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Photographic Sciences


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## ANNUAL ADDRESS

DELIVERED

## BEFORE THE MEMBERS

OF THE

## PREDPRICTON ATHRNEUM,

MARCH 1, 1858,

BY
JOHI WILINSOON, O. D., PRESDENT.

RRINTED BY ORDER OF TEE SOOLITY.

FREDERICTON: PRINTED EY J. BIMPSOR, AT THE ROYAL GAEETTE OFTIOE. 1858.

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 (4) мi apata, ANNUAL ADDRESS.

 THa faptio of athohd year of the pilacid, but, I hopdo? iot viniterditing afatory of this Society, requires uts to retrace togethé ? I trate nit writiout matual profit nid much rational enjoydiont.
 endeaduared to totata that path in agróeable metary havi not beot ificreased by a number of hterary eftorts equal to tho average of preceding years. Tthint we cannot firly ithptye thet of thatitic of effott 3 for it boliove that engegements of this tind tave boen weasbotily fulfilted; thit to abiedtice, It
 dateatande hapeg di aiore than orie occabion; been inisuficient
 Whethorithe triugurey of thifs rule mijhe not be sb rolated à herdafter to obviale that alficiolty without jovolving eowne greafor intorvonietre, is a point which bag Erom time to tome been inooted, without leaditig to eaty definite propontaitomb It
 the adtantige of dimch freedons from peremptory engageanents anid hindsamees during the greater portion ah hie time, is would be comówhrat etanguine to expect that the aitendance ihonld当ovar fall short of the requirement of the ruler: On che whole, arveview of the invtancem of failvire under such circumitances whldy I am persuaded, be such an to form ino goound of dise couragéments On the codtrairy I think it would appear that the breidy adal of a certain number of our memberal has aliváy beeh ed far auperior to ordinary caiused of abwence; that in moist caties, had the number required been lesia by a single unity ia order to form a mieoting the members precets could have proceeded to business. Whecherithis may bla oufficiẹint reason why the rule ahould be so fiu changed air to carcelin fidture tho leme frequeat cisappointment of thow tho
punctually attend; or whether it should be rotained as it in, in confident reliance upon an increased vitality of the Society through a more lively interest and earnestness in each individual member from henceforward, are alternatives worthy of our consideration. For my own part I am disposed to profer the latter. If through apathy and indifference wo should permit our Society to fail, it would, I am aure, be a cause of enduring regret, if not of self-reproach, to each of us. In the times in which we live, under what other auspices could we meet with equal unity and good underatanding, for the free interchange of thought, opinione, and apeculations, on subjocts of interest, poasibly, in the course of events, of great interest, both to ourselves and to others.
Of the Papers read before the Society during the year, the first in order was that entitled the "Chivalry of the middle agen," by Mr: Roberts. : It will be remembered as a lucid and graphic epitome of the history of an inatitution surrounded with romantic intereat, the influence of which on cociety and mansers has no doubt deacended to the present time. The chivalric era wat that which marked the gradual but slow transition of European society from a semi-l)arbaric and oxccedingly ungettled condition, to that of a more refined civilization, settled government, and general regard to the principles of virtue, truth and juatice, amongat all classes: During such a transition the social atmonphere could not be otherwise thian frequently blackened and rent by those stormy elements which entered into the process of purification. The mont energetic and prevading of those elements was, no doubt, under Providence, the apirit of chivalty. I apprehend that the general viewi and deductions of Mr Roberts are in close accordance with these of accredited historiansb My limited acquaintance with the subject does not qualify me to add any thing to what he has said so well'; and I accept with deference the pleasure and inatruction derived from the pains and research embodied in this paper.
In the succeading month (April) a Paper on the subject of "Chess," was read by the Rev. Mr. Spurden. I should have

