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CANADIAN

PHARMACEUTICAL OURNAL

Vol. V, No. 4. TORONTO, NOVEMBER, 1871. WHOLE No. XLIII.

Original and Selected Papers.

ON THE QUANTITATIVE ANALYSIS OF WHITE LEAD GROUND IN LINSEED OIL.*

By VICTOR BIART.

Text books on chemistry tell us very little about adulterations of paints. Take, for instance, white lead; how shall we proceed? If the druggist bought it in the state of powder, it would be relatively easy; but as it is generally sold ground in linseed oil, the case appears to be more complicated. If we refer to books, it will generally be with disappointment.

As an instance, I give what I found in a good book on chemistry, in the part of the work relating to chemical analysis, speaking of the analysis of white lead in oil, the author says: "When the white lead is mixed with oil, it becomes more difficult to ascertain the exact nature of the adulterations, since the methods which must be adopted in order to destroy the oil, (viz.: incineration; or boiling with hydrochloric acid, and gradually adding chlorate of potassa), will alter to a greater extent the forms of combination in which the substances exist, and the analyst must content himself with merely identifying the different acids and bases; the quantities of these will, however, guide him in his conclusions as to the really important adulteration. Probably by powerful pressure in blotting

* From the Leavenworth Journal of Pharmacy.

116 On the Quantitative Analysis of White Lead, &c.

paper, between hot iron plates, the oil might be so far extracted as to allow of the application of the ordinary method of testing."

But such a process would be altogether too tedious, and I would suggest the following plan: If you have a sample of white lead ground in oil, and you wish to test it, it is not necessary to make a thoroughly accurate chemical analysis of it, all you want is the detection of one or more probable impurities, and these generally are sulphate of baryta, suphate of lead, sulphate of lime (plaster paris), and carbonate of lime (chalk). The sulphate of baryta is almost universally employed in adulterating white lead; in fact, that is what it seems to be-created for, and the manufacturer of white lead readily takes the advantage of the whiteness, the firmness, the weight, and, above all, the cheapness of sulphate of baryta; all it lacks is the opacity, commonly termed the body, for it does not cover well.

The way to proceed then, is as follows: Take a small precipitating bottle, weigh it, and introduce in it, a certain quantity of the white lead ground in oil. Then add about four times the quantity of ether, shake frequently till all oil is dissolved, decant and add another small quantity of ether, shake again, decant and repeat the operation till a few drops of the ether used will not stain a sheet of white paper on evaporating. Collect all the ether used, evaporate, and the oil is left as residue ; weigh it and calculate the per centage of oil in the white lead. Now warm the bottle with the dry white lead in it, so as to eliminate all the ether, then weigh it, and the difference of weight before and after digestion with ether must be equivalent to the amount of oil extracted.

To the powder obtained, add a little nitric acid diluted with three times its volume of pure water. White lead being a basic carbonate of lead, its carbonic acid will be expelled, and nitrate of lead will be the compound in solution.

If no sediment remains, then only test for lime as follows:— Add ammonia in excess, which precipitates the oxide of lead, then decant and add a solution of carbonate of potassa, which precipitates the lime if present. This is dried and weighed, and the amount of carbonate of lime it represents is calculated as follows:

28: 50 :: weight of precipitate : x

x = weight of chalk.

Or the solution may be treated with oxalate of ammonia, which precipitates the lime as oxalate of lime; this may be converted into a carbonate by ignition, and then weighed.

If, on the addition of diluted nitric acid, an insoluble residue is left, then this residue must be tested for the sulphates of baryta, of lead or of lime. Boil the residue with dilute hydrochloric acid; the sulphates of lead and of lime will be dissolved and the baryta left; this may then be dried and weighed. Precipitate the lead by adding ammonia and sulphide of ammonium, the sulphide of lead formed is treated with concentrated nitric acid, which converts it entirely into sulphate, and as such it may be weighed and directly determined. Lastly, the lime may be precipitated by oxalate of ammonia, ignited and converted into carbonate of lime, this is dried and weighed, and the amount of sulphate of lime it represents is calculated as follows :

50:68: weight of ignited oxalate of lime: x x = weight of sulphate of lime.

THE MODERN ASPECTS OF THERAPEUTICS.

BY WALTER G. SMITH, M.D.

(Continued from page 63.)

It has lately become the fashion to decry the study of materia medica, and it is asserted that the possession of such knowledge is a useless burden on the memory. I am persuaded that this is a mistake, and a serious one, and I am sure that many will from repeated experience bear me out in the belief that an accurate knowledge of the characters and properties of drugs is of every-day utility to the prescriber, in enabling him to formulate correctly, to detect imposture, to avoid improper combinations, and to explain any phenomena that may unexpectedly arise.

Since our ignorance of the curative resources of the organism, and of the healing powers of drugs have been, and still are, the chief sources of error in therapeutics, and the chief obstacles to its improvement, it follows that the foundation-stone for positive knowledge must be laid in more accurate investigations into the real properties of drugs, and this leads me to consider how we may best set about such improvement, and in what directions we can look for assistance in such a course. I shall pass over without further reference the direct gains to therapeutics, and the lessening of the chances of confusion which flow from improved methods of diagnosis, from the more strict localization and classification of disease, and will direct attention, in the first place, to the influence which organic chemistry and physics are now extending over practical medicine.

The outcome of all recent developments in science, and, in especial, the doctrine of the correlation of force, *i. e.* the indestructibility or conservation of energy, the corner-stone of science, has been to render it in the highest degree probable that plants and animals are under the operation of the same laws as inorganic nature, and that all the changes and processes which are unceasingly at work within us are mainly the result of the action of physical and chemical forces upon the material constituents of our frame. The human body has often been compared to a machine, and though the comparison between a living body and an inanimate machine should not be pushed too far, still the forces operating on each can reasonably be com. pared, and the more closely we know the limits of health, and the deviations that may occur from it consistent with life, the more surely can we propose to rectify the errors in function. Hence it is plain that a truly expressed science of medicine cannot be evolved excent by endeavoring to refer the processes going on in the animal body. and therefore also the influence of remedies on these, to the ultimate laws of physics, chemistry and physiology. "Chemical enquiry is now finding its way into many of the remoter secrets of function. and is likely before long to establish some laws of molecular constitution which will enable us to classify unknown remedies, and to explain and calculate their actions." (Dr. Allbutt.)

The observations of Bence Jones and Dupré, who were the pioneers of this work in this country, have disclosed a rich mine of discovery, and they have demonstrated the existence of a chemical circulation within the body, which rivals in importance that of the older mechanical circulation of the blood. By the application of spectrum analysis they have shown the wonderful rapidity with which crystalloids diffuse from the blood into the colloid tissues, and from the tissues into the absorbents, and so the passage of all substances through the human body is determined by the laws of diffusion, modified by pressure. For example, if 20 grs. of carbonate of lithium are taken into the stomach, it will, in two and a half hours, have passed into every particle of the textures, and beyond the blood circulation even into the most distant parts, and in three and a half hours it will be distinctly present in each particle of the lens. In about seven days the lithium will be entirely eliminated from the body. When 7 grs. of carbonate of lithium were given eight hours before delivery, the lithium was subsequently detected in each particle of the umbilical cord.

Again, they have determined the existence, in animals, of a widely diffused substance which closely resembles quinine, and which has been named animal quinoidine. This leads to a plausible supposition, the only one yet offered, as to the mode of action of quinine in curing ague, and the hypothesis, though not proven, opens up a hopeful prospect of possible discovery.

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The history of organic synthesis dates only from the year 1828, and remained comparatively barren for some years, but since w R the year 1845, its progress has been truly marvellous. The most complex substances are being formed at will, while the last barriers ŀε between organic and inorganic bodies are disappearing, and as the Ъn advances in this branch of science are, if I may say so, in the Bi highest degree cumulative, the time is probably not far distant tic when, by the artificial formation of morphia and guinia, we shall be able to dispense with the production of opium, and the cultivation the of cinchona in our colonies.

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Every schoolboy is now familiar with the derivation of the most diverse colors from coal tar, and it is but the other day that alizarine, the coloring principle of madder, has been built up from another component of coal tar-the first instance of the artificial production of a vegetable coloring matt. ... We have just learned that artificial indigo has been isolated, and we may confidently hope soon to see the alkaloids brought into the market, derived not from their natural sources, and dependent on precarious supplies, but furnished to us by the laboratory of the chemist-the true magician of our age. [Even since these lines have been written, Schiff has announced the first attainment of this result in the artificial formation of conia.] The insight which we shall thus gain into the constitution and intimate nature of complex organic molecules must prove of inestimable value as a stepping-stone to a true classification of remedies. So comprehensive is the aim of modern chemistry, and so wide the means of research, that "we can foresee a state of chemistry in which, without studying the properties of different bodies in detail, and knowing only the number, atomicity, and electric polarity of the elements, it will be possible to determine by simple calculation the formulæ, properties, and mode of preparation of all compounds possible." (Naguet.)

In a philosophic and suggestive paper, Dr. Broadbent has made a bold attempt to apply chemical principles in explanation of the action of remedies and poisons, in which are contained, I believe, the elementary principles of scientific therapeutics. Starting from the two postulates—1st. That there must be some relation between the substance administered and the human organism on which the effects produced depend. 2nd. That, so far as the substance is concerned, the basis of the relation can only be its *chemical* properties, using this term in its widest sense, certain corollaries flow from these :-- I. That the physiological and therapeutical actions of the same substance must be similar in kind. 2. That the action of foods, medicaments, and poisons in the system, must be capable of explanation on the same principle. 3. That substances closely allied chemicaliy, must have an analogous action on the system, or the diversity in their operations should be capable of explanation on chemical principles; in other words, chemical groups ought to form therapeutical groups. This is an outline of the path to be pursued, and some steps of importance have been already gained by individual workers. In England and Scotland the names of Bence Jones, Richardson, Crum Brown and Fraser, stand out in honourable reief; in France, among a number of observers, Mialhe, Rabuteau and MM. Pélissard, Jolyet and Cahours; and in Germany, Liebreich, Binz and many others, have pursued the investigation of the phyical and chemical action of drugs with results most encouraging, hough as yet imperfect and incomplete.

