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On the Vosicating Action of Oantharidate of Potassa*.
BI E. DELPLCH.

The author, after referring to the ordinary Ilistering cerite of cantharides of the Cotex, and criticising its resinous and fatty ingredients and its uncertainty, suggests that we should look to camtharidin, and says that a mixture of elastic collodion 400 parts, and cantharidin one part, spread on adhesive plaster, possesses a very energetic vesicating power.

The volatility of cautharidin, even at ordinary tempratures, the wuthor alleges as is reason for seeling some means for fixing this principle, and having found the memoit of Messrs. Mrassing and Dragendorti in :a German journal, deems the views therein contained afford the means sought.

These same anthors consider cantharidin (ClOHOOi) as an anlyydride, which in its combinations with bases fixes two equivalents of water, and which makes the furnula of calltharidic acid $\mathrm{ClOLI} O O^{4}, 2 \mathrm{HO}$. This acid dues not exist in free state, but is described as forming compounds with the metals.

The cantharidates of potassa soda, and ammonia are soluble in water, whilst the cantharidates, of the common netals are insoluble, and may be olstained by duuble recomposition.

Cantharidic acid is considercel bi-basic. Solutions of the allaline cantharidates, treated with acetic acid, precipitate, not cantlaridic acid, but its anhylride cantharidin. This form of cantharidin is more suluble than the ordinary, due probably to its pulveruient state. The author has not directed his researches to the constitution of this acid, nor Jas he examined the theory of Messrs. Massing and Dragendorf, which he thinks is not supported by sufficient evidence.

Some particles of cantharidate of putassa placed on the arm caused vesicntion in a rapid manner, without the intervention of a solvent. it morsel of filtering paper moistened with a cold watery solution of cantharidate of potisssa has, sifter drying, cansed it vesication perfectly defined. This puper after fifteen days had lost none of its cnergy, from which the author infers that it is perfectly fixed and stable. It is also as vesicint is cantharidin. Three blisters were prepared, and applied simultancously; one dry, the second moistened with vines;ar, and the threl with water. The first took seven louns, the other two five.
Cantharidates are prepared by the direct action of the alkali on cantharidin in the presence of water, and by the acid of heat. The solution is evaporated and crystallized. It presents the form of fine scales. The ammonia salt loses its base at $212^{\circ} \mathrm{F}$; it is acid to litmus. The cantharidate of potassa, on the contrary; is very; stalje, and hais an alkaline reaction with jituus. The sodia salt has the same characters.

The author has ioumi another jrucess for the preparation of the potassa s.at. Two grammes of cantharidin are dissolved in 150 grammes of alcolool. Then add $\mathrm{x}-\mathrm{6}$ gramme of caustic potassa dissolved in a very letele water, and mix then, when the whole hecomes a soft crystaline mass, from which the alcohol is separated by pressure.
-f゙rom Jour. de Clicun. Mch. in .im. Jeur. Ilanr.

The comprosition of the putassat salt is, CiOHOS, KO $1 \mathrm{HO}+\mathrm{HIO}$.
95 parts of cantharidin giyes 163 parts of canthanidate of potassat. Boiling witer dissolves 8.87 per cent.; cold water, $4 \cdot 13$; boilms alcohol 0.92 ; cold alcuhol 0.03 per cent. It is also insoluble in ether and chloroform.
The author proposes the following formula for a blistering tissue, after numerons experiments:
Take of Gelatin....................... 30 graias.
Water
Alahol . 150
Alcohol.......................150
Cantharidate of lootassa, 6
Glycerine as sulficient quantity.
This lipuid is spread uniformly with a brush in gutt.a perchat in thin sheets, s., th..t each sypurte of four inches will wontain whe centigramac (about unte-se enth of a gain) of the cantlaridate of putassa. The stiensth mily be savied at will.

Note on Cod-Liver Uil andother Prulacts frum Portsmouth, N. H.*

BY w. photron, Jh.
Cod-liver oil as a remedial aront contimues to retam its value in the opmion of the medical profession, and any information in regard to it is interesting to pharmaceutists and physicians. Having recently lad occasion to cunverse wath Mr. T. E. U. Marrm, engaged in its manufacture umder circumastances favorable to its carcinl production, we took occasion to elicit some facts, and sinee to obtan Sume of the by-protnets whels maty become useful in medtine and agraculture, whach cunsist of the pulveralent oty mitter, constituting chaefly the sohd tissucs of the condlivers, in the form left by the press, :mel of the emulsive aytueous luyide sepratated from the same alung wath the on by pressure, and which retains all the matters sulnble water that the livers cuntain.
The first condition necessary to the production of cod-liver onl in its mailtered condition is a sufficient supply of the livers in a fresh state. The position of the harbor of $P^{2}$ ortsmonth, N. H., at the month of the Piscat:iqua River, in relationtes the occun, is so contvenient, and never freezes over, that it is well fitted for the fishing traile. There is a lurge fleet of fishing vessels here, ant many meno matie the harbur it resurt to got bait and sell their tish. The vessels run ithont tharty miles for fish, startine as carly as une o'clock, A. AI., so as to reach the fishing grounds by divlight. Each vessel carries five small boats or duries, and eleren ur twelvemen, whogas out, two in each dury, and set therr trall lines, which are strung with baited lonoks about a yard apart. One man mows the boat. as fist as he can, while the other "dias ont" the line from the tul)s wherein it lays coiled, With its thousamd hooks, each haiked with a piece of fresh liciting. When the trall is set it lays along the hottom of the sea like the Athintic telegraph cable, a mile long, with small amchors at cach cnd and huoys at ineervals. As soon is the trall is all down, the men row back tos the first buoy, whel they find by means of a small thace attiached to an crer restless staff uphekd by the buny, and Degin the task of "hataling in ;" and as it is

- Froin the Annerimin Journal of Fharmary:
dawn up the fisk are tahen oft and killed, and b; the time the list buoy is reached the boat is usually loaded with noble codtish. Signal is now made to the schnoner, which is hovering about the five boats as at hen abont chickens. The boats are unladen alongside of the vespel, one by one, amd they steer away for home, to sell tho fish and bait the Joonis for next diay. It is in this way that the supply of crude material is obtained. In reply to our query how they made their cod-liver oil, Mr. Martin says: "It can bo told in a few words. First we get tho livers when they are new and sweet, and subject them to at carefully gradiated amomet of steam heat, using only the oil-producing lecalthy lisurs, catefully washed and dramed hofore theur tissues are broken, so thast none of the shme from the stomath or intestmes oues into the leettle to make the oil taste or smell hadly, as it certainly will if that precuntion is not ubservel. The livers are now subjected to a steam heat which inptures the oil cells, and canses the oil to rise to the surface, whas it is shimamed off. The residuc is then put in it powerful press, under strong pressure, and allowed to remain twelve hours, by which the mixed oily and watery parts are mainly separated. Power is astin applied, and more oil is obtained. The pulpy matter is then taken out almust dry. There is a yet liner pulpy matter, which oozes through the cloth of the press at the bottom amd sides."
The practical aletails of "remering" the oil, is it is called, imsulsing the proper " comhing'" of the livers, require some skill and experience, so as to scparate it completely and yet not oxidize or expuse it umecessarily, so as to induce acridity or rancidity. That the wil shomld keep well it must be entirely freed from watery particles; tu be but moderately heated, and the process shunld he executed promptly. Col-liver ail rapidly absorbs oxygion frum the air if expusul, and always should perencised in tight vesscls immediately after its preparation. Messrs. Marvin Bros, and Buatlett boutle all the oil they make, and thus secure it from change. A stmple of this vil received with the specimens was found $t_{1}$, be sweet, and free from acridity or rancidity, with the odor and taste proper to this cill.
The julpy matter left in the press cloth before allided to, as we received it, was of a suft cheesey consistence, of a yellowish-salmon color, and jossessing the vilun of good codliver vil; luat on keeping it with expusure to the air a few lays, it acyuites a mak, rancid odor of old cod-liver oil, becomes much darker in colur, and contracts errcatlyfifon loss of moisture. It is strongly nitrogenous, and when distilled with caustic potassanand cluride of ammoninm it yiclds propylamin among other products. So far its only use has been for agricultural parposes, as a mamure.

The watery liquid pressed from the livers is presumed to bu the material mised in l'aris to make the extract of cod-liver pills, of which some notice has been presented in the Jourmals. We lad rot time to examine this before it spuiled, un means having loeen talien to preserve it. It was our intention to examine it for iodine salts ami for pronylamin. If there be any merit in cod-liver oil due to iodine or bromine, it certainly ought to be fomm in this liquad, -yet it may be questioned whether these asents have anything to do with the therapentic value of this popular remedy.

Test for tha Purity of Olive Oil.
bi mb. haitus c. havglies.
In the numerons experiments wo havo mate to ascertain the purity of olive oil, we havo yet foumd no test giving better indications than that of Hanchecome. With our experience of this we have adopted a process which will dotermine, in is positive manner, the presence of seed oils, cotton-seed oil in particular, in any sample of olive oil. The test employed is a mixture of three parts of puro nitric acid, forty degrees, and one part of water. The operation is performed in a test tube or vial : three grammes of the oil to be tested are mixed with one gramme of the test liguid, and the musture is heated on a water-biath. If the oil be pure, the liguid becomes clearer, and takes a yellow colour, like that of puritied olive oil ; but if adulterated the trausparency will be the same, but the colour red; witir five per cent. adnlteration the reddish color is characteristic, and with an adulteration amomims to ten per cent. it is decisive. The process occupics but liftecn or twenty minutes, and the coloration of the oil lasts for several clays.-Jounal de Phurm et de Chimic.

