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## THE CANADIAN JOURNAL.

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## SUPPOSED EVIDENCE OF THE EXISTENCE OF INTER-GLACIAL AMERICAN MAN.

BE DANIEL WILSUN, LLD, FRGE.

The devermination of a su-called palæulithic period for Eurupe, with its rude implements of stwne and flint, chipped into shape without the aid of any grinding or polishing process, and belongung to an era when the Europeari man was associated with annuals either whully estinct or unknown throughuat the historic period, naturally stimulates the curiusity of American archæulugists in their own native explurations. But thas far only very slaght and ancertain indications have seemed to point to any correspunding evidences of a like antiquity for American man.

Variuns causes cumbine to give to the researches of the American archevogist a character essentuilly distinct from that which marked the barlier stages of antiquarian investigation in Earope, and whach stimulated its votaries to ally themselves with the students of geulory in a rencwed and more strictly scientific inquury into the earliest traces of primeval man In Europe the antiquary had lung been engaged ia the ellacidation of ancient historic numbuents, and had passed bejond these to a study of the ruder traces of priminve art, and of tho physical characteristics of races which appeared to have greceded the histuric nations of the Old Wurld. The researches durected to the sulution of the prublems this orignated were folltred up through inedictal, classical, Assynan, and Egyptiana
remains, to the very threshold of that prehistoric period which forms the debatable land between geological and historical opochs. Indeed, not the least significant fuct in reference to the remarkable disclosures of recent years, is that some of the most characteristic drift implements-such as the spear-head found alongside of a fossil elephant's tooth in the vicinity of Gray's Inn Lane, London; or the large fint implements of the same type obtained from the drift of the Waveney Valley, at Hoxne in Surrey, underlying similar fossil - remains,-had been brought under the notice of archæologists, and deposited in the British Museum, upwards of a century before the idea of the contemporaneous existence of man and the mammals of the drift found any favour.

The conception of the comprehensiveness even of historical antiquity was long trammelled in Europe by a too exclusive devotion to Greek and Roman remains; but the historical relations of the American continent with the Old World are so recent, that for it the fifteenth century is the historic dawn; and anything dating before the landing of Columbus has seemed to be inconceivably ancient. Hence antiquarian speculations and historical research have been almost exclusively occupied on very modern remains; and the supremo triumph long aimed at has been to associate the hieroglyphics and sculptures of Central America, and the architectural monuments of Mexico and Peru, with those of ancient Egypt. But in all that relates to the history of man in the New World, we have to reserve ourselves for further disclosures. There are languages of living tribes of which neither vocalulary nor grammar has yet been constructed. There are nations of whose physical aspect we scarcely know anything; and areas where it is a moot point even now, whether the ancient civilization of Central America may not be still a living thing. The palæolithic disclosures of the French drift belong to our own day; and though the researches of the Rev. Mr. MacEnery in the famous Kent's Hole cavern, had fully half a century ago brought to light true palæolithic fint implements in the same red loam which contained bones of the mammoth, tichorine rhinoceros, cave-bear, and other extinct mammalia, it is only now that the true significance of the disclosures of the ossiferous caves of England is being recognized. America was indeed little behind Europe in the earlier stages of cavern research. It is upwards of forty years since discoveries in the ossiferous caves
of South America were communicated to the scientific world, which seemed to point to like conclusions in referenco to the contemporaneous existence of man and the extinct mammalia of the cave deposits; and which even includod what have been regarded by someas facts of special significmee in reference to the hypothesis of evolution in its relation to the origin of man. A cabinet of the British Museum is filled with fossil bones of mammalia, obtained by Dr. Lund amd M. Claussen from limestone caverns in the Brazils closely resem. bling the ossiferous caves of Europe. The relics were imbedded in a reddish-coloured loam, covered over with a thick stalagmitic flooring; and along with them lay not only numerons bones of genera still inhabiting the American continent, but also of extinct genera of fossil monkeys: the significance of which in relation to the hypothesis of transition throngh intermediate forms, from the lower primates to man, has since received ample recognition.

