

"There is a joy in striving greater than the strife, Λ joy in living greater than the life."

THE marvellous amount of work achieved by some whose names are household words often creates astonishment in the minds of those who wonder at success without tracing its secret springs; nothing indeed so tends to inspire a feeling almost akin to awe than the contemplation of the *labours more abundant* of our celebrated men.

Night after night a statesman will clothe high thought in equal lauguage, his range of subject being only less remarkable than his power and variety of expression. One such effort would have both satisfied and exhausted many a weaker combatant, and yet we turn to tho *Times* and read the record of these nightly feats entirely as a thing of course. Here begins the wonder which is deepened when we reflect that this same man is a conspicuous guest at public celebrations, no mean authority in literature, personally directs the education of his children, and as a devoted churchman is ready to advocate, in words of silver eloquence, the grand humanities of the age in which we live.

The vision of one held in reverence by men of every shade of politics rises before the mind, and yet the marvel still increases, knowing, as we do, that this is but a single specimen of that long array, who, as much by their productive energy as by their brilliant talent, have made their respective countries famous.

Genius sometimes goes for a great deal—genius also sometimes goes for very little. Admit the theory of genius, and grant that two with unequal powers, though under identical eircumstances of discipline and education, would not reach the same goal together; this will not account for the power which is visibly displayed before our cyes.

A near, if not perfect analogy exists between the physical and mental gymnast—that strong, well-kuit performer on whom the crowd gazes with open mouth is doing things which no spectator without similar preparation could attempt—long practice (we know of what we speak), and everlasting training have made him a different person. His body has gone to school. His arms and legs havo acquired more muscle, his whole frame a new constitution; for that reason he can venture on still bolder evolutions and more dexterous athletic exercises; but for that reason his further industry would be rewarded with a broken neck.

It is not designed in this brief article to ring the changes on the advantages of study, nor to pronounce a didactic sermon; rather from the above let us take our text, and preach the gospel of goodwill and eucouragement to those who have entered on their studies.

These intellectual flights already mentioned may be accounted for, strange as it may appear, almost on physical grounds. The mind has gone to school—its wiugs are stronger, its organization changed. It can think, learn, grasp, retain, set in order, and accumulato in a manner possible to no other mind not having undergone the ordeal of the same cultivation. It has also acquired new powers of concentration, endurance, and perseverance; it has inherited from previous struggle all that the conservation of force can bestow—the five talents are now ten.

We believe as firmly as wo do our own existence that

none can guess the capabilities that lio within them—none can gaugo the measuro of their possibility; none can work out tho anoiont motto, "Know thyself." We hold, moreover, that thousands are injured mentally for life by lack of a few words of kindness. The dawning intellect is withered by neglect or ridicule, under which disastrous influence that which might have been most fair and lovely sinks into commonplace, while surrounding cares, together with the rude battle for our daily bread, too often hasten the catastrophe, and wipe out the lingering traces of the intellectual life.

Students of the scarcely opened session, the gate of knowledge is before you; strive to enter in. We bid you hearty welcome.

You have come to London, and here you naturally expect a solemn warning against its general wickedness and snares. Never were you more mistaken. It, like other capitals, has manifold and great temptations, infinitely counterbalanced by manifold and great advantage. We are no advocates for that false and dreary moralizing which sees blue rnin in a glass of bitter, nor do we dread that the voxed earth should open and engulph the perpetrator of a Sunday walk. Far otherwise. Take without fear the good the gods provide; use, but not abuse, all pleasures which the heart may sanction: the stage, the dance, the concert need not be neglected, and the more social intercourse the better. Time will come when such fascinations lose their charm, for youth is a warmer colourist than Etty.

Only remember well, with stern and unflinching hand to draw the line which separates striving from enjoyment. Never again will the world outside wait upon your leisure, nor ever in future will household and position cares respectfully withhold intrusion.

Bear with us while for a moment we exhibit a most homeopathic dose of classics. The word from which our motto is taken is one of the strongest expressions in the Greek. The passage literally translated $(A\gamma\omega\nu)\zeta\epsilon\sigma\theta\epsilon\ \epsilon i\sigma\epsilon\lambda \theta\epsilon i\nu)$ means agonize to enter in. Nothing short of this will do. No dreamy, pleasing, dilettante striving will take us through the strait gate either of the world to come or this.

Some amongst us—neither statesmen, poets, nor politicians, but simply working pharmaceutists—are splendid illustrations of our theory. They have not waited for a stray fluke of glory which might waft them into honour, but have accepted the lines which Providence has ordered, though sometimes they may not seem to have fallen in pleasant places.

They have thought, and wisely, that there are memories other than those enshrined in the old Abbey of Westminster which aro held in loving reverence, and therefore they have striven. For them the same dull routine of work; for them the allurements of Town life—they have gone home in full consciousness of the strife well ended, and as the pebble thrown into the tranquil stream makes rings and outer-rings, until they mingle and are lost in the expanse of water, so they have returned, spreading their contagious happy infinence. The stern necessities of business have not been neglected; not the fussiest of the ignorant has a better retail, nor can the most self-contented and contemptuous despiser of all that sort of thing show larger profits on his wet and dry.

Meanwhile, men of this class give a tone and character to their surroundings; they honour pharmacy far more than with our present wretched want of legislatiou it can possibly honour them. Members of other, yot kindred learned associations, not unknown in the world of science, able and willing, on the contrary, to advance its interests: sharers often directors, of the social amenities of their own locality, and centres of all excelsior progress, they staud the living exemplars of what it is to strive. Nor does this exhaust the gain: add the deep love of the charmed circle of the home; add also, the gift of friendship—God's richest earthly blessing. Now draw the contrast, and deduct from twelve drifting months the inovitable total — a red lamp affixed to a little dirty shop, in front a row of eapsules, and in the back a starving wife.

Let no one accuse us of weaving fantastic sentences, we dare to put down on paper what is so painfully and prosaieally true. Let not the snows of next December find you a no stronger athlete than when you read these lines-Courage in this January of a new-born year! Work kills no man—hunger does. Milton's cherub was miserable, not from having fallen, but from being weak. Strive, and strength will come. Would that we could coin the most expressive form of words in order to convey this thought. Let the soldier strive, not only more bravely, but more easily, will he nerve himself to battle; let the scholar strive, not only will he glean fresh knowledge, but his mind will grow; nay, rather take the patient, plodding husbandman—let him strive, and with stronger arm will he grasp the sickle and reap the golden harvest.

"PRESCRIPTIONS CAREFULLY PREPARED."

THERE has been some good fencing between a medical writer and a pharmacentical chemist in that well-known arena—the eorrespondence department of the Lancet. The ehemist has boldly come forward as the champion of his elass and, in our opinion, has successfully partied the ugly ents of the medical combatant. To drop metaphorical langnage, our contemporary has brought certain serious charges against dispensing chemists, and a pharmacentical eorrespondent has retorted in two well-considered and wellwritten letters. The articles and letters may be easily east into the form of a dialogae, which will give all the essential points of the discussion.

MEDICUS (oracularly).—Amongst the many improvements which have taken place in the practice of medicine, one of no little importance is this, that physicians of the present day for the most part write a legible hand. The miserable serawls which formerly puzzled students and druggists to decipher, and which only looked as if a fly had dipped his legs in ink and then waldled over a sheet of paper, are only now to be seen in museums. But with this improved pennanship, the responsibility of the compounder of the prescription increases; for where all is clear, the blame of any mistake which may be made in the preparation of the medieine will not be able to be shifted ou the shoulders of the prescriber. Now there are many circumstances which lead me to think that druggists, as a body, are not as careful in "preparing prescriptions" as they should be. For example, I believe that if the same prescription were made up on the same day at twelve different chemists' shops between the Marble Arch or Charing-cross and Mile-end, not more than three of the resulting mixtures would correspond, unless the most commonplace drugs had heen ordered.

CHEMICUS.—Your remarks surprise me. I won't presume to controvert what yon say as to the improved caligraphy of the profession, although, if as many prescriptions passed through your hands daily as I have the pleasure of seeing, you might possibly think the flies of former days were not all dead, and that the trace of their "waddling" was still to be seen in other places as well as in museums. Neither is it my wish to shirk any part of the increased responsibility which you say now attaches to dispensers; for whether it he that the suddon lighting of a fly on a newlywritten prescription renders it necessary to interpret a word by means of its context, or whether it be that a prescriber (all men are fallible) may have had his attention distracted

by a loquacious patient, I hold that the man who is not capable of detecting such a mishap, and having detected it, does not take proper means (generally by reference to the writer) to prevent mischler, is unif to perform the duties of a dispenser. And I can bear testimony to the uniform kindness, I may almost say thankfulness, with which the very highest memhers of the profession answer inquiries as to doubtful points in their prescriptions. I dismiss this question of caligraphy, and will at once turn to your grave assertion "that druggists, as a body, are not as careful in 'preparing prescriptions' as they should be;' and that "if the same prescription were made up on the same day at twelve different chemists' shops between the Murble Arch or Charing-cross and Mile-end, not more than three of the resulting mixtures would correspond, unless the most commonplace drugs had been ordered." Now, Sir, I believe this assertion to be entirely without foundation, and I am as willing to give you as wido a range of "commonplace drugs" as the old London and new British Pharmacopains will afford. If physicians choose to order specialtics, without designating from whom they are to be obtained, you may be right; otherwise I say unhesitatingly that the majority, on the examination of the mixtures, will be on the side of uniformity. I would not dispute for a moment the greater care exercised hy some chemists, or the want of it perhaps in some shops where that troublesome "fly" of which you speak has not yet become extinct; but I do feel that we, the chemists, have within the last quarter of a century made a corresponding advance with the higher orders of the medical profession. It has been brought about by union amongst ourselves for the advancement of seientific knowledge, for the detection and exposure of adnlterations in the substances wherewith we have to deal, and for such an interchange of ideas as gives to the whole body of our profession, and through them to the public, the advantages of individual research and experience.

MEDICUS.—Pardon me for reminding you that you seem to rely more on the *tu quoque* style of argument than on any proof of the incorrectness of my observations. You hint that some physicians still write unintelligibly, but state that you won't controvert my remarks on "the improved caligraphy of the profession."

CHEMIEUS.—Stop, Sir; you do me an injustice in saying that I rely "on the *tu quoque* style of argument." In the first place, your assertion that prescribers write so much more legibly now than they did formerly, was no charge against ns, and I did not treat it as such, although unable to agree with you as to the improvement being almost universal. I distinctly disclaimed enlisting the absence of it in some cases as an excuse for inaccuracy on our part.

MEDIEUS .- Well, let us drop this subject of caligraphy, and discuss the more important one of careless dispensing You assert that my charge is "entirely without foundation." Now, I maintain that what I said is correct. Within almost a few days such instances as these have been brought under my observation :- A prescription was written for pig's pepsine, and that of a particular maker was distinctly ordered to be used. The patient goes to one of the most respectable houses in London; the dispenser in which substitutes the pepsine manufactured by his own firm for that ordered, and then notifies the same on the prescription hy crossing out ****, and writing **** over it. Again, two drugs in rather small quantities are directed to be mixed with an ounce of oil of theobroma. Prepared by an oldestablished firm, the pot, when opened at the end of twenty-four hours, is found filled by a thick oily fluid, which is useless for the purpose required. When the prescription is made up at a second respectable house, a solid substance is sent such as the prescriber intended. Once more: two or three drugs mixed with a few drops of glycerine in the manner directed form rather large and somewhat soft pills, such as the patient was told to expect. The same prescription taken to a different establishment leads to the production of a series of small hullets, which no amount of trituration in the stomach would render soluble.

CHEMICUS.—Now yon come to specific eases; and your first is one in which you say that in one of the most respectable houses in London the dispenser struck out the name of the special maker of pig's pepsine inserted by the prescriber, and substituted his own. I cannot aduit this either as a proof of carclessness or ignorance, and I leave

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you, knowing all the circumstances, to class the act as you will; but having substituted his own preparation for that which was originally ordered, I think the dispenser did his best to insure uniformity in the mixture ever after, inasmuch as, according to my idea of pharmaeoutical ethics, nine chemists out of teu would make a point of using the particular maker's pepsine iudicated. You next speak of the soft and hard oiutments made with the oil of theobroma. I gave you the contents of the British Pharmaeopœia for your purposes, and this oil was made officinal by the issue of that book during the present year. It is described as "a concreto oil obtained by expression and heat from the ground seeds of *Theobroma cacuo*," and "of the consistency of tallow;" officinal name, "oleum theobrome." You may not be aware that for many years an oil of cocoa-nut, Cocos nucifera, has beeu prescribed, erroneously, I believe, under the name of "oleum cacao." It is tolerably hard in winter, very soft in summer, and requiring always a long time to harden after being rubbed into ointment. Did your pre-scriber use the word "theobroma" or "cacao?" I can say nothing of your pill mass, as you do not name the ingre-dients to be incorporated by the glycerine; but this I must say, that if you refuso any discretion to dispensers in making pills, your patients will often be sadly disappointed, some-times dismayed, on opening their boxes. The pill is per-baps, of all forms of medicine, the one with the manipulation of which prescribers are least acquainted.

MEDICUS.—You appear to misunderstand the gist of my observations. I say that when the physician unmistakably orders one particular chemist's drug in his prescription, it is a most improper act for the dispenser to substitute a preparation by a different maker. It is not improving the matter to note the unwarrantable alteration on the prescription; for only children believe that by confession a fault is converted into a virtue. As I said at first, so I repeat, that "oil of theobroma" was ordered. It is unnecessary to tell medical men about oil of cocca-nut, and its conditions nuder different temperatures. The original prescription is headed "Brit. Phar.," and the words "olei theobroma" are as distinct as pen and ink and a practised hand can make them. The date is the 16th December, 1867. But supposing "oleum cacao" had been ordered, our argument would still stand, inasmuch as the complaint is that the same prescription taken to two different compounds. This remark applies equally to the pill mass. From the same receipt ono chemist sends out small pills literally as hard as bullets, while another druggist supplies rather soft boluses.

CHEMICUS.—I may have something to say upon this subject on a future occasion. Have you any further charges against our body?

MEDICUS.-Oh, yes; one that you cannot controvert. Your assistants will seldom take pains to write clearly the directions on the labels. In the case of consulting physicians. many are found to order mixturos in a rather concentrated form. It is a convenient plan, and with moderate caution bas no disadvantage, though it is not a very popular one with the dispenser. Such a prescription will end with a distinct direction that it is to be labelled thus: "One tea-spoonful in a wineglassful of water every six hours." The patient is ordered to persovere with this medicine until he is seen again at the end of two or three weeks. Well, he goes to his druggist, gets the medicine, finds it properly labeled, and all is right. But at the end of a week the supply is exhausted. The patient has his prescription made up again, and this time it is sent home labeled : "The drops as before." Now, I have no hesitation in saying that this is a most unjustifiable proceeding, for it is one fraught with great danger. The chomist is told by the physician how the medicinc is to bo labeled; the direction is given as plain as a pikestaff. Yet the dispenser, to save bimself a little trouble, deliberately refuses to do what he is told, and runs the risk of injuring, if not of poisoning, his customer. I maintain that in a case of this kind the druggist has no choice as to what he is to do. He is told what drugs to use, and the quantities required; he is also told how to direct the resulting medicine. Whether the prescription be mado up once or twenty times, the rule applies the same. It is quito unnecessary to show how easily a mistake may be made if the dose of medicine given from a bottle labeled "The mixture as before" bo poured out by a different hand indebted to you.

to that which has administered the previous doses. It may not, however, be altogother useless to remark, that if any mistake should occur under these circumstances, the dispenser will find himself in a very unpleasant position. The fact, is that it is impossible to exercise too much caution in compounding medicines. All should be so well done, and all should be so distinct, that there can be scarcely any possibility of a mischance. It is said that an accident soon happens; but in nine cases out of ten, it will be found that the so-called accident has been the uatural result of gross carolessness.

CHEMICUS.—With regard to labels, as a rule, I only see my own, and cannot tell what is the common practice; but I feel so strong an objection to "the mixture as before," that I would second you in every effort to enforce a constant repetition of full directions. Even this, however, is a matter in which a dispenser must be allowed a certain discretion.

MEDICUS.—So the principle on which you excuse the substitution of the label "The drops as before," for the direction ordered, is simply that it "is a matter on which a dispenser must be allowed a certain discretion." Probably stronger evidence as to the importance of my remarks on this subject could not be adduced than you have thus supplied. It is this pernicious practice of the dispenser using his "discretion," instead of doing as be is told, that is so reprehensible. If the prescription is unintelligible, if it contains errors, if the mixture ordered cannot be prepared, it is the duty of the chemist either to decline having anything to do with it, or else to communicate directly with the physician. But in the eases to which I particularly alloded there is no difficulty. The bottle is probably labeled on the first occasion, and it is only subsequently that the dispenser deliberately refuses to follow his instructions.

CHEMICUS.-The "pernicious practice of the dispenser using his discretion" has two different aspects. It is said that all the talent aud skill of the physician culminate in his prescription. I submit that for the benefit of the patient you must go a step further: that if tho physician's prescription is not accurately carried out by the dispenser, it might as well never have been written; and if you canvass the Fellows of the College, I feel assured you will find them all anxious that their medicines should be prepared by men who not only have, hut also use the necessary discretion, not in altering, but in interpreting their instructions. I believe you and I are agreed as to the necessity for continually repeating directions for the administration of medicine, only you apparently assume that I want too mnch latitude. When I said regarding labels, "even this, how-ever, is a question on which a dispenser must be allowed a certain discretion," I simply meant that in cases which occur to a dispenser almost daily, he finds the direction given as to the time of taking undicine, one or perhaps five years, previously, uttents in applicable to the years previously, utterly inapplicable to the present repetition, and then if he bo a careful man he will write somewhat thus: "The mixture as before, a fourth part for a dose." Frequently one pill only is ordered, "to be taken immediately." When the patient chooses to have a dozen or two as a stock medicine, the first direction would be nonsense. Sometimes on a second visit a physician gives verbal instructions to increase or lessen the dose of a mixture. The patient tells all this to his chemist, and what can the label be then? If you could spend your morning in your consulting-room and your afternoon in a dispensary, you would see both sides of the question.

MEDICUS.—Your remarks are not apposite to my specific complaint respecting "the drops as before." You simply urge the importance of doing what I complain is often not done: "If the physician's prescription is not accurately carried ont by the dispenser, it might as well never have been written." Exactly my opinion. You give the whole pith of the matter. Whose fault, then, is it that the prescription "is not accurately carried out"? It is unnecessary to say more. All that we prescribers want an assurance of is this : Supposing a prescription to be distinctly and correctly written in every respect. will it bo prepared alike, and will tho medicine be directed as the prescriber has ordered by every respectable chemist into whose hands the receipt may fall? If you will uso your great influence to ensure such a desirable result, both physicians and pationts will be much

CHEMICUS.-It seems to me that, after all, your criticism simply points to the necessity for uniform education and qualification being required of all men who undertake the compounding of medicines. Render these compulsory, and it will be the nearest approach attainable to making men careful by Act of Parliament.

MEDICUS .-- Not at all. The matters now in dispute are not so much a question of education as of caro in koeping the best drugs and chemicals, as well as of great pains to prevent the possibility of any accident to the sick. It is solely in the interests of the latter that I have spoken; and feeling assured that my criticism has been just, I trust it may havo a good effect,

CHEMICUS .- I caunot agree with you that the subject of our discussion is not "a question of education;" because a man must be educated to know good drugs from had, to know their value and their danger, the necessity for all care in their preparation, and in giving instructions for their use when prepared. Education may not make all men honest; but at least it gives them a pride in their profession, and so tends to make them act honostly, even if tho motive be self-interest only.