## The Ifanufacture of Sugar of Lead.

In a reesatly published German book, entitled "The Dry Distillation of Wood," Mr. Edward Assmuss, among others, treats of the question, which of the varivus methods for the mamufacture of sugar of lead is most adrantageons 1 Drugrists make a distinction between brown and white acetate of lead. For the preparation of the first, which is not much in demand, only rectified acetic acid is employed, while for the white product a perfectly pure acid is recquired. Both kinds are prepared, either by saturating the acid with litharge, or by treating granulated lead with acid. Among them Mr. Assmuss considers the use of oxide of lead, or litharge, as more advantageons than that of metalic lead, for altheugh the latter may be less expensive than the jitharge, and although a concentrated solution is obtained at once, which will not require any ceaporition, it is trae, on the other hand, that by this plan the lend must first be impregnated with acctic acid and then exposed to the air, so that oxide of lead may be formed, which, in arder to proluce a solution of acectite of lead, must first be dissolved by the acid. In this opemtion, which is to be repeated several times, a considerable ammant of acid is lost hy volatihzation. This loss is move imporhint, becamse if an equally concentrated solation is to be obtained, a strons acetic acid must be employed. In this case, the manufacturer would, on the one hand, gain by the chempess of the metallic lead, is compared with the oxide of lead, but, on the ocher hame, he wonld lose domble or trijie the sain hy the luss of acetic achd.
In lise preparation of white sugar of lead from lithage, three methods are to be disthaguished: 1 , that with steam; $\boldsymbol{2}$, the one by durect fire; and 3 , the one by acetic acid yapors. In the first, a wooden tub, limed inside with shects of lead, is flled half full of acetic acid of 1.057 apecific weight. An c.fund weight of well ground litharge is then sturced in, and finally stemm is turned om. After having been hested in this mamer for
a while, the liquid ceases to yich an acid reaction; ucetic acid is then added till blue litmus paper is slightity turned red; when it is again turned blue, fresh acid is poured in, until all the litharge is transformed into a neutial salt, whereupon tha stem is cut off. 'Tho liquid is now filtered through felt into ovaporating pans, or decanted after soveral hours rest.
In using direct fire, leaden pans may bo omployed, which should rest upon plates of cast inm of at least three-quarters of an inch in thickness; but copper pans aro preferablo, on the botton and borders of which leaden stripes aro fastened, so as to afford protection against the action of the acid. Both the evapotating and boiling pans are placed in the stemm furnace, the latter being heated by the fire gases passing over the bottom of the evaporating pan. Into the former, equal parts of litharge and acetic acid are pat, and agitated for some time with a stirrer in the from of a slovel. When the liquid is nentralized, it is drawn of by a stop-cock moto the evaporating pan (first pausing through a sman filter,) mitil the pan is threequarters full, when tho boiling kettle is filled with fresh portions of acid and litharge.
In using acetic acid vapors, the acid being heated in a particular vessel, its vapors are conducted into chambers containing the oxido of lead. The generating vessel should consist of an upright standing cylinder of sufticiently thick shected-comper, holding about ono thousand pounds of liquid. A bent coppry pipe leads from the upher part into a wouion barrel, three fect in diameter and tive fect high, linedinside with shect lead. The pipe should enter at the top and come down to the bottom. The barrel is provided inside with four finely perforated bottoms of lead, of at most oac-quarter of an inch thickness, from each of which, alternately at the right and left, should ascend a lead pipe of from two to three inches high and one and a half inch dimmeter, open at both ends. There should be thrce such barrels for one gencrator. Upon each bottom is then to be placed a layer of litharge of two or three inches thickness, after having previously been covered with a loose linen cloth. When the covers have been put on, the bamels are comnected with each other ly means of pipes that lead from the upper part of one to the lower part of the succecting one, the thind barrel being in comnection with the vessel of condensation. In being evolved from the generator, the said vajors enter from below into the first barel, aseend through its partitions, amd pass frum the top, over ints the second barrel, \&c. On their way through the many liayers of litharese, they tal: up lead, neutrelizing themselves fimally, till forming a perfectly basic solution. When the liquid comdensed in the lower part of the barrels has licen concentrated so far as to yield crystals in cooling, it is cravin ofl into the cralurating vessel.
In regarid to the merit of the theec plans, the alr:amtage is decidedy to be given to the one last described, the employment of the steam being also superiur to that of direct fire. The omly disadrantage of the last method is that its product is not as white is that obtained by the employment of steam, which is to be accounted for from the fact that in evaporating over free fire the fomation of bxown carbonized oxide of lead camnot be preventel, which of course will impart to the liguid is well as to the salt it
ycllow appearance. As to the use of steam, tho advantages are, that a proportionately larger quantity of leys may be evaporated by means of a small steam generator, which besides may yield steam for many other purposes. With respect to tho manufacture of sugar of lead by means of acetic acid rapors, it is still more profitable from the fact that evaporation can be dispensed with, and, what is of especial importance, that tho locality will always bo freo from lead vapors, which is not the case in the other methods. In fine, it is not necessary that a perfectly pure acetic acid bo employed, as orily the vapors come in contact with the oxide of lead.
Whether it would bo desirable to the manufacturer to prepare his own oxido of I. 1 , or to buy it in the form of litharge, it is to bo considered that the litharge is generally only five per cent. higher in price than metallic lead, although it may contain so many impurities that only cighty-eight out of one hundred pounds are token up by the acid. From this it appears to bo more profitable to buy the metallic lead, and convert it into oxide. Where, however, litharge can be oktained at the same price as metalitic lead, or even cheaper, it is ovidently preferablo, as tho conversion of the latter into an oxide cannot be accomplished without expenditure of time and fuel.-Journal of App. Chem.

## Mineral Water Syrups.

Mr. G. M. Elambright contributes the following formula to the Chicago Pharmacist: siditle syrop.
Take of White sugar, 14 lbs. (com.) Water, 1 Gal.
Dissolve with the aid of a gentle heat, strain, and when cold add the whites of two esps, previously rubbed with a portion of the syrup, and mix thoroughly by agitation. [The egy albumen is added to produce froth.] inmon simur.
Take of Oil of lemon, 2 i drops.
Citric acid, 10 drachms.
Simple syrup, one gal.
Inub the oil of lemon with the acid, ath a small portion of syrup, and mis.

> orange simur.

Take of Oil of orange, 30 drops.
Tartaric acid, 4 drachims.
Simple syrup one gallon.
Mix as above.
vanilla syher.
Thake of FId. ext. vanilla, 1 ounce. Citric acid,
Simple syrup, 1 gal.
Rub the acid with a portion of syrup, ald Ext. vanilla, and mix.
gngen sumur.
Take of Tinct. ginger, 3 ounces.
White sugar, ' pounds (com.)
Wrater $\frac{1}{2}$ gal.
Ifent the sugar and water until the sugar is dissolved, raise to tho boiling point, then gradually ald tho Tiact. ginger, stirrens briskly after cach addition.
sybup sarsapamilia.

## Take of Simple syrup, 1 gal.

Comp. syr. sarsay, cul liu.
Powd. ext. heorice, 1 ounce.
Oal sassafias.
Oll wintergreen, an, $1: 5$ dro s.
Uil anise,
10

Rub the vils with powdered licorice, ahd a portion of syrup, rub suouthly, and mix the whole together hy agitation.

## omgeat ssmup.

Take of Cream syrup, $\frac{1}{2}$ pint.
Vanilla syrub, 1 pint. Simple syrup, $\frac{1}{2}$
Oil bitter almonds, 5 drops.
Mix.
corfee symur.
Thake of Ground roasted coffee, 16 ounces. Boiling water, 2 pints.
Sugar, 4 pounds (com.)
Infuse the coffice in the water until cold, strain, add the sugar, and make at syrup.

## sthawberny syrup.

Take of Fresh ripe strawbervics 10 quarts. Whito sugar, 24 pounds. Write:; + gal.
Spread a portion of the sugar over the fruit, in layers, let it stand four or five hours, express the juice, strain, washing out the mare with water; add remainder of sugar and water, raise to the boiling point, and strain.

SyRUP OF EASPBERIE.
Proceed as for Strawberry syrup.
PINE-APILE SYRUP.
Take of ripe pinc-apples, No. 2 or 3.
White sugar, 16 pounds.
Water, q. s.
Cut the fruit in thin slices, spread sugar. over them, let stand 12 hours. Pour off juice and sugar, and set aside, Express the fruit, adding a little water. Then take water, q. s., to make, with the above liguid (juice and sugar), 1 gal. Form a syrup with the sugar and water, ant boil the pieces of the fruit already expressed. When the syrup is nearly completed add the fluid and boil a few minutes, to clarify. Remove scumand strain. These three fruit syrups should be bottled when wamn, corked tightly, and when wanted for use add equal parts of the fruit syrup and simple syrup. They will keep a year withont change.

## nectill sypur.

Take of Vamilla syrup, opints.
Pineapple " 1 "
Strawberry or Raspberry 2 pints.
Mix.

