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## Origimat empros.

## PHARMAOEUTIOAL ETHICS.

BY J. T. SIISTTER.
 Dec. 2, 1568.
Mi. Phembent ani Gentlemen: It is customary for individuals seeking the attainment of science, to avail themsilves of the experience of those whose rescardh has given them :a relative perfection in that particular beanch to which attention is beiars directed. In the formation and progress of the British Pharmaceutical Society we have repeated evidence of the up-hill work attending its existence, and but fur the indomitable perseverance of its founders it might have been to-day a thing only in name. The resuits they have achicved are strong in. centives to us in our moment stade, and as pharnaceutssts we shall take advantago oi their education and experence, not confining ourselves to originaity because it might ba thought more efratifyiag or independent. Our lamp buras none t!e leas for lighting our neighbors. The besefit inculcated in this axiom is indursed by overy true philantropist, and it is our privilege to cull from the hterature of the diy, the results of tho lalon of orr greatest men, and tu, make such capital ont of their expressed idens as we ore capable of deducing. I have been often gratitied and instructed by perasing articles from the pen of she. Joseph Ince,
an associate of hing's College, London, and I was forcibly struck whilo reading recently at paper of his on Phamaceatical Ethies, composed by request for presertation at the Coniercuce which met at Nutimgian, in Angent, 1 Serf. It migite bo reat hase and, ir ansfurud tu vur juaband w thac adtantuege of all its members, but its theory is someWhat too caalted to be relaccal to practice by ourselves who.cater for the million. Ar. Ince's trade assuciations being exclusively in the upper circle, those outzide of that circle would be apt to consider him highfluma in theory, white his citations are only adnpted zractically to tho syhere of his own expexienec. I have thercfore taken the liberty of selceting tho leading loints, and adapting the itens therein cunveyed to our own condition. We will pueface the subject by

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TRANSACTIONS OF THE SOCIETY.
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WOOLIRICEISS PHOKMEETUP HYMTERS.
$\$ 40$ per gross, less $10 \%$ for Cash.
Aygust, 1868.
quoting Cuinl's explanation of tho term othics.

Ho torms it "The doctrines of morality, or social manners, the science of moral philosophy, which tenches mon their duty, and the reasons of it ; a system of moral principles and rilos for:regulating the actions and mamers of men in society."

An amlysis of this explanation would teach us, as members of tho Pharmaceutical Society, om necessary qualifications, dutics and responsibilitios. Assuming that the Pharmaceutist has received a fair cducation, and is in this respect qualified to perform his, various duties with intelligonco and accuracy; it will be generally admitted that he would be still better fitted for his position by having what is usually called moral, principle. This may be said of every man, but it seems to lave peculiar force when applied to the pharmacentist, whose position is one of trust, the interests committed to his charge being so important as to require that even in minute and trifling details his laties should be conscientionsly performed, and in many cases the only suamentee to the problic is his professional and moral character.

Certain ethical pxinciples are common to hmmanity, stech is prudence, diligence, punctuality, honcsty, sobricty, with the kimiren excollencies. It would upset the moral govermment of the world to live without them, and on the assumpion that the pharmacentist lnows and practices these true principles it is taken for granted that lie must regulate his conduct by the observance of ethical laws. But while there are ethics which concem humanity in general, there are others which belong specially to pharmacy, and these we will consider.

Our worthy brother must have experienced no small difliculty from the danger of crowding the main theme with details, uscful and important ia thenselves, but relatively of minor interest, and I claim your indulgence if in the transpos.tion I have committed this error. The subject is introduced by Mr. Ince's remarks on "the ethics of the shop." Phamnacy is a trade when a man buys goods at one price to sell them at another, gaining the advantage in tariff, being further influenced by the known lass of supply and demand. When he luys in undivided bulk to sell again in undivided bulk, ho is a merchant. When he purchases in undivided bulk to vend in large though divided bulk, he is a wholesale tradesman. When he buys articles in divided bulk, to sell again in small divided hulk, he is a retail tradesman; nor does it make the slightest difference whether he wells hats or turkey rhmbarb, nor whether the render of the rhubarb be Sir Humphrey Davy.