The discussion which wo have endeavoured to reproduce in the above dialogue includes the contributions to the Lancet of last Saturday. The modical critic had the last word, and the defence of the pharmaceutist will doubtless be strengthened by further arguments in a third letter.

END OF THE WHOLESALE AND EXPORT DRUG COMPANY.

ON the 27th ult. an Extraordinary General Meeting of the Shareholders of the Wholesale and Export Drug Company was held at Radley's Hotel, Blackfriars, for the purpose of considering the advantages of dissolution. The resolutions passed by a large majority at a previous meeting were confirmed, and the Japanese ceremony of "the happy dispatch" was virtually consummated. The Directors saw the Court of Chancery in the distance, and wisely suggested a voluntary winding-up of the Company. The Shareholders adopted the suggestion, and the honest and earnest attempt to carry on a wholesale drug business on the limited liability principle has come to an end.

An explanation of motives which impelled the Directors to counsel dissolution is given in the concluding number of the late Company's Monthly Circular. We extract from it the following passages :-

"It is difficult to conceive a more disagreeable task than having to acknowledge that an undertaking which appeared so promising in theory should, after two and a half years' practical testing, be proved a failure. Objectionable as it is to make such an admission, the Directors cousider they would be unfaithful to their trust if they shirked that duty, and with deep regret they record the fact. They might have consented to a more speculative proceeding, and so, perhaps, havo sacrificed the whole of the capital by reckless trading, but, being influenced by the principle that has always guided them, they determined openly to declaro their defcat, and so enable investors to receive tho fullest amount possible of the assets. They deplore the necessity for staying business, the more so as no blamo can be attached to any individual, or attributed to any particular cause. The principle upon which the Company was instituted is as sound and good now as then, but a concatenation of circumstances in commerce, and a general want of faith in the public mind prevented that combination of the trade which is essential to the co-operative principle. Want of capital has been the great stumbling-block in the way to success. The strict integrity of the Directors cannot be impugned : the indefatigable exertions of the manager and his assistant, Mr. G. Walker, have been most commendable, and but for the untiring zeal of the Messrs. Hedley, Stable, and Lewis, the Company would long since have closed its door

comparatively healthy, and might yet be satisfactorily worked; but the Diroctors are impressed that, with the deficiency of the last two years' making to be paid off, it would, under the most favourable circumstances, be four or five years before a dividend could be paid, and they are in possession of the fact that any litigious shareholder, cither from vindictive or pecuniary motives, has it in his power to petition the Court of Chancery for a compulsory winding-up-order; and by so doing the largest portion of the assets would flow into the pockets of the lawyers, and the sharc-holders would be deprived of their just rights. Then, to avoid this unnecessary expenditure, the Directors have suggested a voluntary winding-up under a liquidator of their own appointing, and, much as they regret the necessity, they believe by so doing they will be acting for the best interests of the shareholders, and preserve from tarnish the good name of the first Limited Drug Company."

Report

ON THE CONDITION AND PRACTICES

OF THE

VARIOUS CLASSES CONNECTED WITH

The Drug Trade.

I. THE VERITABLE OUTSIDERS.

L ET the buyer beware! Aye, and let the unfair dealer, the Coffinite, tho Herbalist, the Sarsaparilla-seller, the Street-scamp beware! Whatever your pretext, it is our plainly-avowed intention to pierce it through and through in the interests of the just vendor of drugs and chemicals.

Fully impressed with the truth of the fact that in many of the poorer districts of this metropolis, as well as in provincial towns, there are numerous well-conducted, respectable establishments upon which lies the necessity of squaring their practice with the eapacity of their customers' purses, we nevertheless are quite sure that, in those very districts where the artisan, and the poorer classes generally, ought to have their drugs and chemicals supplied to them of pure quality and low price, it is in these very places where people are, in the name of economy, fleeced and ensnared.

Is it less than a crime-a very grave crime-for an ignorant boor who purchases a basketful of withered herbs from Covent Garden Market, and, placing them in a window, to write up above his shop-front the word "Herbalist," as a trap to catch the ignorant and the unwary? These unthinking folk enter the place believing they are about to get a simple yet efficacious nostrum at a low price. Nothing of the kind. The exhibited "simples" are but a delusion and a mockery. The purchaser gets for his money some deleterious concoction which is calculated to materially, and mayhap permanently, injure his constitution.

We make no war upon the skilled vendor, the fair dealer, the duly qualified practitioner; but it is our intention to lash unsparingly the impostor, whatever may be his professions-philanthropic or otherwise.

The great centres of the vile traffic in pseudo-drugs and chemicals, if we may use the phrase, are the Seven Dials, St. Giles's, the New Cut, Lambeth, the Brill, Somer's Town, Fetter-lane, and last, not least, the Euglish Ghetto, Petticoat-lane, in which strong-smelling thoroughfare the Herbalist, the Coffinite, etc., although absent, are more thau compensated for, by a swarm of noisy, ignorant charlatans of tho gutter.

The New Cut in Laubeth, Surrey, is perhaps the great motropolitan stronghold for herbalists, medical halls and "In the opinion of many, the state of the Company is institutes; and upon a fine Suuday morning you may see a

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dozen loud-voiced fellows bawling out the virtues of their pills, 'lixirs, corn-plasters, salves, and cough-drops. These gentry, are chiefly, we apprehend, emissaries from the "halls" and "institutes," and from the sarsaparilla shops which mostly are congregated in the adjacent Newington Causeway. With their horrid wares and their strident, sickening orations thereanent, these scamps dispute the footpath with costermongers, ironmongery, and the vendors of cut-down Wellingtons—hoots razed to the Blucher form.

Let us take a glauce at one of these "Herbalist" depôts as we walk down the "Cut." It is not an inspiriting sight. If any one place more than another demanded neatness, order, cleanlincss, it is the place where medicincs aro sold. What do we find to be the caso here? Dirt and disorder, and pompous stupidity superadded. In the window we observe a large tray divided into compartments, very roughly put together, and of a dirty hue. In the neighbouring shop there is a tray somewhat like the one hefore ns. In this tray nails are contained; in the herbalist's tray, pills are found. The ironmonger's tray is a miracle of cleanliness in comparison with the herhalist's boxes. A hig-boned "navigator" enters, and presently the herhalist thrusts his grimy fingers into one compartment of the tray, the one upon which there is a label "20 a penny," and hooks out a handful of nasty globules which the placard further informs us are "wind pills." To judge from the constant appearance of wind pills in the windows, one might draw the conclusion that the stomachic apparatus of the inhabitants must be in a chronic state of disarrangement.

Turning aside, however, for the present, from the herbalists. let us map out our subject. The first division of it, naturally is, that which comprehends Coffinites, Herbalists, Sarsaparilla-sellors, and Street "Medicine-men."

These are the disreputable hangers-on to an honourable calling—the fringe, or rather the frayed-edge of a noble occupation.

Let our transactions to-day be with the vagabond vendor. His haunt is principally the abode of modern Jewry, Petticoat-lanc. To the East, then, on this dark, dirty, Sunday morning, when the atmosphere is composed of equal proportions of steam and soot, and when Sol has received his congé from the clerk of the weather for an indefinite period.

Arrived at our destination, we enter the narrow lane; it is choke full of pcople; we push on deftly; encounter the elbows and the odours of the rank-scented many; are stunned by the Babel of "Sheeny" English, Hebrew, and thick German Jew-speech. Keeping the centre of the roadway (for the men we are in queet of are stationed here), we pass the peppermint lozenge and clove-stick sellers, as foemen unworthy of our steel. We are in good time, for it is high Change in Petticoat-lane any hour hetween eight and one on the Sunday morning. We are soon made aware that, at the present wintry season, pectoral nostrums are in great demand. Rheumatism, however, is not far helind as an incentive to the purchase of street specifics. Wo halt heforo the stall of a red-hearded hooked-nosed Hebrew, who informs "shentleman" that he has for sale "the pill of health, likewise the healing salve for rubbing in the joints in rhoumatism, also the saccharum 'lixir." Hot cakes, for "costiveness and dyspepsha" are sold by the son of Judah, who also dispenses "mineral waters for the cure of every complaint." "Oh, how nice !" says Isaac, the proprietor, smacking his lips enthusiastically, "Oh, how nice! everybody asks for 'em." We thread our tortuous way through plate-powder, pipe-cleaners, silvering fluid, and dogs' collars, and come upon a somewhat incoherent man, from whom, with diffi-

culty, we gather that "if you want to prolong your life, and live to good old happy days, try the 'Merikin horchound candy." Elbowing our way through the thick crowd, we stop for a moment besido a hulking fellow, who holds in his arms a pioce of hydraulic apparatus, painted hright red, which he hugs to his hreast as though it were a great baby. "Now, gents," he repeats, with a monotonous whine, "try your lungs, try your wind. Dr. Ashley Cooper's wateringmachine for trying the strength of the lungs. Have a penn'orth, sir?" He thrusts towards us a flexible tube, with a heavy glass tip, which he makes a show of wiping with a very equivocal piece of rag. Refusing his proferred tube, we pass on. "For boil aud liver-complaints, scrape a small piece, the size of a nut. Take this fasting, the fust thing of a morning, masters. Also good for the inside, if took regular." This is the cry of an unwashed, unshaven, unkempt rustic-own hrother, we should say, to that miserablelooking countryman, who makes his living hy carrying about the unhappy owl, perched in a basket.

Always making headway through the adverse tide of vendors, purchasers, and loafers, we stop before a shop, at the door of which stands an unbarhered Hebrew, who, if he were a few years older, and a little more bent in the spine, might appear as the very prototype of Fagin, as depicted by the etching-needle of George Cruikshank. He is the proprietor of a strange-looking mart. Over the door, the legend runs-"Solomon Isaacs, poulterer." Exteriorly, however, there is nothing to justify this description of his trade. Overcoming, gradually, the impediments to locomotion from the ever-surging crowd, we get near the door, and, peeping in, hehold a number of emaciated fowls, sus. per coll., in the interior of the shop, above a very greasy counter, all scored hy chopper and knife, and littered over with what, anatomically, would be called "intestines," but in the ordinary language of the poultry trade, and of the cuisine, are termed "gihlets." The shop-front has been removed bodily, and from hasement to facia, the front of the shop is piled with cloth-caps, wide-awakes, and billy-cocks. "Here y'are, sort 'em out, and take 'em away at your own price," he shouts, pointing with his left hand to the rows of caps, whilst in his right he hrandishes an old, greasy, hilly-"Take it avay vid you," he goes on. "You can cock. have it cheap, its Burke's hat ; who'll huy Colonel Burke's hat?" This is received with a general grin on the part of the bystanders-the allusion to the head-covering of the incarcerated Fenian leader heing, considered very apropos.

Immediately in front of this energetic Semitic Arab, over against his co-religionist, Rachel Levy's, emporium for the sale and consumption on the premises of pickled cucumhers, onions, melons, heetroot, olives, and hard-hoiled eggs, stands a stalwart figure. To judge from mere appearances and externals alone, an ethnologist might designate him as not of the Semitic race, but of the Saxon hranch of the great Indo-Cermanic family, indubitably. Had Nature been consulted in the matter of this hrawny fellow's occupation, her reply would doubtless have been-" ploughman ;" but as the vagahend in question appears to have acted upon certain instinctive yearnings towards an easy and irresponsible walk in life, his calling here to-day is "nomadic medicament vendor." Slung across his broad breast by an oleaginous leathern strap, whose several solutions of continuity aro pieced out with string is what ouce was, and in its more reputable days, a dinner-tray. In one corner of this, the right-hand corner, and quite undor the protection of the tray-owner's heavy fist, lics a very respectable mound of penny and halfpenny coins. We approach somewhat nearer; the "medicineman" is at present husy serving his customers, and adding to the hulk of the bronze heap in the corner We observo

what he has to sell. He has a few whisps of dried herbs, a quantity of slender, fluted cylinders, of a dirty-blown appearance, which-judging from the case with which they ignite when the proprietor, in illustration of his remarks, sets fire to one-are of a composition closely allied to sealing-wax. These are for corns or warts, three sticks a penny. Warranted to cure corns, whether hard or soft, between or upon the toes, whether of recent origin or longstanding, immediately-or sooner! The "leading" article, however, is deposited in the place of houour, exactly in the eentre of the tray. This heap is made up of a quantity of morsels, rescubling neither the lozenge nor the jujube in form, but having a somewhat distant likeness to both. These are the eelebrated cough lozenges, a panacea for all pectoral ailments. "They are composed of mint, peppermint, horehound, and mash-mallow. They eases the eough, clears the voice, and gives a good flavour to the breath." All this time the big hakim is dispensing samples of his specific to the bystanders, on each of whom he in turn easts a serutiuising glanco; which glance, if satisfactory as indicative of a possible purchaser, is followed by the presentation of a cough drop. A number of little boys who have boldly struggled to a front place before the tray, look wistfully at the belauded atoms, but are treated with complete indifference by the vendor, who makes it a rule to pass the drop high above their heads and far into the rear. He resumes: "They are a halfpenny an ounce, twopence the quarter of a pound." His goods are eagerly bought; the bronze mound grows higher, broader, and heavier. "I've known him take five bob in one run," whispers a bystander to his companion. Assuming a louder tone, mayhap, in consequence of the briskness of trade, the speaker, who is sufficiently fluent, though rather discursive, goes on to make a few preliminary remarks as to the right of every man to obtain a fair hearing in this enlightened country. "I wants to know," he says, "why the doetors and the chemis and druggis puts all their perscriptions into Latin and Greek? Why, only as a blind ! What I sell here to-day is a better mixture and more sustenance in it than what you gets for a heavy price at the chemis and druggis shops. Bring all the gents from 'Pothecaries' 'all to me here. Ah ! I should like to see the Collego of Surgeons before me now; I'd talk to 'em." In his excitement he hands round the "drop" with renewed vigour. "The chemis and druggis "-he eoutinues-" the chemis and druggis has a fine shop, I know; plenty of big bottles and shiny counters, and lots of sealing-wax,-oh, lots of sealing-wax and nice clean paper to wrop their things in. But what's the use of their shiny counter, d'ye know? Why, your money slips out of yer pockets and aeross the shiny counter into their tills almost afore you knows what you've asked for. There's no one in this town cau sell an article like this. If you takes the drop, gentlemen, you wants no other medicine for coughs, colds, asma, or tightness of the chest. They eases the cough, elears the woice, and gives a good flavour to the breath. They are a halfpenny an ounce, and two-pence the quarter of a pound."

Turn we our back upon this blatant humbug. Let us forge ahead, leaving Jewry with its foul smells, its abominations to all the senses, behind.

STORAGE OF PETROLEUM.

A S the local authorities throughout the United Kingdom have received orders to enforce the Act of 1862 for the Safe Keeping of Petroleum (25 and 26 Vict., eap. 66), and as several correspondents appear to be in doubt as to the regulations which are laid down therein, we think it advisable to publish a brief abstract of the statute.

"Petroleum" as defined by the Act includes any product thereof that gives off an inflammable vapour at a temperature of less than 100° F.

For the purpose of guarding against any unnecessary risk of accident in the keeping of Petroleum, it is enacted that every vessel earrying Petroleum, on entering any harbour within the United Kingdom, shall conform to such regulations as to the place at which she is moored as may be issued by the harbour authority; for contravention of which the owner or master will incur a penalty not exceeding £20 for each day; and the harbour master may cause such vessel to be removed at the expense of the owner.

Not more than forty gallous of Petroleum is to be kept within fifty yards of a dwelling-house or building in which goods are stored, unless under license from the proper local authority. Any Petroleum so kept, in contravention of this provision, is to be forfeited, and the occupier of the premises to incur a penalty not exceeding $\pounds 20$ a day.

The local authorities granting licenses are thus defined :----

- In the City of London, except as hereinafter mentioned, the Court of Lord Mayor and Aldermen of the said city;
- (2) In the metropolis, as defined by the Act of the Session of the eighteenth and nincteenth years of the reignof Her present Majesty, chapter one hundred and twenty, except the City of London, and except as hereinafter mentioned, the Metropolitan Board of Works:
- (3) In any borough in England or Ireland, except as hereinafter mentioned, the mayor, aldermen, and burgesses, by the Council:
- (4) In any place in England or Ireland, except as hereinafter mentioned, within the jurisdiction of any trustees or improvement Commissioners, appointed under the provisions of any local or general Act of Parliament, the trustees or commissioners:
- (5) In any burgh or place in Scotland, except as hereinafter mentioned, within the jurisdiction of any Town Council, and not subject to the jurisdiction of police commissioners or trustees, the Town Council; but in any burgh or place in Scotland, except as hereinafter meutioned, within the jurisdiction of police commissioners or trustees exercising the functions of police commissioners under any general or local Act, the polico commissioners or trustees:
- (6) In any harbour within the jurisdiction of a harbour authority, whether situate or not within the jurisdiction of any local authority hereinbefore mentioned, the harbour authority, to the exclusion of any other local authority:
- (7) In any place in England or Ireland in which there, is no local authority as hereinbefore defined, the justices in Petty Sessions assembled, and in Scotland any two justices of the peace for the County.

Any two of the persons constituting the local authority may grant a license; but conditions may be annexed thereto, any violation of which will cancel the license.

The applicant for a license may appeal to the Sceretary of State in Great Britain, or Lord-Lieutenant in Ireland, in case such license be refused, or against conditions imposed, and the Secretary of State or Lord-Lieutenant may grant the license or modify the conditions.

Any forfeiture or penalty for an offence against the Act may be enforced in England and Ireland upon summary conviction before any two justices; and in Scotland, npon summary conviction at the instance of the Procurator Fiscal, before any sheriff, or before any two justices in the country, or before the magistrates or any police magistrate of the burgh in which the offence was committed. One nuoiety of the forfeiture and penalty shall belong to Her

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Majesty, and in England and Ireland the other moiety to the informer, unless the informer is a servaut of the person informed against, in which ease it shall be applied to such purposes as the justices may think fit; in Scotland the application of the second moiety shall in like manner be left to the discretion of the sheriff, justices, or magistrates.

Petroleum may be scarched for in the same manner as Gunpowder under the 23 and 24 Vict., cap. 139. The authorised inspectors may onter the stores at all reasonable times of the day without previous notice, tho penalty for obstruction being £5.

All powers given by this Act are in addition to previously existing powers, and nothing contained in it exempt any person from any penalty to which he would otherwise be subject in respect of a nuisance.

THE NEW VACCINATION ACT.

N the 1st of January, the New Vaccination Act of 1867. came into operation, and all the old Vaccination Acts, viz.-those of 1840, 1841, 1853, and 1861, are superseded. Our able contemporary, the British Medical Journal thus explains the provisions of the New Act, having a different effect to those which are repealed, so far as they specially concern the medical profession :---

First, not only has the scale of fees payable to contractors for vaccination been altered, but the conditions under which those fees may be claimed have also been enlarged. Thus the fees to be hereafter payable under the Act of 1867 are. for every vaccination at an appointed station situate at or within one mile from the residence of the vaccinater or in the workhouse, not less than eighteen pence; and for every vaccination at a station more than one mile and less than two miles from the vaccinator's residence, not less than two shillings; and when the station is more than two miles distant from the vaccinator's residence, he is to be paid not less than three shillings for each case. Under the old Act the fees were eighteen pence for every case vaccinated at the residence of the contractor, or within two miles therefrom; and when exceeding that distance, half-a-crown; and these were the only two classes of fees which the statute made.