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otained as it itality of the atness in each latives worthy a disposed to difference we am sure, be a to oach of un. auspices could 18, for the free ns, on subjects great intereat,
the year, the of the middle as a lucid and on surrounded on cociety and nt time. The adual but alow fbaric and oxe refined civid to the princireses. During t be otherwise ormy elemento a. The most no doubt, unehend that the re in close acAy limited acp addany thing deference the and research the subject of I should have
been glad to bave refreshed my recollection of the manner in which the gabject was treated by reforringegain to this paper; but rogret to find, upoin onquiry, that it in out of reach; I have furthot to regret that the author is not amongat un this evoning, and that his connection with us has been co brief. His steady manifestation of interest in our proceedinge, and pleasing literary contributiong to our edification, claim for him our kindly recollection and bent wishol. To return to my subject: We ara told that the very ancient and scientific game of chenmhas been known from time immomorial in Hindostan by the name of Chaturanga, subnequently in Percia as Chatrang, and in Arabia as Shatrang ; if my memory do nol deccive me, the introductory part of Mr Spurden's paper was an ingenious ondeavour to trace through various countries and languages the gadual tranaformation of the Asiatic "Chaturanga" into the Englinh appollative of "Choss." Whether he wore quite succenuful in detecting the rather distant relationship of thene somowhat disconant terms, I must neceusarily leave to the judgment of those converant in etymological and Asiatic lore. Whatever the vicisitudes of ite orthography, this elegant and refined game seems to have retained, from the oblivion of remote antiquity to the present hour, a certain dignity as the solace of the private houre of the highest and the noblest, whilst equally ready to lend ite charm to the leicure and relaxation of the humbleat. The principle aim of Mr. Spurden was indeed the philanthropic one of recommending the game as a means more, or less within the reach of all, of rationally and agreeably unbending the biind at those intervals which are universally folt and acknowledged to be necessary, and without which both the bodily and mental energies would soon become prostrate. He was equally careful to distinguish this salutary object from the idle and vicious one to which all amusements whatever may be abused. It would appear to be no slight recommendation to the more general cultivation of this game, that ite quiet and domentic fascipation should be sufficiently poworful to wean a very numerous clase from less innocent resources. During the converation which followed the reading of the
paperyit wai remarked by one of our memberi, whone comparatirely recent opporeanicies of perconal lenowlodge gave the more intercet to what he utatedy that tha rapidly increating appreciation ef chome amonget the workiag population of Fingland had beon notived an la gratifying indieation of their

In the month of May a Plaper was read by Dr. Toldervy of those diteaser which, daring this loug professional experionco, he has noticed as moro particalarly ticidental to the locality of Frodericton and tit ticinity. Such a paper would, 1 conceive, be valuable to the medical profestion anywhere, but to uf and to residents of this neighibourlood it is of special interest. It it not my province to dwell on the pathological details which the author hats so comprehensively and lucidly brought together, but I hits a few wofds to offor on his coal cluding hemarks. Substantial measures of tanitary improvemettit are liable to be too long neglected even in old and wealthy communities ; and in those which, life our own, are comparatively new and slow in increase of numbers and wealth, mere temporary expedients are fróm year to year adopted in order to ward of the evil day ; but as population becomes mord dense, such expedients are seldom tf ever adequate to prevent the accumalation of impurities and consequent aggravation of disease, until it breaks out in some pestilential form ; and not till then, under the impulse of sudden alarm and dismay, are necessary measurós gladly adopted at almost any cost, which during the period of comparative ease, health and security, were not thought of or continually deferred. We have seet this illuatrated in maty of the principal cities of Europe and A merical especially ance the visitation of the cholera. It may We that the urgency of such mesoures in Fredericton is not so great tas in many places of larger population. The locality may on the whole be rogarded as com paratively healthy. The to wifis most favoutably situated fordrainage into the magnificent River on the margin of which it restes. But it is doubtinl whethef any thing like an eficient drainage has yet been attained, and it is certain that nothing more than the ordinary rainfall and
, whove com edge gave the lly increatimg population of ation of their