CREAM SYRUP.
Take of Fresh cream, $\frac{1}{i}$ pint.
Powd. sugar, 1 pound.
Mix, by shaking. Kecp in a cool place. The addition of one half drachm dican suda to this syrup will prevent rapid change.

Lime Juice.
The Chemist and Drugyist gives the following particulars in regard to the lime tree, and the collection of the juice of the funt, as carricd on at Montserrat :-

The lime tree, a native of Western Africa, scems carly to hase found a cungenial habitat in Montserrat. In the antobiography of a negro, who obtained his freedom about the year 1750 , he mentions his first profitable adventure, as consisting in trading in this fruit to the neighbouring islands. The tree, however, has never been made an object of extended and systematic cultivation till within the last twenty years. Its form is that of
a lamge Lanistina bush, spreating in s.ant instances uver tha gromal for twents to thaty feet; its fuliago is like that of the myrthe, but with leares of brighter green. It is armed with sharp thorns, making it often difficult to gather the fruat from the meterion of the tree. The blussom is smathe: than that of the orange, with a powerfal fagrance. The crop is principally gathered in the months commencins with July; and ending with February, ine trees often displaying at the same time the blosson and the ripe lanes, "ith the green fruit in all its intermediate staces of growth.
The plantations ranging aloas the slare for about two miles, cxtending in uno direction to :llont $1,5(0)$ fcet up the momitain steeps, with sprace between the trees to almit of the pastarage of cattle anome them.
Durins tho season of crop, the fields ate traversed by a large company of youms negroes, with a woman superintcnding them, why gather the ripe froit into wide open baskets. Whan these are all tilled, they are taken direct to the presses at the bilinds houses, and a large company of "little peri,le," as they are termed proceeding with quick step in long Indian file, with the bright yellow fruit on theirheads contrasting with their dusky fygures, now lost among the lime trees, now cmerging into the open path, presents to the stranser a carious and novel spectacle mique in its kind.

So the frint, on it reaching the works, is passed through a machine driven by the mountain streasn, which cuts it into slices, when it is transforred to the presses fur the cxpression of juice, which is then evapurated to about the consistency of honey for the manufacture of citric acid.

When, however, it as to bo shipped as fresh juice, the fruit is first carefuly soated, and the maripe or oves-ripe limes rejected, and when transfered to the presses, only two-thixds of the juice is pressed out fur this purpose ; it boins found that the last portion: resulting from extreme pressure is of diminished strength and quality. This puer juice, being run from the presses at ance into casks, is immediately secured from the air, so as not to be opened till its arrival in England.

The lime tree requires a period of from seven to ten years from the time it is planted before it makes any considerable retum in fruit.

Montserat, like the adjoining islamds, is oceasionly visited by carthquakes. In that of 1843 , vecuring in dry weatlar, the large yuantity of ruat.s and Lundicis detached from the hountain summits cascluied them in stech an atmosphere of dast, that the captain of the intercolonin? mail steamer, passing at the time. reported that the island hash. in the convulsion, sumk mader the ocean.

## Anerican Quercitron and Sumac.

Alcx. C. Macrea, Anglo-Americin Pruluce
Bruker at Liverpuol, Dagland, sent wat circalars last fall, showing the talue of these two articles of cunaucece. Of sumac he states that inverpool frepuently in:?urts from Sicily 6, 1 :' lags in :a day, ama cxurts to America in one day 1,200 bage, and then goes on to exphain the uater fathacy of our permitting sich a foolish wori. Ife says thet from actual experiments, the Americm
samate contana fiom 10 toso gur cont mow tuman than amy wher, and yet "O inupert the pendact of wher comatrics. Ma. Materea asserts that wo should be reapang the benche of selling thons:anls of toms of this article, at $\$ 1 \mathrm{IJ}$ per ton, insted of imponting the same, as it grows m steat quantitios in Maryland, Virginia, and other States. Of quercitron (ground blach woh hark), lie siys.
"Oar clici supply of quere:tron has, user since its general introduction fifty geass ags, 10.ached us from Phatadelphat and Baltanure,
 Philaticliphith hat comes in hogsteads, ata is well humw, atad ixom the f:ett that in Philadelphia at is bramaded 'urst sont, : and must consiupuently be up to the matk' in puality, gives a reputation to that purt, whoch no other a ivals. Baltimore cones in boan, and most of at is intrins:cally the same as that wheh comes from lhiluclulphia, lnat from the fact that it $1: 3$ not so catiefully gromind or pached, fetcles, as whll be seen by the quatiatoms, a mach loner price : 1st phatatelphat, in haysheods, sos) per ton. 1st and end Baltanore, in bags, SjJ to Sio jer tun."
"As this article abounds in untohl guantities in MEaryland, Pennsylvania, Vinginia, cte., and as the consumption in Elicope is enormous, it may be well to call atteation to a 'new feature,' which will give more genemal employment, and benefit everyboly. The 'new inature' is to send the bark 'paiverized' like flour or florine. 'this attained, port of shipment or place of prodaction mates no difference, whereas the value increares to sto to ssi per tm. Imeled, in the first instanen, I myself made \$90 pee to:a, and fully believe in perpetaity this will be nearer value. Whereverbark or sumac mills abound, their mesent machinery can readily be add; justed to do tho work of fine 'grimding; when nothing remains but its being packed in hogsheads lined with paper, and slipy ed to England from any contignous port. The consumption will be langely increased."Scicutific Americun.

ApplicaiicuofPicric AcidforImparting to Ivory Bone, and Horn a Beautiful Red Gelor.

According to C. Mene the following recipe will impart the reguired color. lake 4 gras. of picric acid, and disolve in $2=0$ grma. of boiling water; add, after cooling, 8 gmas. of liquid ammonia. Dissolve also e' ghas. of cyystallized fuclasine (masentia) in 45 grus.
 and next add 50 grass of ambunial. As suon as the red color of the magentir solution hats disnjpeared, the two sulutions are mixed together, making a bulk of liquid amounting to abont hali liter, which is a sufficient quantity fur dycing from fur to six sheep's skins. Ivory and bone slonal be placed in very weak nitric or hydrochloric acids first, before being immersed in the manonical liquid; wood camot be dyed ly this liquid, unless it has leen previously painted oucr with paste made frum four. When, to the ammonical liguid, some gelatin sulutiva is added, it may serve as a red mla whinh dues nout aitheck steel pens. By yarying the proprations of the magenta and picric acd, the tints chtaincd may be varied from ablush red to a bright orange red. The desired colors do not appear antil the ammonis las evaporated.-Scicntifie American.

# ONTAREG GOLLEGE ON PMARMEAOY 

Pheshmist, - - - Wm. ELLIOT, EsQ.

The regutur mectings of the College talic place on the Fust Fmpay ceening of cach month, at the Mfechanics' rustitute, when, after the transection of insiness, there is a paper recel, or discussion engayed in, upon suljects of interest wal rulue to the members.
The College cadmits as members, Cliemists amd Drugyistsof good standing, and flucirassistants cula apprentices, at associates, on payment of the following fees:
Principals, . . - . - $\$ 400$ per Annum Assistants \& Apprentices, 200 "

The Journal is fumished fuee to all members.
Parlies wishing to join the College ma! send their names for proposal to any of the members of the Collcye. A copy of the Constitution and By-lents of the College vill be furnished on (ep)licution.

MENRY J. ROSE, Sccretary.

## THE CANADIAN <br> 

E. B. ShUTTLEWORTH, EDITUR.

TORONTO, ONI., JULY, 1870.
Correspondence and general communica. tions, of a character suited to che ohjects of this Jounsin, are invited, and will always bo welcome. The writer's mame should accompany his communication, hut not necessanily for publication.
Subscriptions will not be acknowledged by letter; as our senting the pmier may be taken as sullicient evidence of the receipt of the money.
All commmications commefted with the paper to be addressed, prost-paid,
"Empon Casamas Pmanacheticad Jouncia 'To:0:ro."

## REVISION OF THE CONSTITUTION AND BY-IAWS.

In another column will be found the Constitution and By-Laws, as amentied by the Committec of Revision, and adopted by the Society. The numerous alterations made by the Committee appointed by the Legislature to consider the Pharmacy Act, necessitated correspondings changes in the Constitution of the Society. New officers were required, the number of the Council was increased, and new and increased powers were granted. Having thus ensured the requisite conformity, we hope in $n$ few months to be able to inform our readers of the oflicial cecognition, by the Govermment, of the Ontario College of Pharmacy.

## THE ONTARIO COLLEGE OF PHARMAOY.

In order to conform with the requirements of the coming Pharmacy Act, the name of the Suciety has been changed to "the Ontario College of Phamacy." During the passage of
the Act through Committee, it was suggested by members, that as the Society would ultimately become an educational body, the term "College" would be most appropriate, and more in kooping with the designation of other bodies of like purpose-the Royal College of Dental Surgeons, for instance. The title is somowhat pretentious, but wo trust, in time it will not be undeserved.

In the present number will bo found a full list of the Members of the Society, up to July 1st, of tho prosent year. If any removals havo taken place, of which wo have not been apprised, members will oblige both the Secretary and ourselves, by sending the necessary corrections at onco.