It must, however, be borne in mind that the various Boards of Guardians throughout the country are not limited to giving these small fees to their vaccinators, but an impulse is rather given in the opposite direction, for the Act declares that the payment shall not be less than those above stated, but it will be quite open to the Guardians to give a higher remuneration if they are so disposed-a great opening for liberal Boards.

Let us take a glance at the conditious upon which the fees under the new Act may be claimed. We may presume that, under the Act of 1853, the only condition was that of successful vaccination, and that the fulfilment of that condition entitled the contractor to the fee; but under the new Act that is entirely changed, for there are several conditions attached to the proper and legal fulfilment of the duties which a public vaccinator undertakes. First of all, all vaccinations must be performed either at an appeinted station or the werkhouse; they must also be primary vaccinations (though, under certain circumstances, a contractor may be paid for re-vaccinations); they must, except in certain cases, all be of persons resident in the vaccinator's district (though previously, if the vaccinated persons resided in the union, that was all that was required as far as residence is concerned); and, of course,

the contracts must have been approved by the Poor-law Beard.

It will be seen from the above that the existing contracts throughout the country will have to be modified, and probably many of them will be annulled, and fresh ones entered into. The regulation as to certificates has been very considerably modified. Under the new law every public vaccinator is required to send, within twenty-one days of the successful performance of the operation, to the registrar a cortificate completely filled up and legibly written, and for neglect, he is liable to a penalty of twenty shillings; he is also liable to a penalty of the same amount if he refuse to give the parent a duplicate certificate when required to do so. A like penalty also attaches to every medical practitioner, even though he is not a public vaccinator, who refuses to fill up and sign the certificate of successful vaccination when submitted to him by the parent. All these penalties may be recovered in a summary manner.

As an inducement to public vaccinators to perform with care the dutics which they undertake, there is a supplementary payment provided by the Legislature in the shape of gratuities to be awarded by the Privy Council, which gratuities will, to deserving contractors, add one shilling per case to the amount which they will receive from the guardians of their union or parish.

MERCHANT SHIPPING ACT.

SCALE OF MEDICINES AND MEDICAL STORES.

Issued and caused to be published by the Board of Trade in pursuance of the Merchant Shipping Act, 1867.

	Preparations from British Pharmacopæia, 1867. This column is added for the use of Druggists sup-	Name≈ of Medicines, Medicaments, &c.		Propon carryi menti Mcn a 12 mo	r Ships under- No. of ys (for	
	dicated.			10 and under	11 to 20 incl.	21 and npw.
	Copaiba	Alum Balsam of copaiba Bicarbonato of soda		1 oz. 4 oz. 8 oz.	2 oz. 8 oz. 12 oz.	3 oz. 12 oz. 16 oz.
	*Mist. Sennæ Co	Black draught		1 pt.	2 pts. 2 pts.	3 pts. 2 pts.
	Dotto Hydraig. Migra 11	Carbolic acid		i gal.	1 gal. 2 lbs.	2 gals. 3 lbs.
	Potassæ Tartras Acida	Cream of tartar	•	2 oz.	4 oz. 1 pt. 6 lbs.	S oz. 1 pt. 12 lbs.
	Ess. Menth Pip	Essence of peppermint.	••	_	1 oz.	2 oz.
	Liq. Plumbi Subacet. dil.	Goulard's extract		1 oz.	2 oz.	4 oz.
	Tr. Opii	Laudanum		2 oz.	4 oz.	8 oz. 28 lbs.
	Argenti Nitras	Lumar caustic		1 oz. 2 oz.	1 0%. 4 0%.	1 oz., 8 oz.,
	Ung. Resinte	Ointment, Basilicon		3 oz.	6 oz.	10 oz.
	" Hydrargyri … " Simplex	, Simple		6 oz.	12 oz. 8 oz.	10 oz.
I	Lin, Opii	Opodeldoe	•••	3 07.	6 oz.	10 07.
	Tr. Camph. Co Pil. Hydrarg 5 gr.	Pills, Blue		1 doz.	2 doz.	3 doz.
	, Ipecae, c. Scilla 5 gr. , Sapon. Co 5 gr.	,, Opium	•••	1 do%.	2 doz.	8 doz.
	" Coloc. c. Hyose, 5 gr. Rhei Co 5 gr.	,, Purging	•••	3 doz. 3 doz.	6 doz.	Sdoz.
l	Pulv. Rhoi Co.	Powder comp. Rhuba	rb	07.	4 doz.	8 021
	", Cret. Arem.	š ,, diarrhœa	•••	1 oz.	2 07.	3 oz.
	" Ipccac. Co	Dover's	•••	1 oz.	2 oz. 2 oz.	3 oz.
ľ	Cu. Maturia Mitnesi	SQuinine	••	1 07.	2 oz. 2 oz.	3 oz. 3 oz.
	op. Actions Mitrosi	Sulphate of zinc	•••	1 oz.	2 07.	\$ 07. \$ 07
	Tr. Hyoseyami	Tincturo of henbano	•••	1 oz.	2 07.	3 07.
	Lin. Terebiuthing	Tarpentine liniment	••	2 0%.	4 07.	6 oz.

" Omit extract of liquorice, and substitute aroundle spirit of ammonia,

1 or, to 1 plut of the mixture.
† As an antikeptic and deederising agent for common use.
† For purifying drinking water when uccessary.
§ Double the quantity above indicated to be taken to all tropical ports.

Particulars.	Scales of Medleal Stores and Necessaries.	Propertion for Ships earrying the under- mentioned No. of Men and Boys (for 12 months).
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TECHNICAL INSTRUCTION.

THE following Minute, which has an important bearing L on the subject of Technical Instruction, has recently been passed :--

"At Whitehall, on the 21st day of December, 1867. By the Right Hon. the Lords of the Committee of Her Majesty's Most Hon. Privy Council on Education. Present -His Grace the Duke of Marlborough, Lord President of the Council; the Right Hon. Lord Robert Montaga, M.P., Vice-President of the Committee of Council on Education.

"SCIENTIFIC INSTRUCTION.

" LOCAL AND CENTRAL SCHOLARSHIPS.

"My Lords consider the subject of scientific instruction with a view to its further encouragement and diffusion.

"1. They refer to the 'Science Directory' of the Science and Art Department, and to the Minute of the Education Department of the 20th of February, 1867, making addi-tional grants for secular instruction to elementary schools.

"2. In order to assist the artisan classes who may show an aptitude for scientific instruction, my Lords resolve to aid local efforts in founding Scholarships and Exhibitions. The Scholarship is intended to maintain the student while remaining at the elementary school, and the Exhibition to support him while pursning his studies at some central institution where the instruction is of a high grade.

"3. Local Scholarships .- These are of two kinds-the Elementary School Scholarship and the Science and Art Scholarship.

"4. Elementary School Scholarships .- The Science and Art Department will make a grant of £5 towards the maintenance of a deserving student to the managers of any elementary school who undertake to support him for one year, and subscribe also at least £5 for that purpose.

"5. Conditions :--

register of the school there can be but one such Scholarship; above 100 and up to 200 two Scholarships, and so on for each 100.

"b. The Scholarship must be awarded in competition to the most successful student or students in some examina-tion of the school. The absolute terms of the competition and the award of the Scholarship will be left to the managera of the school, subject to the approval of the Science and Art Department.

"c. Tho scholar must be an artisan or poor student as defined by the 'Science Directory,' and be between twelve and sixteen years of ago.

"d. He must not be a teacher, pupil-teacher, or other paid servant of a school.

"e. He must continue regularly to attend the day school, and

"f. Pass in some one or more branches of science at the succeeding May examination of the Scieuce and Art Dcpartment, after which the Department grant of £5 will be paid.

"6. These grants will be made from year to year on the condition that the student each year pass in a new subject, or in a higher grade of the same subject in which he first passed. It will be for the locality to determine for how many years the student may hold the Scholarship, but in no case can he be allowed to hold it for more than three years:

"7. The Science and Art Department will hereafter consider such alterations in these conditions as appear necessary.

"8. The Science and Art Scholarship.-The Science and Art Department will make a grant of £10 towards the maintenance of a student at an elementary school* who has taken a first grade in freehand or model drawing and elementary geometry (see 'Art Directory'), and passed in one of the subjects of science (see 'Science Directory').

"9. Conditions :-

"a. With any number of scholars up to 100 on the register of the school there can be but one such Scholarship; above 100 and up to 200 two Scholarships, and so on for each 100 scholars.

"b. The Scholarship will be awarded to the most successful student or students in the school.

"c. The scholar must be an artisan or poor student, as defined by the 'Science Directory,' of between twelve and sixteen years of age.

"d. He must not be the holder of an elementary scholarship, the teacher, pupil-teacher, or other paid servant of a school.

"e. He must continue regularly to attend the day school, and

"f. Obtain at least a third class in the same subject of science in which he had already passed, or pass in some other subject.

"g. In each year of holding the Scholarship he must pass either in a higher grade of the same subject or in a new subject.

"10. Local Exhibitions .- The Science and Art Department will make a grant of £25 per annum to the managers of any school or educational institution, or any local committee formed for the purpose, who will raise the like sum by voluntary contribution for the maintenanco of a student at some college or school where scientific instruction of an advanced character may be obtained. The Exhibition may last for one, two, or three years.

"11. Conditions :-

"a. The Exhibition must be awarded in competition in one or more branches of science at the May examination of the Science and Art Department. The managers may select any branch or branches of science for the competition, and if more than one be taken they may fix any relative amount of marks they consider best to assign to them.

"b. The place where the student is to pursue his studies may be fixed by the managers subject to the approval of the Science and Art Department. If a Government institution be selected, such as the Royal School of Mines or Royal College of Chemistry, London, or the Royal College of Science, Dublin, the fees of the student will be remitted.

"a. With any number of scholars up to 100 on the instruction is given, whether aided by the State or not.

"c. The Exhibitioner must be of the artisan class or poor student, as defined by the 'Science Directory.' "d. Tho grant of the Department will be paid from year

to year on condition that a like payment has been mado by the managers or local committee, and that the student has pursued his studies satisfactorily according to regulations fixed by the Department.

"12. Transmit a copy to the Treasury, and request sanction to provide in the estimate for the increased expenditure likely to be occasioned by this Minute."

Tho picturesque account of the Street Medicine-Sellers furnished by our Commission is the introduction to a series of articles, in the preparation of which our readors may materially help us by forwarding accurato information upon matters relating to the condition and practice of classes intimately or remotely connected with the drug trade.

The great success of the Chemists' Ball of last year, has induced its projectors to issue cards for a second, which will be held at Willis's Rooms, St. James's, on Wednesday, the 22nd instant. Among the stewards are some of the bestknown members of the trade, both within and without the Pharmaceutical Society. We are quite sure to meet all who attended last year with many new friends.

The first number of a new series is sure to disappoint the expectations of its projectors. The best laid plans are often defeated by some simple accident, and the number, notwithstanding the pains bestowed upon it is seldom a fair sample of what is to follow. For instance, we proposed to supply our readers with articles on Dentistry, Veterinary Practice, and other subjects, which are scarcely referred to in the present issue, but which we recognise as proper grist for the mill. It is no fault of ours that there is nothing new this month to communicate under these heads.

At the eighth half-yearly meeting of the Chemists' Assistants Association, noticed in another column, Mr. Willmott offered the sum of one guinca to be added to a similar amount from the funds of the Association, for presentation to the member contributing the best essay "On the Dispensing Lepartment: its Management and Supervision Practically Considered." The offer was accepted, unanimously. At a later meeting, held on Saturday last the chairman st:ted that the proprietors of the "Chemist and Druggist" had added an additional guinea to the premium.

Amongst the many scieties which have recently arisen for protection from robbey, few commend themselves more than that established by he Wholesale Druggists, who, for a long period, have so lagely suffered; in fact, there is seldom a receiver of stolen goods whose store is examined, without articles being discovred which have been abstracted from houses in the Dru Trade. The object of the Society is, to reach if possible the guilty parties, especially the receivers, and most liberatiwards will be given to those by whose information conviction may be obtained. The members also pledge themselves , no case to interfere with the prosecution of any offender, ut to leave the matter entirely with the solicitor of the Shiety, C. O. Humphreys, Esq., (Humphreys and Morgan) (Itspur Chambers, 119, Newgaie-street, who will be glad t receive in the fullest confidence, any information that p-sons are willing to offer.

Even the Lancet virtually admits that there is a rule of conduct higher than "professional etiquette," and that the first duty of a modical man, when life is at stake, is to bring all the skill and knowledge he can command to ameliorato the condition of the patient. The following notico of an inquest, extractod from the current number of our medical contemporary, calls np a ghastly figure of Professional Etiquette :-

"An important inquest was held at Snettisham last week on the body of a woman who had died immediately after delivery. It appeared in evidence that an unqualified practitioner, named Clarke, of Snettisham, had been in attendance on the woman for some considerable time, and being unable to deliver her, sent to Mr. Flockton, a surgeon in the town, to assist him. Mr. Flockton declined to meet Clarke, who in consequence rotired, and Mr. Flockton immediately attended. Finding the case one of unusual difficulty, and requiring the administration of chloroform, Mr. Flockton sent to Hunstanton for Dr. Meller, who arrived at the expiration of two hours. The woman was placed under the influence of chloroform by Mr. Flockton, and Dr. Meller delivered her in a very short time. She survived the delivery about twenty minutes. The object of the inquiry was evidently to determine how far Mr. Flock-ton's conduct was open to censure in not immediately attending when Clarke sent for him, and delivering the woman with Clarke's assistance, instead of delaying the proceedings for upwards of two hours in order to obtain the aid of Dr. Meller. It should be stated that Dr. Meller had given his opinion at the inquest that if the woman had been delivered two hours before, her life might have been saved. There was evidently a strong feeling upon the part of the jury against Mr. Flockton, and they eventually returned the following verdict :-

'That deceased died in childbed; but the jury regret that Mr. Flockton did not make use of the services of Mr. Clarke, instead of delaying to send for another doctor from Hunstanton.'

It is remarkable that no expression of opinion was given by the jury as to the conduct of Clarke in permitting the woman to be so long in labour before he applied for the assistance of a qualified practitioner. The case is a painful one, and we regret that Mr. Flockton allowed any freing of professional etiquette to influence him in refusing his help when life was at stake. This is not a time to be punctilious on points of form or ceremony."

MEMORABILIA 1867.

JANUARY.

- 2. The Council of the Pharmaceutical Society discussed important communications received from the Bath Chemists' Association and the Chemists and Druggists ot Manchester, respecting the proposed extension of the Pharmacy Act.
- 4. Intensely cold weather in London; the thermometer at noon at 5 degrees Fahrenheit.
- 9. At a meeting of the Leeds Chemists' Association, the secretary read a communication from Mr. Orridge explaining the origin of the movement for an extension of the Pharmacy Act.
- 16. Parliamentary Committee of the Pharmaceutical Society had an interview with Earl Belmore at the Home Office.
- 24. Meeting of Chemists and Druggists at the Londou Coffee House, convened by the Executive of the United Society, to consider the proper als for an extension of the Pharmacy Act. 30. The Chemists' Ball at Willis's Rooms attended by 247
- ladies and gentlemen.
- 31. Seventh Annual Soirée of the Glasgow Chemists and Druggists' Association.

FEBRUARY.

- 5. Parliament oponed by the Queen.
- 7. The Bank rate of discount reduced from 31 to 3 per cent.
- 19. Conferences at the Pharmaceutical Society's Rooms upon the proposed extension of the Pharmacy Act. Depu-tation from the United Society introduced by the

President, Mr. Matthows. Doputation from Chemists unrepresented by any society introduced by Mr. Wado. 20. Dinner for the benefit of the Benevolent Fund of the

- Pharmaceutical Society, at Willis's Rooms, attended by 264 gentlemen interested in the charity. Subscriptions and donations collected amounted to about £1,450.
- 28. Annual dinnor of the Bolton District Association of Chemists and Druggists.

MARCH.

- 8. Conversaziono given by the Pharmaceutical Society in the Industrial Museum, Edinburgh. Annual Meeting of the York Chemists' Association.
- 18. The Government Reform Bill introduced by Mr. Disraeli, and read a first time.
- 26. The Reform Bill road a second time without a division.
- 30. Anniversary meeting of the Chomical Society.

APRIL.

- 1. The Paris International Exhibition formally opeued by tho Emperor
- 4. Mr. Disraeli introduced the budget; the surplus of £1.206,000 applied to the cancolling of £24,000,000 of the National Debt by means of terminable annuities, and to the reduction of the Marine Insurance duties.
- 16. Annual Meeting of the Pharmaccutical Society, Edinburgb.
- 18. First annual dinner of the North Staffordshire Chemists and Druggists, at Stoke-upon-Trent.
- 22. International banquet of Chemists and Physicists at Paris.

MAY.

13. The Reform Bill for Scotland introduced by Mr. Disraeli.

- 14. Conversazione of the Pharmaceutical Society, Bloomsbury-square.
- 15. Twenty-sixth Anniversary of the Pharmaceutical Society. Annual General Meeting and Special General Meeting of the Society.
- 20. The foundation-stone of the Hall of Arts and Sciences at Kensington laid by the Queen.
- 30. The Bank of England rate of discount reduced from 3 to 21 per cent.

JUNE.

- 6. Mr. Daniel Hanbury elected Fellow of the Royal Society.
- 26. Festival of the United Society of Chemists and Druggists held at Manchester.

JULY.

- 1. The prizes at the Paris Exhibition distributed by the Emperor.
- The Reform Bill read a third time and passed in the 15. House of Commons.
- 16. The Reform Bill read a first time in the House of Lords.
- 23. The Reform Bill read a second time in the House of Lords.
- 25. The Bank of England rate of discount reduced from 21 to 2 per cent.

AUGUST.

- 6. Thirty-fifth annual meeting of the British Medical Association commenced at Dublin under the presidency of Dr. Stokes. The Reform Bill read a third time and passed in the House of Lords.
- 7. At a meeting of the Pharmacentical Council, the following awards were declared :- LECTURES, Chemistry and Pharmacy: Medal, Hermann Woolley; Certificate of Honour, Joseph Bemrose; Certificate of Merit, Henry Thomas Harwood; Botany and Materia Medica: Medal, H. Woolley; Certificate of Honour, John Scoley Battle; Certificates of Merit, J. Benrose, William Foster. LABORATORY, Practical Chemistry: Medal, Foster. LABORATORY, Practical Chemistry: Medal, J. S. Battle; Certificates of Merit, Edward Earl, Alexander Pedler. JACOB BELL SCHOLARSHIPS: Senior, Joseph Bemrose; Junior, Alfred Neobard Palmer. PERFIRA MEDAL: Hern un Woolley.
- 15. The Reform Bill received the Royal assent.
- 18. Michael Faraday died, aged 76.
- 21. Parliament prorogued by Royal Com nission.

30. Pharmacy School cricket match between the "laboratory eleven" and the "lecture students eleven," resulting in a victory for the former.

SEPTEMBER.

- 3. Fourth Annual Meeting of the British Pharmaceutical Conference opened by Professor Bentley at Dundce.
- 4. Session of the British Association for the Advancement of Science at Dundee, commenced under the Presidency of the Dake of Buceleuch.
- 9. Fifth Annual Meeting of the Leeds Chemists' Association.
- 10. Fifteenth Annual Session of the American Pharmaceutical Association, opened by Prof. Parrish, in New York.
- 18. Social Scienco Congress assembled at Belfast under the Presidency of Lord Dufferin.