The artist, on the other hand, is a profes-

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Toronto，Nay， 1868.
1.
sional man Ono painter buys so many feot of canvas，togethor with so much paint；ho places possibly upon that cantios something Which may not increase its valuo．A second buys tho simo amount of canvas，inch by inch，on which he puts the sume amount of color，ounco for ounce，and the result may be＂the Immaculate；Concoption．＂He places on the canvas that whicls he cannot buy． He simply exercises a constituent part of his mature peculiar to himself．

Neither is the trye artist influenced by the necessities of competition，nor by the trade 1 fluctuntions arising from supply and demand． A humdred artists more or less would not alter his position，and as many painting on the same subject would not detract from the merit of his own．Its value is intrinsic and not relative．But the pharmaceutist buys his stock，whether of drugs，chemicals or sundries，in order to sell again，he is a tradumain；but let not those who would fain think it a profession，be discuuraged by the assertion that there arouther influencesat work to modify the general fact－the awal－ cning claims of universal edncation，the long mafaltering teaching of our parent society， and the actual pressure from without． Then there are influences of locality and in－ dividual character，：lll of which tend to ele－ I vate us above mere trade instiucts，and tho more wo educate ourselves to meet the wants of the public，the more casily will that which we cumot divest of the term trade assume more or less a strictly profes－ sional chazacter．
Never iorgetting the essentially trade na－ ture which belongs to pharmacy，we at once come to the first ethical anle of the phar－ maceutist，riz：the necessity for the abso－ lutely genume chameter of his drugs．No drug or remedy should be admitted into his store other than that which，in case of dan－ gerous illness，he would not hesitate to sup－ ply to the inmates of his own family circle． Varions are tho circumstances necessitating imovations，and it would be an impossibility for a druggist to confino his stock within the precincts of the materia medica；but in no case should any trade casuistry induce him to lower the standard of excellence of whatever he may possess．The pharmacent－ ist who bears thes rigidly in mind will be in Ino danger of demading himelf by the adop－ tion of low and ruinous prices．Whoever has committed this transparent trade mis－ take must not afterwards blame the public for cexecting the continuance of a state of things to which ho has himsulf voluntarily stooped．On this tonic I linve great pleasure in quoting the opinion of another clemical star，MIr．Brady，of Nottingham． $\mathrm{H}_{0}$ says：＂The principle which ought to

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guide the pharmaceutist in tho regulation of his chartes is，that romumeration should increase in proportion as the chass of articlo makes greater demund on the knowledge ob． tained by his professional education．If he sells articles donlt in by other classes of tradesment，he must submit to the same ratio of profit．In drugs proper，which require an ednented judgmont，power of testing and the like，ho is entitled to a higher rate； whilst in all matters of dispensing his charges should be professional in their character，and not calculated on the cost of cmployed ma－ terials at all．Wo camot materially in－ crease tho quantity of medicine sold by re－ ducing tho price；henco any of us endeavor－ ing by low charges to increase his business， must recollect that he does it to the direct injury of the body，in reducing by so much the amount of money that might accrue from its legitimato practice．In cities or large towns tho responsibility of priecs charged rests with two or threo leading men，and if they aro the to their professional instincts， the calling cansencely fail to prosper．＂I think nono present will dissent from this theory；it is true，certain locations and other circumstances may demimel its modi－ fication，but with its details I fully agreo．
Our regad to self－respect in connection with trulo interest，suggests a third cthical observance，viz：to supinly the public with the precise article for which thoy ask．The zule of cerery well regulated establishment is to supply faithfully and ：mplicitly whatover a customer may require ；to obtain it，if not in stock，and to spure no pains that it shall be the identieal thing desiced．To do othor－ wiss，Mr．Ince remarks，would not warrant so fine a phase as a trade crror，but a pure shop mistake．Docs the customer want Drown＇s Chlorodyen，he receives that mado by Mr．Davenjort ；if quinine be ordored， salicine must not be sabstituted，and so with the whole list of similar preparations， whether demanded as a retail order，or as forming an ingredieat in a physician＇s recipe． This course of action is due，not to any keen sense of honor，but to trade expodieacy，and any house in city or country adopting such a principle，must gain a reputation which in－ fintely comiteribalances tho small extra re－ mumeration to be made out of fictitious arti－ cles；confidence recstablishes trate，the aim of all engaged in its pursuit．

