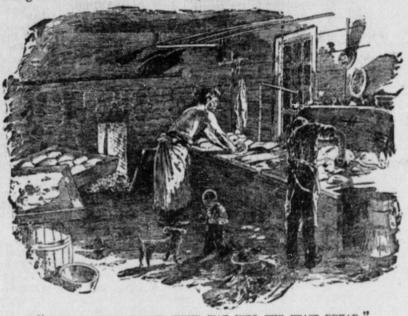
BY CYRUS EDSON, M. D.,

Health Commissioner, New York City. It is necessary, if one would understand the sanitary aspects of bread making, to fully comprehend the present theory held by scientists of germs and the part played by them in disease. The theory of disease germs is merely the name given to the knowledge had of those germs by medical men, a knowledge which is the result of innumerable experiments. Being this, the old term of a "theory" has become a misnomer. A germ of a disease is a plant, so small that I do not know how to exand destroys them, at the same time producing new substances.

cess of raising and it has two periods order that the starch may ferment and of working down or kneading during there is also no kneading necessary. each of which it may gather the dirt containing the germs from the baker's with yeast, goes through this long

is worth a few words. The introducpress intelligibly to the general reader its lack of size. When this germ is introduced into the blood or tissues of is placed near the fire produces an with the flour. The proper quantity the body, its action appears to be an- enormous growth of the yeast fungialogous to that which takes place when the yeast "germ," in other words. yeast is added to dough. It attacks These fungi effect a destructive fercertain elements of the blood or tissues, mentation of a portion of the starchy matter of the flour-one of the most valuable nutrient elements in the flour.



"DISEASE GERMS FOUND THEIR WAY INTO THE YEAST BREAD."

velop or increase in number without which is itself everywhere in the flour, being in the body of a human being, pushes aside the particles of the dough provided always you give them the proper conditions. These conditions called "raising the bread." are to be found in dough which is being raised with yeast. They are warmth, moisture and the organic mechanical. The dough, which was matter of the flour on which the germs, after certain changes, feed.

point that yeast is germ growth, and call light. This porous quality of when introduced into a mixture of glu- bread enables the stomach to rapidly cose or starch, in the presence of and easily digest it, for the gastric warmth and moisture sets up a fer- juices quickly soak into and attack it have shown how that danger may be mentation. If the mixture be a starchy dough the yeast first changes a portion the dough, however, uses up a portion which in this case is neither difficult of the starch into glucose and then de- of the nutrient elements of the loaf. composes the glucose by changing it If it be possible, therefore, to produce pounds of cure, and the best thing into two new substances, viz., carbonic a light porous loaf without this deacid gas and alcohol.

affords, with the latter, an excellent nidus for the development of germs of disease as well as for the yeast germs. The germs of cholers, as of typhoid fever, would, if introduced into dough, find very favorable conditions for their growth.

I do not wish to "pose" as an alarmist, nor am I willing to say there is very much chance of the germs of typhus and of cholera reaching the stomachs of the people who eat bread which has been raised with yeast. But I have not the slightest cause to doubt that other diseases have been and will be carried about in the bread.

I have met journeymen bakers, suffering from cutaneous diseases, working the dough in the bread trough with naked hands and arms. I have no reason to suppose bakers are less liable to cutaneous diseases than any other men, and I know, as every housewife knows, yeast-raised bread must be ceedingly objectionable thing from the standpoint of a physician for the period during which the raising pro- (have absolutely stopped one channel reason that the germs of disease which are in the air and dust and on stairways and straps in street cars, are exceedingly plain. most often collected on the hands. woman has seen.