. Tolderry ot al experienco, to the locality would, I contwhere, but to $t$ is of special ho pathological ely and locidly fibe on hir conaitary improveold and weathy a, are compara id wealth, more dopted in ordef becomes more uate to prevent aggravation of 1 form ; and not and dismay, are any cost, which th and security, We have seeth of Europe and holera. It may ericton is not so The locality may hy. Thetownif agnificent River oubtiul whethef on attained, and hary rainfall and
the molling of the mintorte onow forw the Agewreien for withias off the eccumulating aurfice and othan impuritian lit Th a greas extont indoeds, shomat aro not, mashed offi buti from thitheont oharecter of the ground ate necemarily stoperbeds' whitut the water which must form the bevergigand onter langely intactic food of the $\mathbf{g r e a t}$ majorits : of, the inhabitapte, is mainls if not wholly derived from valle gepplied hy the, alow filuationiof such wahinge through the surrounding, eoift We know mhat, the gharacter of guch surface washing must be, especially on lavel ground whene bary sapdy, atables, pis atyen, and othar sourcen of regetable and apimal accunplation in procese of decas and colution ara alreads nymaroms and comtianally extppiding It hat ofen occuirred to mp thet thene circmmp atnncas could pot continue mapy jeare, without sancibly affect ing the salubrity of the Town; and that some mode of religuif the inhabitante from dependence on, the ordinary wella for a supply of water must arentgally ikg deviged. The information gommunicated by Dr. Tolderivy is pomewhaf atartling evidppes of the importance of this quentiop: Ather advertips to the vienfe of others, eminent in the medical profespipa, as to the infuence of certain conditions of air and mater in producing apidemig disennes uppecielly arising from the prosence, of crypugamgus fungi, he proceopla to cayr that endiemic diseaies more, particularly proceed fromplocal ceuses ; auch as the decamp papition of vegetable and animal mattor, effluvia from comp poolm or vaults, imperfect drainage, unwholemome and impurs foode impure wator, magmaign "uch "Water" he" addis, "copartitates a mpat impgrtapty and eacential payn of our food; and itian highly neegsgary that it ahguld be pura; for aryen of thacolid foodiwhich wer ath wator, congtitntet four fither is It may heinaid that aven ring teathe of all the fopd, we.take if maten" fis "Now?" he continuen, "with spapect topthelexistence Of (orypipgeamus plapten and stheir sporem in ithe atmosphere, II am not prapared, io, say, much, but that they exit in all she water wadripk inepident ongugh of I have made a microscapic oxaminatiop of tha, water takon from tep or a dogen wells in difforent parts of the city within the laghfow, weoker and thay
are all rich in fungi. The most common is a apecies of the botrytis family. In relative proportion to the quantity of this fangoid growth in any water do you find a corresponding amount of animal life, from the simple virbrione and monad up to the paramecium, vorticella and rotifer."
Sach, then, is the compound which we are in the habit of consuming as pure water. With lipg parched by the heat of summer, we hold it up to the light, admire its cool and cryetal tranaparency, and nnable to detect with the naked eye a floating atom, we freely quench our thirst with a liquid load of vegetable and animal life. How far theese ingrediente may be rendered innocuous by the process which water must undergo in the preparation of our ordinary food, we cannot tell; but it is certainly desirable that, as a general rule, they were not there at all.

The expense is, of course, a standing obstacle to sanitary improverient every where. But it may not prove comparátively expensive to obtaid a supply of pure water for thiv City. The firat underlying stratum of clay is that which holds the surface water, and forms the bottom of all the present wells. Below this the surface impurities cannot penetrate, and may be seen finding their way from this lovel at various points along the bank of the River. No experiment, that I have heard of, has been made in order to ascertain how far below thie stratum of clay it may be necessary to penetrate, before reaching another and more ampleand unfailing supply of water in comparatively a pure state. It is not probable that this depth need bo much lower than the lowest surface level of the River Saint John, say from 25 to 35 feet, according to the situation in which the borings may be made, or about double the ordinary depth of the present wells. The situation of Fredericton would appear to be highly favourable to this mode of supply. At the wort, the question would become one of comparative expenve, whether the emergency could not be met in some other way.
It is highly probable that a liberal supply of pure water could be procured, by collecting the springe which issue from the high ground in the rear of the City; perhapn sufficient for
species of the uantity of this corresponding ne and monad

- the habit of by the heat of 001 and cryetal ced eye a floatliquid load of sdients may be must undergo not tell ; but is they were not acle to sanitary ie comparátively this City. The oolds the surface ht wells. Below and may be seen point along the pe heatd of, has $w$ this stratum of reaching another in comparatively th need bo much ver Saint John, tion in which the brdinary depth of con would appear 7. At the worst, expente, whether ir way.
y of pure water which itsue from hapi sufficient for
the population for a long time to come. There is, however, a still more copious supply available, though at greater expense. This would be from atreams within a distance of from two to five milen, with the important advantage of flowing from a high level, say within a range of from one hundred to two hundred and fifty feet elevation above the level of the City; as mighr be deemed most advisable. At a rude estimate, I conceive that a supply on the most liberal scalo for the sanitary purposes of $\mathbf{8 0 , 0 0 0}$ inhabitants could be thus obtained; but, including necessary filtration, the whole expense : would be heavy. No large a demand would also be remote. At the present rate of increase of the population it would not occur within the ensuing half century. In the meantime, if the more available mode of sinking only to double the ordinary depth beneath our feet snould prove to be effectual, then the important recessary of wholesome water ought not to be wanting to the poorest family in the place.
With these observations suggested by Dr. Toldervy's paper, I proceed to that read in the month of Juno by Mr. Vernon Smith, "On the past, present, and future of Atlantic Ocean Steam Navigation." The author engaged our attention by a vivid, comprehensive, and instructive resumé of each division of his subject, in a manner to be expected only from ons who had given to it much patient consideration, con amore. His introductory remarks in substance consist of two general pro-positions;-1. That transatlantic steam navigation, from ite too costly character heretofore, has not been so beneficial to these Colonies as their importance requires; and 2. That recent economical improvements in this mode of transport; now in successful and extensive use, are adapted to remove that difficulty, to enlarge the interests and to strengthen the ties between these Colonies and the Parent State, as well as rapidly to bring all nations into peaceful intercourse. Before explaining the improvements to which he alludes, Mr. Smith briefly sums up the previous history of steam navigation. He assigns the merit of the first successful attempt to Symington, a Scotch Engineer; in 1802; and not, as sometimes claimed by our


