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Communications.

ON THE REGIONS OF THE NORTH,

In connexion with the causes now in activity in destroying the Animal and Vegetable Kingdom, or Animate and Inanimate Nature, from all that is well authenticated.

BY WILLIAM SMITH, Shoemaker, Miramichi, New Brunswick. TO MOSES H. GRINNELL, MER-CHANT, NEW YORK.*

We will now prosecute our design of ex-plaining the causes in activity in dostroying the animal and vegetable kingdom. In these peaceful times, when the progress of events is slow, and the tumult of national war ta-king its rest for a time, the fall of a monarchy, the rise of a republic, laying the foundation of a mechanic's institute, for pouring the treasures of knowledge into the kuman mind, the chapges in the moral and political world treasures of knowledge into the human mind, the chapges in the moral and political world, the awful destruction of human life by war and pestilence, we survey with indifference the operations going on in the natural world, the various wonders that are presented to our view, both on the surface and in the interior of the agent the majesty of mountains, with view, both on the surface and in the interior of the earth, the majesty of mountains, with volcances blazing at their summits, sending forth vapours and torrents of liquid fires, and forcing up from below immense fragments of rock and inducated lava, overwhelming cities, spreading itself among the plains, carrying desolation and ruin in its train, and ingulph-ion the sendent monuments of man in the ing the proudest monuments of man in the bosom of the earth, the inhabitants living in a state of stupid security, regardless of the wonders that sarround them, and unmoved even by the dangers that, sooner or later, may overtake them.

overtake them. The destructive epidemic which seized the potatoe in 1844, became general in 1845. This esculent is said to have been discovered in this hemisphere. In what way it was con-veyed to the Old World, and remained sound and healthy for a long time, and constituted a principal part of the food of the human race, is somewhat strange. In vain did that cele-brated traveller, Humboldt, look for the pota-toe in its native state, when travelling in the toe in its native state, when travelling in the new continent, on the Orinoco, the Rio Pure, new continent, on the Orinoco, the Rio Pure, the Rio Negro, and the Amazon, the Antilles, Terra Firma, the elevated plains of Mexico, and the more elevated regions of Paru. In the year 1818 or 19, Ruig and Domberg dis-covered the potatoe solanum tuberosum, in the valleys of Linus and Peru, in the immo-diate neighborhood of Chili, near the sen coast of the Pacific, not more than fourteen leagues from Linua. It is now said to be found at Montevideo. In its natural state it is small and bitter. One of the most interesting in-quiries into the nature of the potatoe disease, took place in 1846, in England, by men of science. I shall transcribe it, with a little abridgement: abridgement:

abridgement: Mr Hogan read a communication which had appeared in a Continental journal, and in which it was recommended that the potatoe piant should be propagated by seed, as the best means of guarding against the disease. Dr. Croolr said that it had been satisfactori-ly proved that potatoes raised from seed were as hable to the disease as the plants raised from tubers. He considered the disease to be entirely owing to meteoric causes, and not to entirely owing to meteoric causes, and not to anything contained in the plant. It was sup-posed by some that the disease arose from the over-shallowness of the eyes, but he would not concur in that opinion, as it was known that some of the very best varieties were those having the shallowest eyes. He doubt-ed extremely whether any plant had been pro-perly acclimated. All that could be done was to produce new varieties from seeds, and these would unquestionably be better adapted for our climate than the originals would ever be.

Dr. Daubeny said the disease existed in America before it came over to this country. It appeared there in very different seasons, and in different parts of the Continent at the same time. He wished to hear from some gentlemen acquainted with the copper-furna-ces of Swansea, whether it was true, as he had heard stated, that the disease had not made its appearance within the influence of the smoke there. It was said the disease was caused by fungi, but there was nothing to show whether the presence of these parasi-tes might not be the effect and not the cause of the disease. The Dean of Westminster said it appeared that the phenomena in the present year, 1846, were exactly the same as last year; that funexisted in the diseased potatoes was an esgi existed in the diseased potatoes the disease tablished fact, but it happened that the disease sometimes spread in a tuber so quickly that the fungi had not time to make their appearance. It was also a fact that the disease ap-peared in insulated spots in a field, just as the blight was known to affect fields of wheat in the most barren spots, and as the cholera in the most barren spots, and as the cholera stacked dissipated and diseased persons. He perceived one year, when the potatoe disease appeared, characterised by great drought, and sucher by extreme humidity; and the propo-sition he wished to establish was, that the extremes of climate, either of heat or cold, rendered the more delicate plants liable to the attacks of the fungi, the seeds of which were constantly floating through the atmosphere. He thought he could not recommend too strongly the importance of having the potatoes left in the ground for the regular time, and then dug in the dry days of autumn, and the affected tubers carafully separated and the sound ones spread under the sand. In his opinion it was not enough to have new seed, because the newsat varieties had been attack-