OCTOBER.

- 18. Election of two Annuitants on the Benevelent Fund of the Pharmaceutical Society.
- 21. The Royal Bank of Liverpool stopped payment, with liabilities amounting to £1,650,000.

NOVEMBER.

- 3. Paris Exhibition closed.
- Parliament opened by Royal Commission.
 The case of Liebig's Extract of Meat Company, v. Allen and Hanbury, decided in favour of the defendants.

DECEMBER.

- 3. The trade case of Lamplough v. Balmer decided against the plaintiff.
- 17. Terrible explosion of nitro-glycerine at Newcastle-on-Tyne, causing the death of Mr. Mawsou, the sheriff of the town, and six other persons.



DR. DEWAR'S VULCANITE SPRAY PRODUCER.

THIS apparatus is described in Dr. Dewar's pamphlet "On the Application of Sulphurons Acid, gaseous and liquid, to the prevention, limitation, and cnre of Contagious Diseases.'



The employment of sulpurous acid in the form of spray was first recommended b the Kirkcaldy physician in 1866, and constitutes the most mportant feature of his system of treatment. Many medal men have used the spray in cases of diphtheria, brochitis, catarrh, etc., and have testified to its remarkable terative powers.

A clever writer in the Medical Times and Gazette states that he has tried r. Dewar's system ou many persons

of all ages, and can certify that, despite the suffocating odour of the sulphurous acid when smelled in bulk in the bottle, the spray is singularly agreeable and soothing to the throat. Dr. Dewar himself thus describes the method of applying the spray :---

"For the last eight months I have used the Spray Producer daily with the most gratifying and wonderful success; for while I have not seen a single case out of the great number to whom I have applied it suffer the slightest inconvenience, it has been the means of effecting cures in circumstances where such was little hoped for.

"The simple operation is thus conducted :—I hold the nozzle of the instrument about six inches from the patient's mouth, and administer three or four 'whiffs' to begin with; then, after an interval of a few seconds, during which a cough or two is given, the same thing is repeated, amounting to about twenty squeezes in all, which represents the injection of from forty to sixty minims of sulphurous acid.

"In some instances a single trial suffices for a cure; in others, and those of a more acute character, its hourly repetition is not only safe, but highly serviceable; while in diphtheria I have known cases wherein a renewed application every fifteen minutes was exacted with impatient punctuality. Richardson's instrument and the ordinary glass one answer the purpose sufficiently well; but the former is open to the objection of soon getting corroded, the latter, too, being very liable to accident, even in the most careful hands, and accordingly I contrived to have one made of 'vulcanite,' which works excellently well, and is suitable for any-kind of acid liquid."

The acid employed should be pure (Brit. Pharm.), and care should be taken that the direction of the points of the tubes is not disturbed, the one opening blowing exactly over the other. Should the orifices get-plugged, they may be cleaned by a bristle or by sucking water through them backwards. Our woodcut represents the Spray Producer as manufactured by Mr. David Sterrar, of Kirkealdy, and needs little description. The instrument consists of a vulcanite odorateur tube inserted in a bottle of strong snlphurous acid. A censtant current of air, impelled by a double india-rubber ball, as in Dr. Richardson's spray producer for local anæsthesia raises a minute jet through the odorateur tube, and propels it against the throat or wherever else t may be wanted.

THE SILICATED CARBON FILTERING TAP.

This useful invertion is intended for purifying water as it flows from an ordinary cistern or water-butt. The filtering tap is especially recommended to the proprietors of small tenements in poor ocalities, where, in many cases, several

families derive this supply from the same receptele, and where the water used to drinking and cooking is lable to every kind of contamation.



The filtering medium is placed in the front part of the tap, which, for convenience, a made to unscrew. In order to clean the filtering-tap (which may be done without emptying the butt) it is only netssary to unscrew the front part and blow strongly through 4. By this means all the imparties are brought to the suface of the filtering medium, and may be washed off before placing the tap.

Whilst on the subject of filts, we would also notice an improvement lately introduced by the Silicated Carbon Filter Company, in substituting india-rubber for cork, for the sockets into which the taps of their filters are fitted. This prevents the leakage of the water from the softening or eracking of the corks, which has hitherto proved a considerable annoyance in using filters.

GARDNER AND AINSLIE'S SULPHUR PASTILLES.

DR. DEWAR'S sulphurous acid medication has led to the inintroduction of these convenient pastilles for the production of sulphurous acid gas. The pastilles have the appearance of ordinary conical rifle bullets, and are made in two sizes, the smaller being adapted for ordinary purposes and the larger for fumigating hospitals, putlie schools, ctc. When onc of these pastilles is ignited, it burns steadily with the characteristic blue flame of sulphur, and gives off puregaseous sulphurous acid, which may be used for inhalation in throat affections and diseases of the air passages, and forthe prevention and cure of contagious diseases. The usual method of producing sulphurous acid gas by sprinkling flowers of sulphur on hot coals is clumsy and dangcrous, and Messrs. Gardner and Ainslie deserve the thanks of the medical profession for introducing these handy and effective pastilles.

CURTIS AND CO.'S IMPROVED INHALER.

This inhaler seems to us to exemplify in a very perfect way, the careful adaptation of means to the end desired. It is strong, portable, and well-fitted, may be readily cleaned, and what is most important, cau be conveniently used by a

patient when in a reelining position, as its shape permits it to rest on the pillew without danger of upsetting. The objection to the use of cork, namely,--that it is liable to swell or contract, is obviated in this inhaler by the substitution of an india-rubber ring, fitted securely round the stopple. The tube is clastic, and is provided with a most convenient mouth-picce. In the neck there is a perforated por-



celain disc for supporting a sponge moistened with any preparation that may be prescribed for inhalation. The apparatus is therefore peculiarly well-suited for the administration of chloroform, ether, creasote, and other volatile substances; as from its construction, the exact dose ordered can be administered. For the inhalation of the vapour of hot water only, or the infusion of stramonium, hops, etc., the perforated disc is removed. The air to supply the place of the vapour inhaled, enters the inhaler through two channels, and must pass through the liquid.

RIMMEL'S PERFUMED VALENTINES.

A FURTHER illustration of Mr. Rimmel's tastc is shown in his new series of most charmingly conceived and designed valentines, issued for the benefit of the votaries of the lovers' saint. They are mostly of French design, and are really works of art.

COPAIBA DURA-BURT.

MR. G. E. BURT has recently introduced a novel form of that much-used, nauseons specific, copaiba. It is described as "pure balsam of copaiba, solidified to a pilular mass by an ontirely new process, which retains all the essential oil, covers its taste, and increases its medicinal powers." Dr. Attwood, of the Pharmaceutical Society's laboratory, certifies that a specimen of copaiba dura examined by him contained, in a hundred parts, eighty-five of true balsam. We can only add that it is a yellowish white soft folid, with very little taste. Mr. Burt is entitled to much credit for haviag so successfully carried out his idea of solidifying a nauseous liquid. Whether the new preparation is or is not more effective and more convenient than the old fluid balsam, is a questiou for medical practitioners to decide.



Little Experiments for Little Chemists. By WILLIAM HENRY WALENN, F.C.S. Londou: T. J. Allman. 1s.

E think the author has been mistaken in the title he has given to his book; more especially is this to be remarked because he has been most happy in his method of handliag the subject he has taken up. Instead of being merely a hook of trifling experiments for amusement, as the title would lead oue to infer, it is a work upou elementary chemistry treated in a practical and experimental form. Tho method of working is set forth with much elearuces, and the experiments are arranged so as to lead the youth from the very heginning of the subject up to the verge of analytical chemistry itself. Seventy-two substances are taken in hand, and their relations to each other are traced out in such a logical maaner, that they are a key to the rest of chemical seience, as far as the operations of precipitation, crystallization, and deposition of rietals can clucidate the subject. The results that the man pulator obtains are thoroughly explained, and the uses to which they are applied are practically put forth. It is astonishing to find how much real practical, useful information can be evolved from these substances by the experimenter himself, by the use of a few test-tubes, evaporating dishes, and strips of metal. One hundred and fitty-one experiments are arranged in order, but in reality there are many more, for the work is highly suggestive. Without introducing more points than aro absolutely necessary to work out a result and understand it, the experiments are complete in themselves, and are evidently written from the laboratory table. The introduction is penned in a geuial and rather enthusiastic spirit, and the experiments are arranged in series that lead up to the methods that are used in qualitative analysis for detecting the presence of substances. Au appendix, apart from the work itself, contains the new nomenclature and notation, accompanied by synoayus. The work is upique, and many results not generally known are here obtained with ease, and lucidly explained. For schools, for affording a groundwork of chomistry apart from difficult operations, and for all beginners, the work will be a boon. It is also a work of reference as far as it goes, and all those who make chemistry a study will find it a useful acquisition.

NEW BOOKS.

Half-Yearly Abstract of the Medical Sciences. Vol. XLVI. Churchill. 6s. 6d.

Galloway's First Step in Chemistry. Fourth edition, fcap. 8vo. Churchill. 6s. 6d.

Kay Shuttleworth's First Principles of Modern Chemistry. Crown 8vo. Churchill. 4s. 6d.

Neligan's Medicines: their Uses and Mode of Administration. Seventh edition. By R. Macaamara. Thick Svo, pp. 934. Churchill. 18s.

Kirby's Ready Method of Administoring Remedies by Means of Portable Dispensaries and Prepared Medicines. Reashaw. 1s.

Braithwaite's Retrospect. Vol LVI., from July to Dec. Simpkin, Ma:shall, and Co. 64.



THE POISON OF THE COBRA.

OME interesting experiments have lately been made D in India relative to the action of the poison of the eobra by Dr. Shortt. According to the Lancet this gentle-man, having regard to the numerous lives that were lost annually in India from the bite of this snake, was mainly anxious to discover some antidote for its poison, and set nbout testing the various remedies in repute for that object. After much expense, and no little risk to himself, he has found that all are valueless. Still thinking that some effectivo agent might he knowu to the natives, he offered a reward of 500 rupees for its production, stipulating that he (Dr. Shortt) should find the cobras and conduct the experiments, which were to be three in number. The prize still remains unawarded. Recently Dr. Shortt has received a communication from Sir T. Madava Row, the Dewan of Travaacore, intimating that his Serene Highness the Mahamataka and the series of the s Maharajah has taken much interest in the question, and begs to offer a reward of 1000 rupees, under such conditions as Dr. Shortt may think desirable, to the person who can produce a remedy, and satisfy him that it is effectual against snake-bite. The prize, therefore, new amounts to £150. The discoverer, whoever he may be, will serve the cause of humanity greatly; and this announcement, our contemporary hopes, will awaken an interest in the question that may lead to some satisfactory result. Dr. Shortt has heen good enough to say that he will he glad to facilitate the conductiou of experiments (or to receive any suggestions thereon), and that he will consign to our contemporary, for the use of any gentleman disposed to investigate the question, heads of cobras, uuinjured, preserved in spirits or simply dried, or in any other way that may be desirable; and, should our contemporary advise it, he will send one or more cobias themselves for experiment, provided that every precaution he taken to prevent the likelihood of any aceident occurring. The Lancet confesses that the idea of receiving cobras is exceedingly unpleasant, but accepts the responsibility in the eause of science, and hopes that the result of the experiments will be the discovery of an antidote to a poison which kills so many human beings every year.

FRENCH TREATMENT OF ACUTE RHEUMATISM.

In the Paris hospitals there have been latdy a number of cases of acate articular rbeumatism. Its interesting to study the different modes of treatment adopted by medical men. The greater number give the prefrence to the sulphate of quiune, but they do not all administer it in the same way. Many practitioners give it ony in doses of from 60 to 80 centigrammes, and coutinue to same while the acuteness of the symptoms continues. M. Monneret gives as much as 4 or 9 grammes of this malicine, but in fractional doses, and with careful observition of its action. Finally, between these two extremes, are is another and apparently very satisfactory mode of administration. At first, the dose is from 80 centigrampts to 1 gramme; it is afterwards gradually increased to 2 rammes or 2 grammes and 90 centigrammes at the end of hree or four days. This doso is continued for several days, ad then gradually diminished until the cure is decided. It is generally allowed that the sulphate of quiaiae acts a these cases as a counterstimulant; but Dr. Frémy, of ac Beaujohn Hospital, dissents from this view. He majdains that it should from the beginulng be given in large des, hecause it acts peculiarly as a disturbing medium, hy afficting a more or less violent shock o i tho animal econ⁴⁰Y, so as to sharply arrest the eourse of the disease. Frin this point of view, although

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preferring the sulphate of quinine, M. Frémy would willingly employ other active medicines in rather large doses, such as tartrated antimony, opium, etc. No practitioner any longer believes in the influence of sulphate of quiuine in the production of eerebral rheumatism, of which apprchensions had been raised by the observatious of MM. Bourdon and Vigla. The use of nitrate of potash in the treatment of acuto articular rheumatism is nearly abandonod. The same may be said of voratrine, formerly lauded by Piedaguel and Aran, and which produced excellent results. Dr. Oulmont, physician to the Lariboisière Hospital, almost exclusively employs digitalis. Guided in his first trials by the researches of Traubo in Germany and Hertz in France, M. Oulmont administers an infusion of 1 gramme of the pulverised herb in 120 grammes of water-a teaspoonful every hour. At the end of from thirty-six to forty-eight hours, the pulse and the temperature are lowered; on the third or fourth day, the pulse falls from 20 to 40, and the febrile heat is considerably diminished. At the same time, the rheumatic manifestations rapidly disappear. The cure sometimes takes place in six or seven days, but ordinarily in from twelve to niueteen days. No cerebral or eardiac complications ever supervene. These facts are of such a nature as to encourage experiments on a large scale in the administration of digitalis in acute articular rheumatism. As a matter of course, these different methods of treatment are always accompanied by general or local adjuvants, the ordiaary use of which presents no interesting features. -British Medical Journal.

Photography.

PHOTOGRAPHIC PATENTS.

THE present position of photography is well illustrated by the "Abridgments of Specifications relating to Photography," Part II., A.D. 1860-1865, lately published by the Commissioners of Patents.

From this work, we find that during the years to which it relates, 172 applications were made for Letters Patent for photographic inventions, and that 98 were granted, there being 72 Provisional Protections, and 2 cases in which Provisional Protection was refused by the Law Officer of the Crown.

The present extended use of albums has almost entirely sprung up during this period; 15 specificatious relate to this branch of the subject. Photo-sculpture, phenakistoscopic apparatus, micro-photography, and enlarged photographs are set forth in 15 specifications; and improvements in stereoscopes, eameras, panoramic photography, photozincography, enamel photographs, and the production of printing surfaces are represented by 58 specifications.

Ia "photo-sculpture," M. WILLEME, the original inventor (see No. 256, A.D. 1863), euploys photography, in connection with the pantograph, to produce sculpture of any size, a series of photographs of the model from suitably-placed cameras being used to guide the tool of the pantograph in corresponding planes in succession. By this means a solid copy of the model, in marble, clay, &c., is built up of the various contours that are separately obtained.

M. CLAUDET read a paper to the British Association on this subject, in September, 1864, which is duly alluded to in the "Introduction." He also improved upon M. Willdme's process (see No. 3107, A.D. 1864) by substituting enlarged images of the original photographs (made by the camera) for the tracings of the pantograph. The images were projected on to the clay itself, and their contours followed by hand.

Mr. W. T. SHAW (see Introduction, p. xi., and Appendix, p. 127) applies the principle of the stereoscope to instruments which depend for their results npou persistence of

vision, and uses photographic pictures to ensure satisfactory results. In a paper read to the British Association in 1865, M. CLAUDET describes a method of producing photographic figures that apparently move, by a somewhat similar combination. Microscopic instruments of this class are described by BONELLI (No. 2063, A.D. 1863, and No. 1588, A.D. 1865); and DUMONT (No. 1457, A.D. 1861) sets forth methods of producing the series of photographic images, necessary to give the pleasing and lively effects of these justruments. Any one who has seen the effects produced by instruments of this class (of which the phenakistoscope, and the so-called "wheel of life" are examples) caunot fail to be struck by their special adaptation to the teaching and amusement of children; and even children of advanced age and larger growth will-from examination of such instruments-fully realiso the power of scientific applications of thought to raise their philosophy to enthusiasm.

M. CLAUDET, and others (Introduction, p. x.; No. 363, A.D. 1864; and No. 1000, A.D. 1864) adapt the solar camera to obtain enlarged photographic pictures from small negatives.

The improvements in stereoscopes are numerous, and comprise folding, panoramic, and other stereoscopes. SWAN (No. 559, A.D. 1860) constructs his instrument with lenses and pictures, respectively of different sizes. HIBST AND WOOD, RUSSELL, and CASSAIONES (No. 1611, A.D. 1862; No. 1944, A.D. 1862; No. 3071, A.D. 1862; No. 1204, A.D. 1863; and No. 2618, A.D. 1863) set forth methods of producing coloured effects; and SWAN (No. 3249, A.D. 1862) produces the effect of a solid figure, enclosed in glass, by means of glass prisms, on certain facets of which stereoscopic pictures are mounted.

Of the twenty specifications that relate to photographic cameras, the following arc worth notice:--Mr. SUTTON (No. 2073, A.D. 1861) substitutes for the ordinary focussing screen, a screen fitted into an open panel in the top of the camera, an erect image being thrown upon it by meaus of a reflector, so placed that, at the same time that it reflects the object in frout, it shields the sensitive plate from the light which passes through the leus. MANN (No. 948, A.D. 1862) specifies an instantaneous camera-shutter and other points. ALLEN Wilson (No. 1712, A.D. 1862) makes the camera box also serve as a dark chamber, with appurtenances to seusitise, and develop collodion pictures. CEILEUR (No. 478, A.D. 1863) describes a plate carrier for enabling 100 or more impressions to be obtained on the same plate, without removing it from the plate holder.

Amongst the scientific applications, the Introduction furnishes information respecting the work of the self-recording instruments at Kew and at Groenwich, the actinic spectra of tho metals, and "celestial photography." The peculiarities of the chemical action of the light evolved from metallic and other sources, and passing through different media, are well investigated and described in a paper read to the Royal Society in 1862, by Dr. W. A. MILLER. Sun pictures, stellar photography, and kindred investigations, principally by that veteran astronomer and physicist, WARREN DE LA RUE, are done justice to, the account of the solar eclipse of July 18, 1860, occupying a prominent place. It is worthy of notice that, in stellar photography, it is necessary to put the images of the fixed stars out of focus, in order to render them visible in the photograph.

The following remarks relate to processes :—In the aniline process by WILLIS (Introduction, p. xix., and No. 2800, A.D. 1864), the vapour of aniline is used to darken the impression. PETSCHLER and MANN (Introduction, p. x.), in their new collodio-albumen process, involving the use of a chloride, are enabled to sensitise their plate by aqueous washing ouly. MARÉCHAL and DU MOTAY (No. 1060, A.D. 1864) produce "indelible photographs," by a process in which the picture, reduced by ferrons sulphato, is strengthened by the action of pyro-gallie acid. The well-advortised WOTHLYTYPE process (No. 2347, A.D. 1864) has the employment of uranium nitrate to sensitise paper, for its chief novelty. The carbon process (No. 955, A.D. 1861; No. 586, A.D. 1863; No. 503, A.D. 1864; and No. 1791, A.D. 1865) consists in various modifications of utilising the pian of dissolving away carbonised gelatine in the non-actinised parts.

