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THE DAILY NEWS PRINCE RUPERT - BRITISH COLUMBIA

Published Every Afternoon, Except Sunday, by Prince Rupert Daily News, Limited, Third Avenue H. F. PULLEN - - - Managing-Editor

SUBSCRIPTION RATES

By mail to all other parts of British Columbia, the British Em-
pire and United States, paid in advance, per year 6.00
By mail to all other countries, per year
By mail to all parts of Northern and Central British Columbia,
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THE DAILY NEWS

Interesting Address By R. H. Bedford at Rotary Club Luncheon

Yesterday afternoon members of the Rotary Club were intensely interested in a paper given by R. H. Bedford, B. Sc., bacteriologist at the Fisheries Experimental Station, on "The Part that Bacteria Play in the Scheme of Human Affairs." The address was illustrated by a lot of fine slides showing the oddities of particular bacteria and their manner of working. There were micro-organisms which cause boils, blood poisoning, pneumonia, gonorrhea, meningitis, dyptheria, tuberculosis, leprosy, anthrax, typhoid, cholera, bubonic plague, lockjaw, gangrene, siphilis, yellow fever, malaria, dysentary, sleeping sickness and rabies. All got in their deadly work among the blood corpuscles. In his Friday, April 25, 1930. address Mr. Bedford said: "Bacteria conjure up in the mind's eye of most of us a picture of an invisible army of assassins, whose advance upon the human race is followed by a trail of disease, disaster and death. This however, is only one half of the picture. They are just as much a blessing to mankind as they are a curse. I should like to spend the short period at my disposal to take you into another realm of the kingdom of The handsome Swedish steamer bacteria so that you may be able to Roxen, which is here for grain car- obtain a more balanced perspective go, has been open for public inspec- of the part that they play in the tion during the afternoons at the scheme of human affairs. ocean dock where she is being lined "At the outset let me say this, that without bacteria we would not themselves of the opportunity to be here: they are just as much a necessary part of our existence as The Roxen is one of the finest the food we eat. grain ships that has ever been here "When animals die, and plants and the splendid way in which the too for that matter, they gradually vessel is kept has been the subject rot away, ultimately disappear and of general comment. From stem to leave behind nothing but their stern her upperworks glisten with skeletal framework of bones. The paint while her decks are scrubbed question arises then, what makes nigh white. The passenger accomo- the flesh disappear and the answer dation of the vessel, including is, chiefly bacteria or germs, milroomy cabins, snug dining saloon lions of them which cover the whole and cosy smokeroom are particu- body. They are much too small to be seen by the naked eye and the The Roxen expects to pick up a only way we can do so is with the party of passengers at Los Angeles aid of the microscope. It is into this





Member of Audit Bureau of Circulations

Prince Rupert

DAILY EDITION

Swedish Ship Easter Tea For St. Peter's Church Much Admired Was Successful Roxen Is One of Finest Grain **Boats That Has Visited**

An Easter tea and sale of home cooking held at the home of Mrs. J. E. Boddie yesterday afternoon, in aid of St. Peter's Church, was great success both socially and financially. The rooms were beautifully decorated with daffodils and foliage in keeping with the Easter and many people have availed season. The tea table was centred look the vessel over. with daffodils and silver sconces containing yellow candles.

The guests were received by Mrs. J. E. Boddie.

Those assisting were: Home cookng, Mrs. W. V. Tatter-

Serviteurs-Mrs. J. M. Simpson, Mrs. C. J. Norrington, Miss Stamp-Vincent and Miss Boddie.

Those pouring were Mrs. G. Kelsey and Mrs. W. O. Viger. The cashier was Mrs. S. E. Sun-

bury.

for your clothes

For \$27 you can buy a Tip Top suit or topcoat, tailored to your measure from fine, all-wool fabrics -made with all the care that master craftsmen can give designed by the style leaders on this continent -and guaranteed throughout in every way.

Honestly, why pay more? If you think it is necessary, compare our clothes for any you can buy anywhere else within ten dollars of the same price. The result will satisfy you. Only the great volume of business as the largest one-price tailors in the world makes such value possible. We buy all goods direct from the mills and tailor them in our own plant, saving you many dollars on every garment.

Come in today and see our new samples for Spring. Select your suit or topcoat from any of over 200 fabrics. We guarantee absolute satisfaction.

> P. CREVATTO Prince Rupert, B.C.

STEAMER CARDENA

ARRIVED IN PORT

ing had heavy freights to discharge will discharge the full cargo of wheat which she is to take on here. at Skeena River canneries, Union steamer Cardena, Capt. A. John-

stone, arrived in port at 10.30 this T. W. McPherson, district manmorning from the south and sailed ager of the Home Oil Distributors of our own existence, as it is of an hour later for Port Simpson Ltd. returned to the city on yesand Wales Island, whence she will terday afternoon's train from a return here this eveing south- trip to the interior on company bound, business.

larly attractive.



SPRING DAYS are new-life days

Now that the body is bounding into new life after the shut-in-days of winter-don't load it down with heavy, indigestible foods. Shredded Wheat is the energy-food that supplies the vital food elements of the whole wheat grain in a digestible form vitamins, mineral salts and proteins. Eat it with milk for breakfast and see how it carries you through the forenoon without fatigue.

for Europe. Iit will take her 40 days invisible world, one teeming with approximately to make the trip such great activity, where millions from here to England. It is not of hungry bacteria are ceaselessly Somewhat delayed through hav known definition as yet where she tearing to pieces the bodies of plants and animals that we must lock to see how they live and we shall find that their perpetual carousals are just as necessary a part theirs. -

"Bacteria are the connecting link between the dead and living to use a paradox, we must die to live.