The comprehensive aspect which the prehistoric archrology of Europe is now assuming, with its paleolithic and neolithic subdivisions, its post-glacial and possible inter-glacial and pre-glacial periods, has not been overlooked in America. Its relations to the geological aspects of the great drift formation of the northern continent could not, indeed, escape observation, and has naturally stimulated both the geologists and the archrologists of the New World to aim at the recovery of corresponding evidence of its palmolithic era. Hitherto, however, the assumed proofs of any such palxotechnic American art, have been isolated and indecisive. A fint knife has been described, recovered from a depth of upwards of fourteen feet among the rolled gravel and gold-bearing quartz of the Grinell Leads, in Kansas Territory. Specinens of fint implements from the auriferous gravel of California were produced at the Paris Exposition of 1855 . According to the geological survey of Illinois, for 1866, stone axes and flint spear-heads were obtained from a bed of local drift near Alton, underlying the lcess, and. at the same depth as bones of the mastodon and other fossil mamuals. Other more or less trustworthy reports of discoveries of a like character have been published from time to time. Mr. Charles C. Jones, for example, in his Antiquities of the Southern Indians, notes the discovery of seeming palæolithic implements in the Nacoochee Valley, in the State of Georgia. There the river Chattahoocheeflows through a rich auriferous region; and, in the search for gold,
the explorers have made extensive cuttings through the soil and, underlying drift-gravel, down to the slaterock upon which it rests. During one of these excavations, at a depth of some nine feet, intermingled with the gravel and boulders of the drift, three flint implements were found, measuring between 3 and 4 inches in length, and, according to the description of Mfr. Jones, "in material, manner of construction, and appearance so nearly resembling some of the rough so-called flint hatchets belonging to the drift type, that they might very readily be mistaken the one for the others."

In some of the illustrations of American palroolithic art thus adduced, there are undouhted indications of an undue bias in favour of the interpretation of the evidence in the direction of greatest antiquity, even where, as in the case of an implement from Californian gravel drift, the specimen adduced wes a polished stone plummet, altogether at variance with any paleotechnic processes hitherto disclosed.

But the most startling discoveries of primitive flint or stone implements were of minor importance, in comparison with the recovery of human remains from the auriferous drift of California. In 1857 Dr. C. F. Winslow produced a fragment of a human skull found eighteen feet below the surface, in the "pay drift" at Table Moun. tain, in connection with the bones of the mastodon and fossil elephant. A later disclosure brought to light a complete human skull, reported to have been recovered from auriferons gravel, underlying five succossive lava formations. Professor Whitney, after inquiries which satisfied himself of the genuineness of the discovery, produced the skull at the Chicago meeting of the American Association for the Advancement of Science, in 1869, to the manifest delight of some who were prepared upon such evidence to relegate American man to a remoter epoch than the flint-folk of the Abbeville and Amiens gravel drift. It was subsequent to this startling production of a complete human skull, assumed to be found in situ, in the drift, that the highly polished plummet of syenite, in the form of a double cone perforated at one end, was produced before the Chicago Academy of Sciences, as an implement found at a depth of thirty feet, in the drift gravel of San Joaquin, California, by workmen engaged in digging a well. In this case also Professor Whitney appears to have lad no hesitation in assigning it to the age of the mastodon.

That flint and stone implements of every variety of form, and every degree of rudeness of primitive art, abound in the soil of the

New World, has been established by ample proof. But along with this, it has ever to be borne in remembrance that its indigenous population has not oven now abandoned such arts. So striking, indeed, is the analogy between the arts of the primitive cave men of Belgium and France, and those of the Hyperborean race of this continent at the present day, that Professor Boyd-Dawkins, in his Cave Hunting, thus sums up a reviow of them: "All these fucts can hardly be mero coincidences, caused by both peoples leading a savage life under similar circumstances: they afford reasons for the belief that the Exkimos of North America are connected by blood with the palæolithic Cave dwellers." Such a far-reaching deduction, which would recognize in living tribes within the Arctic Circle of the American continent lineal descendants of the Cave dwellers at the head waters of the Garonne in Europe's mammoth and reindeer eras, is not one to be accepted as yet as more than a hypothesis. But the analogies thus recognized between the manufactured implements and weapons of tribes at present in occupation of Arctic America and those of the post-glacial if not of the inter-glacial races of Europe's prehistoric dawn, warn the archæologists of America of the danger of error from a too hasty assumption of a like antiquity for chancefound objects analogous in form to the river-drift implements of Europe.

