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## List original Anencber of Suchonvin motitute

CONSTITUTION.

1. This Society shall be denominated the 'The Meccasics' Institute of Saint John.'
2. Its objects shall be the instruction of Mechanics and others in popular and useful Science, and its application to the Arts and Manufactures, by means of Lectures, Apparatus, Mociels of Machinery, a Museum, a Library and a School.
3. This Society shall consist of an unlimited number of meinbers, who shall be divided into two classes, viz: Regular and Life Members ; Honorary and Corresponding Members.
4. Any person paying Ten Pounds may become a Life Member, provided he is recommended and chosen in the same way as regular members; and such life members shall trot be called upon for any annual payments.
5. Tho Officers of this Institute stall be a President, two Vice Presidents, a Recording Secretary, a Corresponding Secretary, a Treasurer and twelve Directors, to be elected annaally by ballot-the persons having a majority of votes shall be declared duly elected; provided however, that no member whose dues shall remain unpaid for twelve months, (unless he shall have been exempted from payment by a vote of the Society) shall bo allowed to vote at any such election.
6. The President, Vice Presidents, Secretaries, Treasurer, and Directors, shall constitute a Board of Directors, with full powers to appropriate funds (under the direction of the Society) and jointly to conduct the affairs of the Institute. Not less than two-thirds of this Board must be operative mechanics.
7. The Recording Secretary shall engross in a book, to be kept for that purpose, the minutes of all the transactions of the Society, the names of the members, of donors, and all other matters requiring to be recorded. He shall also receive all dues and donations in money, and pay the same over to the 'Treasurer, and take his receipt for the same ; and shall also make out a Report quarterly, and exhibit it to the Society; and post up the names of all persons proposed as Candidates in the place designated for that purpose.

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8. The Treasurer shall receive all dues and donations in money from the Secretary, and gave a receipt therefor; pay all drafis on him when signed by the Secretary, and countersigned by the President; keep a regular account of the financial concerns of the Institute, all abstract of which, accompanied with satisfactory vouchers, he shall exhibit quarterly, and at such other times as shall be required.
9. Every person on becoming a member shall subscribe this Constitution, and pay the sum of ten shillings; and every mem. ber shall be subject to an annual payment of fifteen shillings, which shall be paid at the first meeting in October, or before he receives his ticket of admission to the lectures.
10. The initation fee may be increased in proportion to the increased value of the property belonging to the Institute ; but this cannot be done except by a resolution passed at a general meeting.
11. The Institue will gratefully receive donations of moncy. books, apparatus, models of machinety, drawings, or natural and artificial curiosities, which donations, together with the names of the donors, shall be registered in the books of the Society, kept for that purpose.
12. An annual meeting of this Society, shall be held on the second Monday in April, to audit accounts, elect officers, and transact other business connected with the Society.
13. The annual Tickets of regular and life members may bo transferred; but persons to whom they are transferred shall not be admissable, to any office or vote ; the management of the Institute being invested in the regular and life members, who are eligible to any office and entitled to vote on all questions connected with the Institute.
14. In order to preserve the harmony of the Society, nothing of a religions, irreligious, or political tendency shall be admissable on any account at any meeting of the Institute.
15. In order to make the Institution as generally useful as possible, any person shall be entitled to the privilege of reading from the library and attending the lectures, or any other course of instruction that may be given in the Institution, for one year, on paying such a sum as the Society shall determine; bnt such person shall not be entitled to any share in the management of the Society, can be eligible to no office, nor entilled to vote at any meeting whatever.

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ciety, nothing Il be admissa-
lly useful as ge of reading other course for one year, ne; bnt such nagement of ed to vote at
16. This Society shall be permanent and its property unalienable, but each member shall possess the power to transfer his share, provided the person to whom he transfers is approved of by the Society is the same manner as admitting new members.
17. Any proposal to alter or amend this Constitution, must be made in writing, and subscribed by at least ten members; it must be delivered to the Seccretary, who shall read it at the first regular meeting, after which it shall lie over to the next general meeting for discussion; and the proposed amendment finally adopted or rejected by a najority of the members present, the votes being taken by ballot.

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## MEATINGS.

1. The regular meetings of the Institute for the transaction of business shall be held on the last Monday of every month.

2 The dues of members shall be payable at the monthly meeting in October, or before any member receives his ticket of admission to the Lectures.
3. Extra meetings muy be called by the President, or in his absence, by the presiding officer. and Secretary, whenever they may deem them necessary. It shall also be their duty to call meetings, when requested in writing by twenty menbers.
4. Twenty-five membery shall constitute a Quoruin for the transaction of business.
5. The Recording Secretary shall give public uotice in one or inore of the City News-papers seven days previous to every sencral meating of the Institute.
dinection.

1. The Buard of Directors shall keep full and accurate minutes of all their transactions, and at the monthly meeting in A pril and October, report their proceedings, together with a gencral statemont of the affairs of the lustitute.
2. Any vacancy which may occur in the Board of Directors. by death, resignation, or otherwise, shall be filled at the first general intetiag thereafter.