Arising out of the preceding remark，and on which the suceess of the phermaceutist depends，is in major ethical consideration that cum only be treated in a minor loy－ that is porfect civilty to，and careful atten－ tion to the smallest wimes of tho poorest customer－a civilty that on all accasions should be expressed thy words and mamer． Before dismissing this section I ber to offier
a romurk on the relation betiveen the em－ ployer and the omployed．What I have said npulies specially to tho employer；but lot not the ussistant think he stands aloof from the responsibility of his master．It is quite ob－ vians that，the ethics of the trade concorn the one as well as the other；let the assistant fecl that he has a part to play，just as difli－ cult，and just iss important as his omployer； that on his side he must oxerciso considera－ tion，and adopt the high tono of feeling which characterizes the gentloman，and ho will do moro to rendor pharmasy ondurablo， and to 1 romote its social welfare，thąn whole reams of essays that conld be written on the subject．We are free to confess，that the mutualitios between masters and apprentices hitwe often been very imperfectly performed， perhaps on both sides，but in very many instances this has arisen from the defective education of tha lattor，disqualifying him to nppreciato his condition，or tho attainment of his trug position；while mastors in taking appreatices，havo looked too little to the preliminasy clucation，necessary for entering on a sibuatilic business，thoy have been unable to ime wis that special instriaction which it is thoir duty as teachers to inculcate．
13 it we trast mat－ors are now improwing on these puints，and that whilst the mater is no longer catimt to lay behind in the general progress of sovioty，the assist：atat and appreatics，stiandiated by the course tho Governments aro tising for the general ad－ vancement of our body，and tho duties con－ sequently imposol upo：thom，will riso show that laz indifinence which has so long char terized tham．On glancing over the druggist＇s circular for last month，I met with the fol－ lowing，which exhibited a condition in phar－ macy that should bo tho aim of our sosiefy to prevent．The correspondent 83js：＂ 1 brother diargist，a graduate from the Phila－ delphia Coblege of phar．azey，sent to him a prescription in order to have it explained to him．It ran－Dec．Rad．Althe 3 oz．，with five ous six other ingredients．Though writ－ ten in a plaia legible hand，said individ－ ual was uarble to make ont tho first line． Another cane to him with the following for cxplanation－Bramly， 3 uz．，Vitelli Ovi．$\frac{1}{2}$ oz． Brandy he knew，bat the nexi thing was a something he supposed tho doctor ordered 7 pints of，mistaking the Ovi．（not linowing what preceeded it）for a term of mearure． I trust our Suciety will see the necessity for imposing such restrictions as will clevnte its members to its true position．
This introduces us to another section，em－ braced in the term modical cthics，－i section of the subject that domands our most carc－ ful consideration．Owing to the educational pressure from without，and the sense of per－ $s^{\text {onal }}$ responsibility，the Pharmaceutist is
daily censing to bo tho mero vendor of his drugs ；by rocognizing the necessity of thor－ oughly understanding the nature and proper－ ties of remedial agonts，he is working out tho ethics of his trade．On this topic， $\mathrm{DH}_{\mathrm{r}}$ ．Howden remarks：＂The maintonance of the public health requires tho services of three separato offices．1st，The sanitary oflice，which cn－ forces the observation of natural laws．2all， ＇The physicin＇s office，which investigates the nature of discase，and studies the method of subduing it．3rd，The Phamacontical oflice， which consists in the skilful selection and preparation of remedies，and their direct application；according to the physician＇s muthod．By virtue therefure of his own position，and his matual relation with at least this second health oflicer，the Pharma－ centist camot worthily discharge his duty， unless by delilierate cultivation，he hats made himself the fit companion and seconder of the physician．＂

It has been stated，that，the medical pro－ fession look with a jealous oye on the intel－ lectual advance of the modern phamaceutist； but 1 think this is contrary to fact．Why a professional man should tronble becanso his directions aro likely to bo understood and properly carried oat，is adverse to all logic． The one least likely to interfere with him in a professional career，is the man who knows most of the raried action and the strength of drugs，and the therapentic value of remedial arents；it was this viow that cansed the ac－ tion taken by a few leading members of the profession，which has resulted in the forma－ tion of tho Pharmacentical Society．To establish comfidence，a matual understanding must exist；and，should the Pharmaceutist fail to bo the holper，and fit companion of the physician，he linas not vightly understood either the dignity of its calling or its moral responsibility．The tric Pharmacentist will always be the helper，for it is his to know the mechanism of the healing art；to develop new remedial agencies；to onter uron mutried regions of experiment；to utilize the dreans of theory，and to bid science wait on the wants of daily life．In all theso things tho true physician will gladly be instructed；neither will he refuse advice，nor withold his friend－ ship from one who，though working in a humble sphere，is yet able to enlarge tho basis，as well as guide the exercise of pro－ fessional still．In this way an understanding grows up，founded on personal advantage， deopened by common sympathy，and ce－ mented by mutual respect．I think the pro－ por course has been followed by our parent socicty，in opposing all interference on the part of chemists with offices for which thoy have no qualification；in other words，to draw the distinction betreen frescribing and disycusing medicines；and our Suciety will
do well in this respect to imitate their exam． ple．I am far from belioving，that any dofin－ ite lino of demarcation can bo drawa between the medical sciences or tho practices founded upon them；sutgery，medicine，mud pharmacy， are as much an examplo of continuity，as tho development of specics or the co－relation of the physical forces；but I do urge that the oflices pertaining to oach department should， in common fairncss，if from no bottor reason， be left to those who have special qualitica－ tions for their fulfilment．

