The Yale Expositor. DATRY AND POULTRY.

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MICH YALE.

You cannot dream yourself into a character; you must hammer and forge yourself one.

Berlin had nearly a million visitors last year, while Vienna had only 387,-000 and Hamburg 278,960.

Love is the wondrous angel of life that rolls away all the stones of sorrow and suffering from the pathway of duty.

It takes a lifetime of experience to teach us that we are our own best friend; that we are our own worst enemy we never learn.

Nothing simplifies life like obedience. We sometimes think we are beset by problems, that life is a very difficult and complicated affair. It is not really so. All life is simply doing never more than one duty for one mo-

The pressure of trade competition traders with her superiority. The care and ripening of pasteurized and over the commercial world British ex- cream, running of box churus, the comon British manufactures in every im- Mason worker, the preparation of but-

the change? The answer may be read given in this special course. in the fact that the names of nearly There were two factory courses, one eight hundred thousand persons are of three weeks and another of six recorded on the vaccination list of the weeks' duration. These courses pro-

According to reports of a French geological exploring expedition in a artor and cream gathering plans) western Algeria, that country possesses a petroleum bearing basin rich in oil, and resembling in its geological and lactometer, and oil-test churn, structure the petroleum beds of Galicia which is so much used in cream gathand Baku. Our consul at Marseilles cring creameries; pasteurizing both and Baku. Our consul at Marseilles, Mr. Skinner, reports that several companies have already made application to the French government for permission to drive wells in this newly discovered petroleum district.

posted the following notice on a cot-Not long ago an Arizona rancher tonwood tree, not far from his place of abode. "My wife Sarrah has left and instructors. Experts were brought my ranch when I didn't Do a thing to to the schools from time to time to her, and I want it distinkly understood that any Man as takes her in and butter. and Keers for her on my account will get himself Pumped so Full of Led on the care and running of boilers and that some tenderfoot will locate him engines by a competent instructor. for a mineral claim. A word to the There was also practice in pipe-fitting. wise is sufficient and order work on repairing valves, etc.

deadly of late. It is estimated that or factory system in order to attain they have grazed gless and cattle to- and clambered on him until the peofought in the klagdom, which yielded that a large quantity of butter and a crop of 480 deaths. The Chinese way some cheese are made, and will conof "getting even" is more civilized on tinue to be made, in farm dairies. To the celestial empire is as likely as quality of butter and cheese, and of swampy and waste land that is of not to commit suicide on his enemy's thereby receive a better price, a home | no value for anything else. doorstep, in order to do him as great duiry course was carried on in two of an injury as possible. And a sulcide the schools. A competent lady inunder those circumstances in China structor was secured in each case, and really does throw the foe into a ter- the methods followed, and the appararible flunk, owing to the supposed tus and utensils used were inexpensive, had luck such an incident brings to and such as have been found most suitthe householder.

Stanilas Tetara, a widely known as long as they wished. French agriculturist, wheat and other cereals can be protected against the ravages of crows, which are particu- Botanist of the Kentucky Experiment larly fond of the grain when its sprouts Station, in bulletin 70 of that station, are just pushing above the ground, says: by treating the seeds before they are Young chickens are very much tained a larger growth, when they are ance, while on a place just across a

mals are phosphorescent in a high de- trouble is very annoying. It appears uralist, maintains that the quantity renders it ill suited to the raising of of light emitted by such animals is so chickens. The immediate cause of the 'an efficient bull's-eye lantern for use reference to them may be dispensed in hunting through the abyssal dark- with.

of Sciences in Paris, Mr. G. Bonnier feather, or a bluegrass top, and by a presented a note concerning some very twisting motion dislodging and removinteresting experiments in grafting ing the worms does not seem to me plants, the results of which contradict- after considerable experience with the ed the generally accepted opinion that diseased fowls to be practicable for only plants belonging to the same botanical family can be successfully small and so easily injured that it is grafted upon one another. Mr. Bonpler showed that recently plants of en- of the worms by such means. With tirely different families had been grafted with success, for example, the able to give affected chicks more than maple upon the lilac, the kidney-bean upon the castor-oil bean, and the cabbage upon the tomato.

INTERESTING CHAPTERS FOR OUR RURAL READERS.

