes, Dukes, Earls, Lords, be encountered from hostile nations. From and a host of such birds of prey upon the the report made to the committee by Sinke vitals of the people, who grind us to the earth as serfs and paupers; nor dare we grow an ounce of the weed under a heavy penalty and forfeiture of crop, which would doubt the accuracy of his former faithful guide. under the serveilance of a bloated aristocrat custom house officer of Pauper Dickens'

> So much at present for his tirade on tobacco and expectoration, but let him smoke

that until he gets knighted! He next forgets the wretched condition of the working classes in coal mines and factories of his own country, and serves up a morceau on slavery, which I now look upon as a necessary evil in the Southern The poles of Venus, to all appearance, are now States, where heat is too intense for white people at field labor; but yet I must coincide with his observations, on manacles. iron collars, &c. as in a constitutional way the proper state authorities ought to punish roguish slaves by imprisonment and hard labor. I perceive he made too free with people of color in his HASTY route through months since, on the southern limb, and gradualyour country, giving them preference to ly advanced over the whole breadth, till the planet white men, and from whom he came home

It is intended that the terminus in Eng. a perfect Jim Crow, initiated in the art of planet in her orbit, too, seems to be retarded, as land shall be upon the present site of St. chattering, which is looked upon as a high down. As the railway will pass immedi- him perform for the young infant Prince. will stop for the purpose of trading in coals | ter on for a long period, as there are more residing in those parts. Another stoppage | land at present; and the next vacancy will will be made under the Mediterranean, with be the issue of this scoundrel's succumbing will be drawn down through a pipe from the is rot an Irishman-he is the texture of a sen above. From the calculations made Saxon glutton-the more you fill him and ranges, glowing as if they were red hot iron, and by the committee, of the probable returns stuff him with the good things of this life, from the traffic, the most gratifying results the more overbearing and ungrateful you make him! the more kindness you extend and the more praise you bestow upon a gormandiser of this order, the more aristocratic and turbulent notions you drive into his er,) and the annual consumption of soldiers empty and sycophantic noddle. When, in incalculable, the company may expect to time, your Southern and Western States derive a handsome income from this source | follow the example [by constitutional means] of your Northern States as regards slavery, then your land will be one great and mighty will establish branch tunnels, running into taneous burst, can spurn the observations

MICS SIE NICHE IR

I need not recount to you the many attrocities perpetrated on the Irish soil, even in will be commenced as soon as a sufficient the present day, by government men of number of the shares shall have been taken Dickens' opinions-the more we stuff them and immediately on obtaining possession Connaught lumpers, with white eye potatoes, and the fat of the land, the faster they bind us in our chains, but we are now wide awate; the day of liberty is dawning on Old Ireland, and John Bull is becoming as soon as the company is formed, for which submissive as a Roman Plebian. We wear purpose the public are earnestly solicited to and use our own manufacture, we burn our enter their names as share holders, and pay own coal and turf, and can temper our own steel, by and by without his aid, and in recommittee, Mr. Stumpy, at the office of turn as must buy our corn and provisions Punch, who will give a receipt for the same or go to bed with an empty stomach, which entitling the party, should the undertaking you know is poison in that country, as they

The 3d note our ambitious Cockney author sounds for the edification of Americans, is on railroad and steamboat travel-We take the following extract from an ing. On this subject I am ignorant, as I unique epistle of the celebrated Daniel never travelled in your country, but from O'CONNELL, to the editor of the Baltimore the tenor of that note, I should award the Virginians praise for not strewing laurels under the upstart's feet, building bridges over heir runs, paving little ruts and tumble bug holes, sucking his button holes, and pulling his coat tail as ladies and gentlemen did in the Atlantic cities. People who make mountebanks and fools of themselves in this way, deserve to be paid off in their own coin, from the gall and bitter aspersions of a renegade tory, travelling for his own private purposes of lucre and gain as well as the bombastic honer of his own suaded to sit for his profile, nobody would learn from your late epistles on the institu- misgoverned nation, to the degradation of

Your friend and fellow laborer in the

cause of Liberty. DANIEL O'CONNELL.

#### Extraordinary Phenomenon. In the Lynn Locomotive, we find the following extract of a letter from an eminent astronomer, connected with Yale College, at New Haven, to a scientific gentlemen in Lynn. It will be found highly interesting to men of science, detailing some most astonishing changes in the great ma-

chinery of Nature.

There is certainly some extraorduary change going on in the solar system. Whether the result will be a speedy dissolution of the present harmonious arrangement, is of course known only to Him who instituted the less, penniless lawyer, non-suited for bread laws which govern the course of the stars. For rapidly developing phenomena, and I have been assisted in my observations by gentlemen eminent for their scientific attainments. And within a few days I have had placed in my hands a paper frem the celebrated astronomer, Hanfl, of Berlin, detailing his own discoveries, and indicating that the subject is beginning to excite intense interest among the scientific of Europe.