## members.

1. Persons wishing to becomo members, must be proposed at least cne meeting previous to being balloted for: laving been firbt recommended by two members of the Instituto, in the following forin. "We the undersigned members of the Saint Joln Mechanics' lastitute from our personal knowlege of do hereby recommend him asa fit and proper person to become a member of the same." And at the general meeting in $A$ pril in each and cecry year, the l'esedent or Chairman for the

## 7

time being, shall appoint a Committee of thirtsen members, who by a majority of their votes to be taken by ballot, shall decide upon the ndinission of all cundidates so proposed during the current year ; and in case any member of the comunittee be absent nt any montaly or special meeting the President or Chairman shall 611 up the vacancy for the evening from the members present, so that no delay may arise.
2. Every member on pay inent of the initiation fee shall receive a certificate of membership, which he shall produce as proof of his membership when required; but no meniber shall be entitled to the privilege of the Institute whose dues shall be in arrear.
3. The lnstitute may expel any menber whose dues have remained in arrear for a longer period than one yesr.
4. In case any member wish to wilhdraw from the Institute and transfer his membership he shall give notice thereof in writing to the meeting, and state the name of the person to whom the share is to be transferred.
5. Honorary members slatll be proposed and elected in the same manner as regular and life members.
6. Candidates for honorary membership, shall have rendered some signal service in Science or in the Arts.
7. Corresponding members shall be such as do not reside in the city of Saint Jolin, nor in its immediate vicinity.
8. Corresponding memhers shall be clected in the same manner as regular and honorary members, and shall be subject to no charge for initiation or yearly ducs. It shall be their duty to communicate from tine to time such information as may be in their possession relative to improvements and discoveries in the Arts, provided thatsuch iuformation does not interfere with their private interest.
9. All regular and life members on removing their residence from the City of Saint John, may become corresponding members, subject to the same regulations as regularly elected corresponding members.
10. Whenever a corresponding member removes his residence to the City of Saint John, he may become a regular member by paying the annual dues-commencing on the first meeting in October subsequently to his return.

## ALTERATIONS.

1. No alteration shall be made in these By-laws, unless it shall be offered in writing to the Institute, signed by at least five members, one meeting previous to being acted upon.
2. It shall be the duty of the Secretary to place the proposed alteration in a conspicunns place in the room occupied by the Institutc.

## hULES TO DE OBEEVED AT MEETINGS.

1. Any member wishing to speak, must rise in his place and adilress the presiding officer; when two or more rise at the same time, the Chaiman shall decide, who has the preference.
2. No motion shall be considered as before the meeting unless it has been seconded; when the Chairman shall declare whether it is in order.
3. A motion for adjournment shall be always in order.
4. An amendment is at all times in order; and if it is accepted by the mover of the resolution, the question shall be on the motion as amended : if not, the amendment shall be the question first under consideration.
5. No member shall spenk more than twice on any question without permission from the chair.
6. When a question is under debate, no motion can be received unless to amend, to postpone, for the previous question, or to adjourn.
7. All questions slaall be put in the order in which they were moved, except that, in filling up blanks, the largest sum and longest time shall be put first.
8. Questions of order shall be decided by the Chair without debate, after which any member has a right to appeal to the meeting.
9. Commitees shall be appninted by the Chair unless otherwise directed by a majority of the meeting.
10. All motions, propositions, or resolutions offered by any member shall be delivered in writing and signad by the movers.
11. The following shall be the order of Business to be observed at meetings-
12. Reading Minutes.
13. Balloting for Members.
14. Proposal of Candidates.
15. Reports from Officers.
16. Reports from Board of Directors.
17. Reports from Committees.
18. Essays and Communications.
19. Resolutions.
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offered by any by the movers. siness to be ob-

Adams, William
Agnew, Francis
Agnew, Janes
Allan, Roliert
Allan, James
Allan, Jolio
Allan, I'nomas
Allingham, Joha
Baflow, Thomas
Barlow, Ezckiel
Barlow. Joseph
Barluw, William
Barlow, 'Thomas Jun.
Barhour. Malliow
Bach, Richard
Bartlett, Janaes II.
Barthux, Edward J.
Barr, Tloonas G.
Bayard, Duetor
Bayard, Doctor Wiliiam
Betts, azor W. 'r.
Betts, Charles l'.
Chipinan, Hon. Ward
Calkia, Charlos
Camerou, Liveo
Camerou, Donald A.
Campliell, Juhu M.
Campbell, Alexandor
Carlyle, Willian
Carvill, William
Cassie, George
Chadwick, George
Chipinan, John C.
Chaloner, Bejamin C.
Chisholm, Ilugh
Curry, Williaa
Ohubb, Heary
Daniel, 'Thomas
Develer, Richard S.
Dimock, Charles IH.
Dishrow, Jamea W.
Doiby, Edivard
Luili, Peto:

## Litr OF MEMBAMM.

Alderson, Lianel
Audrew. Ilov. W,
Ausley, Danial
Ansley, B.
Ausley, Charles
Ausloy, Juhn,
Avery, W. L.

- Blakslec, Ara, Jun. +

Bulaford, Geurge
Boyd, Dr.
Hourke, Christopher
Bughoo, Samuel C.
Britain, Rohert
Brown, William A.
Brundage, William Jua.
Bryunt. Michael
Budd, Edward J.
Buraliam, John W.

- Huros, George M. diech 29 Sep 88
- Burns, John

Burlis, William
Chubth, IIenry J.
Chureh, Ephrain
Clarke, Fraucis
Clarke. Joha jr.
Craig, George
Grane, James R.
Crane, Thumas P:
Crawford, Samuel
Crear, John
Cross, Colia E.
Couch, Thomas
Cook, Heary
Coleman, W. J.
Coigley, Juhn
Cunaingham, John
Duff, Charles
Duff, Richard
Duncan, Joha
Duan, Jamos
Donaldion, L.
Doher'y, William

## 10

Druke, Peter
1)rover George

Duaphy Rov. James
Eaglos, Edward
Eliott, Jnmes

- Everitt, Charles D.