## ANNUAL REPORT, 1870.

In reviewng the operations of the past year, the Council camot forbear expressing a feeling of pleasure, imasmuch as the task before them promises much which invites congratulation, and but little calling either for censure, or regret. The progress of the Socicty has been steadily onward; during the last twelvo months, fifty-six new members have been, clected; making tho total membership amount to three hundred and twenty-eight This number includes, with but very few exceptions, all the qualificd druggists in Ontario. With such a strong representation, our Pharmaceutical interests, whether political or otherwise, should not suffer ; and while thus united in purpose, and effort, the Society should be able to perform all the work-however arduous-which has been assigued to it. In this connection, your Council cannot help adverting to the harmony which has, herctofore, characterised the workings of the Society; to this co-operation and good feeling on the part of members, our success is, mainly to bo attributed, and on this the future alike depends.

## financial statement

For the year ending June 30th, 1870.
Reccipts.
Balance on hand July 1st $\$ 34458$
Members' subscriptions 68050

Expenditure.
\$1,025 08
Appropriation to Jourval........... $\$ 57500$
Chemistry Class.
921
Printing,Circulars, icc.
810
Postage
735
Discount on Silver.

Balance on haad
$\$ 60030$
42478
$\$ 1,02508$
Andited and found crorect.

## W. Brydon.

E. B. Shuttheworth

The Musoum and Library have had several valuablo additions, amongst which may bo noted an interesting case of opinm products, from tho Messes. Macfarlane, of Edinburgh.
The most important business brought before tho Council, this year, has been in regard to Pharmacentical Legislation. The Pharmacy Act, which at the timo of our taking oflice, had already obtaincd a first reading, was on the 25 th of November last, again introduced by Dr. McGill, and obtained a second reading. $A$ select Committo of the Houso, composed of FIon. Mr. Wood, Messrs. Boulter, Baxter, Rykert, Pardee and Matchett, wrs appointed to consider the provisions of the Act. A Committce from the Society, composed of Messes. W. Elliott, Dunspaugh, Miller, R. W. Elliot, Shapter and Shuttleworth, werc in attendence to offer any explanations which might be required. The result was that a number of alterations and additions wero made. These were embodied in an amended bill which, we regret to say, despite tho best indeavours of all concerned, failed in obtaining a final reading, owing to important govermmentmeasures which demanded the only remaining time at the disposal of the Houso before the termination of the somewhat hastily closed session. Since that time nothing has, of course, been done; it now remains for our successors to bring the matter to an issue, and to this their attention should be directed at as early a period as possible, so that the Bill be brought before the assembly before the press of business becomes great.
Towards the close of the year, a Chenistry class was organized and continued through the winter, under the direction of Mr. Shuttlewortl; some cight students attended, with more or less regularity. Owing to the want of apparatus, and the interest consequent on experiments, this number was, doubtless, much smaller than it would have been, but those who did attend gave amplo evidence of the solidity of their knowledge of the principles of chemical philosophy, to the impart which the main efforts of the teacher were directed. The Council have made no provision for the coming term, but would recommend that the Society secure a suitable suite of rooms, one of which could be litted up as a laboratory for the use of students.

The Constitution and ByLaws, have, during the year, suffered no material change, but a Committee has been appointed tomake the neccssary alterations respecting conformity with the Pharmacy Act. These changes will considerbly modify tho bisis upon which the Socicty was organized, but as the report of the Committeo will not be presented until our term of office expires we do n:ot deem it proper to particularize.

Before closing this report, your Conncil cannot help callirg attention to the bad attendenco usual at ordinary meetings, and to the lack of interost mown by mombers in presenting papers tos the Socicty, and would suggest that a Comnuittee be appointed whoso buminess it shall bo to secure the reading of at least, one paper, each evening of meeting.

All of which is resprectfully aubnitted.

## AHIUAL GENERAT MEETING.

The third Annual Moeting of the Society was held on Friduy ovening, July 8th, in the locture room of the Mechanics' Iustitute. The Prëtident being absent in Europe, Hugh Miller, Eaq., Vice-President occupied the chair, Mr. Hode etts ofliciated as Socretary.

The minutem of he former meeting were read and confirmed. Three applications for memberwhip were roceived, and the necemary condition having been complied with, the following gentlemon were proposed and elected.
R. H. Nelles. $\qquad$ St. Thomas.
R. S. Strong... $\qquad$ Galt.
W. F. Tibbets ............Port Dover.

A communication was received from W. T. Barker, of Trenton, in regard to a correction of the lint of members elected at the May meeting. The names D. V. Bogart, M. D., and Alfred White, Trenton, as reported in the minutes, should read D. P. Bogart. Carleton. Placs, and Archibald White, Carleton Place.
As the Constitution requires the appointment of two auditors to examine the accounts of the Society, it was moved by R. W. Elliott, and seconded by Mr. Dillworth, "that Mr. Shuttieworth act as auditor, on behalf of the meeting," Mr. W. Brydon was appointed by the Chairman.

The Report was received and cdopted aird ordered to be printed in the next number of the journal.

The next business was the election of officers for the coming term. The ballut was procoeded with, Mesars. Dillworth and Bredin acting as scrutineers.

The following gentlemen were declared elected :-
Mr. Willian Elliot, President.
"Hugh Miller, Vice-President.
"s W. H. Dunapaugh, Treasurer.
" II. J. Rome, Secretary.
"W. Brydon, Cor. Sceretary.
"E. B. Shuttleworth, Librarian. cousiois.
Mr. J. T. Shapter.
"1 R. W. Ellint.
"G George Hodgetts.
" W. S. Robinson.
" W. Minnter.
"G J. I. Howirth.
" J. L. Margach.
" C. 玉. Hooper.

The Committee appointed for the revision of the Constitution and By-Luws, brought in their report. The business of this Committeo was to make such alterations as were necessary to conformity with the Pharmacy Act, as reported by the Committee of the Provincial Legislature. After a lentthy discussion on the soveral clanses of the amended articles, it was moved by Mr. Elliot, seconded by Mr. Dilworth,-
"That the Report of tho Committeo be received and aciopted, and that the anmendments proposed do now become part and parcel of the Constitytion aud iby-Laws of the Ontario College of Pharmacy."-Carried:
There being no further buainess, the meating adjoumed.

## Gzonae Hodaetrs,

Secretary pro tem.

## ODNSTITUTION AND BY-LAWS OF THE ONTARIO OOLLEGE OF PHARMAOY.

As reviscal aul caloptal at the Ananal General Ifccliny, July 1870.
article 1.
That the name of the association be the Ontariv College of Pharmany.

## Ahticle in.

That all persons in business in Canada on their own account, and any person who at the time of the passing of tho Pharmacy Act of Ontario, has surved an apprenticeship of three years, and has acted as a druggist's assistant for one year, shall upon payment of a fee of four dollars to the Ireasurer of the said Society, be entitled to be enroiled as a member of the anid College, and every person so engaged as a clerk, assistant or apprentico, on payment of a fee of two dollars, shall be entitled to be enrolled ns an associate of the said College.
article mit.
Any ansociate may, upon pasxing such an examination as may be prescribod ly the Council, be admitted and enrolled as $a$ meniber of the said College.

## article iv.

Any person being registered as a member, or associate of the College shall be eatitled to receive a certificate in the.form in Schedule A, or to the like effect, under the corporate seal of the said College, and signed by the Registrar, and ahail be ontitled to reccive a similar certificate annually upon payment of the said fee of four dollora.

## ARticle v .

Honorary members shall be perwons of high atanding, who are eminent for their cientific attainments.
abricle vi.
Life members shall ho parsons who make donations of fonty domitrs, ia money, oc specimens for the musem (the later to be valued by competent pursons, or who my be elected as such at the genera' meeting of the College, for important services peesinmed, and after due notice has been given, as i: the care of alteration in the laws.

## Alticles vit.

Every person desirous of being examined, touching his qualiceations to become a member of the Colloge, and to a:t as a Chanist and Drageist, shall at least two wecks before tho sittings of the Council, pay into the hauds of the Registriar the required fees, together wilh a notice of his intentio: to present simseli for such examination.

## akticle vili.

Any person having passed anth examination to the satisfection of the major:ty of the examiners, shall bocome a member of the College. Such exaninations may bo conducted by the asembers of the Council, or perzons appointed by them.

## Anricaeix.

Every ordinary menber shall be considered as belonging to the College, and as such, liable to the payment of am amanal subserip. tion of four dollata, payab!e on the first day of May in cach yenr, until he has either forfeited his claim, or has signified to the College, in wating, his desire to witheraw, when his name shan be erased from the list of members.

## abticle $x$.

No person shall bo entitled to any of the privileges of a Pharmaceutical Chemist, or member of the College, who is in default in respect to any fees payable by him by vintue of this Constitation.

## AITICLE XI.

Upon a resolation of the Comncil of the said College being passed decluring that amy person in consequence of his conviction for any offence or offences astainst tha Pharmacy Act is, in the opinion of the Canacil, unfition be on the register, the Lieut.-Gov.in Council may direct that the name of such person shall beerised from such register, and it slant be the duty of the Royistrar to crase the same accordingly.

> Article xif.

The officers of the College shall consist of a President, Vice-President, Registrar, Corresponding Scerctiry, Treanarer and Librarian, who shall be elected by ballot, on the first Friday in July in every second year and the persons qualified to rote at such clection, shall be such persons as aro members of the College ; the registrar to act as Retuming officer.