It is evident that the inclination of the earth's axis with the ecliptic is changing .- There is now a nearer approach to a coincidence of equator and ecliptic than has ever before been known. Since the autumnal equinox, the obliquity in the earth's course has sensibly diminished; and if no coun-

The change is so great already, that many tricate calculations for the present year will be found inaccurate. Some of the important calcufound perplexing to the mariner as he takes his observations. And some of those heretofore highly useful tables in the American Almanae, founded on the bearings of some of the fixed stars, as enced and intelligent shipmaster, a day or two since, casually observed to me that on a recent voyage from the East Indies, when he had sailed the region from which the North Star is usually first seen after crossing the line, the haze rendering it invisible while near the horizon-he was astonished and perplexed in his observations. The unusual variation of his chronometer from the time indicated by stellar observation, led him to

the attitude of the North Star will soon be appurent to the most casual observer; at those points of time, April 15, June 16, August 23, and December 24, when all true timekeepers should essentially varying, and many other important results will be developed. An attentive and accurate observer in the high latitudes, even at the next solstice, cannot fail to recognize various astonishing phenomena.

But the changes going on in regard to the earth are less remarkable perhaps than those which are affecting some of the other planets. elevated full thirty-five degrees, and she seems to be changing from her former clear radiance to a this particular, however, is as yet light, barely perceptible, under close observation, to the naked eye. By the aid of a powerful glass, there may be perceived what appear to be waves of fire roll. ing over her disc. This appearance I have watch-ed with much interest; it commenced some was completely enveloped.-The motion of this

Hershel has the appearance of having greatly diminished in size, and has failed to reach a given point of its orbit at the usual time, and, in short, seems to have broken the bonds which have connected it to the solar system, and commenced its course as a member of some remote celestial re-

Saturn also is assuming an unwonted aspect. To all appearance, there is a mighty conflagra-tion going on in the hitherto dark line which divides her rings. To such an extent has it already attained, that in one or two places the whole breadth has assumed the appearance of ragged throwing a lurid reflection upon the adjacent portions of the ring.

The changes seem also to extend beyond our system. The beautiful star Betelgnese, in the constellation Orion, has varied to such an extent from the vernal to the autumnal equinox of the present year, that its distance may be ascertained. It seems to be approaching the solar bounds.

# Interesting Jew'sh Marriage Cer-

The New York Aurora gives the follow. ng interesting description of a Jewish marriage ceremony, which took place in that city a few weeks since.

The parties were the Rev. Jacques J Lyons and Miss Grace Nathan, daughter of Seixas Nathan, Esq., a gentleman well known and highly esteemed in this community. The ceremony was performed in the synagogue in Crosby street, of which the reverend bridegroom is pastor, and the marriage ritual was read by his brother, the Rev. E. Lyons, of the Richmond, Va. synagogue. The spacious building was crowded to excess, and never do we remember having witnessed such a dazzliag as semblage of brilliant eyes and beautiful faces. The chandeliers and candles around the altar and ark, were all lighted; in front of the ark, near the classic and beautiful pedestal on which the lamp is placed which s kept continually burning by the contributions of the pious, were the groomsmen, bearing a crimson damask canopy, under which stood the bride, with six young ladies as bridesmaids, her father and brother, by whom the marriage ceremony was perform-

ed. The bride, an exceedingly interesting young lady, was neatly attired in a light colored silk, a white hat and veil. The ladies present were all dressed with exquisite taste, without unnecessary display; indeed, so much beauty needed not the aid of " foreign ornament." After a solemn chant, the officiating cler-

gyman tasted a glass of wine, which the bridegroom and bride successively raised to their lips. The bridegroom then placed the ring on the finger of his bride, pronouncing the fol-

"Behold, thou art wedded to me with this ring, according to the laws of Moses and

ng a blessing, of which the following is a

translation: " Blessed art thou, oh Lord our God of the vine."

After the bride had tasted the wine, the pridegroom raised it to his lips, poured the wine on a salver placed for the purpocs, and on which he dashed the glass, breaking it into numberless fragments. The coremony is in commemoration (as we perceived by the book with which we were politely some time my attention has been directed to the furnished,) of the destruction of the Temple

of Jerusalem-and further, as we were informed by a gentleman learned in the Jewfrailty of human happiness. Another prayer was then chanted, the concluding por- that combining iodine with the silver pretion of which is thus rendered into Eng-" Blessed art thou, oh Lord our God

who causeth the bridegroom to rejoice with the bride, and causeth them to prosper .-Oh! give thanks unto the Lord, for he is good; for his mercy endureth forever .--May joys increase in Israel, and sighs flee

The ceremony being concluded, and congratulations interchanged, the numerous assemblage dispersed, and the bridal party repaired to the house of the bride's father, in Varick street, where they received the congratulatory visits of their friends until a late hour ir. the evening. May all their progress of the change continues. An experi- anticipations of happiness be realized! We never witnessed a ccremony with the solemnity of which we were so forcibly im-

BRITAIN AND US .... They know as little about America, over the water, as we know of them. Some time since, one of the English papers announced that "Governor Porter, of the State of Baltimore, had issued Should these changes continue, a variation in his proclamation, confirming the election of General Harrison as President of Ohio.' More recently, one of those luminous journals stated that the town of Rhode Island agree with the sun, the chronometer will be found had been disturbed by a rebellion, in consequence of which two or three hundred rebels were publicly executed .... N. York

Who is Rich ?.... Major Noah replies to this question thus: He is to be considered rich who is out of debt, and supports his family comfortably and creditably by his color approaching that of Mars; the change in nothing and is worth \$30,000; he is very rich who is free from debt and worth \$1,000,000; and he is dangerously rich who is worth a million and is not a prudent man. The possession of no money is inconvenient, and too much is burdensome. Contentment is riches. Be satisfied : be contented-our lot may be worse.