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ed as generally as the oldest. He mentioned that on the lands of the Duke of Portland, where eighteen kinds of potatoes were all sound on the Saturday, every one of which had been attacked on the Monday evening following. Dr. Lindsey stated that he had brought home seed potatoes from Norway, where the disease had not made its appearance, and the sacks had only been lying for four days in the shop of Mr Lawson, seeds-man, Edinburgh, when the disease was found to have appeared among them. It would ap-pear that it was no use to import seed from form foreign countries. A member observed that a friend of his

brought some potatoes from Mexico, and planted them in his lands in Warwickshire, and yet the crop which they produced were as much affected as any that grew around them. Professor Playfair said the disease could be

Professor Playfair said the disease could be produced on a common plate in two hours, by mixing the gluten and starch of a scraped potatoe, as in that time the fungi made their appearance. He had the misfortune to be a potatoe commissioner, and after all his expe-riments in that capacity, he freely confessed he knew less about the disease than when he he knew less about the disease than when he began his experiments. It was no use at-tempting to accurate for an affection of which they were entrely ignorate, by calling it a miasma, when they knew that it had existed for twenty year. ..., bould rather inquire what had cause' the dise we to increase so much latterly. If got the stalks of his pota-toes mowed dow, and in a short time after he found the stue, as of the stalks which re-mained in the groute, and which had been at ne found the star, by of the starks which re-mained in the ground, and which had been at the time green and sound, attacked by five different kinds of insects. He recommended pulling the stalks instead of mowing. Mr Burk said he could not agree with Dr. Buckland, that the cholera did not attack all persons.

Mr Ogleby remarked that the disease in the potatoe plant did not make its appearance in Ireland last year until towards the end of Oc-

Ireland last year until towards the end of Oc-tober, whereas in the present year it appeared before the tubers were formed. Dr. Solby said three or four causes of the disease had been suggested, the most import-ant of which were the chemical and the fun-gus. His own impression was in favor of the former, but he should add that he became every day more dissatisfied on the entire sub-ject. He thought that the fungus theory had lost ground latterly very materially. As to lost ground latterly very materially. As to electricity being the cause of the disease, he felt very strongly against that also; and as to its being occasioned by frost, there were no facts to prove that such was the case. He feared they had not into a permanent disease. feared they had got into a permanent disease, which could not be accounted for by any of the causes before known. A member observed that potatoes in which

the disease was only just appearing, present-ed no appearance of fungi. Another argument against the fungus theory was, that all the fungi found in the diseased tubers were not of the same species. As a proof that the disease was of external origin, he might men-tion that it first affected the epidermis, and then descended gradually into the interior. Another fact observed in diseased potatoes

was the presence of cubical crystals. Dr. Crook explained that his argument agreed with that of Dr. Buckland, that the fungi were the consequence and not the cause of the disease.

Professor Balfour stated that he had examined the potatoe plant carefully, and always found the fangus present. It should, howe-ver, be stated, that some form of bobyets at-tacked healthy plants, while others were only found in diseased kinds.

Dr. Lancaster said that the number of facts brought forward to substantiate any pian for remedying the potatoe disease, was quite insufficient. With regard to the cause of the potatoe disease, there had not been one the potatoe disease, there had not been one theory borne out by evidence that would lead to its being adopted by a man of science. That it depended on atmospheric changes was assumed, but there was no proof of it, and there was only the coincidence of certain kinds of weather and the disease. That it arose from debility in the potatoe plant was also on assumption. No debility had been proved to exist. What were the symptoms of debility in a potatoe ! That fung: were the cause had now been disproved by observation. He thought that it ought to go forth to the world that the only conclusion yet arrived at world that the only conclusion yet arrived at was negative, and the more they investigated the matter the more evident did it become that prevailing theories and remedial recommendations were founded on ignorance and assumption. Had these men known how to connect the argument a priori with experience, their knowledge would have showe with scientific brightness. As the disease lies far beyond the reach of manual chemistry, where, then, are we to look for its cause ? not in the doings of the atmosphere; not in dry or humid wea ther; not in the plant being properly accli-mated; not in producing the disease on a plate in two hours, but in meteoric electricity and the millions and millions of atoms or molecules that constitute the principle of ox-ygen and light. It may not be improper to make a few remarks on what the two first prest discoverers say concerning it, namely, Priestley and Lavoision. The doctrine of phlogiston, published by the former in 1800, while in America, and in a great measure re tired from Saience, he says-"having made the discovery of oxygen gas some time be-fore I was at Paris in the year 1774, I men-tioned it at the table of Lavoisier, when most of the philosophical people in the city were present, saying that it was a kind of air in which a candle burnt much better than in common air, but I had not given it a name ;