In the theory of photogravhic science, besides the paper of Dr. W. A. MILLER already alluded to, the Introduction contains notices of a paper read to the British Association in 1863, by C. PIAZZI SMITH, upon the actinic quality of the atmosphere at a high elevation; of Roscor's investigations on the chemical nature of sunlight; and of a paper read to the Chemical Society, in 1864, by Mr. M'DOUGALL, in which it is stated that "the sensitiveness of papers, containing the same quantity of chlorine and bromine combined with sodium, potassinm, auronium, and barium is constant."

In inventions relating to photography, a very fair amount of real improvement is manifested; the number that die out before they become patents is considerably below the average, and old inventions are not repatented to the extent that occurs in other departments of practical science.

Mr. BENNET WOODCROFT has entrusted the preparation and compilation of this small volume to Mr. W. H. WALENN, the compiler of the first part of the photographic abridgments and of other series. It is noticeable that each abridgment has a certain vitality about it, and that the volume forms a compendium of all the inventions (from A.D. 1860 to A.D. 1865 inclusive) to which a photographer need refer. The plan of the work is stated with logical correctness in the preface, and the two indexes make the reference to any part of it easy; the new nomenclature defines the chemical substances to the utmost degree of exactness, in the snbject-matter index. In conclusion, we heartily congratulate the photographic public upon having such a condensed account of the practical science belonging to their beautiful art.

PHOTOGRAPHIC NOTES.

APPARATUS FOR MOUNTING PHOTOGRAPHS.

At the December meeting of the Paris Photograpic Society M. Davanne exhibited, in the name of M. Manillier, a very simple piece of apparatus designed for the purpose of facilitating the mounting of photographs. It is composed of two sheets of eardboard put together in the form of the cover of a book. The inner surface of one of these boards is covered with white varnished paper, on which are traced horizontal and vertical lines dividing the surface into a large number of squares of equal dimensions. The two lines crossing the middle of the eard in the direction of length and breadth are numbered from the centre, where they bisect one another at right angles, the numbers being repeated on each side. A print which has been coated with mounting material is placed face downwards on this species of draught-board in such a manner that the centre of the picture exactly covers the middle of the cardboard (where the two central lines cross one another); this is easily done by placing the extreme corners of the print upon such squares as bear similar numbers. The mount is then fitted over the squares in the samo manner, the margin being allowed for and calculated from the number covered by the print; the two boards are then pressed firmly together, and the picture is mounted in a very prompt and accurate manner.-Photographic News.

GLUE FOR MOUNTING PRINTS:

"AN OLD HAND" in the Photographic News objects to the use of india-rubber solution for mounting photographs, and

recommends a less expensive and more convenient material. He says,—" The best material I know for mounting prints on thin boards, without cockling, is glue, used with as litle water as possible, and very hot. I always test glue for acidity before using it."

NEGATIVE VARNISH.

In the Mitheilungen, M. Weber communicates a formula forobtaining a good nogative varnish. It is as follows :----

Best yollow shellac.		1 lb.
Alcohol		2 lbs.
Ordinary resin .		
Vanction tumpanting		1 07

The shellac does not dissolve entirely, and the thick, turbid solution is filtered through coarse blotting-paper, a little more alcohol being added if necessary. To clarify it, the mixture must be allowed to stand for some time. It is poured over the plate in the usual manner, the latter being slightly warmed previous to the operation.—*Photographic News*.

DISTILLED WATER IN PHOTOGRAPHY.

BY NELSON K. CHEBRILL.*

I LOOK upon distilled water as one of the greatest mistakes of the photographic laboratory. It is, I believe, quite uscless in all the useful operations of practical photography. For the purposes of scientific experiment, for elaborate comparisons of the respective values of certain solutions, for a few uniuportant dry processes, and for those who believe in handbooks and books of instruction, distilled water may be found an indispensable necessary; but in the ordinary eourse of photographic work, I do not find any advantage gained by its use, or any disadvantage to accrue from substituting for it the ordinary water as it is "laid on," which is, of course, much cheaper, and which serves every purposo.

The water which is supplied to me now contains, I doubt not, a most delightful list of impurities, and these abound in sufficient quantities to render it exceedingly nice to drink (a sure sign of great impurity), and to throw down a great milky-white precipitate with nitrate of silver; yet I use it for making nitrate baths, and for every other photographic purpose, with great success.

For the nitrate batb, the most delicate of all the solutions used by tho photographer, nothing more is required with this or any other sample of similar water than the addition of a few grains of silver to a gallon or so, or an ounce of old bath-solution may be thrown into a considerable bulk of the water. The precipitate formed may be, if thought well, collected on a filter, and the paper added to the silver-waste box, or the precipitate may be thrown away; the bulk of it will fall to the bottom of the vessel in which the silver was added to the water, and the slight amount which remains in suspension may be disrogarded.

For the developer, I never find the slightest difference in effect between one kind of water and another. It does not seem to matter at all about the precipitate formed by the silver in the water; indeed, I am not sure it is formed at all, the sulphate of iron decouposing the nitrate of silver before it has time to effect the precipitation in the water of which the developer is made.

I have never been able to see the least use in washing the film with distilled water after the hypo has been all removed from the film. This is recommended by some as a means to remove the impurities of the common water, and so to enable the shadows of the picture to dry more clear and brilliaut. I have never found a negative print any the better for all this extra trouble.

I find a bath for printing purposes may be made just in the same way as that recommended for the nitrate bath*i.e.*, the water cleared first with a little silver, and then filtered or left to settle. I have never made a toning-bath with distilled water that I can remember, and so I cannot speak from experience of the difference (if there is any) between common water and distilled for this purpose; but I never find the slightest fault with my toning-baths; they do their work quite well, and that with common water.

* Contributed to the Photographic News, Jan. 10.

I have thought much upon the use of common water for dry plato washings. I am convinced that distilled water is not at all roquired in any of the best processes. The precipitate from water is only an insensitive silver salt, gene-rally chloride; how should this hurt the film, which always contains bromide and iodide of silver, and often chloride too? It seems to me that the more a dry process depends on some abnormal condition for success the more need there is for using distilled water. I have noticed this particularly with the tannin process. I have doue some very good pictures with taunin plates, hut of all the processes I over triedit is the most uncertain; success seems to depend on some curious abnormal conditions which no one understands, and the most trifling disturbance, even one so small as that caused by the miauto quantities of foreign matter in com-mon water, is fatal to good results. Turn to the other extremo; the most certain of all dry processes-the collodioalhumen-to use Mr. Mudd's own words, "distilled water is not necessary in any stage of this process." These things may not be fully understood yet, hut till they are, I say, give np those processes which need distilled water, because they depend upon uncertain conditions of success.

Corner for Students.

Under this head we propose to give queries and problems that may be profitably considered and worked out by our younger readers. We expect to receive problems as well as solutions, and trust that in the course of a few months this little corner will be well filled with the results of much hard thinking. At present we shall simply give a single specimen of the sort of problems we hope to receive.]

RELATIVE WEIGHTS OF THE OFFICINAL ACIDS.

Give the weight of a pint of each of the following acids of the Brit. Pharm. 1867:—Acidi: 'Aceticum, 'Acet. dil., Hydrochloricum, Hydrochlor. dil., Nitricum, Nitricum dil., Sulphuricum, Sulphuricum dil., Sulphurosnm.

The weights must be calculated from the specific gravities given in the Pharmacopæia, and expressed in grams with three decimal places.

Obituaries.

ANTOINE FRANCOIS CLAUDET.

M. ANTOINE FRANCOIS CLAUDET, the eminent photographer, died suddenly on Friday, the 27th ult., of heart disease. The day hefore Christmas-day he made various appointments, and planned many duties at his studio in Regent-street for the following Friday, the day of his death. M. Claudet was born in Lyons on the 12th of August, 1797, so that he had already lived out the usnal span assigned by the Psalmist to mortal men. But ho was an actize worker to the last, and may be said to have died in harness.

The labours of his life are thus referred to by the Athenceum:-Shortly after the discovery of the daguerreotype, M. Claudet communicated to the French Academy of Sciences a paper on the discovery of a new process for accelerating the production of the daguerreotypic image by the addition of hromide and chloride of iodine to the iodido of silver; thus permitting a portrait to be obtained in fifteen or twenty seconds. This discovery was, with the fixing of the image by chloride of gold, the completion of Dagnerre's invention. In 1849 M. Claudet communicated a paper to the Académie des Sciences upon the nso of a new instrument called the "Foeimeter," the object of which was to secure the good focus of photographic portraiture. In 1848

ho communicated a paper upon a new apparatus called the "Photographometor," the object of which was to measure the intensity of the photogenic rays and to compare the sensitiveness of various compounds. This paper was also read bofore the British Association at Birmingham, 1849. At the Universal Exhibition of 1851, M. Claudet received the Council medal from the President of the jury for his numerous discoveries in photography. In 1853 M. Claudet was elected member of the Royal Society, for his various scientific labours and discoveries in connexion with photography. His certificate of admission was signed by Sir John Herschel, Sir David Brewster, Professor 'T. Graham, Professor Wheatstone, Professor Faraday, Mr. Bahbage, and other eminent memhers of the Society. In the same year he had the honour of taking the portrait of Her Majesty and several other members of the royal family, and was appointed Photographer in Ordinary to Her Majesty. In 1855 M. Claudet obtained a first-class medal at the French International Exhibition for his eminence in the profession. In 1858 he communicated a paper to the Royal Society upon the "Stereomonoscope," a stereoscopic instrument founded upon the observation of the apparent relief of the image of the camera obscura. In 1862 M. Claudot was elected member of the jury at the London International Exhibition, and obtained the medal of the jury. In 1850 a medal was presented to him hy the Society of Arts and Manufactures of London for the invention of a new machine for cutting glass, whatever might be the curvature of its surface. He received this medal from the hands of H.R.H. the late Prince Albert. M. Claudet was a Chevalier of the Order of the Legion of Honour, and ho had tokens presented to him hy the late Emperor of Russia and King Louis-Philipoe.

JOHN MAWSON.

THE terrible explosion of nitro-glycerino, which has brought sorrow into many homes in Newcastle-upon-Tyne, has removed an honoured name from the roll of the Pharmaceutical Society. Mr. Johu Mawson, the Sheriff of Newcastle, was applied to for assistance and advico in the removal of a large quantity of nitro-glycerine (originally intended for mining purposes), which had been found warchousod in the very centre of the town, and it was whilst superintending its destruction that an explosion took place, inflicting hodily injuries so frightful that death was hut a release from suffering.

Mr. Mawson was hest known amongst pharmaceutists in connexion with his extensive business in photographic chemicals and scientific apparatus. Of recent years, heing relieved from close attention to these branches of trade, he had been concerned in the manufacture of some of the heavier chemicals largely produced in the district. His increased leisure had of late heen devoted to municipal services and philanthropic objects, and in November last he was elected to the office of Sheriff of Newcastle.

Our pharmacoutical contomporary says with truth that he will always be associated in the miuds of those who knew him with kindness and simplicity of demeanour, honesty of purpose, and readiness to help in good works.

The remains of Mr. Mawson were interred on the 23rd ult., when the town of Newcastle presented a singularly gloomy appearance. Nearly all the shops and places of business were either wholly or partially closed, the bells of the parish churches tolled mufiled peaks, and between one and two o'clock a functal procession, fully a mile long, followed the romains to Jesmond Cemetery, where they were consigned to the earth by Archdeacon Prest. Newcastle has enjoyed municipal privileges over 400 years, and Mr. Mawson is the first Sheriff who has died during his term of office. It seems that according to the Municipal Act the 'Yowu Council cannot elect a successor until the 9th of November, 1868, and the Under-Sheriff will have to perform the duties of the office in the meantime.

MRS. BUOTT.

With sincere regret, we record the death of an estimable lady, whose kind words and kinder actions must have impressed many a reader of this journal. Mrs. Buott, the wife of Mr. Cyrus Buott, the Secretary of the United Society, died on the 7th instant, in the sixty-eighth year of her age, at that house in New Ormond-street which she has so long brightened with her presence. These few words are written as a true and sorrowful tribute to the memory of a good and clever woman who wen the confidence of all who had the happiness to know her.



MANUFACTURING AND SCIENTIFIC CHEMISTS OF GLASGOW.

An important and interesting meeting of the Manufacturing and Scientific Chemists of Glasgow and its neighbourhood was held at the Victoria Hotel, West George-street, on the 12th of December. The company consisted of about fifty gentlemen, who dined together, Mr. E. C. C. Stanford, a well-known member of our Society, and Director of the British Seaweed Compsny, presiding. Most of the leading chemical works of Glasgow were represented, as well as the less numerons class of professional chemists, including Professor Anderson, of the University. The immediate object of the meeting was to promote a more intimate acquaintance among all classes of scientific chemists in the neighbourhood, and to extend the cultivation of chemical science by tho formation of a Chemical Society.

The Chairman, in opening the after-dinner business, alluded to the necessity there was in the present day, for chemists to use all available means to enable them to keep pace with the rapidly-advancing progress of chemical know-ledge. "So rapid," he said, "is the advance of chemistry, and in such a geometrically increasing ratio does it enlarge its houndaries, that even we younger men have the greatest difficulty in keeping pace with it. We find the words to which we attached definite meanings stowed away in what Dr. Anderson at Dundee happily described as "scientific lumber-rooms," and our cherished chemical nomenclature tottering to its base, and the ruins coming down about our ears under the attacks of chemists, many of whom have left school since we did. It is true of chemistry that it has "no good old times," for the present time is its oldest and its best. And this progress deeply concerns chemical manufacturers, who have the greatest need to watch the rapidly-occurring changes in the science they apply. In speaking on a paper by Mr. Bell, of Newcastle, Dr. Odling said, at Dundee, that although he had been engaged in teaching the science of chemistry for many years-and he is one of cur best teachers-ho never entered a large chemical work but he felt his ignorance of the great methods by which that knowledge ho taught was practically applied, and he expressed the views of all theoretical chemists-it is so easy to perform our reactions in the laboratory; but none hat those who have tried it know the difficulties that rise up and meet the manufacturer who dares to attempt large improvements. Courage, patience, and perseverance, must be his. He must not be the man of one idea, he must not know chemistry alone, but his knowledge must extend

to and include all the physical sciences, and every application must pay.

"This city has great reason to be proud of its chemical factories—nearly every known branch is here represented. Long before the stranger who approaches Glasgow sees the flames of her forges, or hears the sound of her hammers, his attention must be arrested by her tall chimney shafts; the masts to which her chemical flag is nailed, and her manufacturers' challenge held high before the world. If a factory can be measured by its height, one of these stands distinguished and pre-eminent. Humboldt called 'chemistry the Egyptian art,' and unless it should return to that country, and one of the pyramids be converted, so that it 'draws' even better than at present, our friend Mr. Townsend will still reign without a rival, and never be able to compete with any one his own size. Glasgow is no less distinguished for its scientific chemists; Thomson, Ure, and a long list of names form a brilliant scroll. Here, then, of all cities, the scientific stranger will expect to find one of the best chemical societies in the kingdam."

We understand, although-no-definite resolutions to that affect were passed, that the meeting may be considered the first step to the formation of a Chemical Society of Glasgow.—*Pharmaceutical Journal*.

CHEMISTS' ASSISTANTS' ASSOCIATION.

At the eighth half-yearly General Meeting of this Association, held at 14, Air-street, Regent-street, on the 5th ult., the following Report was read and adopted :---

"Gentlemen,—Our last and most pleasant duty, as retiring Committee, is to lay before you a statement of the transactions during the past half-year.

"The names of the officers who retire from the management this evening are Mr. Kirkland (President), Mr. Lloyd (Vice-president), Mr. Sands (Treasurer), Mr. Sleggs (Hon. Sec.), and Messrs. Hunt, Matthews, Provost, Smith, and Shephard.

"During the last six months the Association has flourished and prospered, with litt'e or no impediment to check its growth. The parent stem is growing strong and hardy—has strnck its roots more deeply—and is flourishing and fruitful: already branches are springing from the old trunk, green and fresh, and full of promise.

"It is with satisfaction that we specially notice the Chemists' Assistants' Association for Bristol and Clifton, founded by Mr. Beynon, who left us a few months ago. The programme issued by this Society augurs well for its future success.

"At the commencement of our session, a well-filled programme was issued to the members, and it is pleasing to note that, with one or two exceptions, the whole of the papers have been read, and it will be gratitying to all present to know that the eighth half-year has been more successful than any previous one, in the number of appropriate and interesting subjects for discussion, evincing that the true objects of the Association are becoming more and more appreciated, and that members generally have a greater desire to bring forward important topics in chemistry and pharmacy and other subjects of every day experience for discussion.

"It is also very pleasing to have to record that, during the half-year, fourteen new members have been elected making a total of 143 from the commencement of the Society.

"The average atten lance at the weekly meetings has been very goo', notwithstanding the uccessary disadvantage which results from the absence of the members from town during part of the summer seasou.

"Many of our old members have, through removal, ceased to minglo among ns, hnt these, in their communications, invariably show how many pleasant memories of their past association with us are cherished by them.

"The Committee have to congratulate the Society on the improved state of the finances, as set forth in the Treasurer's account, showing a fair balance in hand.

"The project, st one time entertained, of a supper at the commencement of the hal'-year, was, in compliance with the generally-expressed opinion of the members, abandoned, it being thought by many that an annual winter gathering would be better appreciated.

"The Committee beg to thank the members of the Association for the confidence placed in them, and for the kind manner in which their efforts have been seconded; and venture to express a hope that the success which has attended their exertious may be continued to those who follow them.

"In conclusion, the Committee beg leave to announce their retirement from office, and in doing so, would impress upon all the uscessity for individual effort to promote the objects of a Society which is acknowledged by every one at all acquainted with it, to be an invaluable boon to the chemists' assistants of Lendon.

> "HENRY KIEKLAND, Chairman. "GEOBGE R. SLEOGS, Hon. Sec."

Mr. WILLMOTT, an active member of this Association, has generously offered the sum of one guinea, to be added to a similar amount from the funds of the Association, for presentation to the member contributing the best essay on "The Dispensing Department; its Management and Supervision practically considered." The offer has been accepted, and will doubtless stimulate some of the clever members of the Association to exercise their literary powers.

SHEFFIELD ASSOCIATION OF CHEMISTS AND DRUGGISTS.*

LECTURE ON DIFFUSION.

THE monthly meeting of this Association was held on Wednesday evening, the 11th ult., on which occasiou A. H. ALLEN, Esq., F.C.S., gave an interesting lecture on "Diffusion," a subject which the lecturer said was not generally understood, but which had of late acquired great importance in connection with chemistry. He showed that the different gases diffuse through perous bodies with a velecity inversely proportional to the square roots of their densities or specific gravities. The fire-damp in coal mines was a gas escaping from coal, and was a compound of carbon with hydrogen, which caused such disastrous explosions when allowed to come in contact with the flame of a candle. This fact was illustrated by experiments which foreibly portrayed the high diffusibility of fire damp, and he showed how its presence might be made apparent by an ingenious application of the property of diffusion, invented by Mr. Ansell. "Dialysis" was a term used to express the diffusion of liquids through membranes; and in order to convey the meaning and use of this process more fully, he showed some experiments, distinguishing the crystalloids, or crystalline bodies, and the colloids, or uncrystallizable substances. He said that silica, or flint, could be dissolved by water, under high pressure, and that an experiment had been successfully carried out by their eminent townsman, C. Sorby, Esq., F.R.S., which showed that glass might be dissolved in water, and the silica separated from the solution by the diffusion process. After a very interesting discussion upon the subject, a vote of thanks was unanimously awarded to the lecturer for so instructive a paper.