But the Report of the Peabody Jruseum of American Archacology and Ethnology for the present year, 1877, includes a special report by Dr. Charles C. Abbott, setting forth the discovery of data from which it is assumed that man may be shown to have existed on this continent during the process of formation of the great gravel deposit, now ascribed to glacial action, which extends from Labrador even as far south as Virginia; and has been found specially available for archæological research in the valley of the Delaware river, near Trenton, New Jersey.

The great importance which attaches to the discoveries now referred to is due to the fact that they are the result of a systematic research, based on the scientific analogies of European archæology. For it is important to bear in remembrance, in reference to such disclosures, thint the evidences of the antiquity of European man do not rest on any number of scattered, chance discoveries of isolated illustrations of primitive art. On the contrary, the traces of primeval man are now successfully sought for on purely geological evidence. It is a
very simple matter that the archrologist should dig into a Celtic or Saxon barrow, and find there the implements and pottery of its builder But English geologists, baving determined the character of the toolbearing gravel of the French drift, have sought for flint implements in corresponding English strata, as they would seek for the fossil shells of the same period, and with like success. Palreolithic implements have now been recovered in this manner in Suffolk, Bedford, Hartford, Kent, Middlesex, Surrey, and other districts in the south of England. So entirely indeed has the man of the drift passed beyond the province of the archeologist, that in 1861 Professor Prestwich followed up his Notes on Further Discoveries of Flint Implements in Beds of Post-Pleiocene Gravel and Clay, with a list of forty-one localities where gravel and clay pits or gravel beds occur, as some of the places in the south of England where he thought flint implements might also by diligent search possibly be found; and subsequent discoveries have confirmed his anticipations.

Dr. Choxles C. Abbott has applied the same principle on this continent, and selecting the glaciai drift of the valley of the Delaware River, New Jersey, for his investigations, has as he believes, been rewarded with a like success. The character of these toolbearing gravel-beds of New Jersey are thus described by Professor N. S. Shaler: "The general structure of the mass is neither that of ordinary boulder clay, nor of stratified gravels, such as are formed by the complete re-arrangement by water of the elements of simple drift deposits. It is made up of boulders, pebbles and sand, varying in size from masses containing one hundred cubic fect or more, to the finest sand of the ordimary sea beaches. There is little trace of true clay in the deposit. 'Where is rarely enough to give the least trace of cementation to the masses. The various elements are rather confusedly arranged; the large boulders not being grouped on any particular level, and their major axes not always distinctly coinciding with the horizon. All the pebbles and boulders, so far as observed, are smooth and water-worn; a careful search having failed to show evidence of a distinct glacial scratching or polishing on their surfaces. The type of pebble is the sub-ovate or discoidal, and though many depart from this form, yet nearly all observed by me had been worn so as to show that their shape had been determined by running water. The materials comprising tine deposit are very varied, but all I observed could apparently with reason be supposed to have
come from the extensive valley of the river noar which they lio, except, perhaps, the fragments of some rather rare hypogene rocks." As regards the distribution of those terrace deposits, Professor Shaler is still in doubt as to their origin, though he has made beds of this general character a sulject of specinl study for eighteen years. They occur from Virginia northward to Labrador; and wherever found, correspond in structure. "The water-worn character of the pebbles," he remarks, "and the approximation to a level of the upper surface of the mass, make it plain that these beds were laid down beneath the water. The entire absence of organic remains in the mass proves that it was essentially a lifeless sea in w.ach they were laid down. I am disposed to consider these deposits as formed in the sea, noar the foot of the retreating ice-sheet, when the sub-glacial rivers were pouring out the vast quantity. of water and waste that clearly were released during the breaking-up of the great ice.time." It is further to be noted, however, that on the one hand, in so far as this is to be regarded as a portion of the great glacial drift, it is not uniformly lifeless in the character of its contents; and, on the other hand, the deposits assumed to have been thus laid down in the depths of the ucean, appear to have been subsequently re-arranged or modified by other agencies, so as to suggest a reconsideration of the age assigned to the palæolithic remains which they have disclosed.