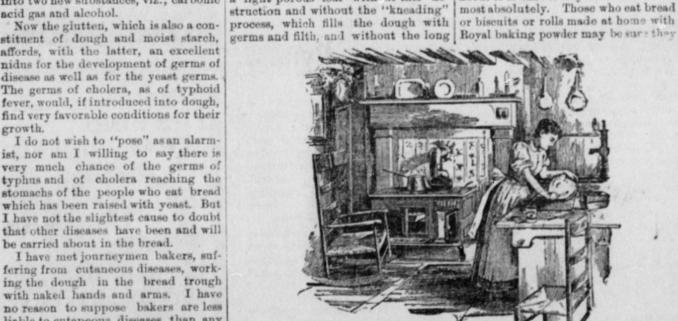
underdone bread is unhealthful. This made bread are obviated by the use of reputation has been earned for it by a properly made, pure and wholesome the experience of countless genera- baking powder in lieu of yeast. Baktions, and no careful mother will wish ing powders are composed of an acid her children to eat bread that has not | and an alkali which, if properly combeen thoroughly cooked. The reason | bined, should when they unite at once given for this recognized unhealthful- destroy themselves and produce carness has been that the uncooked yeast bonic acid gas. A good baking powdough is very difficult to digest. No der does its work while the loaf is in one but a physician would be apt to the oven, and having done it, disapthink of disease germs which have not | pears. been killed during the process of baking as a cause of the sickness following the brand of baking powder to be certhe use of uncooked yeast bread. Yet tain that it is composed of non-injuri-this result from this cause is more than ous chemicals. Powders containing probable. I have not the slightest alum or those which are compounded doubt that could we trace back some from impure ingredients, or those of the cases of illness which we meet in our practice we would find that germs collected by the baker have found their way into the yeast bread, that the heat has not been sufficient to destroy them, that the uncooked yeast bread has been eaten and with 'it the colonies of germs, that they have found their way into the blood and that the call for our services which followed, has rounded off this sequence shown by analysis, the "Royal." It soil, in the old County of Halifax.—

of events.

But the germs of the greater part of | The fermentation produces carbonic the germ diseases, that is, of the infec- acid gas, and this, having its origin in tious and contagious diseases, will de- every little particle of the starch

to give itself room. This is what is

It needs but a glance to see that it is, in its effects on the dough, purely before a close-grained mass, is now full of little holes, and when cooked It is necessary to remember at this in this condition is what we ordinarily



worked a long time. This is an ex- BREAD WITHOUT YEAST-"THE MOST PERFECT OF ALL CONCEIVABLE WAYS OF RAIS-ING IT.

cess goes on, the gain in food and the through which disease may reach gain in the avoidance of the germs is

But while we can easily see the Any person who has ever kneaded dangers which attend the use of yeast dough understands the way in which it is certain that the vesiculating effect the dough cleans the hands. This produced by it on the dough is to the means that any germs which may have last degree perfect. It is apparent found a lodging place on the hands of that if we are to substitute any other the baker before he makes up his system of bread making we must have batch of bread are sure to find their one which will give us, first, mechanical way into the dough, and once there, to results equally as good, that is, that find all the conditions necessary for will produce minute bubbles of subdivision and growth. This is carbonic acid gas throughout the mass equivalent to saying that we must rely of dough. Now it is in no way diffion heat to kill these germs, because it cult to produce carbonic acid gas is almost certain that they will be chemically, but when we are working there. Now, underdone or doughy at bread we must use such chemicals bread is a form which every man and as are perfectly healthful. Fortunately these are not hard to find.

It is a belief as old as the hills that | The evils which attend the yeast-

But care is imperative in selecting which are not combined in proper prothe bread, must not be used.

It is well to sound a note of warning in this direction or the change from the objectionable yeast to an impure

contains absolutely nothing but cream I have already pointed out that the of tartar and soda, refined to a chemgerms of disease are to be found in the | icel purity, which when combined unair and dust. The longer any sub- der the influence of heat and moisture petroleum daily.

SOME SANITARY ASPECTS OF BREAD stance to be eaten is exposed to the air, produce carbonic seid gas, and having the greater the chance that germs will | done this, disappear. Its leavening be deposited on it. Bread raised with strength has been found superior to yeast is worked down or kneaded twice other baking powders, and as far as I before being baked and this process know, it is the only powder which will may take anywhere from four hours to raise large bread perfectly. Its use ten. It has, then, the chance of col- avoids the long period during which lecting disease germs during this pro- the yeast made dough must stand in

The two materials used in the Royal, cream of tartar and sods, are perfectly hands. As no bread save that raised harmless, even when eaten. But they are combined in exact compensating process of raising and kneading so no weights, so that when chemical action bread save that raised with yeast has begins between them they practically disappear, the substance of both havso good a chance of gathering germs. disappear, the substance of both hav-What is meant by "raising" bread ing been taken up to form the carbonic scid gas. More than this, the proper method of using the powder insures the most thorough mixing being taken, it is mixed with the flour and stirred around in it. The mixture is then sifted several times and this insures that in every part of the flour there shall be a few particles of the powder. The salt and milk or water being added, the dough is made up as quickly as possible and moulded into the loaves.