ANNUAL DINNER.

On Thursday, the 19th ult., the members of this Association held their annual dinner at the King's Head Hotel. Mr. WARD, the President, occupied the Chair, and Mr. HORNBY, the President of the United Society of Chemists and Druggists of the United Kingdom, officiated as Vice-Chairman. The usual loyal and patriotic toasts having been duly honoured,

Mr. BROWN proposed the toast of the evening, that of "Success to the Sheffield Association of Chemists and Druggists." In doing so, he congratulated the members on the progress which the Society had made since its first meeting, and he noticed with pleasure the improvements which were to be observed in their trade in the town of Sheffield. He expressed a hope that, in future, the Associstion would continue its useful earcer, and that the number of its members would increase.

Mr. HORNBY, who was called upou to respond, said it was very pleasing to note the progress of their Associa-tion, which might be attributed in a groat measure to the lectures and papers rendered at the monthly gatherings, affording, as they did, instruction, not only to the members, but to the assistants and apprentices. The latter were encouraged by the offering of prizes for competition; and it was remarkable how speedily the diffusiou of practical chemistry incited them to study. In these days of scien-tific knowledge, unless men were well up in details, they seldom rose past medioerity, and the public at large were, he believed, beginning to acknowledge those who, by perseverance in the paths of knowledge, rendered themselves better qualified to discharge the trust confiled in them. For years it had been the endeavour to raise the standard of chemical knowledge amongst chemists and druggists, and various means had been adopted to obtain so desirable a result; but until the formation of this Society, all attempts had failed. The encouragement which it had received, however, in the town of Sheffield among the fraternity, augured well for the future standing of the profession. Nor was it in Sheffield alone that these benefits had been promulgated, but throughout England, the spirit of inquiry, and the thirst for knowledge had made the United Society one of the most stable and promising institutions of the day; and should the Pharmaceutical Society continue to hold out the hand of friendship and sympathy to those not as yet connected with them, except in name, they might rest assured that the general good would far outweigh the isolation which their Society had held for many years. No doubt there were many calling themselves members of the Pharmaceutical Society, who desired to retain the privileges to themselves, although, practically, in chemical knowledge, they were far behind hundreds of their fellow-tradesmen. But, thanks to the liberal spirit of the Pharmaceutical Council, there was now hope for the realization of the general advancement of the trade, in spite of the obstructionists. Therefore, it might be concluded that those associations alone had tended to stir up the apathy of trade to those pursuits which would be to them a source of pleasure and profit. He had great

pleasure in responding to the toast. Mr. GODLEY gave "The Town and Trade of Sheffield," and the toast was responded to by Mr. HUDSON, who spoke in encouraging terms of the prospects for the future, notwithstanding the languor which has for some time past and still pervades many branches of the Sheffield trades.

Mr. CROOK proposed "Success to the United Society of Chemists and Druggists," to which Mr. Blain, of Bolton, was called upon to respond.

Mr. BLAIN spoke in encouraging terms of the bonefits conferred through the instrumentality of the United Society, and he specially mentioned its efforts in connection with seeking for improved legislature in connection with their trade. He adverted to the necessity of sympathy between the members of the Pharmaceutical Society and outsiders, and whilst arguing in favour of freedom, he held that it was both desirable and necessary to keep up the standard of efficiency amongst members of the trade, who should, as he contended, be properly qualified before they are entrusted with the duties of their calling.

Mr. THOMPSON proposed "The Committee," to which Mr. NEWHAM responded, and "The Hon. Members and Visitors," was proposed by Mr. WATTS, and responded to by Mr. ALLEN, F.S.A.

Other toasts followed, and the evening was spent in a very agreeable manner.

UNITED SOCIETY OF CHEMISTS AND DRUGGISTS.

MEETING AT BRIGHTON.

A MEETINO of the members of the United Society of Chemists and Druggists was held at the Clarence Hotel, Brighton, on Friday evening, the 20th ult., Mr. J. Dinnis presiding.

Mr. DINNIS said he was glad that it was in contemplation to constitute in the important town of Brighton an influential and active Association of the United Society. He would not needlessly occupy their attention as there wus business to be done and only a shert time to do it in, therefore he would at once move the following resolution:—

^{*} Communicated by Mr. R. O. Huddlestone, Hon. Sec.

United S

Linder

Fairs, Jo Melliu, Shugg, Manel

Holt, E

Manel Gibson, Dobh, J Huddle

Anderso Heppell Beere, J Croteh, Fisher,

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Kenip, J Hey, W Smith, Elliott,

Ault, Je Waddin Wilks, Balley,

and D annua Hornby, U.S.C. Mattboy Past I Pass, H dent, Barnaby

"That all existing chemists and druggists, whether principals engaged in business now, or assistants to be engaged in business hereafter, have a common right to membership with any body empowered by Act of Parliament to regulate the trade."

Mr. UNTHANK having seconded the motion, the resolution was put to the meeting, and earried unanimously.

Mr. KILBY PEARS then moved the next resolution, as follows :--

"That as, to dely the means to seeuro this right would in all probability be fatal, and as success depends upon able advocacy, extensive publicity, and efficient action, this moeting resolves itself into a District Association of the United Society according to Rule No. 7; and hereby deputes Mr. Unthank to represent the Brighton membors upon the Executive Committee, and to assist at the councils of that body."

This resolution was seeonded by Mr. READ, and also unanimously adopted.

Mr. J. DINNIS was appointed Chairman of the District, and Mr. KILBY PEARS, Honorary Socretary.

The following gentlemen, Messrs. Read, Lewin, Macintosh, Leaver, Dowsett, Schweitzer, Meager, and Field, with power to add to their number, were nominated as a Comnittee to carry these resolutions into effect, and to transact the general business of the Association.

A vote of thanks given to the Chairman terminated this first meeting of the United Society in Brighton.

KILBY PEARS, Honorary Secretary.

HULL.

The annual supper of the Hull Branch of the United Society of Chemists and Druggists was held at the George Hotel, Whitefriargate, on Wednesday evening, the 4th of December, when upwards of forty members of the trade sat down to a repast, which reflected the greatest eredit on the down to a repast, when reneeted the greatest eredit on the propietor, Mr. Bellamy. Mr. Burn (of the firm of Burn & Scrutin), the President, occupied the chair; and Mr. C. B. Bell, Vice-President, and Mr. George Wokes, Treasurer, the vice-chairs. After supper, the President proposed "The Health of Her Majesty and the rest of the Royal Family;" after which he proposed "The Town and Trade of Hull," coupled with the name of Alderman Toogood, who most ably and facetiously replied. From the remarks of this gentleman, it appeared that he was the first chemist in Hull raised to the aldermanic bench since the passing of the Reform Bill. Before sitting down he proposed "The Health of the President," which was drank with musical honours. The President thanked the members for the very kind way in which the toast had been received and drank, and then proposed the toast of the evening-"Success to the United Society." Mr. Bell, V.P., whose name was coupled with the toast, thanked the company most heartily for the kind manner in which the toast had been received. which so plainly marked their allegiance to the parent Society; also for the honour which had been conferred on him. He trusted that the amended Pharmacy Bill to be introduced during the next session of Parliament by the United Society and the Pharmaceutical Society would meet the wishes and requirements of the whole trade. In conelusion, he proposed "The Health of the Treasurer," who clusion, he proposed "The Health of the Treasurer," who always took great care of their money. Mr. Wokes replied in a neat speech, and proposed "The Health of the late Secretary, Mr. Staining." Mr. A. Smith, in a very able and cloquent speech, proposed "The Committee and Past Officers," coupled with the name of Mr. Gates. Several other toasts were proposed and responded to. Professor Callin most ably presided at the pioneferte and much on Gullin most ably presided at the pianoforte, and much enhanced the pleasures of the cvening.

THE BUOTT TESTIMONIAL FUND.

To the Chemists and Druggists of the United Kingdom.

GENTLEMEN,—A short time ago wo appealed to you on behalf of this Fund. We now thank those gentlemen who have already responded.

We alluded to the ability, zeal, and devotion with which

the Secretary of the United Society of Chemists and Druggists had laboured to promoto a Bill for the Incorporation of the Trudo, a work for which he had a special fitness, and in which he had sacrificed his time, his health, and his meens.

In this Bill for which he worked so hard and so successfully, there is no recognition of these services. We cannot, must not, for we have plodged our honour not to desert him at an advanced period of his life totally unprovided for.

In our former appeal we stated that the wear and tear of strife were telling fast upon him, and that plain symptoms of failing health were visible. But a greater, darker sorrow now hangs over him. His wife, the companion and friend of his life, his adviser and fellow-labourer in our cause, (for she gave her whole time and ability to the office work of the Society) has, within the last few days, been called from his side. Those who know how largely she possessed all the qualities that sanctify the character of a true-hearted woman can only know his loss.

Relying upon a thoughtful appreciation of this appeal to the justice and generosity of the Chemists and Druggists of the United Kingdom.

We are, Gentlemen,

(For the Committee)

Your obedient Servants,

HORATIO PASS, Chairman.

WILLIAM A. YEATS, Hon. Sec.

Office of the United Society of Chemists and Druggists, 18, New Ormond Street, W.C., London.

Remittances can be sent in Postage Stamps, or made payable by Cheque or Post Office Order, to Horatio Pass, to above Offices.

SUBSCRIPTIONS RECEIVED.

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BANKRUPICY.

IN RE WILSON AND MONEY, COD-LIVER OIL MANUFACTURERS.

These bankrupts (Robert Wilson and James Craig Money), who carried on business as cod-liver oil manufacturers and commission agents, at Kinning Park, Glasgow, have been examined before Sheriff-Principal Bell. In the course of interrogation by Mr. Naismith, writer, on behalf of H. Martini and Company, Robert Wilson, one of the bankrupts deposed that his firm, in February, 1867, handed over their whole stock of cod-liver oil to Mr. Rebert Todd, a partner of the firm of M. Parker and Company, Ediuburgh. We handed it over (the bankrupt went on to say) on the arrangement that he was to dispose of it, and divide the proceeds amongst the firm's creditors. I understand he has disposed of the great bulk, if not all, of the stock. What price has been got for it, I do not know; but he mentioned that for part of it he had got 33. 6d. per gallon. He signed no document that I know of; but my partner, Mr. Money, and I signed a writing which he got. I authorised him te collect the whole of tho debts. I believe he has collected none of them, savo one, amounting to a very small sum. He got the wooden house, casks, etc., unctioned in the state of affairs. Mr. Todd was not to account to me or my partner for his intromissions. Except Mr. Martini, all our creditors

were awaro of, and acquiesced in, our haudiug over the assets of our firm to Mr. Todd. It was in June, 1866, we countenced business. Neither of us had auy money, but Mr. Moncy had a geing business previously. In our ledger recall is given of the assots of that business. The amount is £88 9s. 3d. The state of affairs shows, of liabilities, £921 15s. 2d., and of assots, £586 18s. 10d. The deficiency I account for by depreciation in stock. The bad debts are fow in number. In April last, the wooden house and utensils were sold by auction, and realized about £25. Being interrogated-Why have you entered them in your state of affairs at £100? The bankrupt said, "They were entered by Mr. Money in our books at that sum, and I did not object to it. I find that the ontry, or rather entries, in the books amount to £88 9s. 3d. It was our proposal to Mr. Todd that he should get the stock and dispese of it. The document which was signed bore that he would pay the dobts of the firm, as far as the proceeds would go. I sold, in February, 1867, a cottage in Dick-place, Grauge, Edinburgh, and also a tenement of dwelling-houses in Leith Walk there. For the cottage, I received £685; there were two bonds upon it, amounting to £650. The dwelling houses realized £2,025; ou the tenement there was a bond of £1,800. I think those sales were a month after I had handed over our steck to Mr. Todd. The balance of the price from the properties I did not hand over to him. I have been living on the money since that time. There is none of it remaining. These properties were sold by private bargain. Mr. Toad and the trustee were aware I had property." James Craig Money, the other bankrupt, deposed—"In the deposition made by the other bankrupt, I concur, except in his account of the deficiency of our estate. The sum we expended in utensils amounted to £179 14s. 2d., and in workmen's wages, freight, and repairs of building, we expended £154 4s. 1d. The whole utensils were not sold by auction. Those that were sold remained with me up till the date of sale. Along with the oil, a ceusiderable portion of these were taken through to Mr. Todd. What was done with them, I do not kuow. The goods were forwarded to Mr. Todd, 26, Gile-street, Leith. At that time, his firm of M. Parker and Company was dissolved. The only document which passed between me and Mr. Todd was a uotice of the dissolution of our firm, which was signed by Mr. Wilson and myself, in his presence, and handed to him. This note bore that, in my own name, I was to continue the business; but that the debts of Wilson and Money were to be paid by Mr. Todd, and that by him the debts duc to the firm were to be received. We believed we wore at this time solvent. If any surplus had arisen in the rcalization of the estate, it was to have been equally divided between Mr. Wilson and myself. The examination was closed.

GOSSIP.

FROM the 1st inst., the following new Acts of Parliament take effect:-County Courts Act, Worship Regulation Act, Factory Act Extension, Agricultural Gaugs Act, Merchant Shipping Act, and Sales of Reversions Act.

At a special court of Gevernors of Charing Cross Hospital, held on the 30th nlt., Dr. Tilbury Fox was unanimeusly elected to the post of physician in charge of a special department recently organised, on the recommendation of the Council of the Hospital, for the treatment of discases of the skin.

The Pall Mall Gazette calls attentiou to a new method of preserving milk, which has been introduced by the Angle-Swiss Company, whose factory is situated on the lake of Zug. The process adopted is simply the abstraction of the watery particles from the milk, and the addition of beetroot sugar. Milk thus prepared remains good for months after the tins in which it is packed have been opened, becoming neither sour, mouldy, nor rancid. It bears the ordinary changes of temperature without injury. It is sold in tins, each containing the equivalent of rather more than half a gallon of good milk, of about the quality of the best country uilk. The price of the tin is 1s. 3d. The cost of the tiu being a penny, and the duty being a penny, the price of the condensed milk when diluted for use with five parts of water is 6d. a quart. About one-third of a pound ef beetreot sugar is introduced into each tin. The use of this preserved milk is increasing in England. Last month the Company sold, for home use and expertation, 1.250 dozen time. The Peninsular and Oriental, the Royal Mail, and the Pacific Mail companies use it in all their steamers.

Adelaide Louax has been sontenced, at the Dover Quarter Sessions, to twelve months' imprisonment with hard labour, for crnelty towards her daughtor Agnes, aged seven years. It was proved at the trial that systematic cruelty had been long practised towards the child. Her hands had been tied behiad her for whole nights; she had been periodically pumped upon; her body was covered with bruises; and over open wounds made by blows with a hairbrush, chloride of lime had been rubbed. The prisoner and her husband occupied a respectable position in Margate.

TRADE CHANGES.

Mr. John Wade has removed from 98, York-street, Westminster, in consequence of the Metropolitan District Railway Company requiring his promises, and is now residing at 174, Warwick-street, Piulico, S.W., where he continues his practice as dentist and dispensing chemist.

Austin has taken into partnership her two sons, Mrs. Henry Felix Austin and Edwin Austin, for conducting the business of manufacturing chemists and drysalters, hercto-fore carried on by her late husband, Mr. Henry Austin, at 125, and 126, Bermondsey-street, S.E., under the title of H. Austin and Co.

COMMERCIAL INTELLIGENCE.

The Journal de St. Petersburg announces that the New Russian Customs' Tariff will not be brought into operation till the 1st of January, 1869.

Her Majcsty's Charge d'Affaires at Guatemala, reports that,----"by a decree of the President of Honduras, dated the 10th of September last, the duty payable on the exportation of indigo is reduced from four rialls (2s.) to one riall (6d.) per arroba, or weight of 25 lb. By the same decree a fine of 10 dls. is imposed on those who adulterate the article, and the indigo adulterated is declared to be confiscated; finally workmen employed in its cultivation are exempted from military service."

The Spanish Government, by a decree dated December 10, have sanctioned the importation of grain and other articles (including clive oil, guano, and artificial manures) into Puerto Rico and the Phillippine Islands free from duty, whether imported by native or foreign vessels, for the purpose of remedying, as far as possible, the damage caused by the inundations, hurricanes, and earthquakes, which have taken place in those islands. The decree provides that the duties formerly in force on the before-mentioned articles, shall not be reimposed, either wholly or in part, without eight months' previous notice being givea.

GAZETTE.

PARTNERSHIPS DISSOLVED.

PARTNERSHIPS DISSOLVED.
ALLEN, STOCKTON, and ALLEN, Dudley, lemonado manufacturers; as far as regards F. Stoekton.
BREFERTON and HARLEN, Beverley, surgeons.
BREFERTON and HARLEN, Beverley, surgeons.
BREFERTON and HARLEN, Beverley, surgeons.
BROWN and MILLER, Chester, soda water manufacturers.
CANNINOTON, SILAW, and Co., St. Helen's, Laucashire, gluss bottle manufacturers; as far as regards F. D. Nuttall.
FINCH, MOON, and DUNCAN, Blackhenth and Greenwich, general practitioners; as far as regards P. M. Duncan.
GARLAND and Co., Macelesfield, manufacturers of size.
HALL and HAATON, Batley, Yorkshire, chemists,
HALM HKATON, Great Arthur street, Goswell-road, flint glass blowers.
LEIOH and FIGOL Leeds, dentists.
PARER, AMES, and HOUGHTON, Old Ford, manufacturing chemists; as far as regards W. Honghton.
RANDLESON and FORSTUR, Whitehaven, chemists; as far as regards J. FORTER.
WILLES and ROBERTS, Manchester, tobaceo manufacturers.

WILLIS and ROBERTS, Manchester, tobacco manufacturers.

BANKRUPTS

BARER, BENJAMN, Wellelose-square, surgeon. BENNETT, THOMAS, Nottingham, tolace mist. DICESOR, JOHN PARMERLEY, late of Leicestor, manufa turing chemist.

FLINTOFF, THOMAS HIBBRON, Sunderland, soda water manufacturer.
HARRINTON, JOHN, Brighton, architectural pholographer.
HOARE, R., Lite of Plymouth, manuro merchant, HURDON, JAMES, Exeter, chemist.
MARKHAN, JOSEFH, Banham, noanure manufacturer.
MERRAY, ERENZER, Ramsgato, photographer.
PARNEAV, ERENZER, Ramsgato, photographer.
PARNEAV, ERENZER, Ramsgato, photographer.
PARNEAV, MULLAR, Hronley, new Bow, nanufacturing chemist.
PHILL FS, T., Aston-juxta-Birohugham, chemist.
SMUPLEY, GERMAY W., Nottingham, soda water manufacturer.
SMUPLEY, GERMAY W., Nottingham, soda water manufacturer.
SMUPL, GERMAY W., Nottingham, songcon.
TOCKER, HYNRY, Durham road, Holloway gold boaters' skih manufacturer.
WHALAMS, CHARLES FOSTER, hate O. Portsmouth, assistant-surgeon Royal Navy.

Navy.

SCOTCH SEQUESTRATIONS.

BARR, J., Glasgow, tobacconlst. M'ALISTER, M. N., Strath, Isle of Skye, surgeon.