at this all the company, and M. and Madam Lavoisier as much as any, expressed great surprise. This occurred in 1774. In the next surprise. This occurred in 1774. In the next year, 1775, Lavoisier communicated to the Academy that having reduced red oxide of mercury in a retort, he obtained from it a pe-culiar kind of air, which maintained combus-tion better than common air, and which he considered to be an exceedingly pure portion of our atmosphere. The atmosphere is said to be a vast laboratory, in which nature con-stantly performs numberless processes of analysis, solution, precipitation, and combi-nation is a investment of the back of nation is an immense recipient, in which all the attenuated and volatilized productions of terrestrial bodies are received, agitated, min-gled, and combined or separated. Considered in this view, the atmospheric air is a chaos, an indeterminate mixture of mineral vapours, vegetable and animal molecules words and vegetable and animal molecules, seeds and eggs, through which the luminous, the calo-rific, and the electric fluids incessantly pass and repass in all directions, giving origin to aireal electricity, and meteors producing those beautiful coruscations in the Aurora Borealis.

To the Editor of the Gleaner.

Sir,-The Worthy Patriarch of Northum-berland Division having thought proper to contradict some of the statements made in my former letters, I must, in justice to myself trouble you once more; but I shall be as brief as possible, as this controversy must be as unpleasant to you, as it is "unprofitable to your general readers." I would ask any unprejudiced person to

I would ask any unprejudiced person to read carefully the third paragraph of Mr Johnson's letter, wherein he attempts to prove that the narrative of the Pic Nic was drawn up by request of the *Division*. He there states that on the Friday evening following the Pic Nic, "it was moved in Division" that Filius should be a committee for that purpose; but at his own suggestion it was post-poned for a week, until it was ascertained what notice would be taken of it in the Gleaner. And again—"on the Friday even-ing following, it was again moved that he be requested to preserve the requested to prepare the narrative, when he stated that in consequence of the previous motion, he had written an account of the Pic Nic, and forthwith drew the article from his pocket, stating that he had hurriedly thrown pocket, stating that he had hurriedly thrown together a few ideas (or words to that effect), said "few hurried ideas" occupying only two closely-printed columns of your paper. Now, according to the Worthy Patriarch's own showing, the matter was merely moved in; he does not make the most distant allusion to a resolution. The most careless reader will easily perceive the difference between a mo-tion and a resolution, and indeed the ambiguity of the whole paragraph will be apparent. of the whole paragraph will be apparent. I stated in my letter of week before last, that I had no doubt Filius was requested to prepare the narrative by two or three persons, but I denied that he was appointed by the Division "in a formal manner," and that as-sertion has not been controverted.

sertion has not been controverted. If Filins was requested to write that arti-cle by resolution, why is it not recorded on the Minutes of the Division ? why was it not read and submitted on the evening after it was passed, as customary? It is the duty of the Recording Scribe to "keep a fair and impar-tial record of the proceedings of the Divisi-on." I will therefore not recognize any act or acknowledge any proceedings of the Divisi-acknowledge any proceeding, not inserted in the minutes, and as that resolution is not so inserted, I still maintain I am correct. But for what numers inserted, I still maintain I am correct. But for what purpose was such a motion made, I would ask ! Had you, Mr Editor, not been in the habit of noticing every thing of the sort which occurred in the community, it would have been perfectly natural to make such a request; but as it is well known you never allow any public event to pass unnoti-ced, particularly anything in which the Sons of Temperance bear a part, such a course was, to say the least of it, very unusual, and leads to the supposition that something more was intended than met the eye. Why was the resolution requesting the wri-

Why was the resolution requesting the writer to publish the article not printed with his communication ? Did I think myself justified in using private conversation, I could easily assign a reason !

That the "published resolution of the Di-vision was laid before the Chair in the handwriting of, and signed by, the mover," I have no doubt, but I still assert my belief that it was not his production; and I am confident that every man of judgment who reads the resolution in question, and who may be ac-quainted with the parties, will arrive at the quainted with the parties, will arrive at the same conclusion. As to the "mover" of that resolution having been made a tool of, the public will be better able to judge when I inform them, that that gentleman made every motion, with one solitary exception, which came before the Division in this matter, and took a warm interest in the whole affair. If "Truth in its strictest sense" is one of the things weekly urged upon each member of the Division, is it not somewhat singular that a person, while representing the Division as a member of a Committee, has been openly charged, time and again, with deception and falsehood, and up to this moment no no-tice whatever has been taken of it by the Division ? I will now leave the matter with the public, or with such portion of the community as may take any interest in the question at issue. may take any interest in the question at issue. I reiterate and re-assert every statement made by me; and am perfectly willing to abide by any punishment which the "cool reflections of my better judgment" may inflict upon me for any deviation from "Trath" of which I may have been guilty. I have no desire to outer into a continuers, with the Warthy Paenter into a controversy with the Worthy Pa-triarch. I believe that gentleman incapable understand, of committing any act not sanctione d by tomotrow.