These are placed in the oven and baked. But the very moment the warmth and moisture attack the mixture of cream of tartar and sods, these two ingredients chemically combine and carbonic acid or leavening gas is evolved. The consequence may be seen at a glance, the bread is raised during the time it is baking in the oven, and this is the most perfect of all conceivable methods of raising it.

Here, then, there is no chance for germs of disease to get into the dough and thence into the stomach, more than that the bread is necessarily as sweet as possible, there having been no time during which it could sour. This involves the fact that the bread so made will keep longer, as it is less likely to be contaminated by the germs that affect the souring process.

It will be strange if the crowds of visitors to the World's Fair do not greatly increase the number of contagious diseases, which we will have to treat. Under these circumstances is it not folly of follies to open a single channel through which these germs may reach us? Is it not the part of wisdom to watch with the greatest care all that we eat and drink, and to see that none but the safest and best methods are employed in the preparation of our food? To me it seems as though there could be but one answer to questions like these.

I have shown the danger of using the yeast raised bread, and with this I from all sides. The fermentation of avoided. The ounce of prevention nor expensive is certainly worth many about it is that it may be relied on al-

Note.—Housekeepers desiring informa-tion in regard to the preparation of the bread which, for sanitary reasons, Dr. Edson so strongly urges for general use, should write o the Royal Baking Powder Company, New

## Russia's Vast Area.

One only gets an idea of the stupenlous extent of Russian territory, and especially of Siberis, by comparisons. General Zabotkine, chief of the engineering arm of the Russian navy, said, through his interpreter: "I am only stopping over to see the Exposition while on my way to inspect fortifications at Vladivostock, in Eastern Siberia, one of our outposts, I am making the trip by way of San Francisco and Yokohama. No, it is not a roundabout way. By taking this route I enjoy all the facilities of comfortable travel, with only a few days of discomfort from Yokohoma, Should I attempt to go by the way of Russian territorry, I could not make the return to St. Petersburg before next December. By the American route I see your Exposition, coming and going, and reach St. Petersburg in September."-Chicago Tribune.

# A North Carolina Diamond.

A young lady near Weldon picked up what she thought to be a pretty little pebble near the Warren line. Captain Willis Cheek, of that place, saw the stone and purchased it. He portion or carefully mixed and which sent it on to an expert in New York, will leave either an acid or an alkali in | and the jeweler there notified him that it was a genuine diamond of the first water. The captain paid the young lady full value for it in the rough, and then had it cut and set in a ring. His Raleigh (N. C.) News.

Russia produces 111,649 barrels of

# REV. DR. TALMAGE.

THE BROOKLYN DIVINE'S SUN-DAY SERMON.

Subject: "Fireside Musing."

TEXT: "While I was musing the fire burned."--Psalm xxxix., 3.

Here is David, the psalmist, with the fore-finger of his right hand against his temple, the door shut against the world, engaged in contemplation. And it would be well for us to take the same posture often, closing the door against the world while we sit down in

sweet solitude to contemplate.

In a small island off the coast I once passed a-Sabbath in delightful solitude, for I had resolved that I would have one day of entire quiet before I entered upon autumnal work I thought to have spent the day in laying out plans for Christian work, but instead of that it became a day of tender reminiscence. I reviewed my pastorate. I shook hands with an old departed friend, whom I shall greet again when the curtains of life are lifted. The days of my boyhood came back, and I was 10 years of age, and I was 8, and I was 5. There was but one house on the island, and yet from Sabbath daybreak, when the bird chant woke me, until the evening melted into the bay, from shore to shore there were 10,000 memories, and the groves were a-hum with voices that had long ago ceased.

Youth is apt too much to spend all its time in looking forward. Old age is apt too much to spend all its time in looking backward. People in midlife and on the apex look both ways. It would be well for us, I think, how ever, to spend more time in reminiscence. By the constitution of our nature we spend most of the time looking forward. And the vast majority of people live not so much in the present as in the future. I find that you mean to make a reputation. You mean to establish yourself, and the advantages that establish yourself, and the a2yantages that
you expect to achieve absorb a great deal
of your time. But I see no harm in this if
it does not make you discontended with the
present or disqualify you for existing duties.