Fairweather, R. Faulkner, Isnac Fitzgerald, $\boldsymbol{z}$.
, Fleming, Georgo
Gale, Benjamin
Gallagher, Charlos
+Ganong, Jobn E.
Garrison, Georga A:
Gescior, A.
Gibbons, Charles R.
Gilehrist, Thomas
Gillespio, Thomse
Gillespie, Satauel
Hazen, Robert F ,
Macketh, Edivard
Samiltou, Samuel 0.
Hammond, William
Marbell, Corneliua
Hallett, Samuel
Hardeubrook, Juhn
$5^{\text {b }}$ Harris, James jead Huee, $5^{2}$.
Hactinge, John
llaws, John
Hay. Thomas
Meudricks, Jamee
Henuigar, Henry
loches. Charles
Jack, William
Jarvis, R. N.
Jarvis, Gustavus R.
Jarvid, Edward L.
Jardine, Alexander
Kinnear, W. B.
Kay, Jacob .
Kay, Charles

- $\quad$ K Kaye, Edinund
a +Kayo, James J.
Keliie, Robert
Keohan, James
Langtry, Richard
Lawrence, Alexander
- $\times$ Lawion. Charles +

Levion, James
Lawion, William
Leavitt, Thomas
Durant, LAmid. W.
Durant, Williaus

Ewiog, Robert
Eunery, Jureph D.

* Fuater, S. K.

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Fuolis, Rotiert
Iruat, William
Gilhert, Genrge G.
Goldsmith, Oliver
Could, Samuel
Gove, Jeremiah
Gray, Rev. B. G.

- LGras, Joho II.

Gray, John
Grecu, James
Henry, James
Hiads, James
Holinan, Ssmuel

+ Howard, William 0
Huıbert, Jolu
Hume, Rubere
Humphrega, Charles $x$
Hutchiasson, George jr. y
Hutchinson, G.
Hurchison, Rohert S.
Hutchison. V. B.
Hymea, Willinm

Juhnstou, Alexander
Johuston, Chailes
Jonee, Thumas
Jordan. Saıniel
Jourtt, C. H.
Ketchum, Edwin
Kindear, Harridun G.
Kinnear, Jolin
Kinnear, Boyd
Kirby, John
Knoilin, John

- Kina, Richard P.

L'Epouse, Georgo H.
Lingley, Juseph
Livingstone, William
Joniden, J. W.
Lnogmail, John
Lorimer, William



## 12

Reed. Thomas
Ray, Robert
simonds. Hon. Charles,
sancton, Thoma A.
Sancton, Heary P.
Sancton, George P.
Sancton, Edward
Salter, George
Sands, Richard jr.
Scott, Andres

- Scotr John W.

Scoll, James
Scovil. Wm, H.
Scovil, William jr.
Scovil, S. J.
Seeds, Samuel
1 Sears, Edward

-     + Sears, John

Sharp, John G.
Thomns, John
Thomson, Charlea
+Thorne, Richard
Thorne, H. T.
Tilon. Barnabas $x$

+ Tilley, Samucl L.
Umphry, George
Vernen, Gideon
Vernon, James
White, James
Wilnot, John M.
Woodward, Isaac
Wallop, N. W.
Walker, John
Waterherry, George jr.
Waterberry, Charles J.
Waterberry, Daniel
Watts, Reuben
Waterhouse, Levi II.
Waison, G. B.
- Wales, James

Wetmore, Robert H.
Wesley, Thomas
Whipple, Augustus $\mathbf{W}$.
Whitaey, James
Whittaker, Charles

Roherta, John J.
Rudduck, 'Thomas
Shanks, Samuel
Sherwnod. Joseph
Smith, George II.
Smith, Daniel
Smith, Francia M.
Smith, John W.

- Smith, Wm. M. X

Spiller, Samuel
Stanton, George
Stanton John 'I'.
Stevens, W. J.
Stevens, John
Stevens, Roliert
Stephen, E:.
Stewert, James
Stewart, John
Till, William
'Tisdale, 'I. E. G.
Townsend, Nathauial
Travis, W. H.
Trura, Aathony R.

Vieth, Edirard
White, Thompson
Whiteside, Heary
Whiteside, Richard

+ Whiteside. Richard jr.
Wignius, Frederick A.
Wiggins, Stephen
Wilmot, Rabert D.
Wilmot George
Wilson, Rev. Robert
Witson, Alexander
Wilson, Richard
Wilson, John
Wishari, John
Woodward, J. G.
Wright, Richard
Wylie, Rohert


## Younger, George

Honorary Member. Professor Gray, King's College, N. B.
Corresponding Members.
George Young, Halifax N. S.
John Howe, do,
Win. J. Layton, Richibucto.
G. Riley, Hampton Ferry.

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## INTRODUOTORE ETOTTRE.

The progress oi knowledge in all its various departments, has istinguished the present era from every other period in the hisry of mankind ; and whether that knowledge be considered in ference to the great efforts performed by the human mind, or influence upon the wants of society, it cannot fail to excito rprise. When we compare the condition of the inhabitants Great Britain, or civilized Europe, with those of the Islands in e Pacific Ocean, and such as are still bound by the chains of untamed barbarity, we perceive what a wide distance beings the same race, are separated in their moral, civil, and intelfetual conditions. Just in proportion as our enjoyments exced those of the ferocious Arab, prowling over the burning dert , or the Indian hunter who seeks repose on a bed of snow, are we indebted to the acquirement of knowledge for the comforts and luxuries we enjoy.