"We must die to live! Keep this n your mind. For ease of illustration, let us divide into four divisions this transition of the dead into the living.

and vegetable must have certain food substances for their sustenance. These foods are chemical in of the population devour it and in nature and amongst them is what doing so release the particular ni- "Let us take dyptheria bacillus as protect man that the onslaught of stable, the germ weakens and dis animal can obtain this chemical There is yet another bacteria which does not move from this position tected man falls a victim and in

ulation of bacteria. "3 A plant dies, falls down into together with the sunlight, and car- the answer is to encourage the bac-



nitrogen gas and build it up into against invasion of his body; (2) carded but the latter is retained-it alone preparing his defences, the "1 All living bodies both animal protein for its own body. Then this as a counter attack when they do is our means of defense. bacterium dies and other members obtain a foothold there.

How It Works

The second second second second second

is called protein. Now in protein- trogenous food that the plant re- an example. The organism lodges the germ is of no avail. His energy meat for instance-there is a chem- quires for its own nutrition. In in his throat and there causes a is dissipated in a vain effort to ov- part in human affairs." ical constituent called nitrogen, scientific parlance this is known deadening of the surface lining ercome this protective barrier. and, without bacteria, no plant or as fixation of atmospheric nitrogen. forming a membrane. The organism

fixes this atmospheric nitrogen but but lurks hiden within the confines answer to the urgent cry for help "2 We must now turn our atten- instead of doing so in the soil it of this membranous sheath of artion to the earth-the soil. Soil con- lives upon the roots of plants and mour, there greedily sipping the we again rush to our horse factory sists of a skeletal framework of forms nodules or tubercles. You nourishment of the body of man ing victim a quantity of serum. mineral and rock wherein the aper- have noticed them on clover, peas and at the same time gradually There now takes place within the tures of the framework are filled and alfalfa. Here the plant and bac- sending into his system a powerful recipient a war which is second to with organic residues obtained from teria live as in one house, quite poison which attacks the heart, dead plants and animals. But in happy together, each helping the kidney and nerves. The question the may become so great that man addition there is an enormous pop- other to live. The plant by means arises what counter-attack can we is unable to stem the bacterial adof the green material in its leaves make against this marauder? And

"We are now prepared to wage and slowly but surely the barrier war. There are two ways in which

vance and he wilts, loses courage,

poisonous toxins are neutralize "Truly, bacteria play an activ

Friday, Apri

TELEPHONE 657 VALENTIN DAIRY FOR SKEENA BRAND Creamery Butter & Cottage Cheese FRESH PASTEURIZED MILK AND CREAM DAILY

SHREDDED A SHREDDED WH WITH ALL THE BRAN OF THE WHOLE WHEAT THE CANADIAN SHREDDED WHEAT COMPANY, LTD.

the soil and is there pounced upon bon dioxide of the air is able to teria to make more and more toxin- this is generally the case so long as by these hungry hordes, who tear it make sugar-just as the kind we poison, but outside the body of man. the marauder has not been too long to pieces and in doing so release a use for our tea. This it not only ut- This we do by feeding the 'brute,' certain kind of food which con- ilizes for itself but also passes it giving it the best that science can tains nitrogen, and it is only this along to the bacteria who want it devise, a very rich broth, into whch particular kind of nitrogenous food as well, and the bactera, thinking the bacteria are placed, and in a which the living plant can utilize that one good turn deserves an-very short time the poison factory for its own nutrition. No other ni- other, takes the nitrogen from the begins to operate, quickly and eftrogenous material will do. atmosphere, prepares a food that ficiently. In a few hours what was "4 Herbiverous animals must the plant wants and then passes it once a bright, clear, rich amber colobtain their food substances from along; a truly wonderful piece of ored liquid, becomes cloudy with the plant and we in turn as well as team work. Together these phen- the weapons and bodies of these other carnivorous animals live off omena are known as the nitrogen little assassins. We now strain off both animal and vegetable substan- circle. We have seen the part that these greedy hordes and taking a bacteria play in ridding the world small dose of the broth, which you "We see then that without bac- of dead bodies and making them must remember contains the powteria there can be no life; they are available for the living, and it erful poison that so effectively kills truly the connecting link between might be interesting to peer into people, inject it into a horse. The the dead and living. We must die yet another realm of their activity, horse is our factory for making the to live. one where man is learning to turn weapon which is so effective in Bacteria in Soil against bacteria their own weap- counter-attacking the onslaught of "Now there are other bacteria in ons in his defense against their the diptheria germ in man. There is the soil that carry on a continuous continued onslaught. This division formed in the horse a substance

warfare against vegetable life by of bacteriology is known as 'Im which neutralizes the germ poison themselves devouring this particu- munity.' An individual who is able so that it becomes harmless. Belar nitrogenous food and releasing to resists a bacterial disease is said cause of this neutralizing effect, it the nitrogen portion of it so that it to be immune. I have no intention is called anti-toxin-against poison. passes into the atmosphere as a of discussing the various phases of "After a time some of the blood is gas, which would be entirely lost to immunty but merely to briefly taken from the horse and separated the vegetable world if it were not portray to you a picture of man's into two parts, the red blood and for another bacteria also present in atack upon these invisible bacterial uncolored or slghtly straw colored the soil which is able to imbibe this hordes, (1) in erecting a barrier portion-serum. The former is dis-