Such is the character of the geological formation in which Dr. Abbott claims to have successfully carried on researches leading to the discovery of examples of American paleolithic art analogous to those of the European drift. Professor Shaler says: "Along with the perfect looking implements figured by Dr. Abbott, which are apparently as clearly artificial as are the well-known remains of the Valley of the Somme, there are all grades of imperfect fragments, down to the pebbles that are without a trace of chipping;" and in the concluding sentence of a Report on the Ag g of the Delaware Gravel Beds containing Cliipped Pebbles, he remarks: "If these remains are really those of man, they prove the existence of interglacial man on this part of our shore." Without any such cautious qualification, Professor F. W. Putnam, the experienced curator of the Peabody MLuseum, states in his report to the Board of Trustees: "From a visit to the locality with IJr. Abbott, I see no reason to doubt the general conclusion he has reached in regard to the existence of man
in glacial times on the Atlantic coast of North America." Such, then being the present state of this important inquiry, a review of the evidence thus far adduced cannot fail to be of interest.

The Report of Dr. Abbott is produced as an embodiment of the results of "investigations in the valley of the Delaware, made with reference to the occurrence of supposed palrolithic implements in the gravel beds facing that stream, based upon a series of careful examinations of the deposits in question, made at different points, together with a study of the surface soils, so far as these, of themselves and by their contained relics, bear upon the question of the origin ard character of the specimens of stone implements taken from the underlying gravels." Keeping carefully in view the misleading traces of comparatively modern Indian remains in deposits geologically ancient, he remarks: "The chance occurrence of single specimens of the ordinary forms of Indian relics, at depths somewhat greater than they have usually reached, even, in constantly cultivated soils, induced mo, several years since, to carefully examine the underlying gravels, to determine if the common surface-found stone implements of Indian origin were over found therein, except in such manner as might easily be explained, as in the case of deep burials by the uprooting of large trees, whereby an implement lying on the surface, or immediately below it, might fall into the gravel beneath, and subsequently become buried soveral feet in depth; and lastly, by the action of water, as where a stream, swollen by spring freshets, cuts for itself a new channel, and carrying away a large body of earth, leaves its larger pebbles, and possibly stone implements of late origin, upon the gravel of the new bed of the stream."

But while thus recognizing the intrusion of relics of modern Indian workmanship at considerable depths in ancient gravels, Dr. Abbott claims to have discovered, independent of those, and readily distinguishable from them, though in the same underlying gravels, certain rudely shaped specimens of chipped stone, which have all the characteristics of the stone implements of palæolithic times. These are classified by him into a primitive form, to rhich he has given the name of "turtlo-back" celt, with modifications of the same, and others approximating to the more familiur forms of the hatchet, the spear, and the scraper; while the deposit in which thoy occur is largely made up of ordinary smooth water-worn pebbles, varying in size from half an inch in diameter to boulders estimated to weigh
from one to twenty tons. Intermingled with those thore are indeed fractured angular pebbles, some of the partially ground and polished surfaces of which may, as Dr. Abbott conceives, be the defacing results of later trituration on what were originally rudely chipped implements of the same class; but as a rule, the angular pebbles appear to be of natural formation.

Having thus discriminated alike between ancient and modern remains, and between natural and artificially chipped stones, Dr. Abbott proceeds to remark that having satisfied himself that the so-called "turtle back" celts, which are the most primitive form of the chipped implements of the gravels, really are of artificial origin, it is further noticeable that some of them are identical in shape with the ordinary forms of European drift implements. Among the specimens thus found, is one unquestionable spearhead-like implement of fint, which is not only specially selected as one of the three supposed American drift implements for engraving to accompany and illustrate the Report, but is adduced at the conclusion of the Report as one of the strongest confirmations of the deductions from the whole evidence. "Having shown," says Dr. Abbott, "as I think, that the deposit examined is glacial drift; and that the stone implements found therein could not have reached their present position at any time subsequent to the formation of their deposit; and having placed beyond doubt, I think, the question as to whether these rudely chipped stones be of artificial origin or not, by the discovery of an unquestionable spear-point (fig. 3) associated with them, I am led to conclude that the rude implements found in the gravel were fashioned by man during the glacial period, and were deposited with the associated gravels as we now find them." To this fint spear-head I shall accordingly refer with such care as the significance thus attached to its discovery requires.