The difference which exists between a learned and accompllished man, and the untutored savage, is far greater than that which separates the barbarian from the brute. Notwithstanding thite exalted powers conferred on man, unless his understanding is improved, by mental training, he remains a slave to passions, and instincts, but litte more refined than those of the lower animals.

The Greeks and Romans were the first nations of Europe who arrived at civilization. They improved their minds, cultivated philosophy, and promoted the arts and sciences.But their countries were sacrificed to a barbarous people, and the Roman Empire fell before ignorant and merciless marauders.Well may they be called the dark ages, when the Roman poet ni longcr tuned his harp, the philosopher was silent, and the nimsteries of the arts were forgotten. The remains of their citio are still seen lifting their massive columns towards the hea-
$N . E$. vens, and their relics of exquisite workmanship still proclaim in most intelligible characters, the height their knowledge and taste had attained.

The reason why the Latin and Greek languages have been so deeply studied, and form the principal part of what has been

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called a liberal education, is because it was necessary to rescue from oblvion the knowledge gained by the learned ancients; who, when they had departed, teft behind them in manuseripts, information it required centuries to accumulnte. It was not until the twelvth and thirteenth centuries that learning began to revive ins Italy. Since then it has been gradually extending its influence, and will advance under the direction of Providence, until the darkness now covering the greater number of mankind, shall be dispelled, and the light of intelligence cover the earth.
Man in an uncivilized state is a savage, governed by the sudden impulse of a moment he rushes into acts of horrid brutality, and is more to be feared than the lion of the forest, or the venemous adder. He may behold and admire the beauties of external objects, and pay bis adoration to a God made by his own hands, but he perceives not the proper use of any thing in ereation, and is a stranger to intellectual enjoyment. Oa the other hand the man of an enlightened mind is constantly engaged in applying every thing to some definite purpose. To lessen his own and the miseries of others-to increase the comforts and enjoyments of life, are his aim, and solong as those objects are pursued under the direction of religion, they are deserving a share of his labor. He arrives at some knowledge of himself, and the material world, and if truly wise prepares for an unchangeable, and better state of existence.

Like the radient light of the sun, the germs of knowledge are now extending into the most gloomy retreats of ignorance, and the European nations, are now vieing with each other in efforts to remove the veil that has so long clouded the minds of the people. But century after century passed away, when learning was chiefly confined to monastic institutions and colleges, whose inmates were rather disposed to perplex each other by abstruse questions, than to bestow any of their knowledge where it was most required, and would have produced the best effects.

The invention of printing opened the great avenue of know. ledge. "The wide diffusion of christianity, and the stupendons discoveries in sciences and arts" carried with them the elements of civilization, Up to the begionning of the present century there has been for a long period a steady increase of learning, and the poor are now tangut to understand written ideas.

Nevertheless those usages which had so long confined the higlt er branches of learning to colleges, and formed a barrier agains any intrusions of the lower ranks, withheld much useful matle from the people, and public institutions of learning, refused "t cultivate those branches, which, by their practical inflience up

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sary to rescue ned ancients ; manuscripts, It was not ning began to extending its f Providence, er of mankind, ver the earth. ed by the sudorrid brutality, st, or the venseauties of exade by his own y thing in cre-
On the other itly engaged in , lessen lis own forts and enjoybjects are pureserving a share himself, and the 1 unchangeable,
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onfined the higlt a barrie: agains ch useful matte tning, refused t cal inflience up
n the arts woukl have returned a hundredfold reward. Ipdeet may be safely asserted that many colleges of the present day, xercise no salutary induence beyond the studies of divinity, bysic, and law, and theqoor larmer, and mechanic, are left to uzzle out, the little they may know without their aid.
Again, when any work fell from the hands of the learned of rmer days, their subjects.were often dressed in terms derived on dead languages, and technicalities incomprehensible to the umble reader. Difficult subjects were treated with still more fficult words, and ideas were expressed far too great for empty head to contain. But a new and better day has dawnd upou mankind, and if it ever was the object of the learned to thold their knowledge from the humble orilers of society, it s now become the aim of many to impart the precious gift.
Let it not be supposed that I would attempt to throw a shapw upon the motives of those to whom we are so inuch indebted, d from whose labours we have received rich supplies of inforation. No, they acted in accordance with the prejudices of deir times, and the monuments of learning they have erected for mselves will never decay. In England much talent and la$r$ have been devoted to discover the best system of education youth, and the names of Bell and Lancaster will long be rembered, as advocates for the general instruction of the poor.
The system of oducation in Scotland has been remarkbly accessful, and in the Edinburgh College, lectures are now delitered in all the physical sciences. Germany and Prussia have alno plans by which general instruction is diffused among all ranks of society. Many of us can remember thirty years ago, when a boy was trained to be a scholar by the use of Dilworth's spelling book, and the catechism of the assembly of divines.Now there is an abundance of books so almirably fitted to the infant mind, that the lesson is rendered playful, and pleasing.-Now young urchius not ten years old, dare to dispate on astronomical subjects, and the child is taught geography.