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 at the opoch marked by Jamen Watt's great imperemon'ion
 In telehm ravightiong the anihof rominch wallatr che fiviv ronlis

 de Theve Riverv on the St. Lawreacer by Uanallan moctionions fited will Canadian engineng commandod by a Camalian
 the idiportatec of otedum powid in the equipmeat of veitely of war, ito well wo ha the conimercial maxines had tocome gemerally recogrixed ; aud Britioh bhit and onterprige becatue Furgely
 The year 1838 witnewed the ealmbinimient of cotripeting Ocean fleamers, wad in the bante year the Britioh Goverwment Invited temderv for them entreyance of tho haily meoweat England and America, which reulited in the emablishmept of the Cumard Lind of Fackdas But motwithmaniliag the muldess of Oocen: Eteam Navigation as ase achidrorsent of nativat and mechanical afill, the lapse of many yearn of experience: ame improviment bay toaded only to confifm the momoitble and vecinetimes derided predietion of Dh. Lardner, thaty as, thet addeosood and applied atean power could nat be commeny cidlly profitable for ocoan iveyagem * It secmenow to he adtrist ted that the remarikable suscess of the Cunard lime of Packetion the uafailing regulariny of whigh for nearly twenty yoarm hap been theadmiration of hoth Continemtan eeuld not have boen uninaited withous the large zobsidy derived from Goternment; and that the same is equally true of the Oolline' Line is the United States; is proted by ita entire failure recemty amnounced. In the meautime new methods have been variownly tented eq at eyemually to prove that though Ocean Steamers which rot tain: the cumbirous paddlowhol methodi of propulaion; may thue be wemoidaly dependent upon adrentitioue aid for conf mercial aticcesa, it in not mo with vessels, which can!fulfy unite

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thry? antaget of heoti wind and usem, we permitted by the ueor. thq ansiliary screw. . Mr. Emith hater explained io what thase united edvaintagen rompiat. Thoy ware tuch indapd thet

 mill be preforred both in wemels of war and in shome of tecmmerce int The ecpaomical romali involved is shi complotaly sudcenoful stanultion from a very cently to a comparativaly interpomive mathod of atsame propulciopy capmot iot othorwin that wing important to eommerce inviverpally $s$ and I think me mas) agree with the intelligent duthor of thic papan that the
 pellod Oceine Stepametra has suolved the bud and promive of a hnilliant futuses mat oply te that Province, but olso to onr own, If wo in like manpere arail qureolven of fout geographical poph? tion end nompercial rengurces. Drom a ponviztion of many yearentandings it it mot diffigult for me to apsent sa the propop pitiopy thet, ip ponmectiog with a judicionn syucm of Railwayw poth Shediac and Miramichi have adrantagen which aro wanting to many of the Rorts at present adopted by Oceaa Steamert. The peculiar adyantage of Miramichio during the poriod of navigation, is that of cloner proximity to Furope thap any other part of thie Continapt pomencing equal recommendations apt pojnt of divergemeo far railpay communication with the interion Fipr geean aprigation, sha diatanco from hopce, say to Livorpoph in Enpland, is shprter-
than fram Halifax about 80 naytical milen, or 8 houre in timat


Fot centinuous reilway communication it ist co compered
 sispry 220 tmiles aearer to Quebec, Hiv Juru0 hrs