ARTICLE; IIIT.
Tho Presidont shall take the chair at all meatings of the College at which he is present, and shall regulato and keep order in the procecdings. It shall likewiso be his duty to state and put questions according to the sense amd intention of the meeting, and to carry into effect tho regulations of the College.

## Articer siv.

In the absence of the President, it shall bo the duty of tho Vice-Presilent to preside at the meeting, and regralate the proceedings; but in the case of the absonce of both President and Vice-President, the members present may elect any one of their number to take the chair at that meeting.

## Article $x v$.

The Treasurer shall tako chargo of all moneys belonging to the Socicty, and when the funds amount to $\$ 50$, shan deposit the same in ono of the chartered banks of the city of 'loronto, on accomet and for the use of the College.

## ARTICLE XV1.

No sum of money payable on account of the College shall be paid at any time, except by ordor, signed by tho President and Registrar; but in the absence of these officers the Tressurer shall have power to pay any claim which he may consider just and right, to be certified to by them on their return.

> Ahticle xvis.

The duties of the Registrar shall be to attend the meetings of the College; to take minutes of all their procecdings, and enter tiem in the proper book; to read the minutes of the preceding mecting with a view to their verification, and have them signed by the Chairman as an attestation of their aecuracy.

## article dvili.

It shall also be the duty of the Registrar to take and keep a correct Register, in accordance with the provisions of the Pharmacy Act, ns shewn in Schedule "B," of all persons who shall be entitled to be registered under the Act, and to enter opposite the names of all registered persons who shall have died, a statement of such fact, and from timo to time to make the necessary alterations in the aldresses of persons registered under the Pharmacy Act, and shall cause to be pristed and published on or before the fifteenth day of June of each year, an alphabetical list of the members who were on the first day of June of that year entitled to kecp open shep as Pharmaceutical chemists.

## ariticle xix.

No names shall be entered in the Register except of persons authorized by the Act to be registered, no: unless the Registrar be satisfied by propor evidence that the person
claining is entitled to bo registered, and any appeal from the decision of tho Registrar may bo decided by tho Council of the said Colloge, and any entry which slall be proved to the satisfaction of such Council to have been fratudulently or incorrectly made, may bo erasel from or amended in the Register by order of such Coumcil.

## artiche xi.

The duty of the Cor. Secretary slall be to amomen any donations made to the College ; to give notice of any candidate proposed for admission, or to be voted for, and to read the letters and papers presented to the College in the order of time in which they were received, unless the Council shali other. wise determine, also to keep the accounts of the College and to keep an account of all money passing through his hands.

## article xit.

Tho Libravian shall have charge of all books, plans, drawings ctc.; and of all models and specimens for the museum, and shall have the general superintendence of the same, under the direction of the Council.

## ABTICLE EXII.

The Council of the College shall consist of the President, Vice-President, Registrar, Correspondency Secretary, Treasurer and Librarim, with seven other members to be elected at the general meeting every second year, who shall havo the direction and menagement of the affairs of the College.

## AMTICLE XXIII.

The said Council shall hold, at least, two sittings in every year for the purpose of granting certificates of competency, at such times and places as they may by resolution appoint, of which due notice shall be given in the Ontario Gazette.

ARTICLE XXIV.
At every mecting of the Council, five members shall constitute a quorum.

## Article xiv.

The Council of the said College shall, cubject to the supervision and disallowance thereof by the Lieutenant-Governor in Council, have authority to prescribe the subjects upon which candidates for certificates of competency shall be examined; to establish a scale of fees to be paid by associates of the said College, and other persons applying for examination, and to make by-laws, rules, and orders, for the regulation of their own mectings and proccedings, and those of the College, and for the admission of druggists' assistants and apprentices as associates of the said College, and for the remuneration and appointment of examiners and oflicers of the said College, and for the payment of the actual members of the said Council in attending its sittings, or in attending upon the business of the said College, and in respect
to any other matters which may bo requisito for the carrying out of the Pharmacy Act.
article xavi.
The Council shall havo power to appoint committees for Special objects in the management of the Collego, and the report of such committees shall bo submitted to tho Council, previously to their being road to tho Colloge.
article xivif.
The Council shall draw up a yearly roport on the state of the College, in which shall bo be given an abstract of all proceedings, and the receipts and exponses of tho past year, to bo accompanied by vouchers, and such report, shall be read at the anmual goneral meeting. Article Reviif.
Any member of said Council may, at any time, resign by letter directed to tho Registrar of said College; and in the event of amy vacancy occaring, tho remaining mombers of the Council shall fill up such vacancy from the members of the College.

## AMTLCLE XXIX.

The officers shall enter upon the dischargo of their respective duties on the meeting following their clection, and the Council for the past year shall continue in office until that time. If the general mecting for the election of officers shall not take place on account of the day appointed falling upon a Loliday, the officers Sor the time being shall continue in office until their suceessurs are elected.

## anticle axix.

Two auditors shall be appointed at tho close of each year, one ly a motion of the members at the last general meeting, the other by the chairman, who shall audit the accounts of the College for tho past year, and present the same at tho anmual meeting to the chairman.

## article mixi.

The Ontario College of Pharmacy shall have power to acquire and hold real estate, not excecding at any time in amual valuo $\$ 5,000$, and the same, or any part thereof may alienate, exchange, mortgage, lease or otherwise charge or dispose of, as uccasion may require, and may erect buildings for the purpose of accommodating Lecturers on Chemistry or Pharmacy, or for a Library, Pharmaceutical Museum, or specimen room for the use of the members and associates of said College, and all fees payable under tho F: macy Act shall belong to tho said College for the purposes of the Act.

## BY-LAWS.

I.

The amual term of the College shall commence on tho first Friday in July, and ordinary mectings ahall bo held on the first Friday in each successivo month during the
year，in such placo as the Council masy appoint．

JI．
Tho chair shall bo taken by the officer or member entitled to tho same，and the busi－ ness of tho evening commenco at 8.30 precisely，and bo conducted in the order pre－ scribed in the By－Laws．

III．
Every member shall have the privilege of introducing two visitors，to bo present at the public business of tho College，by ticket of admission，on which tho name and address of such visitors must be written．

IV．
Tho general mecting for tho clection of officers shall bo held on the first Friday in July，at 8.30 p ．m．to receivo ind deliberate on the report of the Council on the state of the College，and every second year to elect the ofticers and members of the Council for tho ensuing year ；should that day fall upon a holiday，the mecting to take place on the following Friday evesing．

V．
The Council may at any timo call a special general meeting for a specific purpose，giving six days notico to members，and they are at all times bound to do 20 ，on the written requisition of five members，who shall specify the nature of the business to be transacted．

## VI．

No By－Law or regulation shall be altered， or a new one adopted at a meeting，special or otherwise，except notice of the alteration proposed，and of the meeting at which it is to be considered，shall havo been given at two consecntive ordinary meetings prior thereto．

The wholo of the property and effects of the College，of whatever kind，shall be vested in the Council，and subject to its control for the time being．
vilr．
Any paper which may lo presented to the College shall be considered the property thereof，and the Council may publish the same in their transactions，or in any other foim，with tho consent of the author．No commmication elall bo published by any other person but the author，without the previous consent of the Council．

Ix．
At the ordinary meetings of the College， the following order of business shall be observed as closely as circumstances will admit ：－

1．The minutes of the previous mecting to be read and confirmed，and signed by the chaiman，and no entry shall be considered vaiid until this is complete．

2．New memijers present to bo introducel to the meeting．

3．Names of caulidates for admission to be ammounced，and candidates to bo elected．

4．Business arising ont of the minutes to be entered upon．
6．Commmications received to be am－ nounced and read if required．

6．Donations received and acknowledged．
7．Communications from the Comucil to bo brought forward．
8．New business and notices of motion．
9．Papers on the list to bo read．
10．The minutes of discussion taken by the Secretary，resolutions passed，reports of committees，and all printed circulars，or other printed papers sent over by the Council， shall be carefully pasted in at book，in the order in which they occur，that they may he preserved as the original records of the College．
11．Any gentleman addressing the meeting shall stand for this purpose，in order to pre－ vent interruption，and to command the attention of the mecting，and the person first rising shall havo the precedence in speaking，upon which，if there be any doubt， the chaiman shall decide．

## SCHEUDLE A．

I herely certify，that C．D．，having passed the examination prescribed by the Phama－ ceutical Council，（or having been in business， or qualified assistant，prior to the Pharmacy Act of 1870 as the case may be），was on the day July，registered as a member of the Ontario College of Phamacy， and is authorized to carry on the business of Chemist and Druggist in the Province of Ontario，from the day of A．D．， Ontario，from the day of of A．D．，
to the A．D．
［Cornorate Seal．］Registrar of the Pharmaceutical Socicty．

## SCHEDULE B．

| 翣 | 茳 |  |  |
| :---: | :---: | :---: | :---: |
|  |  |  |  |
|  |  |  | $\begin{aligned} & \text { 䃙 } \\ & \text { B } \end{aligned}$ |
| $\dot{\ddot{E}}$ |  | $\dot{\theta}$ | $\begin{aligned} & \text { is } \\ & \text { is } \end{aligned}$ |