But the more immediate object before $u=$ this evening is to ognsider the means of transferring the useful and practical knowge contained even in the highest branches of literature, and ence, to mechanics and all those who by their daily avocations capable of carrying into effect those principles which will prove the various productions of their industry. And cerply an object so benevolent, and important, is worthy the place has found in the heart of every member of this Institute, and the largest and most respectable body ever associated for a similar purpose in British America. Here uninfluenced by those
pulitical or parcy prejudices, ever too apt to find their way into large communities, only one motive is recognized, nameiy, that of exchanging our severnl stocks of knowledge one with another, for the purpose of aiding a most useful class of our fellow men. And in the effort wo will not only be cheered by the purity of our intentions, but also receive instruction ourselves.

One of the first individuals who made an effort, to communicate a greater amount of knowledge to the people was Mr. John Anderson, Professor, of natural philosophy in the University of Glasgow. He died in 1796 and left his fortune for the fisundation of an institution where the different branches of aca demical instruction should be taught to all orders of society.-In 1820 Mr. Henry (now Lord) Brougham, devoted much of his time and talents to the establishment of schools in England, where mechanics, and the labouring elasses should receive instruction in the sciences and arts. His labors proved extremely successsful, and however impolitic that gentleman may be in the course he has since pursued as a statesman, he deserves credi for having supported a mode of conmunicating instruction whicl has done much good.
When the systen of improving the minds and productions of artizans was first introduced, it met with powerful opposition for it was naturally feared that large associations of men would sometimes exercise an influence partaking more of a party that a scientific' spirit. 'Time has discovered that such fears wer groundless, although it inay be remarked, that wherever mocha. nic's Institutes have failed, their overthrow bas arisen from thi introduction of religious, political, and party disputes.
A Mechanic's Institute was opened at Edinburgh in $182^{\circ}$ from 1825 to 1827 they were extended to London, Liverpol: Birmingharn and the principal towns of England and Scotlaud They have since been established in the smaller towns and vil lages of Great Britain, and in the United States: but so far: 1 am acquainted, Halifax and St. John, now have the only it stitutions of the kind in British America.

In London there are many institutions for popular instruction The London Mechanic's Institute is supported by 1200 mer bers, lectures are delivered on sientific subjects, literature, an music. The talented Dr. Birkbeck is president of the Poplt Institution in the eastern surburbs of the city. The lecture are of the most scientific and accomplished classes, and the got effects produced, upon society in general by their labours, har exceeded the most sanguine expectations. At Liverpool tl Mechanic"s Institute has advanced rapidly since 1830. It nc

I their way into d, nameiy, that : one with anoss of our fellow ered by the puourselves. fort, to commupeople was Mr. $y$ in the Univer3 fortune for the uranches of acars of society.-evoted much of ols in England, ould receive in. roved extremely on may be in the deserves credt: nstruction which
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possesses upwards of 1200 members, and an annual income of 7501 . Meetings are held, and lectures are delivered two evenings in the week. It has heen remarked of this Institution that among all the individuals composing its body, not one has ever been convicted of a criminal offence. Large sums of money have been expended, and responsibilities sustained, under the most discouraging circumstances : but a reward has followed of the most pleasing kind, and not only have the different articles of manufacture been improved, but the morals of all classes exhibit a gratifying renovation.

The Mechanic's Institute at Leeds possesses a library of 2000 volumes. At Hull a building has been erected at the expense of 2000 l . and the library contains 2500 volumes. Most of these establishments have exteusive collections of specimens in natural history, curiosities, and models.

At Halifax in the sister Province, the Mechanic's Institute at its commencenent enrolled only six members. Its advantages were afterwards soen, and now many of the most respectable part of the community give it thcir care and patronage. Classes are taught in different branches of practical science, and lectures are delivered once a week during the winter months. Donations from the old country have been received, and a museum has been formed containing a variely of curiosities, minerals, and ocher objects of natural history. These are open for the inspection of members during the evening of each lacture.So steadily has the museum increased, that it has become the favorite resort of ladies, and strangers. The influence produced by this Institute upon the different ranks of the community; has beeu of the most salutary kind. Several gentlemen who had never devoted their attention to scientific pursuits, urged forward by the wants of the establishment, have devoted themselves to the task, and by their own labors have won some admirable acquirements. Others have received a fund of curious and useful information, while a general taste for the study of the fine arts has prevailed.' The prizes offered for models, and any improvements in architecture, ship-building, and machinery have excited the young. Many whose evenings were formerly spent at the alehouse and club, are now engaged in laudable pursuits. Even the most wealthy and infuential citizens of Halifax hail the yearly opening of the Institute with pleasure, and acknowledge that they not only spend their time pieasantly within its walls, but always retire with increased knowledge. To these facts I am a witness, and if such have been the results there, what may we not expect in this city, where

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almost the whole body of the talenterd, and aftuent of the community have voluntegred en masse, to further tho advancement of knowledge, and to communicate to operative mechanics, such information as will guide then in their iudustry, and widen their intellectual capacities. Whoever contemplates the vast amount of information which bas been givan to the people of Great Britain hy Mechanic's Institute's, upon the principle of mutual instruction, and views the resulty of enlighteuing mankind generally, caunot but rejoice that the barrier which formerly contined education to the rich, is broken down, and the pure streams of knowledge now roll downward even to the begyars offspring.No longer concealed in the inonastary and college, and confided to men of secluded habits, the fornain of learning is open, and all may drink of the unalloyed pleasure arising from illumination of mind. Until a sestem of national education is established which shall secure to all classes a certain degree of useful information, it is necessary that no effort should be spared, nor delayed, that can ameliorate the coudition of the unlearned.But there is an object of far higher importance than those to which I have already referred. It is the influence education holds upon the moral habits of man. It is certain that trades unions and other political associations of men, recently disturbing the peace of the mother country, and endeavouring to keep the price of wages far higher than the market will afford, thrive upon the ignorance of their blind votaries, who are ever liable to become the dupes of cunning and unprincipled men. It is there fore not only wise policy to grant information to the ignorant, but tie duty of all who wish the safety and happiness of themselves and their country; and if the diffusion of science, and literature deter men from vice, what higher object can te offered as a reward for our benevolence, and philanthropy.