I trusi，I am distinctly understood，that by this，I do nut animidrert on the occasional recommendation by chemists of simple reme－ dies in cases of emergency，or for those little ills of daily life，commonly reghuded as tuo trivial for anything beyond homely treat－ ment．This is not what medical men com－ plain of．What is deprecated，is a deliberate trespassing in a province distinct from our－ own－the intercophion of practice rightly per－ taining to the qualified prescriber．We each have a duty in this matter，and my convic－ tion is，that the line of duty coincides with that of our own interest．It may be urged by some，in defense，that their lecitimate calling is injured by so many medical pmo－ titioners dispensing their own medicine． While this，no doubt，is a grievance，it is no defense．In a large number of instances，it would be impossible for a medical man to pactice without dispensing also，and in many cases，in Which we think a scparation of the two functions would be eass，we must make large allowances for a custom，strictly legal， which is often followed out of deference to the convenience of the public，even in oppo－ sition to the tastes of the practitioner．The relations between medicino moper and phar－ macy have been till now so ill－defined，that much forbearimce is needed on all sides． While things are settling into their proper order，medical practitioners，from time im－ memorial，have been accustomed to dispense， indeed，time was w！en they alono were pro－ perly gualified for the purpose；and，for the state of things we desire，we must rely on the chango that is gradanlly taking place it． medical education，and wheln cuncerns itself less and less with pharmacy and Materia Medica．On the other hand，we may fairly claim from the medical profession equal con－ sideration，since we，like themselves，are but servants of the pullic，whose iders of right and wrong，in respect to medical advice can only be reformed by a sort of educational process． Most of all it is for us to show，that practice in those branches of medical science to which we are specially devoted，may safely be left in our hands，and in tho mutual confidence thus established．The ground for jealousy will disappear，and wo shall enlist the cordial co－operation of all tho fraternity．But in
the attainment of this end I hold to tho opinion，that a man should cultivnto $n$ lovo for the business of his choice：its oxercise should bo to him a sourco of pleasure，and its various occupations should contributo to his happiness－in other words，ho should put his heart into tho hamblo of tho trowel．With some men this is natural．Thrico happy is their lot；athers must acquire the gift－for the ${ }^{\circ}$ honvy discontented spirit is tho most sapping of all matign inthonces．Tho love of business in our own case involves the lovo of study，and this is the strictly professional part of our character．On this subject，Mrr． Ince remarks：＂Of that etudy which concems our own immediate necessities，such as tho laws of chemistry，the knowledge of plants， and the rango of Materia Medica，I say nothing，as the subject is so frequently brought before you that I have taken it for granted． I confess I havo a strong bearing to that class of mind which goes beyond this，and loves literature and learning for their own sakes．Nothing（ho continnes）in my own career has more brightened toil，and lessened the irksomeness of manual labor，than the recollection of a classical education．＂But if，unfortunately，this is not our case，may we not render it passible for our successors， through tho judicious mamagement of our institution．With theso remarks，I consign the subject to the care of the Committee．

## getinimy．

## ASSAYING FOR AMATEURS．

はメTHEXDITOK。
chapter iv．

## Wet Process for Guld－Another Method．

Having made a judicions solection of the specimens for assay，so as to represent，as nearly as possible，the general character of the rock from which they were taken－tho chippings must be powdered together in an iron mortar，until is fino is ordinary flour． In order to insure uniformity，the powder must be passed through fine muslin，and the coarser particles agnin subjected to pulver－ ization and sifting until all has passed through；a suitable portion for nssay must now he weighed with accuracy．Tho quantity depends on the richness of the rock；for ores，containing a large anount of metal， ten or fifteen grains will be sufficient，but for comparatively poor ores－as those of our Cimadian gold fields，and which usually contain less than one part in thirty－two thousand，it will bo necessary to take about two ounces，as the amount of gold contained in a les3 weight might be unappreciable．It is always proper to make assays in duplicate；
in any case, a sccond portion of tho powdor shall bo reserved in the event of accident, or fillure.