In determining the action of any substance from a chemical

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point of view, Dr. Richardson has shown that we have to consider five points, viz.:—1. The elementary basis or radical composition of the substance to be tested, and the change of constitution to which it may be subjected; 2. The physical qualities of the substance; 3. The chemical stability of the substance; 4. The physical peculiarities of the animal body subjected to the substance; and 5. The special action of the substance on special centres of the animal organism.

Some scattered attempts to express the relation which, no doubt exists between the physiological action of a substance and its chemical composition and constitution (*i.e.* the mutual relation of the atoms in the compound) have, from time to time, been made, but until lately with trifling success. For example, it has long been observed that, as a rule, the salts of the same base and of the same acid have respectively a common physiological action, and Mr. Blake, of California, pointed out many years ago, and has lately extended his experiments, that, in general, isomorphous substances have analogous actions.

(To be continued.)

OBSERVATIONS ON THE COLOR OF FLUORESCENT SOLUTIONS.*

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BY HENRY MORTON, PH. D.

President of the Stevens Institute of Technology.

As the result of a series of experiments to be presently described, I have come to the curious conclusion that all the familiar fluorescent solutions, such as the tincture of turmeric, of agaric, of chlorophyl, and the solution of nitrate of uranium, emit light of the same colour by fluorescence, namely, blue identical with that developed by acid salts of quinine. This blue, however, as is well known in the case of quinine, is not of a single tint or refrangibility, but yields a continuous spectrum, in which the more refrangibility rays predominate.

My attention was first drawn to the subject by observing the a specimen of mixed asphalt, which is here largely used in the pre paration of pavements, yielded a light yellow solution with alcohol which fluoresced blue, and an orange solution with turpentine, which fluoresced .een. It at once occurred to me that the green color was simply due to the absorptive action of the colored solution, and no to the development of green rays. Examined with the spectroscope

*From the American Journal of Science and Arts.

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he seemingly green fluorescence showed no increase in the green rellow part of the spectrum, as compared with the blue fluoresence, but only an absorption of the red and violet ends. When, hwever, a piece of fluorescing canary glass or solid nitrate of ranium was examined, the green light was (as as is well known) reely augmented. I also found that when, by filtration through nimal charcoal, the solution in turpentine was reduced in color, e green tint in the fluorescence disappeared in a corresponding This alone would, however, have proved nothing, as a egree. een fluorescing matter might have been absorbed by the charcoal. tin connection with the spectroscopic result it was of interest.

I next took up for examination the tincture of turmeric. This set down in standard works, such as those of Du Moncel and ecquerel, as fluorescing red. This solution, when concentrated. sarich orange-red color, and the jacket of a Geissler tube being ed with it, all the light preaching the eye from the electric disarge within, is of a dee orange or red color. If, however, the ution is simply diluted until its color is reduced to a rich yellow, efluorescence appears green. The same result follows from filtion through bone black, with a marked increase in the amount fuorescence visible, as the light-absorbing coloring matter is noved. By continuing the decoloration until the liquid is colors or of a very light tint, its fluorescence is distinctly blue.

The results with the spectroscope when it was applied to this stance, were the same as with the solution of asphalt. Such also the case with tinctures of chlorophyl, which, when fresh and green, es apparently a green light, and, when old and brown, a gray or.

Finally, I took up the nitrate of uranium, about which such conlictory statements have been published. This salt in its solid e gives a brilliant fluorescence, whose spectrum is figured by querel, and abounds in green rays; but in solution it gives a very ble fluorescence, far inferior to that of turmeric, and of no more in tint than would be due to its yellow color. So, in fact' says the spectroscope.

From these results it would seem that the molecules of fluoent bodies in solution are not capable of restricting their vibras to limited ranges, but move at rates corresponding with all repre-gibilities, having simply an excess of the higher ones, though ohd same substance in the solid state may act quite differently, as in which case of nitrate of uranium, and possibly the fluorescent material r was be asphalt, which may be related to the solid hydrocarbon fluor-1 no ag green, which Becquerel mentions (La Lumiere, tome i, p.

In this general connection let me mention that I have observed while the acid salts of quinine generally are fluorescent, the chloride is not, and that hydrochloric acid will decompose the ac sulphate so as to destroy its fluorescence.

There are several other points in connection with this and the form going subject, which I must leave for a subsequent discussion. July, 1871.

P. S.—August 1st. I have just obtained results with turmen which seem to indicate that its fluorescence is due to the presen of a substance not yet observed, soluble in water, and without a color.

SYRUP OF SANTONATE OF SODA.*

BY J. DONDE.

Boil the syrup till it is concentrated to 32° Bme. Rem from the fire, let it cool a few minutes, then add the salt dissol in the water.

You obtain 18 fluidounces of a transparent syrup, without bitter taste, of 35° when cold. Each fluidounce contains one g of santonine. I have been preparing this syrup for nine years the drug store of Mr. Font.

Santonate of Soda.

Put all in a flask, and heat in a sand-bath, or over a store 70° or 80°, until the solution of the santonine is complete, w usually requires about half an hour, then remove from the and when cold it is conveniently evaporated. In cooling, prism crystals with an oblique base are obtained, containing 54 per santonine.

When the solution is evaporated until a strong pellid formed, on cooling it is converted into a mass of acicular cry of a pearly aspect, which contains 60 per cent of santonine.

The santonate of soda is soluble in 13 its weight of water (2 and has a slightly bitter taste.

Merida, August 14, 1871.

*From the American Journal of Pharmacy

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ANNUAL MEETING OF THE AMERICAN PHARMA-CEUTICAL ASSOCIATION.

From our own Correspondent.

(Continued from page 111, No. 3.)

EVENING SESSION, WEDNESDAY, SEPTEMBER 13TH.

Prof. Maisch read a report on Legislation, detailing the prosions of the various acts which have been passed during the year, recting pharmacists, including our Canadian Pharmacy Act. He marked that in nearly all the States attempts had been made to gulate and restrict the practice of pharmacy by legal enactments, it in many of them, thus far, without success.

A Committee appointed last year to report on the advisability inviting the International Pharmaceutical Congress to meet in merica, recommended that that congress be invited to meet in hiladelphia, in 1876, the 100th anniversary of independence, at the me of the July celebration, and in case the congress cannot then eet there as a body, that an invitation be extended to the pharmasts of all nations to meet as individuals at that time and place.

An interesting volunteer paper from Daniel Hanbury, F.R.S., ondon, England, was read by Mr. Brady, on the exports of "Drugges d other things," from Virginia A.D. 1610. The substance of this per was compiled from the old records relating to intercourse with e colonies, preserved in England, and referred chiefly to those ptions which were of interest to the pharmacist. The instructions en sent to the colonists regarding the manner and time of collectg the various articles mentioned, and the best way to pack and ward them, were somewhat unique. The prices, too, which some the substances brought in the European markets were highly teresting and instructive, as showing the estimation in which they ere then held. Among the things mentioned as specially desirle for shipment, were small Sassafras, Bayberry, Yellow Puccoon, rsaparilla, Walnut Oil, Chestnut Oil, Turpentine Gum, Pitch, r, and the Sounds of Sturgeons, for Isinglass.

A vote of thanks was unanimously passed to Mr. Hanbury for svaluable and interesting paper.

The replies to queries given last year by the Association being win order, the following were responded to :

rst. Are the preparations of Rennet identical with those of psin, and can the former be prepared only from the fourth stomach the calf. A short reply was read from Clemens Parrish, of hiladelphia.

Query No. 2 on Camphor, how it may best be reduced to fine wder, and retained in that state; replied to by John C. Lowd,

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124 Meeting of American Pharmaceutical Association.

of Boston. He remarked that the present method of powdering Camphor was very unsatisfactory, and suggested as an improve ment that it be powdered by vaporizing it from a copper retort, and passing the vapor into a chamber made with paper, three fee square, where, if the vaporizing was not conducted too rapidly, it would condense in a very fine powder which would remain unaltered for a considerable length of time. With a chamber of this size a pound of camphor might be sublimed in half an hour. Samples of the powder prepared in this manner were submitted for inspection and were highly commended.

The next query was on the various extracts of meat in c_{0m} merce, and their relative value as nutritives, responded to by A. E. Ebert, of Chicago. From the experiments made by Mr. Ebert, he concludes that all the leading preparations in the market are nearly uniform in character, and all are of value, presenting as they do s much nutritive matter in a small compass.

Some valuable remarks were made by Mr. Brady on extract of meat, in which he referred to the process of dialysis, and subs quent examination under the microscope as a ready method of determining the relative value of these preparations.

THURSDAY-MORNING SESSION.

A volunteer paper of Dr. Squibb's was read, in the author absence, by Prof. Proctor, on a Fluid Extract of Cantharides, is which he suggested the use of Liquor Potassæ, in connection will alcohol and water, as a menstruum to exhaust them of their actimatter. A very satisfactory preparation was thus produced, while was more active than any other blistering material in use, vest cating in from four to six hours. Referred for publication is the proceedings.

Query No. 10, on suppositories, the best way of preparing the extemporaneously, was replied to by R. B. Ferguson, of Washing ton, D. C. He recommended that the ingredients (cacao butte finely shaved, as a base) be well mixed on a suitable board by mean of a stout spatula, and then rolled and cut of proper size, and works into shape with the fingers, which should be kept dry with a litt arrowroot.

Mr. Brady offered some valuable remarks in reference to the subject. Suppositories were first introduced into the Pharmacope in Great Britain in 1863, and were then ordered to be made of a and wax. But it was not long before a more suitable substance w found in theobroma oil, and the change to the use of this materiso nicely adapted for the purpose, soon resulted in a greatly extend use of this form of administering medicines. The oil was not off found sufficiently pure in the market for use, but it might be purifiby heating for several hours at a temperature of about 180, and dering

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bring while hot through paper. A fine sample of the oil thus puriand was presented to the meeting in the form of a bar, the color of which was nearly white. Having been requested to devise some mula for suppositories, which would be quite free from grease of ny sort-this having been objected to on account of its soiling the dly, it say sort--this having been objected to on account of its soiling the ultered obthes--he had succeeded in obtaining a substance suitable in most uses by combining gelatine with glycerine, after the following formla :---

Glycerine	'7	parts.
Nelson's Opaque Gelatine	3	- «
Water		
Alcohol		
1		

After soaking the gelatine in the cold water for several hours. mly heat until the solution is complete, then add the glycerine and icohol with the drug to be administered, and pour into suitable

houlds. This gelatine compound is not intended to be used with stringents, or Tannic or Gallic acids. Some very beautiful supposory moulds were exhibited by Mr. Brady, made by Maw & Son. om his own original designs, and known as "Brady's Suppository loulds." They were made of gun metal, electroplated, and opened means of a spring, in a manner most convenient for the removal the suppository, the weight of the metal being such as to secure heir cooling almost as fast as they could be made.