How Successful Farmers Operate This Department of the Farm - A Few Hints as to the Care of Live Stock and Poultry.

Dairy Schools of Ontario.

During the winter of 1899-1900 three dairy schools, supported by the Ontario government, were conducted in the province-at Guelph, Strathroy and Kingston-all of them being under the direction of Dr. James Mills, President of the Ontario Agricultural college. The courses of instruction were largely the same in each case, although the Central school at Guelph had the benefit of a series of lectures from members of the college staff, and also the advantage of practically judging and handling dairy cows and studying dairy breeds. The courses pursued were practically as follows:

in order to meet the growing demand for good butter makers to take or bearing the will of God. There is charge of factories during the winter months and early spring, each dairy school was open from December to 22.

A practical and thorough training during the last decade has prompted was given in the running of cream Great Britain to utilize an extraordi- separators of different makes, the pasnary method of impressing foreign teurization of whole milk and cream, new scheme is to scatter broadcast raw cream, use of the acid test for perts in matters of trade to lecture bined churn and worker and the portant commercial center of the ter for local and export markets, and other of a practical character; also in testing the milk with the Babcock A high official in Porto Rico gays tester and lactometer, in the use of the that eighteen months ago there were oil test churn, in composite sampling, known to be three thousand cases of and in the making up of factory acsmallpox on the island; in the past counts, so that the students might eight months not a single death from have a thorough knowledge of how to the disease has been reported to the run a creamery properly. There were board of health. What has wrought no examinations and no certificates

vide theoretical and practical instruction in cheese-making and the curing of cheese, butter-making (both sepand preparation of butter for market, milk testing with the Babcock tester whole milk and cream. They also include fermentation tests, the use of starters, dairy bacteriology, agriculture in relation to dairying, and factory secounts, etc.

Discussions on practical dairy topics, led by one of the instructors, was held

Special instructions were also given

manufacture of cheese and butter must | vails to some extent but some poultry The duel in Italy has been very be confined largely to the co-operative men assert there is nothing in it, as a rough man rushed into his presence year 2,400 duels were the highest success, it is also a fact The enraged inhabitant of enable the farmers to produce a finer able for use in farm dairies. Students for this course were allowed to enter According to recent experiments by any time after January 4 and remain

Gape Disease of Youn; Poultry. Prof. H. Garman, Entomologist and

sown with a mixture of coal-tar, pe- troubled in Kentucky with gapes. The troleum and phenic acid. This treat- disease occurs throughout the state, ment, which delays the growth of the but is not uniform in its occurrence, seed for a day or two, but causes no being destructive on one farm, while damage, imparts an odor which is in- farms adjoining are free from it. On sufferable to the crows, but which dis- the Experiment Form at Lexington appears after the sprouts have at- the disease rarely makes its appearpike the majority of the chicks hatched are some seasons destroyed by it. At It is known that many deep sea ani- my own place again, a mile away, the gree, and Mr. C. C. Nutting, discussing that once it becomes established on this phenomenon in the American Nat- land it maintains itself there and thus great as to supply over definite areas trouble is of course the presence of of the sea bottom a sufficient illumina- the well-known gape worm (Syngamus tion to render visible the colors of the trachealis) in the trachea or windpipe. animals themselves. Some cephalo- These worms obstruct the passage of pods are furnished with apparatus air to and from the lungs and thus ocwhich reflects the light from their casion the characteristic gasping movephosphorescent bodies upon the sea ments of the suffering chicks. The bottom over which they float. This symptoms and general nature of the reflecting apparatus is spoken of as trouble are so well known that further

Common Remedies .- The commonly recommended practice of introducing At a recent meeting of the Academy into the trachea a partly stripped very young chicks. The trachea is so impossible to dislodge and remove all the greatest care I have never been temporary relief in this way.