A PREDICTION FULFILLED .... In 1835, at a time when the whole country was in a state of extraordinary prosperity, Mr. Clay, in a public speech, appears to have predicted the great revulsion that has since taken place, and which has been so deeply telt in all ranks of society throughout the whole country. Speaking on the subject of the United States Bank, he said-

"There being no longer any sentinel at the head of our Banking establishments to warn them by its information and operations of approaching danger, the local institutions, already multiplied to an alarming extent, and almost daily multiplying in seasons of prosperity, will make free and unrestrained emissions! All the channels of circulation will be gorged! Property will ris; extravagantly high, and constantly looking up, the temptation to purchase will be irresistible! Inordinate speculation will ensue, debts will be freely contracted, and when the season of adversity comes, as it must, the banks, acting without concert and without guide, obeying the law of self-preservation, will at the same time call in their issues; the vast number will exaggerate the alarm, and general distress, wide spread ruin, and an explosion of the general banking system, or the establishment of a new Bank of the United States, will be the ultimate effects."

Brandy Literature .... Nothing has tended more to draw the young and romantic into the labyrinths of intemperance than the literature whose aim has been to throw enchantment around the wine-cup and gild the revels of debauch. The pages of fiction and songs overflow into such attempts .-From American down to Tom Moore we see the destructive effects of pandering to vice. Those can estimate the influence of " Wreathe the Bowl" and " O, Willie brewed a peck o' malt," has exerted on the young and gay. Such a novel as Charles O'Malley is more calculated to ruin the rising generation, than the most forcible humily directly in favor of vice. Yet we see thousands upon thousands reading it, and introducing its scenes into their families.

Shall this kind of literature exist? Shall it still, under the wreath of flowers, trail its serpent form through our homes, and blast all that is good, beautiful and noble! Shall any young ladies still drink in its poison ! Shall our youths still expose themselves to destruction? Let no literature be supported but that of sobriety?--let us at once banish from our tables all writings whose tendency is to throw a delusive glow around the wine cup, and concent the brutal depravity of the grog-shop .- N. Y. Washingto.

IMPORTANT DISCOVERY IN MEDICINE ... The last number of the Dublin Medical Press contains an interesting paper by Dr. Patte After another solemn chant, the minister son of Rathkeale, on the discoloration of again tasted a glass of wine, after pronounce the skin from the internal use of nitrate of silver, and on the means of preventing and removing the effect. It is well known that the nitrate of silver possesses great efficacy King of the Universe, who createth the fruit in the treatment of certain forms of epilepsy and painful complaints of the stomach; but from long use, it is liable to render the skin almost as black as that of the negro-an effect which continues for life, and for which there was no means of prevention or cure. Consequently, it frequently occurred that a patient treated with nitrate of silver got rid of his disease at the expense of his beauty; and hence medical men have been prevented from employing this active remedy as extensively as they otherwise would. ish laws and customs, as an emblem of the Dr. Patterson, by numerous and satisfactory experiments, has succeeded in discovering vents the discoloration without impairing the medicinal powers of that metal : and they will remove the discoloration which has already been produced. This, we believe is a matter of great importance to patients laboring under painful or spasmodic diseases.

FOR HOW LONG A PERIOD CAN LIFE BE SUSTAINED UNDER WATER !- There is no doubt that habit has considerable influences over the organs of respiration as well as on other functions. A person has been known to take large doses of opinin with impunity, from having, for a long period, habituated the system to the gradual influence of poisonous agents. In like manner a pearldiver, by long practice, may be able, under water, to sustain life for a time without breathing. In diving animals there is a natural provision to enable them to live for some time without air. The chief venous trunks are very tortuous, and admit of dilation, so that the venous blood can accumulate in them, instead of distending the right cavities of the heart. It has been surmised that an analogous change may be produced in divers, by the often-repeated practice of holding their breath. Professor Farady has pointed out a method by which a person may hold his breath for a minute and a half, which is double the time usually practicable. To effect this object the person must make in succession five or six full and forcible inspirations. By this means the air-cells are so well filled with air that a fresh inspiration is not required for some time. A knowledge of this fact may be useful whenever a person should want to occupation. He is actually rich who owes hold his breath for a time in going into the suffocating atmosphere of a sewer, a mine. house on fire, or in diving. Dr. Paris, on this subject, cites the case of Mr. Kite, who. after making a deep juspiration of 300 cubic inches of air, was able to retain this quantity for 72 seconds without a fresh inspiration .- F. Winslow "On Asphyxia, in Polytechnic Journal.