An excellent paper on Glycerine was next presented by I. H. emmington, of Philadelphia. Bower's glycerine he regards as e best and most reliable in the market, although Gordon's, of tent make, was almost equally good. Of all the German glycerine Hered in the U.S. he preferred that made by Sarg. The tests gested to indicate pure glycerine were, proper specific gravity. edom from odor when cold and when heated, and not acted on by trate of silver. The sense of burning arising from the use of the lycerine when applied to excoriated surfaces, he attributed to the hing crease of temperature resulting from the sudden absorption of uttribute from the surface by the Glycerine, this substance having a near rong affinity for water. If diluted, this source of objection to its order eis removed; dilution with at least one-fourth of its bulk of water litt ould always be practiced before external application or internal;

Prof. Parrish thought that Glycerine was irritating, even if thor-

of a prot. Parish thought that Glycerine was irritating, even if thor-ope ghly diluted, and instanced some cases which had come under the sown notice of irritation arising from its use in eye lotions even ew pen largely diluted. teris A volunteer paper on Hydrate of Chloral, by Dr. Squibb, was end en read, also a reply to query No. 11, as to whether a liquid of eparation of chloral was desirable, by Prof. Markoe, of Boston. info of. Markoe did not think a liquid preparation desirable, but pre-nd irred dispensing it as required.

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Dr. Squibb's paper went to show that the Chloral at present in the market is purer and more reliable, on the whole, than it was a year ago. He regarded the small crystals or crystalline powder as preferable to that in lumps.

Prof. Maisch stated that he seldom finds Hydrate of Chloral entirely free from Hydrochloric acid, and regarded the usual crystal. line form as most objectionable, from its deliquescing so ràpidly. He much preferred Chloral, which had been recrystallized from a solution of Bisulphide of Carbon, as it is then comparatively permanent; it sometimes retained a trace of odor of the bisulphide, but this was easily got rid of by a few minutes trituration in a mortar before dispensing.

A. E. Ebert, of Chicago, had dispensed a very large quantity dDr. Squibb's Chloral in the crystalline form referred to, and had not found it open to the objections urged by Prof. Maisch. He had experienced no inconvenience from its absorbing moisture, and had found it free from impurities.

Prof. Parrish thought it quite safe to keep a standard solution of Chloral for dispensing, and always did so in his store.

Mr. Brady commented on the undesirability of using syrup in connection with Chloral and also urged objections to the addition alcohol, but believed that a solution in distilled water might be kep a long time without decomposition; in his own establishment is usually keeps it in that way for dispensing.

Prof. Markoe also finds that alcohol leads to decomposition.

In reply to query No. 13 on Cotton Seed, Mustard Seed and Peanut Oils, as to how far they were sold for Olive Oil, an excellent paper was offered by H. N. Rittenhouse, of Philadelphia. He stated that Cotton Seed Oil is largely sold for Olive Oil, citherin toto or mixed with Olive Oil and sold as pure. Ten per cent.d Olive Oil will give a decided Olive Oil smell and taste to Cotton See Oil so that it is very difficult to detect the fraud. The price of Could Seed Oil, refined so as to be suitable for use as a Salad Oil, pl yellow, or colorless and odorless, varies from 50c. to 75c. per galler while Olive Oil is fully double that price. Cotton Seed Oil is exported largely to Europe. The seed is also sent there and expressed 20,000 tons had been shipped during the past year for that purpos The oil is used there as a Salad Oil, also in the manufacture of som and for burning. No ready test is known for cotton seed oil where mixed with Olive Oil.

On Peanut Oil but little was said, since it has not found its w into the market to any extent.

Mustard Seed Oil is a by-product of the mustard factories, a is sold as it is expressed; about 40,000 lbs. of this oil is annul produced in the United States.

P. W. Bedford, of New York, offered some remarks on a her Petroleum Oil which has been extensively used by dealers in N

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York for the adulteration of Olive Oil, It was quite odorless and bland to the taste, the odor being dissipated by passing steam through i.. As far as he could learn, upwards of a million gallons of this oil has been used for that purpose. Olive Oil could thus be adulterated one half or more with little fear of detection, unless the suspected oil is treated with an alkali, when, as the Petroleum Oil does not saponify, the sophistication is easily seen.

After the discussion on this subject had ended, Mr. J. McKesson, Jr., of New York, showed a sample of Cardamom Seeds of handsome appearance which had been whitened artificially with some inert substance, with the view of adding to their value.

The next paper read was by S. M. Colcord, of Boston, on Apprenticeship, from which it appeared that regular apprenticeship to the Drug business for three or four years, as formerly practiced, is now almost absolete in the United States. This was a matter of regret: he advocated a return to the old and time-honored custom, and expressed himself as in favor of a four years apprenticeship or engagement.

W. Saunders, of London, Ontario, read a volunteer paper on "Pharmacy in Canada," giving the history and tracing the progress of Pharmacy both in Quebec and Ontario, detailing the causes which gave origin to the various societies, and their persevering efforts to bringabout suitable legislation with the view of improving the position of the Pharmacist. The success which has attended their endeavors was noted, the establishment and prosperity of "the Journal" referred to, and the Ontario Pharmacy Act commented on with its present and probable results. This paper was received with applause and referred for publication.

AFTERNOON SESSION.

The Convention was called to order by the President at 4 p. m. Mr. Meyer moved that this association send greetings to the "North German Apothecaries Association," which meets in Dresden, Germany, to-day. The motion was carried, and a telegram ordered to be sent immediately.

Louis Diehl, of Louisville, made some interesting remarks on the manufacture of Aqua Ammonia Fort from Sulphate of Ammonia, as conducted by himself, the form of apparatus used being shown by diagrams on a black board.

A long and warm discussion then took place, regarding the peration of the Revenue Stamp Tax in the U. S., which we omit us lacking in interest to our Canadian readers.

Query No. 20, on commercial Subcarbonate of Iron, was reponded to by P. W. Bedford, of New York. He had analyzed Nemples from all the leading makers, and found that they contained to true carbonate of iron at all, and that when effervescence occurred

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with acids it was due to traces of carbonate of soda present from imperfect washing. The iron was in the form of oxide.

L. M. Rice, of New York, replied to query No. 22, on the morphia strength of the Tincture of Opium of commerce, as obtain. ed from reputable sources. He had examined twenty samples in all, thirteen from New York, six from Chicago and one from Connecticut, all from Pharmacists of reputable character. He found the morphia strength to vary from 2th₀th grains to 5th₀th grains in the fluid ounce with an average of 3th₀th grains, which is somewhat above the aver. age standard required by the Pharmacopœia.

In reply to query No. 23, W. C. Bakes, of Philadelphia, offered some useful practical hints, and suggested precaution: "measures in reference to containers for poisonous drugs. He a cocated the use of bright red labels for poisonous substances, as more striking than any other color, and the keeping of the more dangerous poisons in a locked closet, accessible only to the proprietor or a competent assistant.

A volunteer paper by Dr. Squibb on Litmus Paper was next read, accompanied by specimens put up in a very neat manner in paper and also in corked test tubes, the latter an original idea with Dr. Squibb. The test tube, after it is emptied, is always useful to the Physician, and its cost is not very much more than an ordinary phial. Minute directions were given for preparing a solution of Litmus in water and alcohol of suitable strength for coloring the paper to be dipped in it.

Prof. G. F. H. Markoe replied to query No. 30, on the proportion of Magnesia present in samples of commercial "Solution of Citrate of Magnesia." He gave the results of the analysis of twelve samples obtained from the larger cities in the Republic, showing that none of them contained the full quantity of Citrate of Magnesis ordered; that much of the solution sold contained nothing more than tartrate of soda, while in some instances epsom salts was the active ingredient. By the use of these latter substances, the makers were enabled to turn out a clearer and brighter, as well as less costly preparation than the officinal.

E. H. Sargent, of Chicago, also read a paper on Liquid Citrat of Magnesia, in which he showed that this preparation made after the formula given in the U. S. Pharmacopœia, although very good

nd palatable when fresh made, is not permanent, but deposits soluble citrate after a few days. It should either be made frest ery time it is dispensed or be prepared every two or three days e suggested the use of a solution of Citrate of Magnesia and Sola

in which a portion of the Magnesia ordered is replaced by carbonal of Soda, as an improvement on the officinal formula, it being a per manent solution, and equally efficient with that now in use.

W. J. M. Gordon, of Cincinnati, offered a reply to query No 41, on the substitution of Glycerine for Sugar in the preparation Fluid Extracts. He approves of such substitution and has practiced it for some time past, and claims that where Glycerine is used the extracts seldom precipitate. He uses sufficient Glycerine to make up from one fourth to one half of the bulk of the fluid extracts when finished. Samples of his extracts were presented and examined by the members. Notwithstanding the advantages claimed, the general opinion seemed adverse to the use of Glycerine in this way, some claiming that any advantages it possessed were more than counterbalanced by the sickly, sweetish taste it gave to all the preparations into which it entered.

T. Doliber, of Boston, replied to query No. 29, on Aromatic Sulphuric Acid, and suggested a modification of the officinal process by substituting a proper proportion of Oil of Cinnamon for the bark ordered, and to percolate the ginger with the mixed Acid and Alchohol in which the oil has been previously dissolved. In this way the difficulty of precipitation of the coloring matter when mixed with water, so characteristic of the officinal preparation, is almost entirely obviated, nothing further than a very slight milkiness being produced.

FRIDAY-MORNING SESSION.

Mr. J. L. Lemberger, of Lebanon, Penn., read a paper on Wild Cherry Bark, after which Prof. Proctor read one from Dr. Squibb, on the Root of Pareira Brava, in which he claimed that the root was more efficacious than the stems in common use, and should be employed in preference.