LIST OF MEMBERS OF the danadian PHARKAOEUTIOAL SOOIETY， Hhohto its rinholment astit ONTAMIO COLAEGE OF PHAMMACK，JURA， 1 STÔ．

| Dato of <br> Arlinlsstont <br> June， 1807. |  |
| :---: | :---: |
| ＂ | ＊W．II．Dunspaugh．．＂ |
| ＂ | －George IIohgetts．．．． |
| ＂ | ＊Joln Coonbe．．．．．．．＂ |
| ＂ | ＊J．T．Shapter ．．．．．．．． |
| ＂ | ＊Neil C．Love．．．．．．． |
| ＂ | ＊C．E．Hooper．．．．．．．．． |
| ، | ＊A．Matheson ．． |
| ＂ | ＊J．Howarth．．．．．．．．．．． |
| ＂ | ＊IV．Slunter．．．．．．．．．．． |
| ＂ | ＊E．3．Shutleworth． |
| ＂ | ＊George Massey．．．．．．． |
| ＂ | ＊George Lesilie．．．．．．．．Yorkville． |
| ＂ | ＊J．C．Lamder．．．．．．．．．＇iormito． |
| ＂ | ＊John IIendersou．．．．＂ |
| ＂ | －hichard 1R．Owem． |
| ＂ | ＊William lbrydon．．． |
| ＂ | ＊II．P．Brummell．．．． |
| July， | ．．．Robert W．Elliut．．．． |
| ， | ．．．J．Davids．．．．．． |
| ＂ | ．．．William Flliot．．．．．． |
| ＂ | ．．．J．Dilworth ．．．．．．．．．．＂ |
| ＂ | ．．F．McCallum ．．．．．．．New Hombur |
| ＂ | ．．L．P．Stickney ．．．．．Toronto． |
| ＂ | ．．．II．J．liasc．．．．．．．．．．．＂ |
| ＂ | ．．．George Matheson．．． |
| October． | ．．．Jos．W．Cull．．．．．．．．Mitchell． <br> ．．．Jos Graves．．．．．．．．．Collimgurort． |
| ＂ | ．．．G．J．Wamgh ．．．．．．Stratford． |
| ، | ．．．J．C．Allen．．．．．．．．．．．te |

Novenber．．．．．John Lowe．．．．．．．．．．．．Anhersthurg．
＂．．．W．\＆．Everest．．．．．．．Fenclon Falls．
＂．．．H．Maclagan．．．．．．．．．Iindsay．
＂．．Edmund Gregory ．．．＂
＂．．．William Saunders ．．London．
＂．．．J．II．Gerric．．．．．．．．．Whithy．
＂．．．v．13．Woolhouse．．．．Port IIope．
＂．．．Alex．Fowler．．．．．．．．．Tackenham．
＂．．．N．A．Bosworth．．．．＇Turonto．
＂．．．John A．Kanc．．．．．．．Amherstburg．
＂．．．James Brown ．．．．．．．．Ottawa．
＂．．．A．II．Joseph．．．．．．．．．＇Poronto．
＂．．．Isaac Lewis．．．．．．．．．．＂
＂．．．James Watson．．．．．．．＂،
December．．．．．Joseph Coombls．．．．．．Smith＇s Falls．
＂．．．F．Brend m，．．．．．．．．．．Brantford．
＂．．．W．Itwitt．．．．．．．．．．．．Yittoria．
＂．．．Villian Turner．．．．．．3illbrook．
＂．．．R．W．Tumer ．．．．．．．：
＂．．．John Boud．．．．．．．．．．．．．Aurorn．
＂．．．William Johason．．．．．．．Smith＇s Fahls．
＂．．．J．I．Howarth．．．．．．．＇Toronto．
＊．．．Jos．R．Lec．．．．．．．．．．．．．＊
Jan＇y，1808．．．Joln Roberls．．．．．．．Ottawn．
＂．．．II．F．McCarthy＇．．．＂
＂．．．Jos．Skimer ．．．．．．．．＂
＂．．．William Massey．．．．．New York，U．S．
＂．．．William Hearn．．．．．．Ottawa．
＂．．．J．P．Featherstone．＂
＂．．．George Mortimer．．．．«
＂．．．C．F．Austin．．．．．．．．．＊

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## Fehmary:

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...U. J. Riddill.. ......'Tomonto.

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& \text {... W. I). lavier.........lublinlo, U. S. } \\
& \text {....J. I. Margich.... ..''oronto. }
\end{aligned}
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...C. Stork.. ............. Ihampton.
.. I. H. Holgins..
...Jos. leacon ......... baalfotd.
....A. Fullerton...... . Ciremwond.
... Eilwin Stork......... Br:unpton.
. I. G. Poyntz......... Omageville.
... IV. S. hobiuson..... Jorkiville.
...Cltas. Ilow:uth ......'Toronto.
....ius. Whirlit.......... "
...A. W. Wallis........
...D. Mellavish.
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..Thomas Stevenson..Oranguville.

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Allmission. Aeminer's Sinne. Aldress.
Jume, ISGS...Thomas Mey ......... Windsor.
" ... Roburt Wightuan.. Owen Somul. Richard Corinett..... Rosemont.
... Willian Steward. ...'Joronto.
...A. W. Gissing.. .. ... Prinecton.
.. Charles E. l'erry... Fergus:
...Thomas Mitelich. ... Puris.
.. Bilwanl Bamnister... Brampton.
... George Thexton ..... (iodeitels.
...John 15. Magurn .... Bampton.
. Joln W. Gilmour... Peteboro.
...Egerton Wulton..... ""
...II
...E. I. Campenter.....Collingwood.
...Chules McCallum..St. Mary's.
...Jolin Duir ............ Merrickville.
". D. Thurston .. . Thoronto.
....M. Mclevol...... .... Bradford.
July. ...Johu (iablutt .... ... Inhima.
" ...Thumas Mitehett...Omemee.
" ...W. II. Siratford.....Brantfind.
" ...S. Clak, M. D......Dresturn.
" ...James II. Comuls..Clinton.
" .. Heny Harper.......Cookstown.

- ...J. Mel.ear, M. 1 ...Simeoe.
" ...J. G. Cormack....... Pembroke.
" ...J. IL. (irant...... .... Dingle.
" ..... W. Kemp.........leterboro.
" .. F. W. Vatts.........Clinton.
" ...J. L:. lionil........... Sehomberg.
" .. Johnt lioper ..........Catedonia.
" ...David Stott .......... Bownmuville.
". ...Ienry l'aker ....... Durham.
" ...W. II. In ${ }^{6}$.
" ... Mobert Fothergill...Newerath.
" ...M. J. Marclay........Wardsville.
" ...W. A. Ma:Collnm... Port Burwell.
" ...J. A. Macking....... listowell.
" ...Jumes Coldrugh.. ... Yount Forest.
"، ...S. Tapseott........... Brantford.
" ...F. Jordati.............Golenieh.
" ...John B. Dale .... ... Wyoming.
"s ..A. linrvard............'Toronto.
". ...William Bray ...... Bothwell.
" ...Tiomas luston...... Georgetown.
" ...S. ML:Cammon ......C.anoune.
". ...J. li. MreŇeill:c.....Unemec.
"، ...F. D. Appleton, .. Clinton.
ct .. B. W. Walton ........nisssigateya.
" ...l. IS. Gmy ........... Puabrok:
" ...Charles "homson ... Womistock.
، ...A. R. Hilheth ......l'aisley.
" ...John i.. litsh.. . Metwboro.
" ...C. W. Kicmpt........ "
"s ...I.onis Garland ...... Hamilton.
" ...b). Graham, ......... Schomberg.
" ...R. IT. Appleton.. ...Stmiford.
" ...John A. Wallerr.....Caledonia.
" ...Charles Statt.........Bownanville.
" ...Chandes Shephend ... Durlam.
". .IIenry Manley ......Owen Sound.
". ...G. A. Grier .... .... Kingston.
" ...D. li. Backnhar. .... Bantferd.
s ...John P. Wrisht ....Kincminac.
" ...R. i. Cuarsc........Torento.
" ...G. A. Powell.........Iondon.


## Date of

 July; 1868 ...'Thos. A. Halhan.. N'ipnnec.
" ... Willian Colelengh . Mount Forest.
" ... Wm. A. Fleming .. Pembroke.
" ... William Jondan.....Golerich.

* ...I. J. MeGilton......Ottuw..
" ...l2. 'T. Daniclls........ "
" ...S. Williams .......... Iondon.
" ...Joseph Willians....
". ... William M. llose ...'toronto.
" ...II. M. Ross, MI.D...Kincmaline.
" ...Joln E. Brown.. ...Thwroh.
Augnst.... (C. W. Brent...........l'ort Ilupe.
" ...R. Lamsiden...... ...Saforth.
" ...George W. Berry...Inclincn:
...liobert G. Bredin ...''oronto.
...D. G. Sutherland...Seaforth.
....I. Jefficy. ..... .....Toronto.
" ... David Oliphant......'turonto.
....․ F. linger......... Inalitar, N.S.
Seqtember, ...A. Jamilton ......... Hamilton.
" ...W. T. Barker.........'Irenton.
" . Richand Suith.... ..Caram.
" ...J. WV. Speneer .... ''Poronto.
* ...Eilward 'riylor . ..Whitevale.