Place the powatered ore in a Florenco fark, and joum upon it, carofully, and in small portions at a time, about two onnces of aque regie, diluted with an cqual bulk of watex, apply a gontle heat until all soluble matter is dissolved, adding more acid and water, if necessary. Tho changes which may take place under the action of the acid will will bo as follows :-

Gold will bo entiroly dissolved, boing converted into the terchloride. Silucr will bo foum with the insoluble portion as a chloride. Iron, or cepper pyritco, will be decomposed, tho metal going into solntion. If the matrix of the ore bo a calcareotes or magnesim rock containing carbonic acid efforvesconce will take place, with ovolution of the carbonic acid, the lime or muynesia being dissolved. Silice or ģuartz, remains uancted on.
The solution must now be decunted from the residne, or filtored through a piece of paper, or through a tuft of cotton wool phaced in the neck of a glass fumel, and the undissolved portions carefully washed-the washing being mixed with tho original solution. This clear solution must be boiled to about one-fourth its bulk with the cecasional addition of a little muratic acid for the pupose of decomposing any nitric acid which might bo present. Otherwise, a small amount of aqua regia aight be formed which would be very injurious in the next part of the process in redissolving the precipitated gold. To the solution add a few ulunces of water, and put it in in clear ghass vessel. Next prepare a solution of sulphate of iron, by dissolving a few crystals in water, and filtering. Add this solution to the first, stirring with a glass rod-if goid be present it wall be at once precipitated by the iron as a chocolate brown powler, aml must be allowed a sufticient time to subside, when the clear liquor can be pouredofi, and the gold cullected and weighed; or fused into a button, with borax, beiore the blowpipe. When the sulution of gold is very dilute a blue violet color will be wbserved. by transmitted light, which is perceptible when the gold does not excesd one part in six hundred and forty thousand parts of liquid.

If it is desirablo to estimate the amount of silver present in the ore, the undissolved residue-which we have said consists of silica and cluluride of silver-must be digested with a little strong liquor ammonia, which will dissolve the chloride. The solntion must be diluted with water, mad afew drops of hydrochlosie acid alded. The silver will be again precipitated in white thekes, as chloride; it may be estimated as three-fourth silver.

In cases whore tho iron or copper pyrites is large, and the gold is present in small quantitios, nother method of assan is anvisable. It may be performed by treating the powdercd ore, at once, with dilate nitric secid (one part acid to ono of water), and heating until all solublo matter is dissolved; decent the clear liguor nud wash the residuo with water, adding the washings to the solution. This solution will contain all the motals present except gold-and in some cases lead. The silver can be precipitated by hydrochloric acid, and estimated as before. Dhe copper can be readily estimated by inserting in the solution, from which the chloride of silver has been sepurated, a few pieces of bright iron, tho metal will all all drop out and ann be washed and weighed.

Heat the residue containing the gold and silver with dilute aqua regia, the gold will be dissolved. The solution must mow be craporated to dryness and the metal reduced with a little burax, in the blow-pipe flame: the minuto globule of gold must be detached from the flux and carefully weighed.

> (то :1: (\%NTNU:D.)

Godid Mines of Travsylvania.-Dr. Guitave Themenmak has read before the Imperial Geolugical Instatute a very complete account of the gold mines of Transylvania. It appears the precious metal is found disseminated in almost imperceptible particles in the trachytic rocks 112 the cnvirons of Falathma and D'Abrtud Banya, where it is still worked ly the most primitive methouls. There are 300 familics or partuerships, comsisting each of three individeals, o: thereabuuts. A thansand qumtals of the rock yieh abont 8,500 grains of pale yellow gold, which contain alittle silver. The rellededh is of the crystalline rocks found in the valley of l'Axanyos is carefnlly washed, and yields about haif an ounce of gold to 31,600 quintals of stuff. This gold is of a deeper colour and contains less silver. They also find gold in a peculiar reestone (Carpathiqucs buccurlcs), which is of a pale color like that found in the trachytes. The gold mines of Transylvania have been worked from the carliest hastore times, yet they still fumish above 2,000 lus. avoirdupois annually.-Englis/a Mechanic.