It is a useful thing sometimes to look back
and to see the dangers we have escaped, and

to see the sorrows we have suffered, and the trials and wanderings of our earthly pil-grimage, and to sum up our enjoyments. ean to-day, so far as God may help me, to

mean to-day, so far as God may help me, to stir up your memory of the past, so that in the review you may be encouraged and hum-bled and urged to pray.

There is a chapel in Florence with a fresco by Guido. It was covered up with two inches of stucco until our American and European artists went there and after long toil removed the covering and retraced the fresco. And I am aware that the memory of the past, with many of you, is all covered up with 10,000 obliterations, and I propose this morning, so far as the Lord may help me, to take away the covering, that the old picture may shine out again.

I want to bind in one sheaf all your past

advantages, and I want to bind in another sheaf all your past adversities. It is a precious harvest, and I must be cautious how I swing the scythe.

Among the greatest advantages of your past life was an early home and its surround-

ings. The bad men of the day, for the most part, dip their heated passions out of the boiling spring of an unhappy home. We are not surprised that Byron's heart was a concentration of sin when we hear that his mother was abandoned and that she made sport of his infirmity and often called him "the lame brat." He who has vicious parents has to fight every inch of his way if he would maintain his integrity and at last

reach the home of the good in heaven.

Perhaps your early home was in the city.

It may have been in the days when Canal street, New York, was far up town. That old house in the city may have been demolished or changed into stores, and it seemed like sacrilege to you, for there was more meaning in that plain house, in that small house, than there is in a granite mansion or a turreted cathedral. Looking back this morning, you see it as though it were yesterday—the sit-ting room, where the loved ones sat by the plain lamplight, the mother at the evening and, the brothers and sisters, perhaps los ago gathered into the skies, then mischief on the floor or under the table ; your father with a firm voice commanding silence that lasted half a minute.

Oh, those were good days! If you had your foot hurt, your mother always had a soothing salve to heal it. If you were wronged in the street, your father was always ready to protect you. The year was one round of froise and mirth. Your greatest trouble was an April shower, more sunshine than shower. The heart had not been ran-sacked by troubles, nor had sickness broken it, and no lamb had a warmer sheepfold than the home in which your childhood

Perhaps you were brought up in the cour try. You stand now to-day in memory under the old tree. You clubbed it for fruit that was not quite ripe because you could not wait any longer. You hear the brook rumb-ling along over the pebbles. You step again into the furrow where your father in his shirt sleeves shouted to the lazy oxen. You frighten the swallows from the rafters of the barn and take just one egg and silence your conscience by saying they will not miss it You take a drink again out of the very bucket that the old well fetched up. You go for the cows at night and find them wagging their heads through the bars. Ofttimes in the dusty and busy streets you wish you were home again on that cool grass or in the hall of the farmhouse, through which there was the breath of new mown hay or the blossom

of buckwheat. You may have in your windows now beautiful plants and flowers brought from across the seas, but not one of them stirs in your soul so much charm and memory as the old ivy and the yellow sunflower that stood sentinel along the garden walk and the forgetmenots playing hide and seek mid the long grass. The father, who used to come in sunburned from the fields and sit down on the doorsill and wipe the sweat from his brow, may have gone to his everlasting rest. The mother who used to sit at the door a little bent over, cap and spectacles on, her face mellowing with the vicissitudes of many years, may have put down her gray head on the pillow in the valley, but forget that home

Have you thanked God for it? Have you rehearsed all these blessed reminiscences? Oh, thank God for a Christian father. Thank God for a Christian mother. Thank God for an early Christian altar at which you were taught to kneel. Thank God for an early

I bring to mind another passage in the histery of your life. The day came when you set up your own houshold. The days passed along in quiet blessedness. Your twain sat at the table morning and night and talked over your plans for the future. The most significant affair in your life became the subject of mutual consultation and advisement. You were so happy you felt you never could be

any happier.
One day a dark cloud hovered over your One day a dark cloud hovered over your dwelling, and it got darker and darker. But out of that cloud the shining messenger of God descended to incarnate an immortal spirit. Two little feet started on an eternal journey, and you were to lead them. A gem to flash in heaven's coronet, and you to polish it. Eternal ages of light and dark-ness watching the starting out of a newly