Professor Shaler states that specimens of the chipped implements of stone are found in great plenty along the escarpments facing the Delaware. On one of his visits a search of three hours was rewarded with two examples of the most artificial character, in a locality previously carefully explored by Dr. Abbott. But he adds: "All that I have seen, with a single exception, both of the perfectly and the imperfectly chipped fragments, are made of a curious granular argillite, the like of which I do not know in place."

Bearing the above facts in remembrance, the exceptional character of the spear-like implement of flint above uoted is specially worthy
of consideration; for it appears to be the only instance as yet observed of the occurrence of a drift implement of this mineral. Dr. Abbott remaks: "This specimen was taken from the grave], at a depth of six feet from the surface, on the site of the Lutheran Church, Broad Street, Trenton, N. J. It was found lying in situ, in a shallow stratum of coarse pebbles, and clearly showed by its surroundings that it had not gotten in its position, where found, subsequently to the deposition of the containing layer of pebbles." When discussug the most likely objections to the couclusion affirmed by him, he asks: "Ought not these implements to be distributed equally thronghout the area of the deposit?" and thus replies: "I have carefully considered this, and hoped to give a satisfactory reply by finding these same forms in widely separated localities; but in this I heve failed, unless the exception of a single rude spear-head be accepted as indicative of a comparatively wide distribution of these palwolithic relies; this single specimen being taken from gravel, some distance from the river shore, and a mile from the bluff where the bulk of the collection was discovered. It must be remembered, however, that the gravel generally has not been systematically cxamined, and we do not know that these same implements are not abundant even elsewhere; although this I consider doubtful, imasmuch as they were probably not as numerous originally as the stone implements of the Indians subsequently wero; and the majority would, I suppose, be broken and worn to ordinary oval pebbles, in the rubbing and grinding together of these and other fragments of rocks, while being transported either by ice or water."

While the Report was passing through the press, Dr. Abbott added the following note in reference to this single rude spear-head taken from the gravel: "Since the above was in type, I have been successful in discovering several well marked specimens, in many and widely separated localities, and am now led to believe that they will be met with in the gravel beds wherever occurring in Southeyn and Central New Jersey." It is not clearly apparent whether this note is designed to imply that these several well marked specimens of the spear-head type were also of fint. In a subsequent part of the Report, when referring to the character of the underlying soil, in relation to the lower accumulation of stone and gravel, where the large boulders occur in situ, he adds: "In such a stratum, immediately beneath a stone that would weigh at least half a ton, I found a well chipped spar-shaped implement." This, I infer, was not of gint, as the
description occurs in the text of the same Report in which the flint spear-head shown in fig. 3 is more than once referred to as "the only instance of the occurrence of a drift implement of this mineral." But the very fact that in the note above quoted the material is not specified seems to indicate an inadequate appreciation of the significance of the occurrence of implements of fint in a drift doposit of unstratified gravel and boulders, in which flint is wanting as a natural constituent.

The flint spear-head, as figured in the Report, cannot fail to attract attention from its obvious correspondence to a.familiar type of the drift implements of France and England. But this is deceptive. It may be described as a pointed lanceolate implement presenting a near resemblance to the worked flint, fig. 420, of Mr. Evans' Ancient.Stone Inplements of the Drift, found at Rampart Hill, Icklingham, Suffolk: or to another (fig. 472) from Milford Hill, Salisbury. Both of these are somewhat more symmetrical; but the important element of difference is that of size. The Icklingham implement measures nearly 6 inches in length; while that of Milford Hill, characterized by Mr. Evans as a "a magnificent specimen," is upwards of $8 \frac{1}{2}$ inches long. But the reduced scale upon which these and other undoubted examples of the drift implements of Europe are shown is apt to suggest a deceptive correspondence to the Delaware Valley implement, which is figured the full size, i.e., barely $2 \frac{3}{3}$ inches long.