"Truth, Virtue, and Honor" in their " strict-"Truth, virtue, and Honor" in their "since-est sense," and I think it fortunate for the Di-vision that he is in the Chair at this time. For him I have a sincere respect and esteem, and did two or three others whom I could name, possess the same high sense of honour and gentlemanly teeling that he does, this contractory would not here arise

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I shall not trouble you again on this sub-ject, Mr Editor, come what may; and with many apologies for the uncomfortable position in which I have placed you, and others is your office, I beg to subscribe myself, a "gar-uine"

SON OF TEMPERANCE. Miramichi, September 7, 1850.

Editor's Department. MIRAMICHI: CHATHAM, MONDAY, SEPTEMBER 9, 1834.

EUROPEAN NEWS.

Papers to the 24th August were obtained by us on Friday last. The news they furnish is not important. A few selections will found under the proper head.

AN INDEPENDENT JOURNALIST.

Our American exchanges furnish us with the following incident. We would recommend it to the serious consideration of all such who fancy, that when they subscribe to a Newspaper, they confer an especial favor on the publisher ; and when any article appears in his paper, bearing heavily on their " suscep tibilities," or if in office, exposes a few derelis tions of duty, imagine they manifest a prope spirit by writing to the publisher laconic epistles, requesting him to stop their papers. Vo ry many such notes have we obtained in out day, and no doubt the parties were astorished to perceive the paper issued as uso al on the following Tuesday, without manifesting some visible sign, that such an import ant event had occurred during the week.

Mr Langdon, Editor of the Mobile Adret tiser, is also Mayor of that city. He recent ly made some remarks in opposition to a convention held at Nashville, when some of his political friends and patrons of his paper, up dertook to dictate to him the opinions be should advocate, and to read him a lecture of the deference which should be paid by the Press to public opinion. He concludes his reply to their remonstrance, with the follow ing spirited remarks:

"If the course of my paper is not approved, if the sentiments therein expressed are pol such as my friends can sustain, they have s perfect right to express their disapprobation by withdrawing their patronage. If they by withdrawing their patronage. If they think it is exerting a dangerous influence up on the public mind, or if it is not worth of them the price of subscription, let them div continue it, but let them not insult me by a superstance division of the contrast the parts them the price of subscription, let them up continue it, but let them not insult me by an attempt to dictate the course I should pursue I acknowledge no obligations to please any one but myself. If I cannot, in pleasing my-self, satisfy enough of the public to keep from starvation, I will abandon my newspa-per and engage in some pursuit where man's opinions will not interfere with his bread. I, as Editor, acknowledge no obliga-tions to you. If you take my paper, you take you pay for it. If you advertise, you do so a promote your own interest not mine. When ever advertising ceases to be a source of po-fit to you, it is discontinued, and when he paper fails to interest you, you stop it. It all a fair business transaction, and you her no more right to call in question the mode which I think proper to transact my business which I think proper to transact my business than I should have to object to yours."

His "patrons" after receiving this lectors, must have felt their self importance diminish cousiderably from their previous estimate of it.

*Continued.

THE TELEGRAPH TO QUEBEC. The Quebec Mercury of the 22nd ult con tains the annexed paragraphs :

"A Meeting of the Stockholders of British North American Electric Telegraph Association, will be held to morrow in House of Assembly, at 3 o'clock, to take consideration the expediency of continuing of selling the line

selling the line. "It is hoped that there will be a numerous attendance of the stockholders, that some thing may at least be done to secure the as-complishment of a telegraph communication hot mean Our hose and Halting. From inforbetween Quebec and Halifax. From infor-mation afforded to us, the prospects of sup-cess for the company one protects of supmation afforded to us, the prospects of sub cess for the company are much improved, by a recent change of feeling in New Brune especially. We have been told that if the bec Company will carry their line through from River du Loup to the Grand Falls, the New Brunswickers will meet them at the junction; and the line, once established, the junction; and the line, once established, the furnish Reports over the Quebec wires at the same time of serving the Boston office. gentleman from New Brunswick is now is town, on business connected with this extertown, on business connected with this exter sion, or rather deviation of the line, whe, we understand, will be present at the meeting of tomotrow.