Prof. A. B Prescott, of Ann Harbor, Michigan, read a volunteer paper on Sulpho-phenic Acid and its Salts.

Papers on Fluid Extracts of Senega were presented from Dr. Squibb and H. M. Rittenhouse, in which Mr. Rittenhouse, with a view to preventing this extract from gelatinizing, recommended the Dr. Squibb suggested addition of a little Carbonate of Soda. the use of a minute quantity of Aqua Ammonia for the attainment of the same object.

An exhaustive paper on the solid alcoholic extracts of the U.S. Pharmacopœia was presented by W. Saunders, of London, Ontario, showing the quantity of Alcohol used and the yield of Extracts in each case where the directions of the Pharmacopœia were followed and indicating where Alcohol might be economized without damage to the product. The cost per oz. of preparing each of the alcoholic extracts was given, and their preparation by the retail Pharmacist for his own dispensing strongly urged. Referred for publication.

Querry No. 24, on the Tartar Emetic of commerce, was replied to by J. P. Remmington. After examining a number of samples he Der had been led to conclude that it was but little subject to adulteration.

No S. S. Garrigues, of Saginaw, Mich., replied to query No. 38, on Insect Powder.

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After the reading of the paper, Mr. Brady remarked that Pyrethrum Roseum, and Artemisia Maritima, growing in Europe on the sea coasts, are the plants chiefly used in the manufacture of this powder.

Prof. Markoe stated that Pyrethrum Roseum matures its fruit and stands the winter well without protection, in Cambridge, Mass.

A paper by Dr. Squibb, on the Extract of Jalap, was next presented, in which he proposed a modification of the officinal process by rejecting the watery portion of the extract entirely, on the grounds that it was quite inert, and from its liability to absorb moisture from the atmosphere, prevented the use of the extract in powder, a form which he considered very desirable for administering it. Two additional papers of Dr. Squibb's were read by title and referred for publication, one on Rhubarb, the other on Bicarbonate of Soda.

An interesting paper on the preservation of Herbs was read by J. Harrop, of Leavenworth, Kansas, illustrated by samples. He showed that the greater portion of the pressed herbs in the market are almost worthless, being chiefly composed of stalks and stems.

W. Saunders remarked that this subject was a very important one; that large quantities of herbs were bought and sold every year, the greater portion of them in small packages; and that in the majority of cases the Druggist bought and sold these without ever opening them, and hence could not know whether he was selling the article he professed to sell or not. He thought that in most cases preference was given to this form of dealing in them, merely for convenience sake in storing, and to save trouble in handling, considerations quite unworthy to be held where the interest of the customer is at stake. He believed that all herbs should be bought in bulk, as their quality could then be more readily judged of, and there was less likelihood of inferior stock being offered.

Prof. Proctor, of Philadelphia, also advocated this method of dealing, and gave as another reason for its adoption that the sight of the herbs from time to time, even in a dry state, led the hands employed to acquire some knowledge of Botany.

Prof. Maisch was very glad that this matter had been brought up, and strongly approved of the sale of herbs in bulk, and suggested empty castor oil tins as very suitable vessels for their storage. He finds that most of the young men who come before him for examination know very little about the appearance of medicinal plants, and attributes it in large measure to the sale of herbs in packages. He always buys them in bulk if possible, but if obliged to buy in packages he has them opened and pulled to pieces before offering them for sale.

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Mr. Sargent mentioned a case which occurred in Chicago, when we a Druggist was sued for \$5000 damages for selling a package of her which was different from the label.

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The general opinion of the Association seemed decidedly adverse to the sale of herbs in packages.

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After various votes of thanks to the citizens and Pharmacists of St. Louis for their kindness and attention, the Association adjourned to meet in Cleveland, Ohio, on the first Tuesday in September, 1872.

We should be wanting in courtesy were we to close these notes without reference in some detail to the provisions made by the St. Louis Pharmacists to render the stay of the members as pleasant as possible. On Tuesday evening the large and handsome parlors of the Southern Hotel were enlivened by the presence of some of the principal residents of St. Louis, who met there for the purpose of being introduced to the members; this opportunity was also improved by introducing those members who were strangers to each other, and a very pleasant time was spent. On Wednesday after--non the ladies of the party were driven out in carriages to visit the principal places of interest about St. Louis. On Thursday evening a grand banquet was given by the St. Louis Pharmacists at the Southern Hotel, when a large number of ladies and gentlemen from the city were invited to meet the members of the Association. In addition to a most sumptuous bill of fare, an excellent band was in attendance to enliven the proceedings with music; while the banquet hall was beautifully and artistically decorated with flags and various devices. A very agreeable time was thus spent, the proceedings being brought to a termination at a seasonable hour.

. At the close of the sessions on Friday, an unlimited number of carriages were placed at the disposal of the members and friends, in which they were first driven to the vaults of the American Wine Company, where the superintendent showed the visitors every attention, and abundant opportunities were offered of testing the various wines in the sample rooms. The parties were then conveyed to Shaw's Botanical Gardens, a place of world wide celebrity, where they were welcomed by Mr. Shaw and partook of his hospitality. Mr. Shaw went with us over the extensive flower and fruit gardens, and green houses, each of which abounded in objects of interest. In the green houses which contained a profuse collection of exotic plants and trees we noticed some objects of special interest to the Pharmacist. The beautiful Sago Palm, which yields the sago of commerce, was there, also the arrowroot plant, and the cardamom. In the gardens we were entertained with luscious ripe figs from the trees, and saw almost every tree and shrub and flower, which will grow in the climate of St. Louis. The only regret felt was that the time at our disposal was too short to allow of that thorough inspection of this interesting place which we should like to have made.

Before leaving St. Louis, a party of seventeen was made up to exprisit Mammoth Cave in Kentucky, among which was Mr. Brady and en Prof. Proctor and wife. Our route took us first to Louisville, Ky., a very handsome place, and from thence along the Louisville and Meeting of American Pharmaceutical Association.

Nashville road to Cave City. We passed over one of the smaller battle grounds where the earthworks and rifle pits remained almost the same as on the day of the engagemenr. At Cave City we took vehicles for the cave, which was nine miles distant. The ride was a very interesting one, over a wild looking country where nature's operations have been but little disturbed. The roadsides were adorned with flowers and weeds, many of which were quite strange in appearance to our northern eyes, but as we had several botanists in our party, the journey was an instructive one. We observed immense quantities of Pennyroyal Hedeoma pulegioides growing everywhere; Sassafras too was very luxuriant and abundant, and the same may be said of the Spice bush Laurus benzoin, Wahoo Euonymus atropurpureus, Eupatorium aromaticum, and many other medicinal plants. After having travelled many a mile through the caverns and strange subterraneous passages which undermine the country here, and feasted our eyes on the gorgeous sights presented by the stalactites and other ornamentations in the huge underground chambers through which our guides led us, we left, carrying with us pleasant recollections of our visit.

Returning by way of Cincinatti, we visited the Exposition of Arts and Manufactures then being held, where, among many other objects of interest, we found some collections of Chemicals and Pharmaceutical products. We noticed among the rarer articles a very large collection of Ethers, Pepsin in various forms, Sulphate of Sanguinarina, Celastrin, a handsome white crystalline substance recently isolated from *Celastrus scandens*, and Gelseminic Acid from *Gelseminum sempervirens*. On returning to our hotel, we met the President of the United States, who was visiting the Exposition, and were all introduced and had the pleasure of shaking hands with this agreeable dignitary, after which the various members of our party wended their way homewards. W. S.

SOLVENT FOR INDIGO.—The extensive employment of Indigo makes it important to notice some new solvents which V. Warth has recently found for it. In the first place, Venetian turpentine, heated to the point of ebullition, dissolves indigo with the same blue colour as does sulphuric acid or aniline. After cooling, magnificent copper-red crystals separate. The crystals can easily be freed from the solvent by ether or alcohol. Boiling paraffine is an equally good solvent. A somewhat dilute solution of indigo in paraffine can with difficulty be distinguished from alcoholic solution of fuchsine. After cooling, the separated needles can be cleaned with benzole, etc. Petroleum dissolves indigo to a carmine red solution; so also spermaceti and stearic acid, the first with carmine violet, the last with blue color.—Journal of the Franklin Institute, in Chemical Repertory.

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Transactions of the College.

COUNCIL ELECTION.

		· · ·
Name.	Votes	received
1. Wm. Saunders		259
2. Benj. Lyman		252
3. E. B. Shuttleworth		201
4. Hugh Miller		193
5. J. C. Holden		173
6. H. J. Rose		172
7. J. W. Bickle	•••••	168
8. E. H. Parker		159
9. Wm. Elliott	•••••	151
10.]. Roberts	•••••	145
11. Geo. Hodgetts	•••••	134
12. F. Brendon	•••••	130
13. W. H. Dunspaugh		130
C. Brent	••••••	127
Jas. Hawkes	••••••	126
R. W. Elliot	•••••	III
. T. J. Geary	•••••	98
N. C. Love		94
G. Rutherford	•••••	87
E. Gregory		87
C. Stork	· • • • • • • • •	86 •
Jas. Mills, Jr		79
H. Paffard		74
S. J. Parker	•••••	58
F. Jordan		56
T. Bickle		52
C. W. Kempt	•••••	50
G. J. Waugh		40
T. Matchett		36
C. G. Rich		27
W. Bray		14
J. R. Grant		8
W. T. Bray.	•••••	5
to declare the first thirteen names on the above	e list di	

ndto declare the first thirteen names on the above list duly elected s the Council of the Ontario College of Pharmacy.

HENRY J. ROSE, Registrar, Returning Officer.

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LIST OF MEMBERS OF THE ONTARIO COLLEGE OF PHARMACY.—OCTOBER 1ST, 1871.