In contemplating the numerous branches of learning, and the wide circle of the natural sciences, we cannot but feel surprised at the powers of the human mind, and the perfection to which many studies have arrived. But no one human intellect could ever hold within its grasp but a small share of knowledge when it is generally considered, and it has only been by taking a single track in the wide field of nature, that any have arrived at celebrity. Knowledge is boundless and millions may mareh in its pursuit without the fear of interrupting each other by the way.

Nothing is more common than to hear of the great disparity in the capacities of different persons, and we are told that some are fitted for nothing. But the difference of talent in different individuals is far less than has ever been supposed. It is by

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application, that -ins is exalted above another. Happily for mankind their dhersent sorts of genius are nicaly adapted io all kinds of enquiries. One becomes an astronomer, nnother acquires languages, a third becomes a celebrated mechanic, and so on. Wath finds pleasure ouly in his fnvorite stady, hence intellectual enquiries arise which assist each other, and expand obacrvation to bounds unlimited. Volumes might be written on the mental management of children. How many are compelled to seek acquirements nature refises to grant? Many in the humblest walks of life when lett totheir own choice have risen to great eminence, others with riches, good understanding, and every othor advantage, have fallen into insignificance, merely because they applied themselves to the wrong pursuit.
'I'o the science of mathematics we are indebied for the power to behold the great system of the universe, and by the sid of nstronomy man is able to trace the courses of the heavenly bodies. doubtess the habitations of beings like ourselves. But the practical advantages of this science are more clearly domonstrated, in the mensuration of surfaces, solids, heights, and distances. By it vessels are conducted over the fathomless occan, and the gengraplyy of countries is ascertained. It fixes :he principles of perspective, and by the aid of drawing, the smiling landscape is placed upon the canvass, which when viewed carries us back to the scene whence it was taken. The beauty, comfort, and convenience of our divellings depend upon the skill, of the architect, who is indebted to nathematics for ull his fine proportions, and the symmetry his work displays.

The divisions of mechanical philosoplyy are too numerous to adnit even of a cursory view, a fow however may be mentioned, in reference to their great utility. Pneumatics treats of tho air that invisible fuid which reanimates the body every time we breathe. By studying its laws the baronetor was discovered, and an instrument has been: supplied which not only foretels changes in the weather, but informs us of the height of mountains, by carrying it to their summits, As the pressure of the atmosphere was found to diminish as an ascent is made to any elevation, so the harometric column becomes lessened, and the height is immediately known. In conducting water to cities, pump-making. ascending in Balloons, curing diseases of the ear, and in music a knowledge of these laws is absolutely neeessary.

Who is there that does not admire the mechanism of the human eye? 'The window of the soul, at which the thoughte and passions of the heart are constantly looking out. But perfect as this most important organ may appear, the study of optice has
vastly incrensed its power and enabled man to gazo upon distant planets. The telescope extends his vision among the remote heavenly orbs, and he seems to hold converso with other worlds. Again the microscope makes us acquainted with myriads of animals, not discernable by the naked eye, and opens a new creation to one of our senses. By its aid thousands of fish-like animals are seen sport ig in each drop of our blood, and the flutering pulsations of the mosquito's heart may be distinctly recognised. Nor are the phenomena of magnetism and electricity less surprising. Who can explain the causes of that attraction which points the needle to the north, and faithfully directs the mariner amidst storms, and darkness, to his " desired haven ?" By the use of the compass, the remotest continents and Islands have been visited, civilization and christianity have been carried to the savage-the nations of the earth have entered into intercourse, and commerce has spread its influence even to the polar seas. Of the recent discoveries in electro-magnetism it is impossible to estimate the result. Already a power has been obtained similar to that produced by steam, and the day may yet arrive when instead of Steamboats, vessels propelled by electro-magnetic force may traverse the wide atlantic.

Chemistry is the science which makes us acquainted with the natural bodies that surround us. Its objects are inexhaustible, and essential to our wants, and the very existence of civilization. Without its aid mankind would be deprived of most of their comforts and luxuries, and the mineral, vegetable, and animal kingdoms would remain unexplored. To the mechanic some knowledge of the sciences is indispensable. The success of the arts of metallurgy, glass-making, dyeing, bleaching. The processes of brewing, baking, distilling, and almost every domestic operation, depend upon some acquaintance with its mysteries. In the medical science it is of the first importance, and now forms a part of the physician's and surgeon's education. In the true meaning of the word, mechanics signiies the art of making machines capable of being put in motion, by natural or artificial means, and as such maclines must ever be in common use, and are adopted to a great variety of purposes, it is evident that to understand the laws governing the matter acted upon, is absolutely necessary.