## Preparations of Conium, Hyoscyamus and Belladonna.

At a recont meeting of the British Pharmaceutical Confercnce, D. Manhury, F.R.S , the President, in alluding to the recent lectures of Dr. Harley, said:
Dr. Harley's experiments on comium seem to me a model of eareful therapentic rescarch. The resuits are of ereat intercst, proving conelusively that the drug is an active medicimal agent, but one of which the pharmaceutical preparations have been so defective and uncertain. that the efticacy of the medicine had come to be regarded is very questionale. The dried leaf of henduck was fomed by Dr. Harley to be of little, if any, value; the tincture, whether made from leaf or fruit, to be
incrt (excopt from its alcohol), and tho oxtract to be so weak in conia that is recpuired to be given in closes of 30 to 40 grains to produce the least effect. Tho only preparation which retains the active principle of the drug in sufticient quatutity is tho presered juice. Which, given in the doso of from 2 to 8 drachms, is a safo and valuablo maclicine. As to belladomna, Dr. Hurley considers that its medicinal powers aro wholly resident in atropine, a substanco which I, as in druggist, miry remark is far more satisfactoy to hambllo than a liquid conia, or a highly deliquescent solid, such as hyoseyamine. Dr. Harley finds that its activity is destroyed by fixed caustic alkalics-an observation previously made, as you will remember, by Dr. Curod, who also pointed out tho impoprisety of combining hyoscyamus with a ciastic aikalino solution, such as liquar potasste. The action of an alkali on atopino is not instantancous, in fact, the power of the atropino is unt ajpparently diminished when freshly mised. If, as is probable, the samo observation holds good for hyoscyamus, it allows of that drug being administered with potash, provided the two are mixed at the moment of taking the dose, or perhaps it wonld ve still better to givo them scyaraicly.

## Tho Phenomena of Supersaturation.

For a very long period tle phenomena of supersaturation in snline solutions have perpleved elcmists. Mr. Charles Tomlinson, F. R. S., has been exp crimenting and theorising upon the subject, and has communicated to the Royal Society his conclusions and the grounds upon which thoy are based. Wo have only room to give the conclusions which, if substantiated, are important and interesting to the chemist.

The conclusions arrived at by Mr. Tomlinson are: (1) That a number of hydrated salts from supersaturated solutions and remain so even at luw tomperature simply from thie absence of a mucleus to start the crystallization. (2) That a uncleus is a body that has a stronger adhesion for the salt than for water which holds the salt in solution, a state of things brought about by the absence of chenical purity. (3) That threo or four salts from supersaturated solutions which in couling down deposit a modificd salt or one of a lower degree of lydration than the normal salts. (4) 'That this modified salt is formed first by the deposit, in small quantity, of the anhydrous salt, which entering into solution, forms a dense lower stratum containing less water than the rest of the solution, in which lowor stratum the modified salt is formed. (is) That salts of a low degree of hydration from supersatmated solutions, which on reduction of temperature, or by the action of a nucleus, deposit the excess of salt that held the solutions supersaturated, leaving them merely saturated.

Cumious effect of Thathema.-This: stance has the property of entering the circulation, and producing the most offensive odor to the perspiration of the parties taking it. Dr. Bunsen was compelled to absent himself from socicty for four weeks on this account. This one property will kill it for all practical use in medicine. Its action is similar to zinc and iron on the cconomy, acting as a tonic, and producing, in large doses, severe head. ache.-Drugyists' Circular.

## PUBLISIIERS' NOTLCE.

The Canadiar Pilammaceuticat. Jourval is issuced monthly from the ofice of publi-1 cetion on the Fifitcenth of cecry month. It will aluenys conkein information invaluable to Druyists, Chemists and others intercsted and comncetal with the sule, componding, and dispensing of dineys and malicines. The present number will be seat to crer!! druygist int the Dominion, all of tehom, it is hopal, will shew their apmeciation of the enterprise by givum it substential support. Mcmbers of the Cunuliun Phammacentical Association will receive the paper free as of right.

I'0 Alecertisers this Jummal affers the best and indeed the only medinum of rouching by a single alecrtisement every Drayyist in Canalu. Our rates, published on the first paye, will be fornd low, and will be strictly adhered to in all cases. Adecrtisements in order to secture insertion shoukl be in the publisher's homens nut later than the cod of the mondth precalizus cuch issuc.

The Jomal will be umer the control of the following Committec, welw will be responsible for the due performance of all alecertising contracts:
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Comulian I'hermaceutical Journal, Toronto.

## CANADIAN PHARMACEUTHCAL soclety.

## Paesident,

WM. ELLIOT, Eso.
The reguler ncetinys of the Society take place on the first Walnesdey ceening of cuch month, at the Mechunics' Institute, vhen, ufter the trunsaction of businces, therc is a paper read, or discussion enujuged iu, upon suljects of interest anul caluc to the members.

The Society admats as members, Chemists and Druggists of good standing, and thcir assistunts and apprenticcs, if clected by a mujority rote, and on peyment of the following fees:

> Principals
> $\$ 400$ per Annum Assistants \& Apprentices, 200

> The Jourval is fumished free to all members.