The produce of the Went bould be brought ty way of the Saint Labvenoe to Mirtimichi abla commercial ontropot, at fe to 100 por coocit lesn cont for traniportation that by cianal and railway to Now York and other ports of the Aclantiew These would be the adrantagen of Miramichi daring the mummior scason, or the beven monthe which oinbrace on an average about 80 per cent. of the butinems of a he yeared During the wintery the accumulated merchandize at this place could at any time talle advantage of the market by means of about 170 miles of railway tránaportation to Saint Johny or 120 milas leis thán botween Montreal and the nearent Atlantic port. Such are the obvious goographical advantagen appertaining to this Province for nteam communication with Europe and elcewhere - atanatager which have long been undertitood, and whith recommend the eventual eelection of tudh point on thie Gulf coait as uhall for all time be bent adapted for an ocean packot atation, and ai a diverging point of a ayitem of railwaya at one Provincial, Inter-Colonial, and Inter-National in its character. ${ }^{-1}$ In the concluding portion of his paper, Mr. Smith discuisen with much inteligence and ability, the leading peculiaritien and the probable success of the modern wonder of art, at the time Nnown as the Great Eastern. The majestic proportions and perfections of this tracture have since, however, been in due form better recognized by the name of The Leviathan. The high anticipations which had been rained of the dentiny of this future monarch of the wavel, were, for a time, clouded by the partial failure of the firt arrangementr for inauguration in the element of her reign. The latest inteligence assures us that this difficulty is past; unabating interent will attach to all her future movements'; a little while will teat some at least of the multifarious speculations associated with this unparatleled enterprise, and prove whether the satme modíl can heroafter be prudently repeated, or, whether a emaller dencription of vessel, with some or all of the like improved arraigementid; may not be preferable. In either case it is evident that the enterprize of the day is vigorourly aiming at, and no doubt will achieve, improvement in this direction.
way of the cropot, at: 70 d cinal and utiev: Those the wuminion ran average d Daring the Hace 'ould at of about 170 120 miles leise port. Such sining to this and elfoumbere dj) and whith It on the Gulf oceean packet uilway at once 1 tu character. minith diseutiters butliartites and lit, nt the timb roportions and br , been in due - Leviathan:" of the dentiny a time, clouded or inauguration ligence assures It will attach to tsome at leaut ho this unparalmodé can heroIller descriptioú - arraigementy, bvident that the nd no doubt will

In the mionth Norembey ia Paperstion Eloquidneett was road by thenLlevërelad Dri Brooke" This mulbjecty interenting atiany times could not fail to be ad in the hands of ope whomy ow previous ocemaiońs, wo had fovind at home arid in his éongonial oloment, on kindred themean On this occasion our Reveremal. friond introduced ar to a right conception of the anabjecty by. disiminong from our minds the notion, if such oxicted, that eloquance is merely an ait devised by any ajotom-boildets $\alpha$ either anciont or modern timesi Ho showed ue that it is not neceinarily asciociated with the talonte rand aequiromonta by which the accomplished drator maty command our admiration; that it is something independent of the merpeg gaces of language which arrent the attention and plepee the cars, that it doen not connint in the readiname of tdeani the fluepey of well-chosen wondes the abundant imagery, the aptnese of illuatration, the varied and declamatory tono and action which formetherequurgee of oratory. Thene may conexiat with eloquepces but otherwise, howerarsperfect, will' hos be eloquent. That in mhort; a clear approhensipn of thid power is not mo eany as at cirmes. glance might appiear. That the definition of she term itcelf ie difficule, is shiewn by the unimatiafactory definitione by eminent literary authorities which Dr. Brooke has adduced. It appears rather to be one of those terma, the meaning of which is more eavily conceived then defined; like quieknilver, eluding the touch and refuging to; be moulded, like a vulgar metals into: specific shapen Those definitione, indeed, which were placed betore un an the leat objectionable; have atille degree of indist. rinctrese which leaves something for reffection ta supply. The charioter of the individual, the importance of the subject, and the emergency, are no doubt requisite to pro-engage an audience; : whilet truth, earnentnens, clearness, and copeontration, seem encential to the power of eloquence. Thin is, I think, a fair deduction from at loast two atriking but very oppopite. examplee prenented to ins ; that of the venerable but noveforgotten member of the British Parliament who wrappediup in a short wentence; a force which houre of declamation could not. have: atrougthened ; and that of Edmund Burke, of immortal