You rejoiced and you trembled at the responsibility that in your possession an immortal treasure was placed. You prayed and rejoiced, and wept and wondered, and prayed and rejoiced, and wept and wondered. You were earnest in supplication that you might lead it through life into the kingdom of God. There was a tremor in your earnestness.
There was a double interest about that home.
There was an additional interest why you should stay there and be faithful, and when in a few months your house was filled with the music of the child's laughter you were struck through with the fact that you had a

Have you kept that vow? Have you ne-

glected any of these duties? Is your home as glected any of these duties? Is your home as much to you as it used to be? Have those anticipations been gratified? God heip you to-day in your solemn reminiscence and let His mercy fall upon your soul if your kindness has been ill requited! God have mercy on the parent on the wrinkles of whose face is written the story of a child's sin! God have mercy on the mother who in addition to her own pangs has the pang of a child's in-iquity! Oh, there are many, many sad sounds in this sad world, but the saldest sound that is ever heard is the breaking of a mother's heart! Are there any here who remember that in that home they were unfaithful? Are there those who wandered off from that early home and left the mother to die with a broken heart? Oh, I stir that rem-

with a broken heart? Oh, I stir that reminiscence to-day!

I find another point in your life history.
You found one day you were in the wrong
road; you could not sleep at night. There
was just one word that seemed to sob through
your banking house, or through your office, or your shop, or your bedroom, and that word was "eternity." You said: "I am not ready for it. O God, have mercy!" The Lord heard. Peace came to your heart. You remember how your hand trembled as you took the cup of the holy communion. You remember the old minister who consecrated it, and you remember the church officials who carried it through the aisle. You re-member the old people who at the close of the service took your hand in theirs in congratulating sympathy, as much as to say, "Welcome home, you lost prodigal," and though those hands have all withered away that communion Sabbath is resurrected to-day. It is resurrected with all its prayers and songs and tears and sermons and trans-figuration. Have you kept those vows? Have you been a backslider? God help you! This day kneel at the foot of mercy and start again for heaven. Start to-day as you started then. I rouse your soul by that

But I must not spend any more of my time n going over the advantages of your life. I ust put them all in one great sheaf, and I bind them up in your memory with one loud harvest song, such as reapers sing. Praise the Lord, ye blood bought mortals on earth! Praise the Lord, ye crowned spirits of heav-

But some of you have not always had a smooth life. Some of you are now in the shadow. Others had their troubles years ago; you are a mere wreck of what you once were I must gather up the sorrows of your past life, but how shall I do it? You say that is impossible, as you have had so many troubles and adversities. Then I will just take two, the first trouble and the last trouble. And when you are walking along the street and there has been music in the distance

you unconsciously find yourselves keeping your very life was a musical timebeat. air was full of joy and hijarity. With the bright, clear oar, you made the boat skip. You went on, and life grew brighter, until after awhile suddenly a voice from heaven said, "Halt!" And you halted. You grew pale. You confronted your first sorrow. You had no idea that the flush on your child's cheek was an unbealthy flush. You said it cannot be anything serious. in slippered feet walked round about the You did not hear the tread, after awhile the truth flashed on you. walked the floor. Oh, it you could, with your strong, stout hand, have wrenched the child from the destroyer!

You went to your room, and you said 'God, save my child! God, save my child! The world seemed going out in darkness, You said, "I cannot bear it, I cannot bear You felt as if you could not put the lashes over the bright eyes never to see them again sparkle. Oh, if you could have taken that little one in your arms and with it leaped into the grave, how gladly you would have done it! Oh, if you could let your property go, your houses, your land and your storehouse go, how gladly you would have allowed them to depart if you could only have kept that one treasure!

But one day there arose from the heavens a chill blast that swept over the bedroom, and instantly all the light went out, and there was darkness—thick, murky, impenetrable, shuddering darkness. But God did not leave you there. Mercy spoke. As you wine into his lips, so God puts His left arm under your head, and with His right hand irs into your lips the wine of His comfort and His consolation, and you looked at the empty cradle and looked at your broken heart, and you looked at the Lord's chas-

tisement, and you said, "Even so, Father, for so it seemeth good in Thy sight."