Aylsworth, Jas., Tamworth Appleton, R. H., Toronto Appleton, F. D., Clinton Adams, Alex., Rockwood Archer, Geo. H., Leamington Aldridge, Geo., Caledonia Allison, S. E., Port Perry Adamson, Mrs. E., Oilsprings Austin, Jonathan, Simcoe Ault, Ed., Iroquois Anderson, Hedly L., M.D., Ayr Atkinson, W. T., Oshawa Allison, C. R., Picton Butterfield, Jno. A., Norwood Browne, Jas., Ottawa Brent, Charles, Port Hope Bray, Wm., Bothwell .. Burgar, J. H., Welland Britton, Chas., Lindsay Barr, John Alex., Hamilton Bosworth, N. A., Stratford Bache, J. H., Brantford Bickle, J. W., Hamilton Bickle, T., Hamilton Bond, Jno., Aurora Bowman, W. H. Berlin Banks, John H., Weston Breakenridge, D. A., Morrisburg Barclay, M. F. Wardsville Bell, Joseph Jr., Meaford Baxter, Frank J., Buffalo, U.S. Borland, E. B., Orono. Brendon, F., Brantford Bray, Wm. T, Dingle Bruce, Robert C., Cobourg Berry, James G., Belleville Blackader, D. R., Brantford Bain, Thos. B., Tilsonburg.. Boulton, Hy. C., Exeter Buck, A. C., Caledonia ... Barker, W. T.. Trenton Browne, Jpo. E., Thorold Blaicher, C., Hamilton Baines. Jan, Prescott

Birks, Geo., Prescoft Burnell, Chas. R., Belleville Bauld, E. H., Watford Bower, Anson P., Lakefield Beeton, W. B., St. Catharines Bell, A. W., Newboro Bowden, Hugh K., Prescott Bell, Wm., Peterboro' Beaton, D. J., Stayner Bogart, W. B., Carleton Place Bond, J. R., Schomberg Brydon, Wm., Toronto Berry, G. W., Lucknow Beeton, J. E., St. Catharines Bower, Joshua, Napanee Brierley, Richd., Hamilton Boswell, E. J., Prescott Byrne, Jas., Whitby Buck, C. A., Caledonia Boyle, Arthur, St. Catharines Bywater, R. E., Colborne Bywater, R., Klineburg Bright, J. C., Chatham Bannister, Ed., Brampton Blume, Michael, Toronto Brett, R. G., Watford Browne, Wm., Owen Sound Breden, Robt., Toronto Casselman, C. T., Winchester Colcleugh, Jas., Mount Forest Charters, James A., Belleville Chandler, Edmund, Belleville Chandler, Edmund, Jr., Belleville Cottrell, G. W., London Coombs, John S., Perth Coad, Jas., Woodstock Card, W, A., Orono Combe, James H., Clinton Callard, Jno., Sparta Connor, H. E., Aurora Corbet, R., Rosemount Clarke, Jas., Belleville Cattle, Geo., Goderich Chapman, Jno., Chatham

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Huffman, J. C., Napanee

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 - Hooper, Chas. E., Toronto X Hamilton, A., Hamilton Hey, Thos., Ailsa Craig Hallamore, Jno., Toronto Hayward, Wm., Guelph Hambly, Jas. H., Belleville Hobart, G. S., Kingston Holden, Jno. F., Ingersoll Higman, Rich., Ottawa Holliday, David, Carleton Place Haldenby, Wm., St. Catharines Hildreth, Dr. T. R. F., Grafton Heakes, Jas. R., Toronto Hutton, Dr. J., Forest

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MAGNIFICENT FLOURESCENCE OF PEPPERMINT OIL .-- Professor luckiger, in the Pharmaceutical Journal and Transactions, says, ty to seventy drops of peppermint oil shaken with one drop of itric acid (1.2 sp. gr.) turn faintly yellowish brown, and after an our or two exhibit a most beautiful blue, violet, or greenish blue When observed in olor, when examined in (transmitted) light. flected light the liquid is of a copper color, and not transparent. he coloration may be made immediate by warming or using a larger pantity of nitric acid (gtt. 10-19). All specimens of the oil which e professor has tried responded perfectly to the reaction, except a ry old sample of English manufacture. The color is very perstent, lasting a week or two in the cold. Five per cent. of mentine in the oil does not interfere with the reaction. The only her oil which behaves at all similarly is carbol, the lighter portion of coil of caraway, but its coloration is very much less pure and intense.

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Editorial.

THE NEW COUNCIL.

The official report of the Registrar, in which the result of the recent election is stated, will be found in another part of this Journal. There is every reason to believe that the selection is a g_{00d} one, and that under the new Council, the career of the College will be as prosperous as its auspicious commencement would lead us to hope for.

There is no lack of work to be done, and it is highly necessary that it be entered upon at once. Although fully recognizing the value and extent of the labors which have been performed by the old Society and the Provisional Council, it will be necessary to remember that a foundation, only, has been laid, and that the development of the plan and the erection of a worthy superstructure claim imms diate attention; otherwise, the elements of decay will not be slowing manifesting themselves, and, of all ruins, that of a foundation whereon building never stood is certainly the most deplorable.

We had intended offering a few suggestions as to a plan of work but the limited space at our diposal in the present issue necessitate the laying over of the subject until next number. We think it work be well for members of the society to express their views on the bes course to be pursued, and by thus learning the general opinion, the Council will be the better able to proceed in a manner satisfactory all.

No. 1. New SERIES.—We are sorry that we are unable to a nish any more copies of the August number of this journal, as supply is completely exhausted. In view of the demand for the issue by parties who have become connected with the College during the past few months, we have determined to reprint it if a sufficient number of names are sent in to justify the outlay. The price we be twenty-five cents; members wanting copies will please apprise at once.

Editorial.

THE BRITISH PHARMACEUTICAL CONFERENCE.

We learn from the Pharmaceutical Yournal of London, that this meeting, which took place in Edinburgh, was, in every respect, a success. After the delivery of the address, by the President, Mr. W. W. Stoddart, F.C.S., F.G.S., a large number of papers were read, some of which, we hope, in due course, to present to our readers: at present we merely give an enumeration of the titles-On some oxidation products of essential Oil of Orange Peel, by Prois. Wright & Piesse; reports on the Chloral of Commerce, by Mr. Mason and Mr. Muir; Pharmaceutical Notes on Rhamnus Frangula, he H. C. Baildon; the Compound Iron mixture of the B. P., by C. A Staples; on the purity of Permanganate of Potash, by Prof. Allen, F.C.S.; on the use of Blistering Flies in Hydrophobia, by H. Groves; on Solutions, by T. B. Groves, F.C.S.; the crystalline minciples of Aloes; and on Wild Rue, Semen Harmalæ, by Dr. Enckiger; on Linseed and Linseed Meal, by Mr. Greenish; two appers by Mr. Staples-the Tincture Press, and on a mode of obaming Distilled Water; a second paper on the Crystalline Priniples of Aloes, by Messrs. T. & H. Smith; on Pharmaceutical Ethics, Wr. Atkins; the Preparation of Liquor Bismuthi, by C. H. Wood; and on Pharmacopœial Nomenclature, by C. R. C. Tichborne.

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The annual Conversazione was held in the rooms of the Mucum of Science and Art. It is estimated that over fourteen hun-W01 edladies and gentlemen were present, and, amongst other distinitate nished visitors may be noted his Majesty, the Emperor of Brazil. Nor

The following gentlemen were elected office bearers for the resent year: President-Mr. H. B. Brady ; Vice-Presidents-Messrs nyt Reane, Hanbury, Stoddart, Bentley, Ince, Williams, Reynolds nd Savage ; General-Secretary-Mr. F. B. Benger.

The proceedings were appropriately brought to a close by the mual dinner, which was provided at the Royal Hotel Amongst to the toasts of the evening was that proposed by Mr. Hanbury, " The harmaceutical Associations of America and Canada," which was ast t to plied to by Dr. Edwards. We are glad to see that the parent lum ciety has not forgotten her colonial children, and on behalf of the fice stario College we would gratefully acknowledge the compliment.

The Pharmaceutical Society of Great Britain numbers 1,878 embers.

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Editorial Summary.

LIN. SAPO, U. S. P.—I. C. Wharton (Am. Jour. Pharm.) recommends the following as being more expeditious than the official process, besides avoiding the application of heat and consequent loss of spirit, and also danger from fire:

Soap, in pieces	Four trovounces.
Camphor	Two troyounces.
Oil of Rosemary	Half a fluidounce.
Water	Four fluidounces.
Alcohol	Two pints.

Beat the soap in a dry mortar until the lumps have disappeared then add by degrees the water and triturate; when well mixed at the alcohol gradually, afterwards the camphor and oil of roseman rubbing with the pestle till all are dissolved, and filter through paper

ESSENTIAL OIL OF ORANGE PEEL .--- In the report of the meeting of the British Pharmaceutical Conference, we notice a short paper Messrs. Wright and Piesse, "On the oxidation products of essentia oil of Orange Peel." The sample examined was furnished by Messa Piesse and Lubin, and was of undoubted purity, but whether obtain ed from the bitter, or sweet orange, does not appear. It was four to consist, principally, of a hydrocarbon, hesperidine, having the formula C₁₀ H₁₆. When subjected to the action of heat it com menced to boil at 175°, and 97.2 per cent. came over below 150 The remaining 2.8 per cent. was a yellow, resinous substance, m volatile without decomposition; sparingly soluble in hot alcohol In water it was almost insolub but dissolving readily in ether. but communicated to it the bitter taste of the peel. After beinge tirely freed from hesperidine, by continued heating to 100°, it g the formula C20 H30 O3. When hesperidine was treated with m luted nitric acid a violent action ensued, a viscid, tarry substan being formed ; a more dilute acid acted more slowly. By proiong boiling, carbonic acid was for some time evolved, at length cere altogether, when the hydrocarbon was converted into a brown a containing a large quantity of nitrogen, and apparently formed in

the original body by addition of oxygen and replacement of hydrogen by NO₂. Further experiments were made which showed the all to be readily acted on by oxidizing agents, which fact will account for the difficulty experienced in pre~erving the oil unchanged for any length of time.

Answers to Correspondents.

H. P. S.—CANTHARIDES.—The little mite which has attacked four flies is, most probably, the *Acarus domesticus*. A few drops facetic acid added to the bottle containing the cantharides will be found the best preservative.

Student.—The price of Pareira's Prescription Book is \$1.25. The Pharmaceutical Latin Grammar is not to be had in this city, at perent, nor can we tell you the exact price at which it would be sold ere; the price in England is five shillings sterling.