The Professor of Natural Philosophy in the University of Glasgow, sent a broken model of a steam engine to the chief mechanic of the establishment to be repaired. The model was that produced by Newcomen, and was extremely imperfect.In the course of repair it fell into the hands of James Watt, a
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young meclianic, who to native ingenuity, had added a atock of scientific information. What was the result? I'he improvement may be called an original inveution. From the broken model the mind of the inechanic brought forth an engine, which to use the language of his culogist "is so regulated as to make it capable of being applied to the finest and most delicate manufacture, and its power so incrensed as to set weight and solidity at defiance. By his admirable contrivances it has become a thing stupendeous alike for its fovee, and flexibility with which it can be varied, distributed and applied. The trunk of an olephant which can pick up a pin or rend an oak, is as nothing to it. It can engrave a seal, or crush masses of obdurate metal before it like wax-draw out without breaking, a thread as fine as gossamer; and lift a ship like a bubble into the air. It can emhroider.muslin, and forge anchors, cut sleel into ribbons, and impel loaded vessels against the winds and waves." Now let un observe the effects of ignorance. I knew a young meohanic who discoverod some improvenent in the plan of chairs, and accordingly half a dozen were made for trial, and to present for the purpose of obtaining a patent. They were neatly made, finely painted, and altogether seemed very pretty, but there was one defect, when set upon their legs they would immediately tumble backwards. It is not upon the works of the hands alone we can depend, the mind must be employed and properly directed.
How often are the labors of some entirely lost, for the want of reflection and some fixed leading principles to guide them.-The hands can work and produce a piece of mechanism.When a model has been followed this may be all that is necessary; but it is cortain that no improvement in the model can ever take place, unless the mind by a due course of reasoning, first discover the imperfection, and then the remedy. A steam engine is capable of making a kuife, but is not capable of making any inprovement in that knife, because it is not possessed of intelligencc. So it is with many men like the engine, they go forward in the same way as long as they live.

There is another class of persons who have heads, but no hands. They are ever inventing, planning, and amusing themselves with , splendid discoveries. Their minds are always active, and they are called ingenious. But with all their deep thinking, and fine reasonings, they fail in producing any thing useful, and their time is lost in fanciful speculations. When the means of performing any important work is placed in their hands, they outreason common nense, and fail in the undertaking. In both these ingtances it is plain that

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an acquaintance with mechnuical philozoply would nrouse the corpid, and restrain the over-excited. It must afford the practical mochaniu much satisfaction to see the effiects he often observen, explained by a ruference to their causes, and to obtain a distinct appreliension of every thing connected with his art.But wed are often told that fine theoriez and mathematical calcuIntions aro useless, and that practical information, as it is called, only is necessary. S'uch is not the fact. 'I'hey must be united before any work can be completed. Before the machine can be produced, there must be a model. 'That model may exist in a pietnre on the mind, or he inade of solid materials.-Now the construction of the model requires a knowledge of science, while the mere labur is performed by the hands. Again. It is enquired by some what direct influence can science exerciso upon the labor of the artist or mechanic? 'Io answer the question, let it be supposed that you require a carriage for your comfort and convenience, and you apply to a workman to have one construcled. In the first place as you have never studied coach-making, yoll are unable to give a proper plan of the carriage you desiro, and therefore the whole matter is confided to the person you employ. The mechanic measures accurately the carriage of some other gentleman (this is of every day occurrence,) and with some trifing alterations in the shape of the body, color of the trinming, \&c. finishes the work, which from its appearance you are pleased with. Here nothing more has been than :o imitate. Perhaps the model copied was very imperfect,--your axles may be so small that on your first excursion they will break down. They may be so lirge, and consequently the friction so much increased that your horses are jaded and you wonder at the cause. The springs may be so inflexible as to make the aeats uneasy, they may he ton) yietding and brenk, and what is the cause of all these difficulties? why on!y this. Neither the employer, nor the employed, knew emough of gravitation, motion, friction, and elasticity to huild a coach. Cases of this kiad might he multiplied. And the object of this Institution is to imprart the ialormation which will aftord a certai, ramedy for such evils.
To agriculture the sciences are of vast importance. The fertility of the soil does not depend upon the presences of any one substance, but uponsin adnuixture of the different earlls, aikalies, and acids. By chemical analyeis connctied with mineralogy, each ingredient is cxamined, delecta discovered, and meanssupplied to promote the growth of plento. The larmer should be made acquainted with vegetable physiology, and carefully study the nature and peculiaritins of the p'ants he cultivates. Otherwise, how can it be expected ti) $: y$ will :hrive under his culture ? He miy cast the seed upon the esrith, and he connforted with the prospect of a crop. But unless his laliors are directed by bnowledge, he can never be cheered with a plentiful $r$ : a: verst.

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it would be arrogant in attribute these inprovementa to the perfec. tion of our eduration, or the strong efforts of bur underatanding. 'I'hey are wisely introduced hy an intelligeot and berievolent being, to whoms we are indelted for all the blernings we enjoy.
When the attention is turned in Nutural History, I truat I will be furdoned in aflirming that hy tirr the mest important branchee ore inineralogy and geology. If the is is ..ep erments of kombledge alrendy referred to, are so prodnctive of tonectiai essulte, surely those which reveal the hidden treasures of the carih ylawhed mit be overlonked. 'l'ransported with delight, the as onnmapr prians his telescope to the new born f'anet, and wanters onong the bright luminaries of the heavens; and well do his lahois metit revard as her peneirates larther into the work of a boundlusercreation.