October. ...Thomns Care ....... Iteafond.
: ...W. II. Oliver.........Galt.
" ...E. II. Parker.........Kingston.
" ...II. Caiter.............IInwhesville.
Novemher, ...J. A. Nismyth......Stritford.
" ...George lankin...... 'l'oronto.
Devenber, ...Johm Gibbard, Jr....Strathros:
...Samuel Smith ........ISount Forest.
... IV. Nathall ...... ...'lowonto.
...J. l!eakes... ...... . "
.. J. Hlogg................ "
...1. Whitehcai....... "
...Juhn Buchan......... "
... William aritchall... "
...il. Macdonald....... "
...E. Le.Jaitre.......... "
...Fred. Clarko ......... "
...F. Barrett............. "
...'T. Jones ............... "،
...Jiemneth Miller...... is
...J. Hutty...............
...V. IN. Graham...... Mmar.ptoa.
...Albert Cornell....... Mawkesville.
... Dr. Henderson ...... Ailsa Ciaig.
.. William Fead .......Stcufrille.
...Jolm E. Nevils ......Ailsa Craig.
...Charles Scott.........Clinton.
...Johu S. Lesslie . ...Ornngeville.
Jan., 1S09....'T. J. O'Comnor......'Toronto.
". ...M. Springer.......... Waterloo.
" ...S. Snyder............. "
" ...1. E. Byewater......Collorne.
" ... William II. Cox.....Brantford.
" ...A. I3. Dembett....... "
" ...N. MeEachicn .......Butlalo, NT. Y.
" ...V. Lol,............. 'Joronto.
February. ... Arthar I Boyin.........St. Catharines.
" ...C. H. Kumott ......Bell Ewart.
" ...J. F. Hopkins ..... Dundas.
Xarell. ...J. G. King ..... ..... Kingston.
" .... T. Thickey .......loyn.
" ...William IT. Lut\% .. Wondstock.


Jan., 1870....J. Hamilton largar: Wellani.
" ...E. Harvey................Eelph.
" ...'Thousas Scott ........ Woodstock.
...Janes White........ ${ }^{6}$
" ...G. S. McIcean . ..... Sarnia.
" ...E. Chanller, Jr...... Behleville.
" ...C. Yanlidson........Chatswouth.
" ...S. G. M. Feul.......Stouffiville.
" ...Gilbert MeIntyre....St. Miry's.
Eebnuay: .. Robert Tr. Deans ....Colborne.
" ...Joba Dawes. . . .....Brooklyn.
" ...John IIigginhotham Bowmanville.
a ...G. M. Jiverest.......Arkona.

* ...George Mckendrick. Kincardine.
" ...S. W. Trott ..... ....Collinswood.
" ...Geor; F. Spreule...Brantforl.
March. ...I'. G. Jackson... .... Wingham.
" ...J. A. Hatte .......... Montreal.
" ....1. 1). Weeks.... . Uxhnilge.
* ... Chardes Stiatforl ...Brautfon.
". . William G. Suith...Guelph.
Apil. ...C. J. B. Iang........ Owe: Sound.
....J. 'T. Robinson..... Oshawa.
....1. IV. Lucas........... Gamanofuc.
... W. Brown ............Owen Sinind.
...Josephe liell... ....... Meaford.
.. W. A. Card ..........Orono.
May. ...W. l', Mogant, M:D. Carlcton Plase.
" . C. A. Vin Ficlson...Chatsworth.


## Yicld of Ess intial Oils.

Ihe following particulars in regard to the yield of essential oils, appears in the Jotrmal of sipplied Chemistry. 'ihe statement was prepared by C. F. W. Simon, and is based on the results of ten years experience in destillation, wherein many thousands of pounds of each of the different substances were operated uron:-

## oll of C'araw:ay.

This is propared from the seed of the phant ; they are not crushed, and 100 pounts of seed gives 4.13 pounds of the oil. The product is whiie, but yelluw if distilled from copper by direct action of heat ; of a burning, but sweetish taste, and lighter than water. If expused to air and light the oil turns yellow, and subsequently brown, acequiring also a bad odor.

### 4.11 or Claves.

This is prepared from the buds of Caryophylles Aromaticus. The cloves ara softened in cold water over night, taken out the next day, and put in the still. Aiter the still has been filled with the water in which they have laid, distillation is commenced. When completed, the water that has passed over is put back in the still and distillation continned, thas saving a considereble portion which would otherwise be wasted. One hamdred pounds of cloves yield 16.28 pounds of oil, which is white, clear, like water, and has an odor much like cloves; it is of an agrecably. burning taste, somewht thicker and heavier than water. 'Che oil gradually turns yellow, and finally becomes brown. That sold in drur stores is sometimes adulterated with the oil obtained from the peticles of the thowers of the same tree.
bil of cirfyp mint.
This is prepared from the early thowers of the herb, which are cut off, and yield 2.17 pounds of oil to 00 pounds of flowers. The oil is white, tuming a redidish yellow after a time, of a penetrating odor, the taste is spicy, bitter, afterwards cooling: it is lighter than water

## on or Femel.

This is prepared from the seeds, which are subjected to distillation withont being crushed, and yield 3.25 pounds of oil to 100 pounds of seed. The oil is white, of a sweetish taste and strong odor, resembling femel, and is lighter than water. It solidifies below $50^{\circ} \mathrm{F}$. to a crystalline mass; when distilled by the direct action of leat its color is yellow.

## Oit of F:ag.

This is prepared from the root; the dried mot is cut into small pieces, the vapors being allowed to aet on them for awhile before distillation is begm ; 106 pounds of dived root produces 0.67 pound of oil, which is lale yellow, somewhat thich, with an odor of the flag, and in tasta is haming and spicy; it is lighter than water. In time this vi becomes darker and resinifies.

## Oil of Masjor:m.

This is prepared inom the flowering herb. After being cut the phant is imme iately distilled, producing 1.67 pounds of oil to 100 pounds of the herb. This is white, of a warming, sharp, bitterish taste, and is lighter than water. If distilled from copper the oil soon becomes brown and thick.

## oll of exeppranfint.

I"tis is prepared from the herb, and is immediately distilled after bemg ent, 0.90 pound of oil to 100 pounds of herb. Tho color is white, or greenish white if distilled in copper stills, of a strongly penctrating odor; its tiste is aromatic and refreshing, and it is lighter than water.

> Hil of thic.

This is also prepared from the flowering herb, ami $\therefore$ istilled the tame as the two preceding, boducine 0.26 ponnd of ail from 100 pounds of the herb; of a white coler, though sometimes a palo yellow, and is of a sharp, bitterish tasie. If kept in tin it becomes brown amd thick, amd loses ity jeculiar odor.

Sal ot Susvatris.
Whis is prepared from the wood and tho roots, is treated in the same manner as cloves, and produces 1.71 pounds of oil from 100 pomeds of material. Its color is white, but becomes yellow and red in time, and :s often adulterated with turpentine. The odor is pleasiant, the taste pungent, and it is hearier than water.
oll or sierpolet.
Chis is prepared from tha entire flowering plant, which is cut rad gently pressed in tho st:ll, producing 0.10 pumel of oil from 100 pounds of the plant. The oil is of a reddish yellow color, pangent odor, spicy taste, and is lighter than water. It is sometimes, but racely, cmployed in medicine.

## 011 of stareinlace

This is prepared from the seels with the capsates, which are crushed and soaked in eight times their weight of water, and prolace 3.40 pounds of oil to 100 pourds of -eed. Its color is white, changing in time to yellow, reddish yellow and thick. In odur it is swectish, like anise, and in taste, waming ; lighter than water.

OLi ar 1 hy atco
This is prepared from the entire flowering plant, ent and distilled, producing 2.46 pounds of oil from 100 pounds of the plant. 'The colur is white, or yellow if distilled hy the direct action of heat ; taste, spicy and burning. On attaining age the oil assumes a brown color, losing at the same time its peculiar odor.

## cin of metiter Almonds.

This is prepared from the seeds, which are fincly crushed, passed through a wire sieve, and freed of a portion of their oil in a press, which, however, must not be heated. The cakes which are first crushed and sifted, are used for distilling, and produce 0.77 pound of oil to 100 pounds of the cakes; it is of a yellow color, penctrating odor, burning taste, and is heavier than water. This oil is a yery dangerous poison, of which care mast be talien not to inlale too much. The cold pressad oil can be taken with impunity.

## oit or Antre.

This is prepared from the seeds, whiel are not crushed, but a little ste:m is turned on in the begiming, so that the slowly ascending vapors will thoroughly soften them. One hundred pounds of the seeds givo 2.84 pounds of oil, which is white, or pale yellowish of a sweet aromatic taste and weak. It solidifies in prisims at $50^{\circ} \mathrm{F}$., and liquefies at $62.6^{\circ} \mathrm{F}$.