Ah, it is your first trouble. How did you get over it? God comforted you. You have been a better man ever since. You have been a better woman ever since. In the jar of th You have been closing gate of the sepulcher you heard the clanging of the opening gate of heaven and you felt an irresistable drawing heavenward. You have been purer and holier of heart ever since that night when the little one for the last time put its arms around your neck and said: "Good night, papa. Good night,

Meet me in heaven. But I must come on down to your later orrow. What was it? Perhaps it was sickness. The child's tread on the stair or the tick of the watch on the stand disturbs you. Through the long, weary days you counted the figures on the carpet or the flowers in Oh, the weariness and exthe wall paper. haustion! Oh, the burning pangs! Would God it were morning, would God it were night, were your frequent cry. But you are better—perhaps even well. Have you thanked God that to-day you can come out in the fresh air; that you are in this place to hear God's name, and to sing God's praise, and to im-plore God's help, and to ask God's forgive-ness? Bless the Lord who healeth all our diseases and redeemeth our lives from de-

Perhaps your last sorrow was a financial nbarrassment. I congratulate some of you on your lucrative profession or occupation, n ornate apparel, on a commodious resion ornate apparel, on a commodious residence—everything you put your hand to seems to turn to gold. But there are others of you who are like the ship on which Paul sailed where two seas met, and you are broken by the violence of the waves. By an unadvised indorsement, or by a conjunction of unforeseen events, or by fire or storm, or a senseless panic, you have been fluxe head. senseless panic, you have been flung head-long, and where you once dispensed great charities now you have hard work to make the two ends meet.

Have you forgotten to thank God for your days of prosperity, and that through your trials some of you have made investments which will continue after the last bank of this world has exploded and the silver and gold are molten in fires of a burning world? Have you, amid all your losses and discouragements, forgot that there was bread on your table this morning and that there shall be a shelter for your head from the storm, and there is air for your lungs and blood for your heart and light for your eye and a glad and glorious and triumphant religion for your soul?

Perhaps your last trouble was a bereave-ment. That heart which in childhood was your refuge, the parental heart, and which has been a source of the quickest sympathy ever since, has suddenly become silent forever since, has suddenly become aftent for-ever. And now sometimes whenever in sud-den annoyance and without deliberation you say. "I will go and tell mother," the thought flashes on you, "I have no mother." Or the father, with voice less tender, but at heart as earnest and loving-watchful of all your ways, exultant over your success without saying much, although the old people do talk it over by themselves—is taken away

Or there was your companion in life, sharer of your joys and sorrows, taken, leaving the heart an old ruin, where the ill winds blow over a wide wilderness of desolation, the sands of the desert driving across the place which once bloomed like the garden of God. And Abraham mourns for Sarah at the cave of Machpelah. Going along your path in life, suddenly, right before you was an open grave. forever.

People looked down, and they saw if was only a few feet deep and a few feet wide, but to you it was a chasm down which went all

your hopes and all your expectations,
But cheer up in the name of the Lord Jesus
Christ, the comforter. He is not going to forsake you. Did the Lord take that child out of your arms? Why, He is going to shelter it better than you could. He is going to array it in a white robe and give it a palm branch and have it all ready to greet you at your coming home. Blessed the broken heart that Jesus heals. Blessed the im-portunate cry that Jesus compassionates. Blessed the weeping eye from which the soft hand of Jesus wipes away the tear,

Some years ago I was sailing down the St. John river, which is the Rhine and the Hudson commingled in one scene of beauty and grandeur, and while I was on the deck of the steamer a gentleman pointed out to me the places of interest, and he said, "All this is interval land, and it is the richest land in all the provinces of New Brunswick and Nova

"What," said I, "do you mean by interval land?" "Well," he said, "this land is sub-merged for a part of the year. Spring freshets come down, and all these plains are overflowed with the water, and the water leaves a rich deposit, and when the waters are gone the harvest springs up, and there is the grandest harvest that was ever reaped."
And I instantly thought, "It is not the heights of the church and it is not the heights of this world that are the scenes of the gre est prosperity, but the soul over which the floods of sorrow have gone, the soul over which the freshets of tribulation have torn their way, that yields the greatest fruits of righteousness, and the largest harvest for time, and the richest for eternity." Bless God that your soul is interval land.