> It has been my experience, however, that chicks generally recover without officially recognized as a breed.

treatment when they are attacked after TALMAGE'S they are half grown, and hence fowls that might from their size be treated successfully with a feather do not require treatment of any sort. It is the very young chicks that suffer most, and the only remedial treatment in Christians Urged to Emulate the Qualitheir case that seems to me to be successful is rubbing the neck from time to time with lard or vaseline thoroughly mixed with a little turpontine (3 parts of the lard or vaseline to 1 part of turpentine). This treatment should begin before the disease makes its appearance. It will not help a chick in the last stages of the disease. Pure turpentine will very quickly kill a chick when rubbed on the neck over the trachea, a fact which I have several times demonstrated on badly affected individuals,

Since my observations on the disease were made I have read a valuable atticle on gapes and gape worms, writen by the French naturalist Megnin. He asserts that the use of pounded gar-He with the usual food has been made | awaken to a new appreciation of propto completely eradicate the disease among phensants in Europe, He had been born with se'f balance. We recommends the use of one garlic bulb envy those people who bear themto ten pheasants each day, and the selves through life without any persame proportion would in all proba- turbation, and we flatter ourselves billity be sufficient in the case of the that however little self control we common chicken. He supplements this | may now have, the time will come, treatment with special care in the mat- under the process of years, when we ter of drinking water, using only pure | will be mellowed and softened and the water and changing it several times a

Poultry Briefs.

Without doubt food flavors egga, but the general market has never found With the market a fresh egg is a fresh egg and its freshness is its out the grace of God in the struggle only standard of relative value. Yet and amid the annoyances and exasthe egg from good wholesome food is perations of life are apt to become far superior to the egg made of all kinds of swill. When the public awakes to this fact there will be an Improvement in the quality of eggs. and not before that time. . . .

The enthusiastic poultryman has it in his power to produce a strain of egg-producers in almost any breed. Some of the breeds that have the best reputation for egg production, such as the Leghorns, Hamburgs and Minorcas, have never been as popular with the great mass of farmers as have the Plymouth Rocks, Wyandottes and Brahmas. In these latter breeds are now found strains of egg producers that are almost the equals of some of the distinctively egg-producing breeds. But this has been brought about only by experimentators, and with poultry the development of strains is slow and rather difficult, owing to the fact that it is small business recording the work of each individual hen for a year or

A practical poultry keeper says of the Toulouse geese that they need little water except for drinking. As foragers they are excellent and make a good living in the wheat stubble. Some object to them in the pastures in early spring, as they feed very close and pull up many of the stalks of grass by the roots. This of course is detrimental to the pasture that cannot spare any stalks of grass. There is a difference of onlylon as to whether or not cattle will graze in postures that have been While the fact is recognized that the fed over by geese. The opinion pretion. Toulouse geese will make use

A communication from the Geneva Experiment Station says:

Butter making is again coming into great prominence as an industry in the dairy sections of New York. Improved methods and increased cleanliness in proud and arrogant and malignant, milk handling, cream ripening and and he said, "Let him that is without churning are making the product of some of our creameries of high quality and great uniformity; but we still fall to reach the standard set by Denmark. Occasional butter faults will crop out even in high grade butter factories and him and said, "What wilt thou that I the product of the state as a whole is far from uniform.

One reason for this difference between New York and Denmark lies in the fact that the Danes make great use of the pasteurizer in their butter making, New York very little use. This is perhaps due to the fact that early trials of the continuous pasteurizing machines in America were not favor-

Experiments made at Geneva in 1899, however, seem to indicate that the fault did not lie in the machines, but in the low temperature used in manipulating them; for at Geneva, using temperatures of 176 degrees F. and 185 degrees F., the germ-destroying power of the machine was most excellent. The numbers of bacteria present were reduced from hundreds of thousands or even millions to two or three hundreds at most, usually to much smaller numbers. Butter made from milk heated momentarily to these high temperatures had very little cooked flavor; and if handled rightly, none at all. Further experiments in making butter from pasteurized milk are to by

Silver Wyandottes are the product of a number of crosses, the most important cross having been the Bud Cochins with the Silver Spangled Hamburgs. They were little known previous to 1870, and were at first called Sebright Cochins. Another cross was subsequently made of the Silver-Spangled Hamburgs with the Dark Brahma, and the results of the two were amalgamated, having been also modified slightly by the addition of some Breda blood. It was not till 1883 that the Silver Wyandottes were

SERMON.