CAPITAL AND LABOUR.-In these days of strikes and trades unions, of Feuian outrages and disaffection, it is quite refreshing to find an instance of kindly feeling between large employers of labour and those in their service, such as we have now to record. On Saturday evening, January 4, about 100 persons connected with the Plumbago Crucible Works, sat down to a very handsome and substantial entertainment provided for them at the "Star and Garter," Battersea, by the liberality of the Patent Plumbago Crucible Company. The chair was very efficiently occupied by Mr. Morgan, the head of the firm, who, in a few appro-priate words, proposed the health of "Her Majesty the Queen," which was drunk with the usual honours. On the "Health of the Firm" being given, the chairman said, that eight years ago when they first commenced holding these annual gatherings, they could only muster 13 percents. "They had goes on increasing years and and the same and persons. They had gone on increasing year by year, and he believed that if everything went on satisfactorily, the number now before him would be increased one-half by this time next year. The firm had met with many obstacles, partly from the difficulty of obtaining good raw material, and partly from the increased price they had to pay for it, but he hoped these obstacles were now snrmounted as the new patented process for purifying the plumbago appeared to auswer well; and if they could only secure the hearty co-operation and goodwill of all in their employ, he had no doubt they should continue to pull together for many a loag year to come. Nothing would tend more to promote this unauimity, than the feeling that the interests of both employers and employed, were identical. He concluded by heartily wishing them all "A Happy New Year." The remainder of the evening was devoted to songs and recitations, and the meeting, which was characterized throughout by the utmost cordiality and good feeling, broke up about midnight.

FRENCH HOSPITAL .-- A dinner was given on Saturday evening, the 21st ult., at Verrey's Cafe, Regent-street, in aid of a London hospital open to all foreigners speaking the French language, when the chair was taken by M. Devaux. A French dispensary, established in 1861, has rendered gratuitous medical aid to more than 7000 sick and indigent persons, and last year it was determined to found a hospital, in order to complete the work commeaced in the dispensary, and to offer to those speaking the French tongue the succour which the Germans have for many years provided for persons of that nation. The French Government promised an annual grant, and the appeal to the French in London was so generously responded to that the committee felt justified in beginning operations at once, by hiring a commodious house at the coruer of Lisle-street and Leicesterplace, in the centre of the Freach quarter, where patients are attended by two French physiciaus of emineace. Among the subscriptions which have been already received are the following:—The French Embassy, £48; Notre Dame de Frauce (Leicester-square), £50; le Comte de Paris, £42; Due de Chartres, £42; Due de Nemours, Due d'Alengon, Priacess Marguerite d'Orloans, £52; Priuce de Joinville, 612, Due d'Aurele (avele aberiation), 6160, Beinze 242; Duc d'Aumale (annual subscription), £100; Prince de la Tour d'Auvergne, £10; Duchess of Newcastle, £50; Madame Hope, £50; Baroness Meyer de Rothschild, £10; and MM. Devaux et Cie., £25. It appeared from the state-ment of M. Rimmel, the hon. secretary, that the hospital and dispensary are under the same roof, and offer to patients the advantage of a consultation-hall, a pharmacy perfectly

organised, fourteen beds, and four chambers allotted to persons who, having some small resources, may be able to pay a moderate weekly sum towards their maintenance. It was also announced that the French and other residents at Hongkong had remitted a sum of 5,000 fr. for the hospital through M. de Neuwitt, Chancellor of the Consulate.



SALE OF MINERAL OILS.

TO THE EDITOR OF THE CHEMIST AND DRUGGIST.

DEAR SIR,—I beg to call your attention to the fact that the police have received orders to make inquiries in counties and boroughs, and to report the names of all dealers in paraffin oil and petroleum, with the intention of enforcing the statute 25 and 26 Vict., cap 66.

If you can give any information on that matter, in your next issue, it will be very acceptable to chemists in general, and, in particular, to your obcdient servant,

Stockbridge, January 1. T. MANN.

[Our correspondent will find an abstract of the statute in another column.]

A CHEMICAL DICTIONARY.

TO THE EDITOR OF THE CHEMIST AND DRUGGIST.

SIE,—I take the opportunity, before the issue of the CHEMIST AND DRUGGIST in its new dress, to submit a matter to your consideration, which, in my humble opinion, may be regarded as an important desideratum, in reference to the general body of chemists and druggists throughout the United Kingdom.

We want a chemical dictionary, more especially for the use of the counter chemist—allowing such term to embrace alike both principal, assistant, and apprentice. Those elaborate and excellent works by Ure, Watts, and others, do not supply the want which I wish to indicate,—something more concise and "ready-at-hand" being greatly needed. And it should be purely a "Dictionary"—a glossary of chemical terms, adapted to the present advanced position of the science, appending their lingual derivatives and symbolic representatives. If would propose that two letters of the Alphabet, with their respective contents, be presented with each month's issue of the journal, which, continuing throughout the year, would form a volume of no secondary import to its literary and scientific contributor (or contributors), and would prove an immense boon to the parties more inmediately concorned. Nor could the undertaking, in a commercial point of view, be unattended with the most satisfactory results.

The dnodccinto, or pocket size, would, as it appears to me, be the most suitable; and let it be printed in a detached form for enclosure in each number of the journal.

• Surely, in the able hands (singly or otherwise) of such men as Attfield, Brady, Brough, Carteighe, Draper, Ince, and of many others, the work would be accounted but as a pleasant pastime.

Not being aware that any book at present exists agreeing in all the points I have mentioned, I trust the matter will commend itself both to your approval and support.

In conclusion, I would further suggest that a chronological record of cclebrated chemists of the present century, and of the present day, noticing their individual discoverios in chemical science, be added as an *Appendix* to the wholo work.

I remain, Sir,

n, Sir, Yours respectfully, J. W.

London, December 23, 1867.

[We thank our correspondent for indicating a real desideratum, but it would be unwise to commence such a work as he describes, without a well-devised plan. We promiso him, however, that his admirable suggestion shall have our earnest consideration.]



CHEMICALS.

THE prices obtained for chemical products are still most discouraging to manufacturers, but there are some signs of improvement. The chemical trade of the past year was scriously affected by the general commercial stagnation, and by the abnormal activity of producers. Tempted by the high prices of 1866, manufacturers sent very large supplies into the American and home markets, and stocks held at high rates were continually being brought forward. The natural result of overstocking the markets when they were suffering from the prevailing depression, was a great reduction of prices. Still, in spite of adverse circum-stauces, the amount of actual business done in chemicals throughout the year has been a fair average. It is to be hoped that the general trade of the country will gradually recover its old elasticity, and that that branch of it which is the subject of this report may become more vigorous than ever. In rough chemicals there has been a serious decline of prices. Sona AsH, the most important product of our great alkali works opened at 2⁴/₂d. per degree, but the fraction gradually became smaller, and disappeared alto-gether before the close of the year. The present quotation is 2d. The higher quality, No. 1, has of course, fallen iu price proportionally, and now stands at 2¹/₄d. The manu facture of CAUSTIC SODA increased considerably during the year, but its price fell from 19s. to 15s. 6d. In SODA CRYSTALS the demand was quite equal to the production. The highest quotation during the year was £5 17s. 6d. in January and March, the lowest, £4 10s. in October. At present the price is £4 15s. ex ship, the product being in moderate request. BICARBONATE suffered greatly from the absence of the American demand and from re-sales. In January last it was quoted at 18s. 6d., and each month following marked a decline of about 6d. per cwt., its present price being 13s. landed. BLEACHING POWDER has been in fair request throughout the year; during the first six months it remained stationary at 14s. 6d. per cwt., from which price it gradually fell to the present quotation of 10s. to 11s., the supply far exceeding the demand. During tho past week 11s. has been paid for the whole of the present year.

TARTARIC ACID, partly owing to the low price of tartar, and partly to the general causes above noticed, declined in price to the extent of 2d. per lb. Foreign has lately been sold at 1s. $1\frac{1}{4}d$, and English at 1s. 2d. OXALIC ACID and SAL ACETOS have been in limitod request, and the prices obtained during the last six moutus must have proved unremunerative to the manu'acturers. In Japuary the former was quoted at 10¹/₂d, the latter at 1s. 0¹/₂d. (2d. per lb. is the usual difference between these products). At present the quotations are respectively $8\frac{1}{2}d$ and $10\frac{1}{2}d$. It is probable that an advance will be agreed upon by the manufacturers. Cirtuic Acid has not varied much. At the present price of lemon-juice it cannot well be made for less than 1s. 11¹/₂d. per lb., its lowest quotation.

The salts of POTASH have also felt the same depressing influences. BICHROMATE is now quoted at 5d. (less 74 per cent.); CHLORATE at 11⁴₃d. to 1s.; YELLOW PRUSSIATE at 1s. to 1s. 1d. The variations in the price of SULPHATE or COPPER have not exceeded 1s. 3d. per cwt. It is now quoted at 25s. to 25s. 6d., but there have lately been some sales at 24s. Some of the salts of AMMONIA were in great demand, and the price of SULPHATE rose considerably. The present quotation for this product is 13s. per cwt. CARBON-ATE remained at 5d. per lb., with a variation in discount of 5 to 10 per cent., as orders influenced the deunad. It is now firm at 5¹/₁d. per lb. SAL AMMONIAC, contrary to the rule of the last two or three years, did not remain stationary, but owing to over-production, and the absence of unaminity among the makers, gradually gave way. In January firsts were at 37s. 6d., seconds at 35s. 6d.; but these prices have fallen to 34s. 6d. and 33s. 6d. respectively.

ALUM maintained one uniform quotation from January to December. The renewal of Iudian, and increase of home orders kept manufacturers fully employed; indeed, the demand exceeded the supply, and many orders have been reluctantly incompleted. The make is now increased, and the supply nearly equal to the demand. CREAM OF TARTAR fluctuated considerably in price, and is now sold at a loss to the importers. The stock being greatly reduced, we may reasonably expect au improvement soon. GREEN COPPERAS (sulphate of iron) has been in increased demand. In January last, it was queted at 60s. per ton, in February at 55s., from March to Juno at 60s. to 65s., and from July to December at 55s. to 60s., present quotations.

SULPHATE OF QUININE (Pelletier's) was at 4s. 4d. per oz. in January last, and advanced to 4s. 9d. in February; but declined in April to 4s. 7d., and from that point to its present price, 4s. 2d.

IDDINE was steady, with but few transactions. Its present prices, 9¹/₄d. to 9¹/₄d. per oz., are too low for the producer. MERCURY has continued stationary from last February, at £6 17s, per bottle. BRIMSTONE varied little in price. The importation was about 50,000 tons, of which 14,000 were sent to London direct, 25,000 to Liverpool, and the remainder to the outports. Refined Roll continued at one price. Sublimed Sulphur was in great request, and the prices were well sustained.

DRUGS.

In the drug market, prices, as a rule, have had a downward tendency during the year just passed ; but, in certain articles, a noteworthy improvement has lately taken place. OPIUM (fine Turkey) has advanced in price considerably since the publication of our last report, when it was quoted at 15s. to 17s. per oz. Much husiness has lately been done in this product at 17s. 6d., and holders now ask 18s. to 19s. Some good sales have been effected at the latter price. Egyptian remains stationary at 3s. 6d. to 7s. CAMPHOR has declined to £6 15s. (China) and £7 (Japan). Good prices were, however, obtained for Refiued, the highest heing 1s. 11d., and the lowest 1s. 8d.; the present quotations are 1s. 10d. to 1s. 101d. Though the trsde of the month in the chief medicinal substances has hcen very dull, there have heen some important sales of certain useful products. Thus, last week a rather large supply of SHELLAC, amounting to 739 chests, was brought forward, and met with a good demand. Iu auction, an extensive supply of ISINGLASS, chiefly Russian, has been offered. Brazil, fine lunp, sold at 3s. 11d. to 4s., middling to good at 3s. 5d. to 3s. 9d., ordinary at 3s. 1d. to 3s. 2d., very small ordinary 2s. 4d. to 2s. 10d. The first public sales of Cochineal held went off buoyantly, though the prices showed a decided decline, and 555 bags were sold. The prices of the different serts ranged from 2s. 10d, to 3s. 11d. per lh. CARDAMOMS have been selling at firm prices; Madras, good and middling, fetching 5s. 10d. to 5s. 11d. per lb. JALAP has been sold at 3s. 6d. to 4s. per lh. A large quantity of NUX VOMICA fetched 15s. per cwt. CASTOR OIL has been hought in at 64d, per lh., and CAS-TILE SOAP at 40s. per cwt. Considerable husiness has been done in GINGER (African) at 30s. to 31s. 6d., and in CINNA-MON (Ceylon, seconds) at 2s. 2d. to 2s. 3d., (thirds) at 1s. 11d.

OILS.

LINSEED OIL attracted little attention during 1867, and the fluctuations were slight and gradual. Excepting in June, when an urgent want of ready oil for the United States set in, we have never had animated markets, and we arc forry to see a further decreasing general export demand, as shown by the trade returns for the year. We believe this, however, has been counterhalanced by an increased home consumption, for, with a total undiminished make, stocks in first hands are even less than those held at the beginning of last year. £37 was the opening price, and it was maintained with an occasional drop of 20s, per ton until the summer, when the cause above alluded to improved the price to £40; it afterwards declined to £39, and further to £37 in September, hut the small make of the two or three previous months caused a reaction to £39 in Octoher, after which it gradually dwindled to £34 10s., at which price it is now obtainable. The transactions which took place in RAPE OIL during the past year were large, but owing to the general stagnation which prevailed, many who had bought oil for estimated pr higher prices, not being ablo to hold their goods, pressed them for sale, and thus kept the market in check. English all been sold.

brown Oil fluctuated hetween £35 to £38 10s, per ton, for spot, during nearly the whole year; except in Octoher, when it reached £39 10s. to £40, but immediately afterwards, fell in value per ton for spot. The present quotations are £34 10s. to £34 15s., and to £35 for February, per ton. In consequence of considerable quantities of East India rapeseed being shipped to the Continent, a good deal of the foreign brown oil imported was made from East India and Continental seed, instead of being crushed entirely from the latter, this resulted in foreign oil only ruling at about 10s. per ton over English made. Foreign refined has been slow of sale, and offers now on spot at £38 to £30, English £37.

A very large business was done in refined COTTON OIL during the past year. The quotations ranged between £34 10s. and £37 during the first six months of the year, after which the price advanced to £40 in Octoher and November; hut during December, declined to £38. It may now be bought on the spot at £37, and at £36 to £36 10s. for delivery January to June. The Crude Oil was influenced by the fluctuations in the price of seed, and £30 per ton had lately heen taken. A quantity of Madras GROUND NUT OIL was received from France during the year. It was of very fine quality, and realized from £54 to £60 per ton. POPPY OIL is quoted at £41 to £42.

In OLIVE OILS there were but small fluctuations of value during the months of January to July, but the very small stocks and high prices at ports of shipment attracted the attention of buyers, who cleared the market and caused Mogadore, which was only worth £55 in June to advance to £60 in August, £64 in Septemher, and £66 in October; the market then became rather easier, and in November the value was £62. The present quotations are £62 to £63 per tun. The highest and lowe-t points reached for Gallipoli were £70 in Octoher, and £62 per tun in January; other sorts were proportionally influenced. Several parcels of Seville were sold last week at £65 and some at £66; Malaga has been seld at £67, and £68 is now demanded. Cephalenia, Malta, and Lisbon have changed hands at £65 108.

COCONNUT OIL last year opened with high prices, the stocks being chiefly in the hands of speculators. Cocbin was at \pounds 61 per ton, and Ceylon at \pounds 51 in January last; hut these prices fell to \pounds 55 and \pounds 49 respectively in Junc. The quotations are now \pounds 56 to \pounds 56 10s. Coehin, and \pounds 50 to \pounds 51 Ceylon. Sydney has been bought in at auction at \pounds 49.

In PALM OIL the highest point reached for Lagos was £42 10s. to £43 per ton in October, and the lowest £40 in November. There have lately been sellers at £40, but little business has been done: 100 casks in public sale were nearly all hought in at that price.

The trade in FISH OILS was very unsatisfactory.

SPERM quoted at £125 per tun in January, advanced to £140 February, March, and April, causing a free use of all kinds of substitutes, and a speedy reaction; in August and Septemher £105 was accepted; there are now sellers at £110. In public sale last week 42 tuns met no demand, and were bought in. Common Oils have attracted no attention, Cotton and other descriptions of seed oils having thrown them comparatively out of consumption.

PETROLEUM (REFINED) at the commencement of last year was quoted at 1s. 5d. to 1s. 6d. per gallon, and at the present time at 1s. 3¼d. to 1s. 4d., 'prices which are much in the huyers' favour. The absurdly low price of 1s per. gal. was in one instance accepted. The market for American Refined has been rather depressed of late. Prime White (1000 harrels) was not long ago sold at 1s. 4¼d. per gallon, and S.W. (800 barrels) at 1s. 4d. Since then, 1s. 3¼d per gallon has heen accepted for another cargo of abeut 1200 barrels S.W.

Up to the month of August, the price of PETEOLEUM SPIRIT was about 8d. per gallon, hut since then, in consequence of a very large demand for hurning purposes, and there being no stocks, prices rapidly advanced to 2s. 2d. per gallon; this has induced shipments from the United States, so that the price is easier. The present quotations are 2s. to 2s. 1d.

The low price of Petroleum has scriously affected the REFINED COAL and PARAFFIN OIL trade. The number of refineries at work in Sotland at the beginning of 1867 was twenty; of these nine have entirely ceased working. The estimated production of Refined Oil has been the very limited quantity of about 160,000 barrels, which has nearly all been sold.

Monthly Price Current.

[The prices quoted in the following list are those actually obtained in Mincing-lane for articles sold in bulk. Our Retail Subscribers must not expect to purchase at these market prices, but they may draw from them useful conclusions respecting the prices at which articles are offered by the Wholesale Firms.]