But that secience which lirects the geoligist into the deepent recessid of the earth, ubaumis in facta still more remarkable, and of far grenter inportmee to manhimi. Far beneati the surface of the carth lie buried, myrinds of ane animated beings. In the lower atrata the tirut dawning of animal bife hegins to appear ; an we ascend thene animale tucrease in propportiw, and in the matiplicity of theig organs. Famuly alter family al these have theome eatinct, and moré recent triben are huried upon them. These were sueceeded by enormus lizarde forly feet in length, and fluing reptiles of gixantic aize. Foreed fom exisicuce hy changes ever coing foriwari ujon the earth, they also in their bun were dontmed lo perish without leaving a solitary living suecessor. 'rhen the majestic Hippopotantus. Elephant and Rhinoceras plalked abood, mend druses uf liyeuas, Bears, and Jackala, prowled amid. groves of palus and cedare far more lotive than the preseent growth. The tomes and oher remains of these animals, liound sealed in the masaive rock, clearly shew the mighty revolutions that have taken place upoin this planet. Shaken by treinendous eurthouakes, and overspreal liy torrents of liquid lavn, the earth then oflered no resting place fior human beings. But a mare catm and tragyn! state aucceeded, the sea had its tevel lixed, nud continents rested alike the boscun of the waters. Thers man became its Lord, and, endawed with immortality, first hore the image of hia Mither.
flice pracicul advantages arising from a stady of these sciences aro incalcutahle. Wins coall is a dernd in reference to she production of stean, its inn-
 : mo: nuw derived from stennon nud upticed to move unachinery in England aloue. is eatimated to be equivalunt to the labor of four handred aitlions of men. and Dr. Buckland justly remarks hat "we ure astonavied at the influence of cosal, and iron and steani, upon the fate and fortunes of the human race."
It is almost unneconsary to mention the value of lead, copper aud other mineral mutistanceg. Fior the uthity of those enquirien which discover and apply them mant be apparent, especially in a Province where they are now known to exist, bis are sull inforted froin other conatries.
'The study of Prorineial botany and evuchology has been neglected, anla
wide field is open for the labors of those who have a taste for such purnuita. Oar foreste abound in b antiful flowers, und indiginons planic- and it is a pleasing euployment to gather them fresh from the bosom of the san th.
The orathology of this country is extremely interesting. During the summer monthe birds of gay plamage, nud delighttfil song, pay us their anuual visit. From this departuent of natinral history, none who enqnire can fail to observe how nicely the orgaus of each species are adapted to the habits and character of each individual. Some of the diving tribes are furnished with diving bells. A strong membrane is suspended under the throat, and before a dive is made, inflated with sir, which supplies the lings ufter the bird has descended beneath the water. $\sim 1$ have recently found that the ganet, or soland goose has its skin attached to the body only at a few points. Belore the bird rises to fly, the skin is dirtended from the bedy by nir drawn in through the mouth; and the animal like an inflated balloon is rendered buoyant, rises with facility, and tlies away.

Without this remarkable apparatus he wquld with his narrow wiugs be unsble to ascend. The duck is provided with paddles. 'The heron, and the whole family of wadlers have long legs, necks, and beaks, all admirably adapted for obtaining their food without wetting their lodies. The wood-pecker is armed with a bill of horn, and the barbed lance at the end of his tongue firmly secures the bidden fly. These things may seem extremely simple but they afford the most anpic testmony of the power, wisdom, and goodness of thit ulmighty Being, who has abundantly provided for the wants of all his creatures.

The advantages derived from any enquiry, are not confined to the immediato effects of that enquiry "nou the mind. They extend much iarther, und expand the intellectual powers to receive other supplies and enlarge the papucity beyond its ordinary limita. They rectify the understanding, and sharpen the appetite for light and truth. Happily the acquirement of kuowledge is within the reuch of ail, and the precious boon will be denied to none, whio industriously seek itw attaiaments.
T'o disseminate useful knowledge among all classes of society, with u view to improve their moral habits, and excite every laudable feeling of emulation in the breasts of those into whose hauds much of our property is often placed, and upon whrie skill many of our comforts depend, is as important as the possession of knowledge ainoug ourselves. A plan that will place withiu the reach of all that will receive them, the means of becoming wiser, better, and happier, calls loudly upon our benevolence, and the labor devoted for this purpose, should it we effective on mechanic's only, will return a grent reward. Persons who frous their greater advantages, have secured more than an ordinary share of literary or scientific knowledge, should here muluck their stores and exchange before the lirstitute those intellectual goods which are most valuable when given away.

No improveusut, or invention is too simple to be denied admittanco here.Who can supply the best model of a ship, a cottage, or a coach are questions often asked in this eity? In future may the auswers be given by our committees.

For the accomplishiouent of these objects have the most respectuble, talented nad influential individuals of this city been called upon, and the summons has not been sent in vain. Moved by a kindred impulse, they have applied themselves to the work, and St. John can now boast of a mote powerful iody wamposing her Institute than ever ausembled before for a simiiar purpose in any of the British Provinces.

And need we be reminded that much of the success of every benevolent enterprose, depends upon the support it receives from the fiirer, and better half of all communities. Who are they that calin the troublos incident to life, nud sooth the victim ofdistracting care. Who watch over childhood, and soften the pillow of the dieing. They are our wives, our mothers, sisters, and daughters. Commenced under the most anspicious circumstances, and greeted like the dovo bearing the olive branch to the ark: this Institute will flourish, and long after your names have faded from its records, will the philosopher und philauthrophist rejoioe over your works, while the humble artist will shed the tear of gratitude in commemoration of your bencvolence.
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juring the sumeir annual visit. ifail to observe ind character of living bella. A live is made, inded beneath the - its akiu attach, the skin is disthe animal like lies uway.
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enevulent enterbetter half of all slife, and sooth soften the pillow mghters. Comdike the dove h , and long after d philanthrophist car of gratitude