But these reminiscences reach only to this morning. There is only one more point of tremendous reminiscences, and that is the last hour of life, when we have to look over all our past existence. What a moment that will be! I place Napoleon's dying rem-iniscence on St. Helena beside Mrs. Judson's What a moment that dying reminiscence in the harbor of St. Helena—the same island—20 years after. Napoleon's dying reminiscence was one of delirium as he exclaimed, "Head of the Mrs. Judson's dying reminiscence army !" as she came home from her missionary toll and her life of self sacrifice for God, dying in the cabin of the ship in the harbor of St. Helena, was, "I always did love the Lord Jesus Christ." And, then, the historian says, she fell into a sound sleep for an hour and woke amid the songs of angels.

I place the dying reminiscence of Augustus

Cossar against the dying reminiscence of the Apostle Paul. The dying reminiscence of Augustus Cæsar was, addressing his atten-dants, "Have I played my part well on the stage of life?" and they answered in the af-firmative, and he said: "Why, then, don't you applaud me?" The dying reminiscence of Paul the Apostle was: "I have fought a good fight, I have finished my course, I have kept the faith. Henceforth there is laid up for me a crown of righteousness, which the Lord, the righteous Judge, will give me in that day, and not to me only, but to all them that love His appearing."

Augustus Cæsar died amid pomp and great surroundings. Paul uttered his dying reminiscence looking up through the roof of a dungeon. God grant that our dying pillow may be the closing of a useful life and the opening of a glorious eternity.

#### An Emperor at the Plow.

In order to emphasize the importance of the cultivation of the soil and to encourage his subjects to follow agricultural pursuits, the Emperor of China sometimes performs certain rites at the "Emperor's Field" and goes through the form of plowing and other work of the husbandman. One day recently the Emperor set out atdaybreak from his palace, with a numerous and magnificent train of courtiers and others. Before breakfast the Emperor arrived at the shrines of the deity presiding over agriculture, were about to put that cup to your lips God said, "Let it pass," and forthwith as by the hand of angels, another cup was put into your hands. It was the cup of God's consolation. And as you have sometimes lifted the head of a wounded soldier and poured the head of a wounded soldier and poured the Emperor proceeded to the field, at the four corners of which were erected four pavilions, where the seeds of wheat and other cereals were placed.

In the center were numbers of magnificently attired courtiers, each holding aloft a many-colored flag, while on the side of the passage were scores of aged and white-haired farmers, each having in his hand some agricultural implement. Placing his left hand on the plow and holding the whip in his right hand the Emperor began the ceremony of the occasion. By prearrangement the officers did their allotted share, some wielding the agricultural implements, while others scattered seeds out of the baskets as if sowing, while the Emperor was busied with the plow, which was hitched to a richly caparisoned bullock draped in yellow and led by two of the Emperor's body guards. On the Emperor finishing his round at the plow the three princes were ordered to go through the performance, and after them nine high courtiers had their turn .- Pall Mall Budget.

## Hardships of Life in the Polar Region.

The whole region is one of severe cold, and the sea is frozen for the greater part of the year, land and water becoming almost indistinguishable, but for the incessant movement and drift of the sea ice, says McClue's Magazine. In summer the sea ice breaks up into floes which may drift away by the wind against the shores of continents or islands, leaving lanes. of open water which a shift of wind may change and close in an hour.

Icebergs launched from the glaciers of the land also drift with the tide, current and wind through the more or or less open water. Possibly at some times the pack may open and a clear waterway run through to the pole, and old whalers tell of many a year, when they believed that a few days' steaming would carry them to the ead of the world, if they could have seized the opportunity.

At other times routes traversed in safety time after time may be effectively closed for years, and all advance barred.

Food in the form of seals or walrus in the open water, reindeer, musk ox, polar bears or birds on the land, may often be procured, but these sources cannot be relied upon. Advance northward may be made by water in a ship, or by dog-sledge, or on foot, over the frozen snow or ice.

Each method has great drawbacks. Advance by sea is stopped when the young ice forms in autumn, and land advance is hampered by the long Arctic night which enforces months of inaction, more trying to health and spirits than the severest exertion.