ANALYSIS OF THE CHARACTER OF THE SAVIOUR.

tles Which Were Conspicuous in the Earthly Life and Ministrations of

(Copyright, 1909, by Louis Klopsch.) In this sermon, which Dr. Talmage sends from Paris, he analyzes the character of the Savior and urges all Christians to exercise the qualities which were conspicuous in Christ's earthly life. The text is Romans viii, 9, "Now, if any man have not the spirit of Christ, he is none of his."

There is nothing more desirable than a pleasant disposition. Without it we cannot be happy. When we have lost our temper or become impatient under some light cross, we suddenly er equipoise of nature. We wish we wrong things which are in us now will then be all right, forgetful of the fact that an evil habit in our nature will grow into larger proportions and that an iniquity not corrected will become the grandfather of a whole generation of iniquities. So that people withworse instead of better.

Now, the trouble is that we have a theory abrond in the world that a man's aisposition cannot be charged. A man says, "I am irascible in temper, and I can't help it." Another man says, "I am revengeful naturally, and I can't help it." A man says, "I am impulsive, and I can't help it." And he tells the truth. No man can correct his disposition. I never knew a man by forcee of resolution to change his temperament, but by his grace God can take away that which is wrong and put in that which is right, and I know and you know people who since their conversion are just the opposite of what they used to be. In other words, we may by the spirit of God have the disposition of Jesus Christ implanted in our disposition, and we must have it done or we will never see heaven. "If any man has not the disposition of Jesus Christ, he is none

A Spi it of Gentleness.

In the first place the spirit of Christ was a spirit of gentleness. Sometimes made wrathful utterances against Pharisees and hypocrites, but the most of his words were kind and gentle and loving and inoffensive and attractive. When we consider the fact that he was omnipotent and could have torn to pieces his assailants, the wonder is greater. We often bear the persecution and abuse of the world because we cannot help it. Christ endured it when he could have helped it. Little children who always shy off at There | ple begged the mothers to take are few farmers that keep enough away. Invalids zore with wounds that geesa to injure a pasture in this way | they could not bear to have any one even if the cattle do raise an object come near them begged Christ just to put his hand upon the wound and soothe it. The mother with the sickest child was willing to put the little one in Christ's arms. Self righteous people rushed into his presence with a woman of debased character and said, "Now, annihilate her, blast her, kill her." Jesus looked at her and saw she was sorry and repentant, and he looked at them, and he saw they were sin cant the first grope at her." blind man sat by the wayside making n great to de about his lack of vision. They told him to hush up and not bother the Master. Christ stooped to do unto thee?" Gentleness of voice gentleness of manner, gentleness of

My sister had her arm out of joint and we were in the country, and the neighbors came in, and they were all sympathetic, and they laid hold of the arm and pulled and pulled mightily until the anguish was intolerable; but the arm did not go to its place. Then the old country doctor was sent for, and he came in and with one tough it was all right. He knew just where to put his finger and just how to touch the bone. We go out to Christian work with too rough a hand and too unsympathetic a manner, and we fall in our work, while some Christian, in the gentleness of Christ, comes along, puts his hand of sympathy on the sore spot -the torn ligaments are healed and the disturbed bones are rejoined. Oh,

for this gentleness of Christ. The dew of one summer night will accomplish more good than fifty Caribbean whirlwinds. How important it is that in going forth to serve Christ we have something of his gentleness! Is that the way we bear ourselves when we are assaulted? The rule is an eye for an eye, a tooth for a tooth, retort for retort, sareasm for sarcasm. Give him as much as he sends! After awbile you look up into the face of Christ, and you see his gentleness, and you say, "Well, now, I must do differently." Then your proud heart says: "Now, you have your enemy in a corner. You will never get him in a corner again. Chastise him. and then let him go." So we postpone the gentleness of Christ. Did you ever

About acerbity or hypercriticism? forty-five years ago the Presbyterian church was split into the new school and the old school. The chasm got wider and wider. The most outrageous personalities were indulged in. Good men on one side anathematized good men on the other side. Wider and wider the chasm got, until after a while some good people tried another tack, and they began to explain away the difficulties, and soon all the differences were healed, and at Pittsburg they shook hands and are now to be one forever.

How to Love the Father.