Binder, Chatham.—The bookbinders say that the advertisement ages being connected with the body of this journal, will occasion no convenience in binding the volume.

found R. H. \mathcal{F} -LIQ. FERRI PERNITRATIS.—We have never experig the need any difficulty in making an article that will remain free from comparison diment, and think that your trouble arises from want of proper 173 tention to the strength of the acid employed. That indicated by e, m e B. P. is, of course, of specific qravity, 1.42, which contains 70 column cent. of real acid HNO3. It is obvious that if commercial hulf d of sp. gr. 1.22, containing 35 per cent. of real acid be employed, age thout due allowance being made for the difference in strength, the gravity the blame must rest on the right shoulders. The hydrometer stars is specific gravity bottle are too much neglected in this country, constituent is cause great disappointment and loss frequently result. east Your plan of adding a quantity of hydrochloric acid to the liquor tes lkogether inadmissible and needless. Of the two processes—the limited States and British—we think the former gives the most satis-

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Books and Pamphlets.

factory results. In this, the iron and part of the acid are placed in contact, and the action moderated by attention to temperature; the solution is filtered, heated to 130° , and the remainder of the acid added, the gas being driven off by the application of heat.

Dispenser .- NATIVE AND IMPORTED WINE .- It would certainly be quite improper to dispense native grape wine, of your own m any other manufacture, in a case where Vinum rubrum was ordered With the prescriber's consent, it would, of course, be correct enough Canadian wines, at least, as far as our experience goes, are mainly deficient in alcohol. This arises from the want of sufficient suga in the grape employed, which is, generally of that variety known? the Clinton. The addition of sugar to the unfermented juice would remedy this defect; or it may be that the choice of a sweeter gray as the Delaware-would be equally advantageous. Native wine rarely contain more than 10 per cent. of spirit, while imported Pe is stated to contain from 20 to 25 per cent. of alcohol of sp.g .825 at 60° F., which is equivalent to 32 to 40 per cent. of pro spirit. As any good effects which a patient might realize from the use of wine depend mainly on the stimulating effect of the spin the great difference in this respect between the native and foreit varieties preclude any attempt at substitution; at all events equal doses.

Books and Pamphlets.

CHEMISTRY, GENERAL, MEDICAL, AND PHARMACEUTICAL, cluding the Chemistry of the U. S. Pharmacopæia.—A man on the General Principles of the Science, and their Applications Medicine and Pharmacy, by JOHN ATTFIELD, Ph. D., F.C.S., From the second and enlarged English edition, pp. 552. Ph delphia: Henry C. Lea, 1871. Toronto: Copp, Clark & Co.

When the original English edition of this work was publis we had occasion to express our high appreciation of its worth, also to review, in considerable detail, the main features of the As the arrangement of subjects, and the main part of the text of present edition are similar to the former publication, it will be

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Practical Formulæ.

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less for us to go over the ground a second time; we may, however, cell attention to a marked advantage possessed by the American work -we allude to the introduction of the chemistry of the preparations of the United States Pharmacopœia, as well as that relating to the British authority. To Canadian students this addition is of particular importance as, in this country, we have to do with preparations belonging to both standards, and a knowledge of the chemistry of each is absolutely necessary to those who would render themselves thoroughly proficient in their calling.

We would simply recommend this work as the best with which we are acquainted; either as accompanying a course of lectures on pharmacopœial chemistry, or as a guide to the self-taught student. To the pharmacist it will prove a very useful counter companion, indeed, we may say that the shop library is incomplete without it.

A TREATISE ON PHARMACY, BY EDWARD PARRISH. Third Ediim.—Philadelphia, Henry C. Lea ; Toronto, Copp, Clark & Co.

Parrish's *Pharmacy* is so well known that it is needless for us specialize. As a thoroughly practical work relating to the every ay duties of the shop it has certainly no equal. The apprentice, he assistant, as well as the accomplished pharmacist, can each find istruction and pleasure from a perusal of its pages. It is, without what, the most *useful* book which the druggist can possess.

The present edition embraces the latest additions to pharmaceucal science, and is in all respects up to the times. An idea of its rope may be conceived from the fact that the index contains over 700 references, and the text extends over 850 pages.

Practical Formulæ.

Silver Soap :		
Hard Soap	8	oż.
Turpentine		
Water		٠٠
Boil until perfect solution, and add	•	
Liq. Ammonia	3	0 Z .

Selections,

Liquid for the Preservation of Wet Anatomical Preparations.

Dr. B. Titcomb, of Maryland (*Trans. Am. Med. Association*), advocates the subjoined method for keeping objects of pathological anatomy and for the purpose of dissection: First place the object in a vessel containing pure water; let it remain a few hours, or over night, then transfer it to another containing a solution of creasote, 3ij. to f 3xij. of water; let it remain over night, then place it in a jar or vessel containing a liquid of the following proportions:

R.	Chloride of sodium,		
*	Sulphate of alumina,	5 ice .	
	Nitrate of potassa,		
	Aqua,f		
	Chicae	o Medical	Time

Method of Rendering Wooden Taps Impervious to Liquids, and Preventing their Cracking.

Dr. E. Kopp.—The taps are placed in molten paraffin heats to from 110° to 120°; by this means the water is eliminated from the wood, and the wood becomes thoroughly impregnated with par affin. The taps are not removed from this bath until all the aque ous vapour has been expelled and left, after the removal of the ves sel from the fire, in the molten liquid up to the very moment the paraffin begins to solidify. Wooden taps thus prepared are very durable, do not become soaked with liquids, keep very tight, and a not liable to become mouldy. The excess of paraffin is wiped with care, and the taps are next rubbed clean with a piece of flanned —*Chemical News*.

Selections.

ANTIDOTE TO CANNABIS INDICUS.—Prof. Polli, of Milan, state "Experience has proved that infusion of coffee, of tea, and of cou always increase the action of hashish; so that if it is wished accelerate or to augment its effect, it should be taken or administer in an aqueous infusion of one or other of these vegetable substance

"Lemon-juice and vinegar, and, consequently, citric, main a acetic, and tartaric acids, in aqueous solution, more or less dilute arrest the effects of hashish in a person who has taken it, and the are competent to serve as real antidotes.

"It will then be useful in making a trial of hashish, and esticially in the treatment of certain nervous maladies by hashish, a cases where one does not as yet know the susceptibility of the s

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jet, to know that one has, in the lemonades of these acids, more or less concentrated, powerful, and at the same time innocent moderators of the nervine action of hashish.

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"I confess that it is not from my own personal experience that Ihave confidence in the preservative action of the vegetable acids against the injurious effects of hashish; but solely from the experience of the Egyptians, who have assured me that it always succeeds with them, and from the testimony of Dr. Castelnuovo, who lived for a long time at Tunis, where he convinced himself of the antidotic value of lemon-juice and strong lemonades against hashish."—Med. Press and Circular, Dec. 22, 1869.

THE NATURE OF DIFFERENT GUMS.—Dr. Sacc, of Neuenberg, Switzerland, has made an extensive inquiry into the nature of the different resins. We condense from it thefollowing results:—The

resins spoken of are copal, amber, dammar, common resin, shellac, lemi, sandarach, mastic, and Caramba wax. All these resins can be reduced to powder.

The following will become pasty before melting:—Amber, hellac, elemi, sandarach, and mastic; the others will become liquid tonce.

In boiling water, Caramba wax will melt; common resin will mm a semi-fluid mass; dammar, shellac, elemi, and mastic will come sticky; while copal, amber, sandarach will remain unhanged.

Dammar and amber do not dissolve in alcohol; copal becomes asy; elemi and Caramba wax dissolve with difficulty; while resin, relac, sandarach, and mastic dissolve easily.

Acetic acid makes common resin swell; on all others it has no fect.

Caustic soda dissolves shellac readily, resin partly; but has no fluence on the others.

Amber and shellac do not dissolve in sulphide of carbon; copal comes soft and expands; elemi, sandarach, mastic and Caramba ax dissolve slowly; while resin and dammar dissolve easily.

tate Oil of turpentine dissolves neither amber nor shellac, but swells 2000 pal; dissolves dammar, resin, elemi, sandarach, and Caramba ed ar easily, and mastic very easily.

ster Boiling linseed oil has no effect on copal, amber, and Caramba ante as; shellac, elemi, and sandarach dissolve in it slowly, while dammal ar, resin and mastic dissolve easily.

luta Benzol does not dissolve copal, amber, and shellac, but does justimi, and sandarach to a limited extent, and Caramba wax more sily; while dammar, resin, and mastic offer no difficulty.

es Petroleum ether has no effect on copal, amber, and shellac; it sh, a poor solvent for resin, elemi, sandarach, and Caramba wax, and es good one for dammar and mastic.

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Trade Report.

Concentrated sulphuric acid is indifferent to Caramba wax; it dissolves all resins, imparting to them a dark brown color, excepting dammar, which takes a brilliant red tint.

Nitric acid imparts to Caramba wax a straw color; to elemi, a dirty yellow; to mastic and sandarach, a light brown; it does not affect the others.

Ammonia is indifferent to amber, dammar, shellac, elemi, and Caramba wax; copal, sandarach, and mastic become soft, and finally dissolve; while resin will dissolve at once.

It is not difficult, by means of these reactions, to test the different resins for their purity. *Dingler. Polytech. Journal.*

CARBOLIC ACID IN PLANTS.—Carbolic acid, it is reported, has been extracted from the Andromeda Leschenaultii, a common plant growing abundantly on the Neilgherry hills, in the East Indies. The acid which has been extracted from this plant by Mr. Broughton, the Government of cruist, difers in some respects from that obtained from coal tar, being less delique scent and far more pure. It is therefore believed that this new product would be an excellent substitute for ordinary carbolic acid for administering as a medicine. Although the plant is inexhaustible the process of extraction of the acid is costly, and this fact will interfere with its use. The East India Government, however, considers the discovery as important, since tare of war the supply of carbolic acid would not depend on America-Ibid.

MARKET REPORT.

During the latter part of the month, business has improve considerably, having previously been very quiet. Fall stocks ar rapidly coming to hand. Changes are numerous, and general tend upwards; this is especially true in regard to chemicals, which are very firm at higher rates.

Tartaric Acid has not been quoted higher in our list, but wi probably advance very much. Ammon Carb. and Liq. Ammon a greatly advanced at place of manufacture, and must sympathize her Cantharides are much higher, and still rising; Scammony is als higher; Iodine and all Iodides are still going up; Solazzi Licon Mercurials, Oil Lemon, Oil Orange, Oil Sassafras, Chlorate Potas are all higher.