			1868	3,			1	1867.		
HEMICALS.		Ja	muu	ry. –			J.		ury.	
Acetia por lb	- S. - A	- Q.		S.	d.	S.	€.		N.	d.
Arsenious (ser Arsenie)	U		••	0	0	0	-4	••	0	0
Citrie	1	113		9	0	1	111		12	0
Nitrie	0	5		- 6	54	ō	5	11	ō	5.5
Oxalia	0	SI		0	8 j	0	101		0	11
Sulphurie "	0	01		0	1	0	03		0	1
Tartarie erystal ,,	1	13		1	13	1	- 31		0	0
powdered "	1	2	••	0	0	1	4		1	43
astinost, orepor ton	200	0	• •	90	0	180	0	••	200	0
regulus.	45	0	••	20	0	23	6	••	24	0
star	45	ő		ŏ	ŏ	33	0	•••	0	0
ABSENIC, lump	10	Ŭ		16	G	15	ŏ		15	6
powder	7	3		7	6	6	9		7	Õ
ASHES (see Salts)										
BRIMSTONE, rough per tou	132	6	· · · [0	0	130	0		0	0
roll per ewt	10	3	••	- 11	0	10	3	••	0	0
LODINE day	14	0		14	0	13	01	••	0	0
IVORY BLACK dry nor out	0			0	02	. 0	01		0	274
MAGNESIA, calcined, per lb.	ĭ	6	••	ĭ	8	1	6	•••	1	S
MERCURY per bottle	137	ŏ		ō	ŏ	137	6		140	0
MINIUM, red por ewt.	21	6		22	0	21	6		22	6
orange ,,	- 33	0		0	0	32	6		0	0
PRECIPITATE, red per lb.	- 2	0		0	U	2	6		- 2	6
white ,,	- 12	5		0	0	2	5		0	0
PRUSSIAN BLUE	1	0	•••	1	10	1	0	••	1	10
Alum non ton	150	0		155	· • *	350	0			~
nowder	170	0	••	175	0	150	0	•••	120	0
Ammonia :	110	U	••	110	0	110	0		0	0
Carbonate per lb.	0	5		0	51	0	5		0	54
Hydrochlorate, erude,	, in the second s				÷.1		0		, v	0.4
white per ton	400	0		500	0	400	0		500	0
British (s	ee So	d A	mmo	ouiac	:)					
Muriate (see Hydrochlora	te)									
Sulphate per ton	2 50	0		230	0	200	0		0	0
Argol, Cape per ewt	65	0	• •	- 75	0	75	0	•••	S5	0
France ,,	48	0	••	70	U	50	0	••	76	0
Sigily	50	0	••	28	0		N.	• •	32	0
Florence white	75	0	• •	- 66	0	95	0	••	- 10	0
red	65	0	••	70	0	77	0	**	- 90	0
Bologna, white	78	0		- 80	ŏ.	S7	ŏ		00	ň
Ashes (see Potash and Soda	.)	-					Ĩ.			Ŭ
Bleaching powdper ewt.	10	0		10	0	14	0		15	0
Borax, erudo ,,	25	0		55	0	25	0		45	0
(Tincal) ,,	35	0	• •	- 52	6	35	0	•••	52	6
British refud. ,.	50	0	••	50	0	70	0	• •	0	0
Calomei	2	э	••	U	0	2	5	••	2	6
Sulphate per aut	25	0		คร	6	05	0		0	0
Coppetas, green per ton	55	ň	••	60	0	50	6	•••	55	0
CorrosiveSublimate p.lb.	1	1ĭ		Ő	ŏ	ĩ	ıĭ -		0	ŏ
Epsoin Salts per cwt.	S	ů.		S	9	S	ل اً		2	õ
Glauber Salts	5	6		ថ	0	5	6		Ű	Õ
Lime :										
Acetate, white, per ewt.	13	0		21	6	21	0	• •	18	0
Magnesia :	40									
Potagh:	42	6	••	0	0	42	6	••	45	0
Biebromate now th	0	5		0	0	٥	-1		0	51
Carbonate · · · · per ID.	0	3		0	0	0	25	••	0	03
Potasbes, Canada, 1st.										
sort per ewt.	33	6		0	0	35	6		0	0
Pearlashes, Canada, 1st										
sort per cwt.	37	0	• •	0	0	42	6		43	0
Chlorate per lb.	0	112		1	0	1	01		0	0
Liydriodate (see Potassiu	m, Io	odid	le)							
Suriate (see Potassium, (Unio	ride	9						0	0
red red	1	01	•••	1	10	1	01	••	1	10
Tartrato (see Argo) and C	1.0011	n of	Tart	tari	10	1	22	**	1	10
Potassium :				,						
Cblorideper ewt	8	3		8	6	8	0		8	6
Iodide per 1b.	11	9		0	0	13	0		0	0
Quinine:										
Sulphate, British, In		24			10		-			~
Sulphoto French	4	6	••	4	010	4	0	••	5	0
Sal Acetos	4	101	••	0	0	4	a	•••	1	1
Sal Ammoniae, Brit, ewt.	23	6		24	6	35	02		30	0
Ealtpetre:	.,					00	~		50	·
Bengal, 6 per cent. or										
under per ewt.	19	3		19	0	19	6		10	0
Bengal, over 6 per cent.		-		2.0	0		~			-
Volume per ewt.	10	0	••	10	3	18	6	••	19	3
Rombay and Kaymalan	13	0	••	18	0	18	0		TD	0
Lar out	17	0		18	0	15	0	-	18	0
Per on or		-								

			186	9.	1 1867	
European	8.	d.		s. d.	s. d.	s. d.
British, rofined	21	0	••	22 6	20 0	0 0
Soda:		0	••	-3 U	23 3	23 0
Biearbonate ,,	13	6	• •	0 0	19 0	0 0
Soda Ashper der	0	62		0.0	0.01	0 0
Soda Crystals per ton.	- 95	ō		0 0	$120 0^{-21}$	0 0
Hyposulphiteper ewt.	19	0	••	19 9	18 0	0 0
Verdieris	10	11	••		11 0	12 6
SUGAR OF LEAD, White, ewt.	- 37	Ô		37 6	38 0	0 0
SUL RUUD (are Dates at an a)"	28	0	••	29 0	27 0	27 6-
VERMILION, English, por lb	9	0		2.4	2 0	2 0
Chiua ,	2	- 9		3 0	2 0	$\frac{3}{2}$ 9
ALONS Honatio por ort	0.0	0		300 0		
Socotrine	180	0	1.	180 0	180 0	180 0
Capo, good	30	Ő		32 0	31 0	36 0
AMERICALE (CON	75	0	••	220 3	60 0	200 0-
BALSAMS-	02	U	••	30 Q	35 0	0 0
Canada per lb	. 1	-5		1 6	1 8	1 9
Poru	1	71	••	1 8}	1 85	1 94
Tohu	2	4	**	2 6	3 6	0 0
BARKS-	~	1		2 0		0 0
Canella alba per ewt.	22	0	••	27 0	40 0	70 0
· Poru, crown & grey por lb	18	2	••	25 0	18 0	29 0
Calisaya, flat	2	6		2 \$	2 6	2 7
quill "	2	3	••	2 7	2 0	2 6
Pitavo	0	9	**	1 0	0 10	1 6
Red	2	6		10 0	2 6	12 0
Bucho Leaves "	0	2]	•••	0 0	0 33	0 10
Japan	135	0	••	0 0	$142 \ 0 \ $	145 0
Refin Eng. por lb.	1	10		1 101	1 11	0 0
CANTHARIDES "	1	10	••	1 11	2 2	2 5
CASTOREUM	- 40	0	••	SU 0 92 0	40 0	120 0
DRACON'S BLOOD, reed p. et.	190	Ő		230 0	200 0	280 0
Lump "	100	0	••	230 0	00 0	280 0
Anise. China btar pr ewt	(80 S 190	eea:	s an	4 Spices)	87 6	00 0
German, dc. "	30	Ő		42 0	26 0	46 0
Beaus, Tonquín per lb.	1	0	••	1 6	1 2	2 4
good good	7	6		S 6	5.6	6.0
inferior "	5	3		7 3	3 9	5 3
Madras "	5	0		7 9	3 6	5 3-
Corozo Nuts por cut	12	10	••	3 3	3 6	3 9- 97 6
Cassia Fistula.	20	0		32 0	18 0	34 0
Castor Seeds "	10	0		12 0	10 0	12 0
Colcevity Indicus ,,	22	61	••	25 0	$25 0 \dots$	30 0
Croton Seeds per ewt.	90	0		105 0	145 0	180 0
Cubebs "	45	0		46 0	60 0	65 0-
Dividivi	10	0	••	20 0	$16 0 \cdots$	20 0
Fenugreek	ii	ŏ		12 0	10 0	13 0
Guinea Grains ,,	49	0	••	51 0	58 0	62 0
Juniper Berries "	11	0	••	10 0	8 6	10 0 15 0
Nux Vomica	15	0		10 0	7 6	10 6
Tamrinds, East Iudia ,,	19	0	• •	26 0	25 0	26 0
West India ,,	16	0	••	27 0	$\begin{bmatrix} 12 & 0 & \cdots \\ 10 & 0 & \cdots \end{bmatrix}$	19 0
inferior	4	0		8 0	5 0	14 0
Wormseed per ewt.	1	6	••	0 0	5 5	6 O
(duty 1d per lb) per lb	0	0		1 0	0.10	1 0
GUMS (see separate list)	U	0	•••	1 0		
HONEY, Narboune "	0	0	• •	0 0	50 0	70 0-
Jamaica ,,	20	0	**	43 0	25 0	55 ()
IPECACUANHA	7	Ŭ		7 3	94	9 0
ISINOLASS, Brazil . ,,	2	4	••	3 11	2 2	4 4
Tonguo sort ",	3	0	••	4 2		4 10-
West India ,	3	7		4 0	3 0	4 2
Russ. long staple	9	0	••	10 0	10 0	11 0
,, leaf ,, Simovin	0	G	••	8 9	30	26
JALAP, good	4	3		5 0	4 8	5 6
infer. & stems "	0	0	••	3 10	0 9	4 6
LIQUORIOE Spanish per cent	65	0	•••	70 0	05 0	75 0
Italian ,,	50	0		60 0	50 0	70 0
MANNA, flaky ,	3	0	••	4 3	4 0	4 0
MUSK per 10.	21	0	•••	35 0	20 0	35 0
OILS (see also separate List)						
Almond, expressed per lb.	1	S	• •	0 0	$1 9 \cdots 0 61$	0 0
second	0	04		0 7	0 6	0 01
Infer. & dark ,.	0	6		0 01	0 57	0 6
Bombay (in casks)	0	0		0.0	0 54	0 6
Cod Liverper gall.	3	6		5 6	4 3	8 0
Croton	1	2	••	16	1 2	1 0
Almond	37	0.		0 0	38 0	0 0
and a second second second second						

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THE CHEMIST AND DRUGGIST.

[Jannary 15, 1868.

			11.012	1 1.0.17	1 2007	1987
	-	1	503, 	1807. a.d.	1803.	1597. s. d.
tutes appl	- 5.	a. 0	11 0	9300	SENEGAL	114 0
Alliso Scott in	- 80	õ .	00 0	80 0 00 6	SANDARAC	110 2
Bargamot	11	ŏ.	10 0	11 0 16 0	Thus	0 0
Calepart. (in boud) peroz.	0	2	. 0 24	0 21 0 3	Тилолсанти, leaf " 240 0 280 0 200 0	260 0
Carawaypor lb.	5	ō .	. 6 6	50	in sorts ,, 160 0 220 0 69 0	170 0
Cassla	Ű	6 .	. 08	7079	01LS. £ 8. £ 8. £ 8.	£ 8.
Clampnon per oz.	1	3.	. 36	$1 0 \dots 3 0$	SEAL, paleper tun 40 0 0 0 45 0	46 0
Climamon-leaf ,,	0	5	. 0 7		yellow to tinged ,, 37 0 39 0 42 0	44 0
Cltrenelle ,,	0	21 .	. 03		Drown	40 0
fine "	0	34 .	. 0 31		SPERM, Dody ,, 110 0 0 0 125 0	120 0
Clove		0.				120 0
Jumper	•)	0 .	• <u>1</u> 0	2 0 2 0	WHALE South See nale 39 0 0 0 45 0	
Lanvender	5	0	ี้ ธี อ้	6 0 10 0	vellow 38 0 38 10 44 0	
Lonion(Tiss DOT 1/2	ŏ	61	0 7	0 114 0 0	brown 36 0 37 0 40 0	
Noroli	3	6	4 6	3 6 4 0	East india, Fish 35 0 0 0 34 0	35 0
Nutniest	0	8	0 0	0 8 0 11	OLIVE, Galipoli 70 0 0 0 61 0	62 0
Orange	5	0	7 0	5 0 7 0	Trieste 69 0 0 9 59 0	59 10
Otto of Rosesper oz.	10	0	20 0	17 0 21 0	Levant , 65 0 0 0 57 0	0 0
Poppormint :					Mogador, 62 0 63 0 56 0	0 0
Americanper lb.	20	0	21 0	19 0 20 0	Spanish , 60 0 68 0 59 0	00
English ,,	34	0	44 0	$28 0 \dots 30 6$	Sicily , 00 0 0 0 59 0	0 0
Rosemory	1	9	20	$1 9 \dots 2 0$	COCOANUT, Cochin., por ton 56 0 56 10 58 0	0 0
Sassafras	_ 3	0	33	3036	Coylon ,, 50 0 51 0 50 6	51 6
Spearmint ,,	10	0	25 0		Sydney ,, 42 0 50 0 42 0	48 0
Thyme	1	10	4 0		Bowhere Rouse AND GINOELLY:	0.0
Maco, oxpressoa "	10	0	10 0	19 0 19 8	Madrae 51 0 51 0 51 0	0 0
Wormtian	24	õ	7 0	8 6 7 0	PALM. fino	42 0
4) uses (hitter wood) per ton	100	õ	105 0	100 0 115 0	LINSEED	37 5
RHUBARR, China, good and		• ••			RARESEED, English, pale 37 0 0 0 41 10	0 0
tine	6	0	9 0	6 0 10 6	brown 34 10 34 15 38 10	39 0
Good, mid. to ord	1	6	50	18 50	Foreign pale 38 0 39 0 42 10	43 0
Dutch trimmed ,,	10	0	12 0	96 100	brown 35 6 0 0 40 0	0 0
Russian	9	0	10 0	90 100	COTTONSEED	38 0
ROOTS-					PETROLEUM, Crude 10 0 11 0 14 a	0 0
Calumba per cwt.	22	0	30 0	70 0 80 0	s. d. s. d. s. d.	s. d.
China	30	0	0 0	25 0 33 0	refined, per gall. 1 34 1 4 1 5	1 6
Galungal	15	0	17 0		Spirit ,, 2 0 2 1 0 6	0 8
Gentian	10	0	17 0		£ 8. £ 8. £ 8.	£ 8.
ficilebore ,,	20	° ···	32 0	30 0 32 0	LARD	59 0
D Without	50	0	40 0	80 0 · · · · · · · · ·	TALLOW	30 0
Pipl ner lb	0	å ···	0 11	3 6 4 0	SEEDS	
Rhotany	ă	6	1 0	0 0 . 1 0	CANARY	60 0
Senoka	ĭ	5	n o l	1920	CARAWAY English per own 44 0 46 0 0	
Snake	î	5	iŏ	4 0 0 0	German &c. 40 0 48 0 0 0	0 0
SAFFRON, Spanish	30	ō	34 0	36 0 38 0	CORIANDER 0 6 0 0 1d 0	. 20 0
SALEP	100	0	120 0	130 0 140 0	HEMPDer gr. 42 0 44 0 44 0	46 0
BARSAPARILLA, Lima per lb.	0	0	0 0	1 0 1 4	LINSEED, Black Sea & Azoff	
Pars	0	0	0 0	0 11 1 1	per qr. 65 6 66 0 66 0	0 0
Honduras ,,	0	10	14	0 10 1 6	Calentta ,, 67 6 0 0 66 9	77 0
Jamaica	1	0	2 1	$1 2 \dots 2 2$	Bombay ,, 68 6 0 0 08 0	60
SASSAFRAS per ewt.	10	0	0 0	8000	St. Petrsbrg. , 64 6 0 0 61 0	63 0
SCAMMONY, Virgin per Ib.	28	0	30 0	30 0 42 0	Archangel ,, 58 0 59 0 59 0	0 0
second & ordinary "	11	0	23 0		Mustard, brownper bshl. 0 0 0 6 15 0	17 0
SENNA. Bombay ,,	0	2	0 31		Boppy Fot L. K	15 0
Alexandria	0	23	0 10		POPPY, East India per qr, 58 0 0 0 61 6	0 0
Sprutterert rofined	ĩ	0 · · ·	0 0	1 0 1 010	SPICES	
American .	1	6	0 0		CASSIA LICNEA DOR OWE 195 0 199 0 115 0	195 0
South	- ô	11	0 2			60 0
	, v	*3 *•		· · · · · · · · · · · · · · · · · · ·	Buds	140 0
HIMS.					CINNAMON, Cevion.	
AMMONIAC, drop per ewt.	180	0	220 0	180 0 220 0	1st quality per lb. 2 0 2 9 1 7	3 0
Innip "	120	0	160 0	80 0 160 0	2nd do 1 S 2 5 1 4	2 4
ANIMI, fine washed ,,	210	0	230 0	210 0 230 0	3rd do , 16 22 13	2 0
bold scraped ,,	190	0	215 0	$100 \ 0 \ \dots \ 200 \ 0$	Tellicherry ,, 20 21 16	111
medium,	150	0	180 0	175 0 200 0	CLOVES, Penang, 0 10 0 111 0 11	10
Small	109	0	147 0	100 0 160 0	Amboyna, $0 53 0 6 0 5$	0 5
ADADIC F I GDO	10	0	100 0	80 0 105 0	$\begin{bmatrix} 2anzibar \dots \\ 1 & 0 \end{bmatrix}$	0 31
pale nicked	90	0	02 0	105 0 115 0	Oud to wood the of the	115 0
srts. gd. te fin	77	0	87 0	95 0 105 0	African	0.0
red & mixd	00	0	74 0	S2 0 90 0	Bengal	. 26 6
TURKEY, pick. gd to fin. "	175	0	215 0	195 0 220 0	Malabar 0 0 0-0 29 0	30 0
second & inf. "	85	0	170 0	105 0 170 0	Cochin	125 0
in sorts ,,	70	0	88 0	85 0 120 0	PEPPER, Black. Malubar 0 44 0 5 0 4	0 5}
Gedda,	40	0	47 0	64 0 66 0	White, fellicherry 0 9 1 91 0 9	. 1 61
BARBARY, White ,	10	0	11 0	90 0 95 0	Cayenne 0 6 8 0 6 0	. 90
AUSTRALIAN SI	10	0	50 0	60 0 02 G	TADIOUS DRODUGES	
Assa FEETIDA com to gd	40	0	100 0	85 0 05 0	CHANO PRODUCTS.	
BENJAMIN, 1st qual	520	õ ···	660 0	540 0 90 0	African fra norton 70 0 110 0 70 0	110 0
2nd	350	0	500 0	260 0 . 520 0	Peruvian 0.0	
3rd	110	0	360 0	80 0 320 0	COCHINEAL	
COPAL, Angola, red	00	0	70 0	70 0 80 0	Hondnras, black , per lh 3 3 4 4 3 9	4 7
pale	0	0	0 0	85 0 00 0	silver	. 3 10
Bengueli ,,	04	0	75 0	60 0 SO 0	pasty 16 30 00.	. 0 0
Sierra Leone per lb.	0	0	1 2	0 5 . 0 11	Mexican, black 3 2 3 6 3 5 .	. 3 6
Manilla per ewt.	26	0	45 0	26 0 48 0	, silver ,, 3000 34.	. 3 5
Engloppins	68	0	70 0	55 0 66 0	Lima	. 00
GALBANUX	13	0	21 0	20 0 22 0	Teneriffe, black ,, 3 1 4 0 3 4 .	. 4 7
GAMBOOR meled nime	240	0	280 0	500 0 220 0	silver, 211 36 33.	. 37
in sorts	740	0	840 0	400 0 900 0	LAU, Shellac, orange por cwt. 77 6 92 0 80 0 .	. 94 0
GUALACUM	0	6	2 0	0.8 110	Garnet	. 12 0
KINO	120	0	100 0	300 0 . 400 0	Button dark to mid 60 0 60 0 52 6.	- 70 A
Kownie, rough	31	0	38 0	20 0 45 0	Good and fine	. <u>S</u> G
scrated	40	0	75 0	50 0 90 0	Seeding	. 95 0
MASTIC, picked per 1b.	5	6	6'6	3090	Sticklac	. 80 0
MYRRH, gd. & fino per cwt.	190	0	220 0	150 0 ,. 180 0	PUMICE STONEper ton 120 0 160 0 100 0	. 160 0
sorts	100	0	170 0	80 0 140 0	SPONGE, Tnrk. fin pkd pr 16, 12 0 14 0 12 0	. 14 0
OLIBANUM, p. sorts ,,	85	0	90 0	70 0 77 6	Fine to good , 5 0 11 0 5 0 .	. 11 0
amber & ylw. ,,	75	0	82 6	60 0 07 0	Ordinary 20 40 20.	. 4 0
Rarphings	30	0	45 0	23 0 43 0	Balana	. 19