## Oll or cinssta (erroncously cailed oil of cinnamon).

This is prepared from the bark of the tree, which is reduced to coarse pieces, and stean turned on slowly, producing 0.70 pound of
ail to 100 poumeds of baik. It is of a golden yellow color; of an arreeablo oder, rosembling cimamon, sweot, burning tasto, mad is heavior than water. It hacomes brown in time, and is often mixel with wif of cimamon llowers, in order to matio it momo lluid, mud of a weaker oulor:

## Solvout powors of Clycorine.

The solubility of varions chomicals in 100 parts of glycerino, is thus atatud by lilove:, (Pharm. Zatici. f. Jiuss in Am. Jonrmal of Phurmacy.)
Acid Arseniosum.............................. 20

* frsenicuu.20
" arsenicum.................................. 20
" buracicum......................................... 10
" oxalicum .................................. 10
" t:muicun........................................ 50
Alumen ..... .............. ...................... 40
A м
" musias ................................... 20
Antimonii et Cotass. turt......................... 5.50
Atiopia .......................................... 8
Atrop. Sulphiz ..................................... 331
Barii chlurid.. .................................. 10
Brucin....... .................................... 2.25
Calcii sulphid ................................................. $\sqrt{0}$
Cinchonin...... ........... ........................... 0:20
Cinch. sulph...... ............................. if 10
Cupri :cethis ......... ............................ 10
" sulph-10
Ferri et lutass. tart ..... 3
" lactas ..... 16
sulphits.70
cy:anid. ..... 27
Ioshinium ..... 1.90
MLorphi:1. ..... $0 \cdot 15$
Morph. acctas. ..... 20
Phosphorus ..... 0.20
Plumbi acetias. ..... 20
Potasse arseniay ..... 50
Potissii chromid ..... 3.50
" cyanid ..... 32
" iodid ..... 40
Quinia. ..... 0.50
Quiniee tamnes
Solic arsenias. ..... 60$0.2 \overline{0}$
" bicarbon
8
8
" boras.. .....  6
"s carbonas ..... 18
" chloms. ..... 2
Sulphur. ..... $0 \cdot 10$ ..... $0.2 \overline{0}$
Strychuia
Strychuia
Strychn. nitris.20.00
Urea. ..... 50
Veratria. .....  1
Zinci chloriil .....  50
"A iodid .. ..... 10


## Gultiration of Oinchona in India.

According to a recent repurt by tho Assistant Superintemdent of tho botanic Garlen at Calcutta, the ciselomin trev is rucecssfully produed in Mrairas asal Ilengol. Tho mumher of plants at Darjecoling on :3n :rea of
 dur:ng the past year being 073,6 , 8.4 . The tallest phants grown thoro ary macten feet high.-Mal. amd Sury. Jip, IMila.

## Ohinose Therapeutics.

Tho Chinese divide medicinal substances intoheating, cooling, refreshing:and temperate. Their Materia Medica is contaned in the work called the Pen-taoscung-mon, in 52 harge volumes, with im athas of phates. Most of our medicines nre known to them and prescribed, ilso mineral waters, with which the country abomds. They also have mimal mametizers, called Cong-fou.
They divide their prescriptions into seven categories, viz.:-1st, the Great prescription; 2a, the Little Prescription; 31, tho Slow Prescription; 4th, Prompt, or 'lhrough-byday light Prescription; Eth, the Odd Precription, for fools, madmen, hypochondrines, and the hysterical; Gth, the Even Prescription, for the wise and good; 7 th, the Double Prescription, for those in the fitmily way:
Each of these recipes is applied to particular cises, and the ingredients that compose them aro weighed out with the most sermpulons acemacy.
The physician never pays a second visit unless sent for, and sometimes his servises ate no longer needed.-Scientific American.

## Hard and Soft Wator.

Dr. Lethely cousiders moderately hard water better suited fer drinking than that which is very soft-an opinion which is confirmed by that of the French nuthoritice, who took the Paris water from chalk districts instead of from sandy stratn. He also stated that a larger percentaye of French conseripts are rejected from soft water districts than from neighborhoods supplied with hard water, and that English towns supplied with water of more than ten degrees of harducss have a mortality of four per one thousand less than those whose inhabitants uso soft water. Mcel. und Surg. İcp., Plita.

## ghisctlantons, is.

## Action of ycramananate of zootasan myon

 connime.Dr. G. Kerner.-Ono part of pure quiaine is dissolvedin excess of nitric or hydrochloric acid in such $a$ mamer that tho bulk of 100 c.c. contains about 1 grm . of the alkaloid; this solution is heated to betwecen $\overline{50}$ and $60^{\circ}$, ame there is then added to it a concentrated solution of two parts of crystallised permanagamate of potassia in watcr, carc being take: to keep the fluid well stirred. After removal of the peroxide of manganese, the liquid (which should have an alkaline reaction) is evaporated to aboat oare-cighth of its previous buik, and next aciditical, whercloy the newly-fomed product of oxidation is precipitated. After laving been purified, by frequent re-crystallisation from water, added for the removal of some colouring matter, hy mimal charcoal. a hard crystalline substance is obtained, difticulty solublo in cold water ame alcolonl, but more readily so in these liquids at their boiling temperature. In many respects, execpting taste and alkaline reaction, this substanee cxhibits properties very similar in charecter to thoso of quinime. The formada of this hemb, which is dibydroxyl-painine, is $\mathrm{C}_{5} \mathrm{EH}_{3} \mathrm{~N}_{2} \mathrm{O}_{4}+4 \mathrm{H}_{2} \mathrm{O}$, and its formation from quiziac is reperscnter by $\mathrm{C}_{4} \mathrm{H}_{2} \mathrm{~N}_{2} \mathrm{O}_{2}+\mathrm{H}_{2} \mathrm{O}+\mathrm{O}=\mathrm{C}_{2} \mathrm{II}_{\mathrm{n}} \mathrm{N}_{2} \mathrm{O}_{2}-$ Jullo: j. Jrate Chciz.

## Adulteralton or Cochencal.

E. Baudrimont.-Tho nuthor states that the more common kinds of this dye material are lirst softened and swollen, by means of stean, and next rolled about in an artificial sulphate of baryta, whereby the substance assumes the appearmee of a superior article. The fratd can, however, be readily detected, since, in tho first place, the gemuine articlo contains only from 4 to ' 6 per cent. of water, and this mode of adulteration increases th at quantity to 11 per cent.; secondly, the qu.ntity, as well as the quality of the ash, is mtirely changed. The anthor fonnd fromi 245 to 20 per cent. of sulphate of baryta in the :shl, which, when no adulteration has been attempted, contains no trace of this s:alt.Fournal de Phermucic et de Ch:mic, Feb., 1870.

## Gityctiac for Litring.

Glycerine as an appliwation to burns is recommendel (Bresl Gewerbebl), by J. Fuchs. Through the explosion of a spirit lamp the greater pertion of his face hat been covered with rather deep burns, which healed in a week, by the immediate and oft-repented application of glycerine without producing blisters or festering, or leaving atay scar.Ani. Jour. Phar.

## rucinn aud chua lohaglass.

J. I. Souberain.-The author shates that the different varieties of this article, as met with in the trade, may be recognised as fol-lows:-lussian isinglass dissolves rapidly and instimtanconsly in hot water, leaving hardly ever more than at must 2 per cent. insoluble residue; Bengal isimghass dissolves readily, but leaves from 8 to 13 per cent. of residue. The taste of Russinn isingliss is pleasant and swect; it yields a very firm gelatine, which is perfectly transp:arent. The Bengal, or Indian kind, oftea has a fishy taste, and the gelatime it yields is not clear. The Drazilian isinglass yields an opaune, milky-looking gelatime, and its taste is acrid. China isinglass is a rare article in the European markets.-Jouraul ic Phitarmacic et CMimic, Feb., 1570.

## E.ard Aditherasca

With $\overline{50}$ per cent. of crystallized carbonate of soda has beea observed by Vidal, of Lyons. - Wittstcins Viericl Madr Schrift, in Pharmacist.

## Pellucisa filyceriuc Soap

Is prepared hy dissolving well-dried soap in an cqual weight of glycerin by aid of gentle hent, and constant stirring; after perfect solution it is youted into monlds.-'lid.

## Fixtract or Eignosicc.

Of the market, adulterated with powdered clarcoal hes beca observed by St. ifartin.Ibiel.

## 35:antrethes ביhls.

Dr. Herman Hawer has, by malys:a, determincel the following to be the composition of this American nostrum:-
R. - Extracti podophylli, $\qquad$ gr. $\quad$ x.

M. f. pil. Nio. 30, mul. liquir, pulv. consperg. -Inteztr's l'harm., Centralhulle.

## Tryite Bedmert.

Since oll last issue, trade has been very good, and the month's sales will probably be the largest of the season.
There have been few mated changes in n' $\cdot$ e. Alcohol has aukancel, on accomet of the rise ia the grain market. Vamilla beans are still adrancing, and camot be laid down at our present curotations; having been very low for a umber of years, they wall probably maintian their high flgure for some time. Castor Oil is also held very firm at advanced rates. Opium is once moro bafling the best of calculations, and lats taken a decided advance. O:! of Peppernint is also scarce, and dearer.

Articies lower in price are Bismuth, and its preparations. Leptandrin, Oil Sassafras, Cantharides, contime a little casier.
Dyestulfs are somowhat easier, and in moderate demand.
The approach of harvest time has maic a brisk demand for Lubricating Oils. Linseed Oils are also still in active request, and maintain their advanced prices.

## 卫ЕREUMMERエ.

HANDKERCHIEF Extracts, Jocl:cy Cluh, Franginami, Patchonly, West End, Musk, Spring Flowers, Misnunctte, New Moma Hay, Swect Pea, and aill the popular scents.
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