We quote lower Bals, Tolu, Bismuth, Gum Myrrh, Morphie Oil Citronella, Cod Liver Oil, and Rhubarb.

In Spices, Nutmegs, and Black and White Pepper are advance the latter article to nearly double ordinary rates.

Spirits Turpentine has continued its vagaries, and our reader may make up their minds to pay very high prices for that for winter and spring use. WHOLESALE PRICES CURRENT -- NOVEMBER, 1871.

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WHOL	ESALE P	RICE	8 00	RRENT,NOVEMBER,	1871	•
		-				
DRUGS, MED		S c.	S. C.	DRUOS, MEDICINES, &cContd.	Sc.	Şc.
Acid, Acetic, for	t ure	0 12 (0 14 0 35	" Sang Dracon	060 650	070 675
" Citric		0 90	0 90	" Scammony, powdered " Virg. "	14 50	
" Muriatic .		0 04	0 ō6	II " Shellac Orange I	0 43	o 45
P Nitric		0 11	0 15	Gum, Shellac, liver	0 38	0 40
; it " Oxalic		0 26	0 30	" Storax " Tragacanth, flake	0 65 1 10	075 140
ling " Tartaric, n	1117	0 40	0 42	" common	0 35	0 40
Ammon, carb.	casks	o ig	0 20	Galls	0 27	0 32
	jars 880	0 19	0 20	Gelatine, Cox's 6d	1 10	1 20
. Muriate.		0 19 0 12]	025 015	Glycerine, common Vienna	0 ≏5 0 30	030 040
1101 "Nitrate.		0 45	0 60	" Prices	0 60	C 75
Ether, Acetic .	<i>.</i>]	0 45	0 50	" Honey, Canada, best.	0 15	0 17
and u Suichnri	c	0 27 0 45	030 050	Iron, Carb. Precip	0 14 9 20	010 025
11 Latim Crude D	1117	0 13	0 17	ll " " Sacchar	0 40	0 55
nally Antim. Crude, p	"	0 50	o 55	" Citrata Ammon	I IO	I 20
Alcohol, 95 per	ctCash	1 62	I 72	" " & Quinine, oz	0 50	0 60
the Anowroot, Jan	laica	0 19 0 45	022 065	" " & Quinine, oz " " & Strychine " " Sulphate, pure !! Godine, gocd !! Resublimed	0 17 0 08	025 010
Alum		0 021	0 031	Iodine, goed	9 50	
Balsam, Canada	1 /	0 24	0 35	" Resublimed	10 00	
" Copaiba		0 68	0 75	Jalapin Kreosote	140 160	I 60
en ex " Tolu		4 00 0 90	4 20 I 00	Leaves, Bi vu	0 2 j	1 70 0 30
ahund. Rark, Bayberry,	pulv	o 18	0 20	Leaves, B. u " Fost love " Henbane	0 25	0 30
" Canella .		0 17	0 20	"Henbane	0 35	0 40
st, dif.	yel. pulv red "	0 45 I 40	0 50 1 80	" " R T	0 30 0 12 1	060 020
- traine " Supperv I	um. g. b	0 15	0 20	" " Tinnevilly	0 20	0 30
andelle it in t	lour, packets	0 28	0 32	" Uva Ursi	0 15	0 15
Toutu Sassairas	s, ground	0 12 0 20	0 15	Lime, Carbolatebrl "Chloride	5 50 0 05	0 06
,tering Berries, Cubebs	Γ	0 00	0 25 0 10	" Sulphate	0 03	0'12
extrac-	r	0 62	I 10	Lead, Acetate	013	0 IS
e East "Vanilla.		16 00	17 00	Leptandrinoz.		~~
ince in Bismuth, Alb		4 20 4 20	500 500	Liq. Bismuth	0 50 I 50	075 200
fica Camphor, Crud	e	0 38	0 49	Liquorice, Solazzi "Cassano	იკა	0 55
" Refin	ed	0 50	0 55	" Cassano " Other brands	0 23	0 40
" Powe	lered	220 230	2 30 2 20	Liquorice, Refined	0 14 0 35	025 045
Charcoal, Anim	al	0 04	0 06	Magnesia, Carb I oz.	0 20	0 25
	d, powdered	0 10	0 15	() " " ······· 4 oz.		0 20
Chloroform		0 25 I 00	030 150	" Calcinedgran."	0 65	075 050
Cechineal, S. C		o 80	0 00	Mercury	IOD	015
Blac	k	1 00	I 20	Bichlor	1 00	
Calledion		050 067	0 60 0 70	" Chloride " C. Chalk	1 30 0 60	_
Elaterium		4 50	5 00	" Nit. Oxyd	I 30	
ks alt Ergot		0 65	0 75	Morphia Acet	3,0	4 00
leral " Colocy	onna nth, Co	22. 125	2 50 I 75	" Mur. " Suiph	3 70	4 00 4 40
which Gentia	n	0 50	I 75 0 60	Musk, pure grainoz	21 00	
"Hemlo	ck. Ang	1 12	1 25	" Canton	0 90	1 20
" Ialap	ne, "	1 70	2 00	Oil, Amonds, sweet bitter	0 50	0 52 15 00
At war Mandr.	ake	5 00 I 75	5 50 2 00)] " Anisced	3 80	4 00
n an an Nux V	omic	0 60	0 70	" Bergamot, super	5 00	5 25
			iable.		4 00	4 20 2 20
ic als " Sarsap	rb Hon. Co Jam. Co	7 50 I 00	1 20	" Cassia " Castor, E. I " Crystal " Italian	0 13	0 14
s als " Sarsap	Jam. Co	3 25	3 70 0 80	" Crystal	0 22	0 25
CON Taraxi	cum, Ang	0 70		" Italian	026 110	0-28
"Olda " Chamo	mile	0 25 0 30	035 040	" Cloves, Ang	1 10	I 50 I 00
fum, Aloes, Ba	rb. extra	0 70	o 80	" Cod Liver	1 20	I 50
	" good	0 12	0 50	" Croton	2 00	2 10
	pe powdered	0 12 0 20	020 030	" Italian" " Citronelia" " Cloves, Ang" " Cod Liver " Croton" " Juniper Wood" " Berries	080 600	1 00 7 00
. " So	cot	0 20	0 80	Lavand, Ang	16 00	17 60
ncie "	"- Duly	0 90	1 00	" " Exotic	140	1 60
" Arabic, WI	" powdered	0 60	065 055	" Lemon, super	5 00 2 80	520 300
eade " " sort	8	0 50 0 28	0 30	" Orange	3 20	\$ 50
	powdered	0 42	0 50	" Origanum	0 65	o 75
	a. Gedda	0 13	016	" Peppermint Ang " " Amer	13 00	14 40
British or	Dextrine	0 31 0 13	035 015		3 00 7 75	3 25 8 00
" Benzoin		o 48	0 55	" Rose, Virgin	5 50	6 oo
" Catechu	mularad	0 12	0 15	Jassairas	1 00	I 10
" Euphorb p	wdered	025 032	030 040	" Wintergreen " Wormwood, pure	5 50, 5 80	7 00° 6 50°
Gamboge .		1 05	I 20	[Ointment, blue	076	0 80
Guaiacum.		0 38	0 87	Opium, Turkey	6 00	6 25
My111	•••••	0 42	0 60	l " pulv	8 00	10 00