Did you ever know a drunkard reclaimed by mimicry of his staggering steps, his thick tongue or his hiccough? No. You only madden his brain. But you go to him and let him know you appreciate what an awful struggle he has with the evil habit, and you let him know that you have been acquainted with people who were down in the same depths who by the grace of God have been rescued. He hears your voice, he responds to that sympathy, and he is saved. You cannot scold the world into anything better. You may attract it into something better. The stormiest wind comes out from its hiding place and marine and fisheries is now operated says, "I will arouse this sea." And it very much on the same lines as the blows upon the sea. Half of the sea | Canadian, though, of course, on a much is aroused or a fourth of the sea is smaller scale. It was first organized as aroused, yet not the entire Atlantic, a "fisheries commission" in 1890, But after awhile the moon comes out previous to which date there was no caim and placid. It shines upon the public department specially charged sea, and the ocean begins to lift. It embraces all the highlands; the beach. The last annual report of the departis all covered. The heart throb of one ment contains some information which world beating against the heart throb may interest your readers. Regardof another world. The storm could ing the artificial propagation of lobnot rouse the whole Atlantic, the stors the report states that in the past moon lifted it. "And !," said Christ, from 200,000,000 to 400,000,000 lob-"if I be lifted up will draw all men sters were annually hatched and

Cioffiling Our Nakedness. walking a long journey to save you from fatigue. It is my lifting a great number of pounds to save you from from my comfort and prosperity so comfort and prosperity. How much of that have we? Might not I rather say, "How little have we?" Two children-brother and sister-were passing down the road. They were both any garments at all. His sister had a come under this coat." "Oh, no," he said; "the coat isn't large enough!" "Oh," she said, "it will stretch." He comes under the coat, but the coat would not stretch. So she took off the coat and put it on him. Self-sacrifice pure and simple. Christ taking off his robe to clothe our nakedness. Selfsacrifice. I have not any of it, nor have you compared with that. The sacrifice of the Son of God,

Christ walked to Emmaus, Christ walked from Capernaum to Bethany, Christ walked from Jerusalem to Golgotha. How far have you and I walked for Christ? His head achea, his heart ached, his back ached. How

much have we ached for Christ? The Need of Hamility.

we? If we get a few more dollars taken and the spaces between the than other people or gain a little high- laths in the traps is very difficult. The er position, oh, how we strut! We go department has recently prohibited nd wanting everybody to know fall fightner-a wise mea their place, and say, "Is not this great already seems to be attended with Babyien that I have built for the hon- good results and meets general apor of my kingdom and by the might proval both among fishermen and of my strength?" Who has anything of the humility of Christ?

the spirit of prayer. Prayer on the among the sick, prayer everywhere. Prayer for little children: "Father, I thank thee that thou hast hidden these things from the wise and prudent and revealed them unto babes." Prayer for his friends: "Father, I will that they be with me where I am." Prayer for his enemies: "Father, I forgive them; they know not what they do." Prayer for all nations: "Thy kingdom come." How little of that spirit you and I have. How soon our knees get tired. Where is the vial full of odors which are the prayers of all the saints? Which of us can keep our mind ten minutes on a prayer without wandering? Not you, nof I. Oh, that we might have the spirit of prayer which was the spirit of Christ, We want more prayer in the family, more prayer in the church, more prayer in the legislative hall, more prayer among the sick, more prayer among the aged, more prayer among the young. The great advancement of the church is to be in that direction yet.

The Spirit of Hard Work.

The spirit of Christ, I remark lastly, was a spirit of hard work. one lazy moment in all his life. Whether he was talking to the fisher men on the beach or preaching to the sailors on the dock or administering to the runties amid the mountains or spending an evening in Bethany, always busy for others. With hands, heart, head busy for others. Hewing In the Nazareth carpenter shop, teaching the lame how to walk without crutches, curing the child's fits, providing rations for the hungry host. Busy, busy, busy! The hardy men who pulled the net out of the sea filled with floundering treasures, the shepherds who hunted up grassy plots for their flocks to nibble at, the shipwrights pounding away in the drydocks, the winemakers of Engedi dipplng the juices from the vat and pouring them into the goatskins, were not more busy than Christ. Busy, busy for others. From the moment he went out of the caravansary of Bethlehem to the moment when the cross plunged into the rocket on the bloody know any difficulty to be healed by mind you of yourself? Doos that re- coated with the quicksilver,