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exemoty whope Tumiarous prolixity was wolt to produce vearicois mona noadily that contiation. I idhall, thowevery beet comath my own erodis if I ida mot trtiot myable furshar op:this subjecter but nethar emani the Socinty that the interentive paper to fheich I have now retalled theit attiohtion, wao clomit by an intimation, that the author might at futand timo anppig what ho hadithen oftittody and cito, amongot other ozamplow, in illustration of his themey comb of the senteatious eloquenco characteristie of a tato noble Duke Erom this I gladly infor that Dr. Brooke hee in remerwe a portion of hie Emay inuch soo interenting and ihorrmative to be poutposad theyond unch bandy
 At our lait linceting the prigremivo maprovements ith the modern mithod of aiderthining lohgituded by mignetic telo-
 mantier, which on many former oceatony and on oction inabjourt, hat conduced wo matorially to our ploanure and intruction: The obviertations of ste learned ipibfensor were illuwated by a miodel of the maghetic tulegpaphy and by wordral diagrams - pidanitury of the mode of obinorving tifo tranaif of the heavents
 of uiguals thy the tolograph. (Uoine of the resitis of the joint Thbourn of Den. Toldervy and Jack in this method of ascertaim: ing longituder, have alrwady been boffere the Edciety; and there is overy probability ethat thdy info exaed to a digriee which caw not te hoped for by the ordinary methody in overy improveatent, howoveri, in practical selonce, riome imperfettion in the nifte experituente to to be expected, and the presint case wais not an ercoption! It way first notlcdd, I tolieve, by Profeasor Botd, that the regletration of time and the inutans of the tramnit of tany given itar might be accompliahed independently of tho ihaid and the ear of the observer, by aid of certain mechanical atratygotmentis in colineetion with the magnetid force and the nibventionte of the antronomitcal clock ine urceoded in applying thive ided, leaving by indcesife improvemonts, searcely any thing to be desirdd in the precinion of the registrationt The netut heep wate to iavire equal precinion in the
obvorvation, by wifordiat to the undicurwated miciacips of ditse
 mige acrose the feld of the initrumonit, thase progeomeivels tufinitg ae the learned Profecore azphained to ad, in ordorito attaide resolty imber and rinore exact, be to mill inare withote Practiond of a sictond of tither To thone whis may nut hase givon some ecrasideration to the subfecty the importance of this refinoment may not at the frnt glance the appareat y but it is readily understood whein wo apply it wa chock upon extencive trigemometrical and othor meanurements on the ground, requizing the aztrame chro and precision of thote appertainins to a great national undertaking, like the Coant Simvey of the United
 surveje of a cmaller extant Now we ondinarily regard ancond of time as en exceedingly amall epace, the mallemb indeed that we srouble aurselves to notice: but when wo apphs it to the lineal admeanmement of the earth's rotation, it is found to feprenept on a parallel at the eguntor an extept of 1521 feet nearly. This distapee, of couree, dimiainhen ot eveory parallel succemaively towarde either pole, proportionethy to the sine of tho co-latitude. In tho latitado of Tradericion it regrosente 1077 feet mearlymthat is to may in lan eait and weat direation s and a tenth of thin cortespending to one tenth of e ecoond of time, would be about 108 feet. We therefore perecive that Whilat wo are refining in thia method of atcertaining longitude, so an to be exact, with tolerable certainty, to ondtenth of a socond in time, thit meane thet we areatill certaia only 位hin a range of 100 to 150 fect, lineal meanarbment, according to tha latitude of the iplace. Iut in a properly condacted trigonometrical gurvoy, an onror no greater that this, in at extended aytorn of trianglen, wauld be inaidmisaible and porhape axceediagly perplesing s and the valmet of the olectro-magnetic method, of atcertaining longitude wewld be io promptly detecting in what meridian of the mytow such an error had occurred. Prior to this mathod of oryertaining ion gitude, I feel justified in saying that she reaulte of the ordinary mathode are nearly valueleng where a reliable check on the
selatire ponition of remote points on the ground in importang; exceptim thase caseo where unlimited paine aided by the bent applianoes, pecestarily involving great expento, have been employed. It in, however, scarcely necenmary to remark; that thereiographic method of ascertaining longitudes can mupersede other methode ouly within the limita of an eatablished telegraphicasytem; and that on the ocean, or in uniphabited countries, or in those to which the telegraph har not jet reached, the ordinary methodi must atill be puraued. sivility d have now gone over the ground marked by the proceedings of the Society doring the paat year, and though we may not have wroughtwondern, I trust our labouris have not been withont resulte to which wo may recur with eatisfaction. We have, on the whole, passed with succens through elaroingeviri probation, I crust in a manner not to require any of us to look back with regret at whatever share he may have taken in promoting that succeas. It has been sometimen said by individnal members here, and those the least likely to háve bceation to say so, that they had been lead by the obligations of our rules to reading and ievestigations on aubjects connected with our proceedinge, from which they hed derived both pleasure and instruction, which otherwise they should probably never have eijojeds I doubt not but that this adtisfaction is more or less shared by each of us, and in my own caso, I the more freely acknowledge it, because it is ope of the proof of our success. This was one of the objects proposed when the Society was founded; burI think I am right in aaying that it was not intended to circumacribe our viewt of benefit to our own limited circlo; but as thé Society increased in numbers, in combined intelligence and constitutional vigour, it should if possible be more influential for good, and particularly with reference to the industrial intereate of the Provincel 1 am prompted to make this remark by the dark cloud of commercial deprestion which continues to hang over us. We are, I believe, unanimous in regarding our dependence mainly on one, and that an exceedingly hazerdous branch of induatry, as greatly to be deplored ; and that without multiplied employments to create
itgulat markotei, wo munt havo a languighing nariculthifea, And precariont gleame of prosperity. To increase mere numbars bi irmigration could only add to our embaruasamant in wh Lave numbers elready unemployed Is I will wotoccupy sthatime -f the Eocidy trith the detaila upow which I found mang settimates but I think I am safe in sayiagi that there are iwithin shp. munnicipality of Fredeticton alone, al namber of pernon of various ages and of both sexes, not lem shan 500 , who, thgugh not abeolutely uniemployed, oould without detriment tol apy other employ ment; be transforred to new and prefitalio ener ploy ments. Suppose that number of persons coildsione with unotben earn niore than in now earned, only fira ebillinge per week eatb, the year round; at bome new branch of induatres; this would ind more than $\mathbf{~} 6,000$ to the income of the whole community, with the urifailing morah and cocial nesulte which mark the differance between;induatry and comparative idlengap. thl If am hot greatly mistaken in this views it is then of corresponding insportahce tn us to invite and promote the immigration, not of miere numbers indiscriminately, but of \&ill nud experienots, with a due proportion of capital, in such arts and manufactures as are evited to cour circumotances; and without which, during the stagpation of our lalmost colitany oommercial resource, our agricuhure mant be withóit a