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DRUGS, MEDICINES, &cCont'd	Şc.	Şc	Dyestuffs-Continued.		
Orange Peel, opt	0 30	0 30	Ianonica	0 05ł	0.001
" good	0 12	0 20	Japonica Lacdye, powdered Logwood. Logwood, Camp	0 33	0 05 <u>1</u> 0 38
Pill, Blue, Mass	0 80	0 85	Logwood	0 02	0 03
Potash, Bi.chrom	0 25	0 27	Logwood, Camp	0 02	03
" Bi-ta-t	0 27	0 28		0 10	0 14
" Carbonate	0 14	0 20	" " r lb. bxs	0 14	
" Chlorate	0 55	0 55	" " <u>1</u> 1b. "	0 15	-
" Nitrate	10 50	11 00	Instaduci, Dest Dutch	0 16	0 17
Potassium, Bromide	1 15	I 50	" 2nd quality	0 15	0 16
" Cvanide	0 75	0 80	Quercitron	0 03	0 05
" lodide	900	9 25	Sumac	0 00	0 03
" Sulphuret	1 0 25	0 35	Tin, Muriate	0 10]	0 121
Pensin, Boudault's	1 1 50		Redwood	0 05 [°]	0 05
Houghton's doz.	8 00	9 00	SPICES.		
** Morson's	0 85	1 IO	Allspice	0 8!4@	70.10
Phosphorus	0 75	0 85	Cassia	0 38	0 40
Podophyllin Quinine, Pelletier's "Howard's	0 50	o 6o	Cassia Cloves		0 15
Quinine, Pelletier's	- 1	2 25	Cavenne	0 18	0 23
" rioward's	2 20	-	Gingér, E. I	0 12	0 14
100 02. Case.	2 15		"]am/	0 20	0 30
25 0Z. 11n	2 15		Mace	I 45	1 50
Root, Colombo	0 13	0 20	Cloves Cayenne Ginger, E. I "Jam Mustard, com Nutrnegs Pepper, Black "White	0 20	0 25
Curcuma, giu	0 121	0 17	Nutmegs	IOS	1 10
Dangenon	0 25	0 35	Pepper, Black	019	0 20
Liccampane	0 14	0 17	" White	o 25	0 23
" Gentian " " pulv	0 10	0 12 <u>4</u> 0 20	PAINTS, DRY.		
Duiv	0 15	0 20	Black, Lamp, com	0 07 @	60.03
" Hellebore, pulv " Ipecae, "	2 20	2 30	" " refined	0 25	0 30
" Ipecae, " Jalap, Vera Cruz " " Tampico " Liquorice, select :	1 35	1 60	Blue, Celestial	0 05	0 12
" " Tampico	0 90	1 00	" Prossian	0 65	0 75
" Liquorice select	0 11	0 13	Brown, Vandyke	0 10	0 125
" " powdered	0 15	0 20	Chalk, White	0 01	0 (1)
" Mandrake "	0 20	0 25	Brown, Vandyke Chalk, White Green, Brunswick	0 07	0 10
" Orris, "	0 20	0 25	" Chrome	o 16	0 25
" Rhubarb, Turkey	3 50	~	" Paris	0 25	035
4 4 7 7	7 70	2 00	" Magnesia	0 20	0 25
" puly	1 40	2 50	Litharge	0 06	0 03
" " " 2nd	I 30	1 50	Pink, Rose	0 1212	0 15
" " French	0 75	÷	Red Lead	0 0612	0.08
··· Sarsap., 110nd	0 40	0 45	Venetian	0 02 32	
iam	088	0 90	Sienna, B. & G	0 10	0 15
" Souills	0 10	0 15 ¹	Litharge Pink, Rose. Red Lead "Veretian Sienna, B. & G. Umber. Vermilion, English "American Whiting	0 07	0 10
" Senega " Spigelia	I 70	1 80	Verminion, English	1 15	I 25
" Spigelia	0.48	0 50	American	0 25	0 33
Sal., Epsom	2 25	3 00	Whiting	085 003	0 99
Rochene	0 26	0 35		0 07	00
" Soda	0 013	0 03	" " No. 2	0 05	0 03
Seed, Anise	0 13	0 16	ow Chrome	0 1214	007 033
Gilidi V.	0 05	0 00	" Ochre	0 02	
Cardamon "Fenugreek, g'd" Hemp	3 50	3 75	Zinc White, Star	0 10	0 12 .
H Hanne	0 08	0 10			•
" Muchard white	0 064	0 16	COLORS, IN OIL. Blue Paint	0 10 <i>(</i> â	
Safiron American	0 14 2 00	2 50	Fire Proof Paint	012@ 015	06
" Spanish	17 00	18 00	Green Paris	0 30	0 375
" Mustard, white Safiron, American " Spanish Santonine	9 50	10 00	Green, Paris Red, Venetian Patent Dryers, t lb tins	0 07	0 20
Sago	0 071	0 00	Patent Dryers, 1 lb tins	0 11	0 ::
Silver, Nitrate Cash	14 85	16 50	Putty	0 03}	οuš
Sago Silver, NitrateCash Soap, Castile, mottled	0 10	0 14	IVellow Ochre	20.0	0 12
Soda Ash "Bicarb. Newcastle "Howard's	0 03	0 04	White Lead, gen. 25 lb. tins	2 30	- 1
" Bicarb. Newcastle	4 50	4 50	" " No. 1	2 10	
" " Howard's	o 14	0 16	." " No, 2	I GO	- 1
		0 05	" " No. 2	1 Ö5	- 1
Spirits Ammon., arom Strychnine, Crystals Sulphur. Precip "Sublimed	0 25	0 35	" " cam	I 30	_
Strychnine, Crystals	2 20	2 50	White Zinc, Snow	2 75	3 = 5
Suipnur. Precip	0 10	0 12k			
Sublimed	0 03	0 05	Black Pitch Rosin, Strained "Clear, pale Spirits Turpentine Tar Wood Oils.	4 00 @	
		0 043	KGSIN, Strained	4 80	500
Vinegar, Wine, pure Verdigris Wax, White, pure Zinc. Chloride	0 55	0 60	Cicar, paie	9 00	10 (3)
War White pure	0 35	040	Tas Wood	0 Sz	0 \$1
Zing Chloride	0 75	0 80	Ons.	4 50	4 75
" Sulphate, pure	0 10	0 15	Cod	o 58@	o ío
" common	0 06	0 15 0 10	Lard, extra	100	~ <u> </u>
DYESTNERS		0.10	1 " No.7	20.0	: 00
Annatto	o 35 @	2060	" No. 2	0 85	0 00
Analine, Magenta, cryst.	3 25	4 00	Linseed, Raw	0 75	0 50
Annatto Analine, Magenta, cryst """liquid	2 00		Linseed, Raw	0 50	0 85
Argels, ground.	0 15	0 25	Olive, Common	1 15	13
Argels, ground Blue Vitrol, pure	0 05	0 10	" Salad	1 50	2 32
Carnwood	0 05	0 09	" " Pints, cases	4 20	4 49
Camwood Copperas, Green	0 01	0 021	" " Pints, cases	3 60	300
Cudbear	0 16	0 25	Scal Oil, Pale	0 65	0 75
Fustic, Cuban	0 02	0 04	Scal Oil, Pale	0 CO	0 (5
Indigo, Bengal	2 40	2 50	Sesame Salad	I 30	1 35
" Madras.	0 55	I 10	Sperm, genuine	1 90	2 CO .
Gudbear Fustic, Cuban Indigo, Bengal "Madras Extract	0 28	0 35	Sperm, genuine Whale, refined	0 75	0 50

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ONLY SILVER MEDAL AWARDED. PARIS EXHIBITION. 1867. JUROR, 1862.

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PEPSINE

The active digestive principle of the gastric juice; an agreeable and popular remedy for reak digestion. In Powder, Wine, Lozenges, and Globules.

PANCREATIC EMULSION.

Supplied in bulk for Dispensing Purposes.

PANCREATINE.

la powder, containing the active principle obtained from the Pancreas, by which the digestion at assimilation of fat is effected.

HYDRATE CHLORAL,

(NEW SEDATIVE.)

Chlorodyne,

(Morson's) the universally approved anodyne.

Saccharated Wheat Phosphates, A valuable dietetic preparation for invalids and children, supplying the elements for the formatica of Bone.

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(Caution)-from Wood Tar, of which T. M. & Son are the only British Manufacturers. GELATINE,

ARTIFICIAL ESSENCES for flavoring. CHLOROFORM and other Preparations.

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Morson's Medicinal Pepsine, or Digestive Powder,

Contains the active digestive principle of the gastric juice of the stomach, purified and rendered remanent and palatable. Dose, 15 to 20 grains. MORSON'S PEPSINA PORCI,

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For sale by the Wholesale Druggists.

Harte's Florida Water.

Price, \$3 50 and \$2 00 per Dozen.

PARODEE'S EPILEPTIC CURE.

The subscriber would draw the attention of the trade to this article, which he guarantees will give satisfaction to all who give it a trial.

PRICE, \$7 00 PER DOZEN.

LAURIE'S IMPERIAL FOOD.

PRICE, SI 75 AND \$3 50 PER DOZEN.

ENGLISH RAT EXTERMINATOR. ŞI PER DOZ. ŞIO PER GROSS. J. A. HARTE, Druggist, Montreal.

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Oil Cans,

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per							
	DISTILLERS of Essential OILS, DEALERS IN						
	PATENT MEDICINES,						
	Surgical Instruments and Appliances,						
	GLASSWARE PAINTS, COLORS, AND DYES,						
	CONFECTIONERY, MEDICAL BOOKS, SHOP FITTINGS,						
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5,	DRUGUISIS SUNDRIES.						
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ši.	62 KING STREET EAST, TORONTO,						
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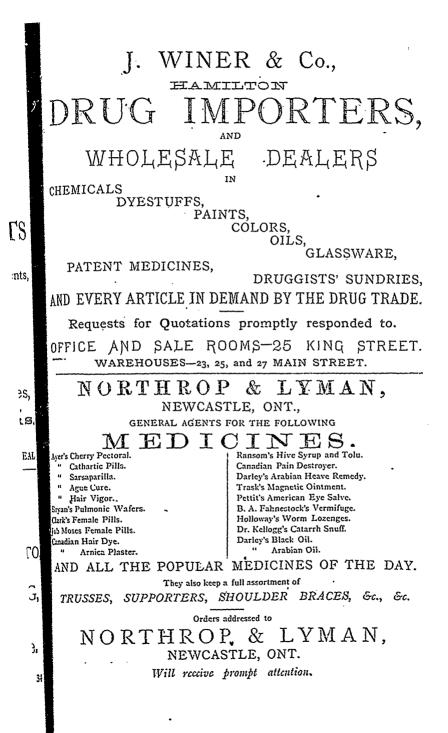
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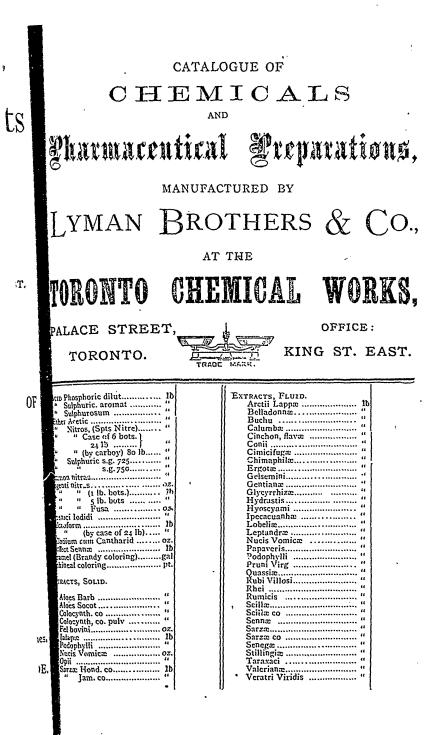
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AND EVERY REQUISITE OF THE RETAIL DRUG TRADE.



CATALOGUE OF CHEMICALS.—(Continued.)

Extracts, Liquid. Opii sedativ, (Elixir of) Opium)
Ser.na "
EXTRACTS, FLAVORING. Pear
Pear " Piacapple " Raspberry " Strawberry Vanilla "
Ferri Carb. precip
" et Quiniæ cit"" " Peroxid"
" Sulphas "
" Carb. sacch
lalapin
Jalapin
LIQUORS.
Ammoniæ cet
Antimonii Chlor. (Butter) Antimony
Bismuthi
" fort"
" Pernitrat"" " Persulph"" Plumbi Subacet"
Plumbi Subacet
Magneria Citras Efformes
Magnesia Citras Efferves "
(25 lb. tins.)
PLASTERS.
Beiladonna
Beiladonna
Hydrargyri
Picis
Plumbi
" Nitras 11 Podophyllin oz
Plumbi Iodidoz "Nitras
"Sulphas" "Sulphuret" g ulv. Creta arom
" Ipecae. co
" Rhei co

.

Saini+	Æther	in	-		16
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