mind you of myself? If we lift a burden, it must be light. If we do work, it must be popular. If we six in the pew, it must be soft. If we move in a sphere of usefulness,it must be brilliant. If we have to take hold of a load, give us the light end of the log. In this way to heaven fan us, rock us, sing us to sleep. Lift us up toward heaven on the tips of your fingers under a silken sunshade. Stand out of the way, all you martyrs who breasted the fire! Stand out of the way and let this colony of tender footed modern Christians come up and get their crowns!

What has your Lord done to you, O Christian, that you should betray him? Who gave you so much riches that you can afford to despise the awards of the faithful? At this moment, when all the armies or heaven and earth and hell are plunging into the conflict, how can you desert the standard? Oh, backslidden Christian, is it not time for you to start anew for God and anew for heaven?

SAVING THE LOBSTER.

Good Work of the Newfound and Department of Fisheries. The Newfoundland department of

with the supervision of the finheries. planted in the waters, at a yearly cost of \$1,100. If only a small percentage What is self-sacrifice? It is my of these survive to reach maturity the results cannot fall to prove beneficial in sustaining the stock of lobsters in the waters, and thus counteracting the the awful strain. It is a subtraction effects of such heavy drafts as are now made, year after year. I may that there may be an addition to your explain that this propagation is carried on by means of floating incubaters, the invention of Mr. Nielson. Two hundred and fifty of these incubators are occupied by fifty men around the shores of the great bays. very destitute. The lad had hardly There is no other country where the artificial propagation of this valuable cost that she had outgrown. It was crustacean is carried on upon such a very cold day. She said, "Johnny, on extensive scale-not excepting the United States or Norway, It is well known that in nearly every lobsterproducing country this favorite crustacean is threatened with extermination. The quantity secured each year is lessening and the price advancing. Newfoundland, I regret to say, is no exception to the decline in the lobster fishery. The export each year is lessening, though the number of hands employed in taking it has doubled. The size, too, is diminishing in most districts. The report states the export for 1898-'9 as 56,156 cases; value, \$565,000. In the previous year the export was 61.951 cases; value, \$619.510. The department is using the most visorous measures to arrest the decline: but the due enforcement of the How much of that humility have rules in regard to the size of lobsters packers. The report states that there is "a marked improvement in the The disposition of Christ was also mode of packing and a much better article than formerly is produced. mountains, prayer on the sea, prayer though there is still great room for improvement."-Montreal Gazette,

CAPE NOME'S NEWSPAPER.

Oald Little Sheet Which Chronicles Town's Happenings.

One of the most interesting carlosities that has come down from the new gold fields is a copy of the Nome Dally News. This publication, which consists of four pages, with four short columns on each page, sells for 25 cents a copy. The Sunday Herald, if sold column for column at the same rate, would cost about \$9.25 a copy. instead of 5 cents. The Nome newspaper has arrangements for regular subscribers, and it is furnished to them at the rate of \$35 a year. According to this odd publication, the new gold mining town of Alaska is busying itself with the small matters which usually engross young communities. The additions or alterations being made in local buildings are chronicled, and announcement & made that all of the watches, chronometers, and clocks about the town, which have been running by "sun time" taken last December, have been found to be an hour slow and have been brought up to date. All lines of industry are represented in the advertising columns of the Nome paper, but no class of business men describe their wares more prominently or attractively than the saloonkeepers. The Last Chance salcon, the Grotto, the Horseshoe, the Gold Belt, the Pioneer and the Eldorado, all use the News' advertising columns to solicit patronage. Physicians, lawyers and surveyors also make their presence known through the advertising columns of this odd little daily newspaper .- New York Herald.

To Amalgamate Copper.

Copper may be amalgamated; that is, coated with mercury, by placing it when perfectly clean in metallic mercury or in a salt of the metal. Cleanse the copper by rinsing in soda lye, rinse in running water and dip in dihydrochloric or sulphuric acid, and then plunge into a vessel containing mercury or a solution of chloride mount, busy for others. Does that re- of mercury, when the copper will be