-It is therefore, I bonceive, of mach imperthnce to acquaint ourselves with the history and example of communities everywhere, which have sigualized themselves by suocesmully enlisting in aid of their growth and prospeinty, such of the industrial arts' a's may be applicable to our owin situationa $V$ ly ai We need not conline our wiew to mechamical and manufacturing arte only It may be possible to cultivate cettain corops with advantagos, mot only for domestic use, but for exportation; nay for instance flax, themp, or hopse The last is indoed indigemoas to the soil, growing ranki and meglected in the eeesses of our unreclaimed alluvial lands. In England this crop is exceedingly precarious, In this oountry it might not be so ; or it might be abundant when a failure in England.

Thie ofuty is indeod enormotu, and in abundant yours wonith preclide importation in England; But the article hase the cidvatitage of not being perishable, and could be atored for uni indefinite perind to a wit a cemunérative market. All Wuch inattere aro worthy of enquing, and I think aro legitiThatöly within our recognition. ina at zles fubs I sublil I sud To Avthe irith of a little tediousness I will mention another crop, of eass doubtral description, in the abuadance and quality of which Now Brunswick equals, if it do not exceod, any" other couniry whatever, and what is more, this crop does not require either capital ov immigeant laboun for its cultivation; te is of epotitanioo's growth: To our rejuroach beit araid however, like othe blessings which are freely a warded to us in unlithitéd abowdance, it is neglected, if not too often/despised. We let the opportunity of gathering it paisy anay and when We sé it wasting and disappeaing before our eyes, we zather rejoice:at then regret the event. Noither the pradent, nor the economical nor the philanthropic reflection disturb our minds, that millions of our fellow-beings in distant climes will pine and lianguish for that which was shis in of power to Bupplyjor $\mathbf{Y o u}$ all know that I allade to what our enterprixing