> Partics wishing to join the Socicty may scued their names for proposal to any of the members of the Socicty. A copy of the Sonstitution and By-lauss of the Society will be furnished on application.

HENRY J. ROSE, Sccrctary.

THE CANADIAN

TURONTO, UNT., DEC., 1868.

## THE PROPOSED PHARMAOY BILL.

The frequent ocqurtence of cases of accidental poisoning, and the matuy serious mistakes made by unqualified persons in the dispensing of medicine, render it necessiny that some step, be takion at onco to protect the public safety. Scarcely a week passes without its chronicle of death resulting from the incompetency or carclessuess of those persons, whose business it should be to protect hmman life. Nur can the evil ever be fully told, as only the grossest cases come to light. The so-called complications of disease, or its sudden end fatill termination might, in too many instances, be traced to the pestle and mortar in maskilled hands.
In order to remedy an evil we must first ascertain its canse, and, in this case, it is clearly traceable to that lack of law which permits any man,-no matter how ignorant, or how devoid of experience, to come before the public and by the mere assumption of the title "Chemist and Druggist" to poison all within his reach, by wholessle or retail, as his circmustances permit, or his cupidity tempts. This may be startling, but it is nevertheless tive; and it is equally strange that in other cillings where no risk is incurred in regard to human life, should a mistake occur, and where property only is involved, the most rigid requirements are enforced by law. There is no profession or occupation-if we except that of physician-in which the power of life mad death is su controlled, as in the case of an anothecary.

In European conntrics the most stringent regulations exist as to the dispensingl of medicine. Not ouly must the druggist have long oxperience, but also a therough theoretical knowledge of those branches of science involved in the profession. In Great Britian the recent Pharmacy Act, passed last July, insures adequate qualification by requiring those commencing business to pass a most rigid and thorongh examination before the Pharmaceutical Board. This Act has been found to give general sitisfaction to the public, as well as to the legitimato dnuggist; and taking this fact into account, a committee, appointed by the Canadian Phamaceutical Socicty, have drafted a Bill, based upon that of Great Britain, and which we have the pleasure of presenting to our readers in in supplement to this Joumal.

We give $\pi$ bricf resume of the chief fertures of the Bill:

The Act commences by declaring it un-
lawful for any persons, excopt registered chemists, to keep open shop, or dimpense, or compoma poisons, or assumo the title of "Chemist and Druggist," "Aputhecary," etc. Poisons within tho meaning of the Act, aro defined and emmeraied in a schedule. Thoy must be properly labellerl; those contained in tho first part of schedulo "A" cim only bo sold under certain restrictions and to certain persons; but articles cnumerated in the second part may be sold by rogistered chemists without restriction.
Section 4 relates to the furmation of a socicty for carrying out the purposes of the Act, and relates to persons cligible for membership. These must be actually in busincss on thoir own account; whilo clerks, assistants and apprentices may be onrolled as Associates, and, on passing examination, may be adnitted as members.

Sections 6, 7, 8, 9, 10 and 11 rolate to the incorposation of the Pharmaceutical Society, the firmation of a Council, election of offiters, and other datails connected with the internal working of the society.
The Council are authorized to hold two sittings a ycar for the purpose of granting Certificates of Competency to those about to commenco business. These certificates can only bo obtained by passing examination befure the Cumncil, or a Boarl appointed by them, and when obtained, the candidnte's name is at unce entered on the list of Registered Chemists, by a duly appointed Registrar, and he takes tho title of "Pharmacentical Chemist," which designation is farbidden to all others, except such as are actually in business at the time of the passing of the Act, and who by the payment of two dollars are entitled to registration. Sections $\mathbf{t} 2$ to 17 include particulars of the above.

Section 10 places the subjects for examination at tho supervision and disallowance of the Lientenant Governor, together with. other details relating thereto.

The disponsing of spirits, wines or cordials, on the prescription of a legally authorized medical prantitioner, is provided for in section 23.

Any person transgressing any of the provisions of the Act, shall, for the first offence, incur a penalty of $\$ 20$ with costs, and for every subsequent offence $\$ 50$. No charges can be recovered in Courts of Lam or Equity.

Section 27 reserves the rights of physicians and surgeons, who are not to bo held amenablo to the requirements of the Act. Nor docs the Act interfere with the making or dealing in patent medicines, or with the ordinary business of wholesale dealers. On. the death of a registered chomist the business may be carried on by his executors.

From section 28 it would appear that the names of offenters against tho Act may be orased from the registor, on resolution of the Council of tho Suciety.