4. This isalutary product has beeen appreciated in eastern mations from unknown antiquity; and that it was so by one of the wisept of men has been thas perpetuated in thee Book of Pro-verbs-ar That as the cold of stow in the time of harvent, is faithful messenger to one that sends him; for her rofreshen the soul of this master.? The saleiof ice and snow procured in the caves of Vesuivius and on the more elevated parts of Etna, is said to have long been a considerable branch of trade in Naples; Catania; and the adjoinipg Towns; and in all the south of Italy and in Sicily those articlesiare vegarded as of prime Inecessity. It is inot many yearg since the speculative genius of New England was directed to ice as an article, of commerce, which that country could a abundantly iupply ; and it has wishin a short period ibecomel albusiness of the first importance. The field of demand embraces (besides the American Unipa)
 India and Chimail givies omployment to'a very largo tonnege vengaged in this trade, which it carried on from Booton, aph supplied thy a fow Immall Lakes or Ponda in the Stato dif -Massachemette so gigreat have beten the impprovements and increabed ficilition of the trade, that ice, which int ites come mencesment oost ficente per Ho. in New. Orleaps and Havaupah, may now be had for tone cent. In Calcutes a warenhoute, denclosing about three quatiere of an acere of ground; bav boon erected athd filled upito hold $\mathbf{3 0 , 0 0 0}$ tone of ice, and a s.imilar depot hàas been projected in Centon. So long ago an 1841 thereiwert ino frewer than aixteen Companien engaged in thè Boston ite-reade, which have since greatly ïicreased In the your 1848 thie estimated ex port was 80,000 tones The Tiupply ts principally from the Wenham Lake, exid is conveyod by :about 18 : milles of railivay to Bontodn.

- Let us giglabees at our owin positition felative to this trade. IA few days: will carry off probably not lesa than a million of toas iof pure ice from the iminediate front and neighbourhood of the landing of the ceity of Fredericton, or twolve timines the export, jiist mentionied, from : Boston, and which wae brought eighteen t tuilen iby railway. The quality of durability ab important to teee, is in proportion to its purity and ihe temperature to which it has been aibjected. The marketable value of iour ice, iwould, in this reespect, have an adyantage of from 15 to 20 degrees in the intensity of cold as compared with that of Massachavetts, or itven of the shores of lourionn Province. Sawdust, ani esisential material for packing, oxideta in and neair Tredericton in abundainte, to remove which woutld be h public benefit, and probably no logst to eahy individatal?
Hy Ladvert in a generai way to thene facts; to shoir fiow, even onder present circumstartees, it is poisitle that a plate with the advantages of Frederictoo, instead of Bing stagndent 'dturing the winter season, miay be thilmated by at least one brandh of industry; the raw material of which it prepared by nature to our hadnds. As to ite 'profitable character, much minti' of rourse, depend on the tact, intelligence, and good management


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-fisuelf men of bubineit as imighe engage in the trade. The. Nok would probably be too great for any individual in the firit motance to undertake it alone, and the united midans of a joint hitock association might be advisable: But in either case it would perhaps be unprofitable for some time to nome to conhpete in diutant markets with merchante long eintablished in the trade. A more feakible course, if even at first less profitable, night be to sell to those mereliants Assume, for illuatration, that 50,000 tons were stored at Fredericton with a view to exportation: Fivalued at 10s. per ton, inoluding all expenses and profit, deliveredon board at Fredericton, it would make a srade of the value of $£ 25,000$. It is not unreasomable indeed to absume that by. juidicious arrangements'we might pay for ell ahe West India and other tropical produce we require, sichins sugar, ooffee, spices, rice, \&c. by means of this trade alone. From all parts we hear that further westward the "ice-crop" is a failure. With us it is abundani, but unfortunatoly we are niot in a condition to use the advantage. Like all other branches of trade this will be liable to irregularities of supply and demand, fand to the evile of imprudent competition and speculation. These oontingencies may éven mow exist as a temporary discourago(ment at the seat of its first great success. But it is certnin, that without an entire change in the meteorological character. our planet, the ice-trade cannot cease to be one of much importance, especially with modern facilities of transportation; and it must tend to centre itself where quality, quantity; and the greatest local facilities invite it. The result must, as in ether cases, depend, under Providence, on the inteligence and good management with which it is conduicted.

I will not fürther weary you by extending these observations. If they may aid in, assuring "ss that we occupy no repulsive or unpromising field, and thet wift diye regard to the varied tastes and acquirements of atenvers, we need not lack subjects of cultivation worthy of our unabated interest, I shall feel less sensibly the imperfections of my own share in the duties: of, the year.

The. heifirit a joint cave it c com 1 in the fitable, tration, view to xpenses make adeen to or all the s'sugar, From all ifeilure. in a conof trade and, and These courage certain, character of much ortation; city; and ust, às in ence and
observano repuln to the need not ntereat, I share: in


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