Apponded is a list embracing all the principal poisonous substances, to the number of thirty-seven, these, with their compounds, are hold to bo poisons within the meaning of the Act.

Wo hopo tho druggists of Ontario will rive the propused bill a careful perusal. It is of vital importance that a measure of somo destription bo passed, and it is tho interest of fll concorned that the law bo as periect as, possible. Wo shall be happy to leceire the suggostions of our brethren, and solicit an expression of opinion on the subject.

## OANADIAN PHARMAOEUTIOAL SOOIFTY.

The rogular monthly meeting of the Sucioty was hold at the usual plice on Wednesday ovening, 2nd inst., with tho President in the chitir.

Aftor rending and adontion of minutes of $\mid$ last meoting, the following were received as nimbers:

## principars.

Dr. Henderson, Ailsa Craig.
Wim. Fead, Orangerille.
E. H. Parker, Kingaton.
assisfants.
Jno. Gibbard, jumr., Napmec.
Samuol Smith, Mount Forest.
L. Yeomans, Toronto.
W. Nithall, " "
J. Heaks, "
Alb. Cornell, Hawkesville.
Charlos Scott, Clinton.
Johm E. Nevills, New Mamburg.
John S. Lesslic, Orangeville.
John Blogs. Toronto.
R. Whitehend,

Juhn Buchan,
Wm. Mitcholl,
H. Macdonald,
E. Lo Maitro,

Fred. Clarke,
F. Jarrett,
T. Jones,

IK. Miller,
J. Hutty,
"
W. K. Graham, Drampton.

Conmminications wero read from the Secratiry of tho Montreal Chemista' Aesociation, giviug particulars of the Lecture armangments made by that Society, and one from Mr. Lowe, of Amherstlurg, which will be found in another column. The Secretary Wha instructed to mako suitilule rephes.

The Committeo on Legislation presented the draft of a proposed Act of Parliament,
which was read by the president and discussed by the membors.

On motion of Mir. Shaptor, seconded by Mre. Hodgotts, a Committco consisting of the President, Vice-President, Troasurer, Mr. R. W. Elliott, and tho mover, was nupointed to take tho necessery stops to obtain its passago during tho preeent scssion of the Provucial Lo|gishature.

The paper for the evemng bemg called for, Mr. Shapter read ono on Pharmaceutical Ethics, which at its closo reccived a wam vote of thamha, mused by Mr. Hulgotts, and seconded by MIr: Massoy.
Mrecting adjouraced.
The name of Mry. James W. Jabsson, of Now Shasgow, Nura Scutia, was acculentally omitted in the list of nemes 1 roposed at an former meetius.
The attention of members is desired to the fact that the second jeady subscriptions are due.

Back Nembras. - Nus. 1 and 3 are out of print, but there aro still a few of the remaining numbors, which may be had by addressing the publisher, Mr. J. ML. Thout. The price is ton cents per cony.

## Montroal Chemists' Association.

The unaal monthly meeting of this associa|tion was held last evening in the Chemists' Mall, Toupn's Buldugs, MeGall strect, John Kerry, Esq., L'resident, in tho cham: After the usinal routine business, Mr. S. J. Lyman delivered a lecture on "The Chemistry of Odors," which occupied over an hour, and was listened to with masked attention and interest. Tho yualities and naturo of lodors were described and illustrated, with many interesting facts and experinents. The mude of peparing perfumes was detailed. The uses of odur as at givide to tho insect for food, and thus froctifyurs the plant, by conveying the pollen fam flower to flower, were pointed out, as well its a new thenry that the ?crfume of the flower, by its power of absorhing radiant heat, protected the plant from changes of temperature. This wis illustrated by the wonderiel experiment of Tyndal on the velative capacaty of diflerent volors to inflatace rediant heat. 1 The sources of oflors from flowers, amimals fand chemicals, were alluded to. Simules , of linsed oil, whel the lecturer had extracted from linseed, and oil of clo:es from the clove, by means of sulphide oi carbnia, withont pressure or distillation, were cahib. ! ited, and the attention of manufacturers was directed to this wonderital solvent, which bids fair to supersede the hydranlic press in ! preparing oil from secds. The lecture w:s of meat interest to the practical clemist, as vicll as to the student of natural history. At the conclusion a vote of thanks was tendered to Mr. Lyman, and his lecture hoghly commended in addresses by the Rev. Dr. DeSola, Dr. Hingsten, the Chaiman, Mr Mercier, and Mr: Garducr. As Mr. Lyman has been requested to repeat las lecture in public for tho henefit of the Genemi Hospital, we forbear giving farther detais Montreal paper.