But it is still more important to note the relation of the above analogons implements to the character of the English drift in which they were found. Icklingham is in Suffolk, in the centre of one of the most noted fiint regions of the South of England, where even now the manufacture of gun-fints is still prosecuted to some extent. Milford Hill is in the vicinity of Salisbury, in Wiltshire, also in a flint-bearing region, where numerous implements of the same type have been recovered both from the gravel and the underlying chalk rubble, where they lay side by side with fragments of flint which retained their original colour. The localities are accordingly such as would encourage the search for fint implements, of which they have yielded munerous examples both of palsolithic and neolithic types. It is altogether different with the drift of the Delaware River. It appears to include deposits of gravel, sand, and boulders of glacial origin, varying considerably in mineralogical character;
obviously originally derived from a wide area of diverse geological characteristics; and subsequently rearranged and intermingled by the action of waier. Prof. Cook mentions, in the Geology of New Jersey, that "in the azoic and paleozoic regions of the State, the denudation has been very extensive; but it is not so easy to measure its amount, as it is not at all probable that the surface was smooth when the denudation, whose marks we now see, was in progress. That it must have been very great wo may safely infer from the immense quantity of material which we can identify from the gnoiss, the Potsdam sandstone, the magnesian and fossiliferous limestones, the Oneida conglomerate, and the whole series of upper Silurian rocks, which are now scattered all over the State quite to Cape May." Elserwhere, speaking "of this wear and movement of earth, gravel and boulders," the same writer remarks, "in some localities, as along the highlands from Boonton to Pompton, every notch in the mountain has a hill of drift opposite to it, on the open plain to the southeast." Hence the miscellaneous character of the transported material, including enornıous boulders, and smaller fragments of granitic, hypogene, sandstone and limestone rocks; along with water-worn pebbles of the same granular argillite as the "turtleback" celts and other characteristic stone implements of this Delaware River drift gravel, but no flint.

Of the artificial origin of the fint spear-head there can be no doubt. But there is no satisfactory evidence to justify its being classed as a true drift implement; and if the several well marked specimens of the same type so slightly alluded to in the subsequently appended note, are also flint implements, it still remains to be seen how far there is reason for regarding them as other than intrusive examples of a class of Indian implements of very common occurrence in more superficial deposits. For indeed, when Dr. Abbott is discussing the origin of specimens identical with the seemingly genuine dxift implements of the "turtle back" celt form, but obtained on the surface of the talus at the foot of the bluff, he remarks: "In the talus which now covers much of this bluff, there is nothing but the uniform mass of rounded and angular pebbles, and with them such chipped implements as the specimens here figured." He accordingly follows up this statement with the pertinent question: "As already pointed out, why should this recently displaced material only yield the rudest forms of clipped stone implements, when the surface is
literally covered in some places with ordinary Indian relics; not a specimen of which has, as yet, occurred in this gravel ?"

Excluding then, the spear-shaped flint implement or implements as of doubtful age, and inconsistent in mineralogical character with the deposit in which they, were found: two other forms, both modifications of the same rude oval, with the two ends of equal breadth, include the characteristics of the entire series of these Delnware River gravel bed implements. The more perfect type is thus described by Dr. Abbott: "Figure 2 represents a more carefully wrought specimen of these rude implements, measuring nearly 5 inches in length, by $2 \frac{1}{2}$ inches in average breadth; and less than 2 inches in greatest thickness. It is an excellent example of the form previously referred to as a 'turtle-back' celt. Of this specimen Prof. Wadsworth remarks: 'As far as can be told from examining its external surface without any fresh fracture, I should consider it to he made of very compact argillite. It shows weathering, and also a more recent fracture, which has weathered to some extent. I should consider it very doubtful if this could be formed naturally.' This specimen came from the bluff facing the river. It was taken out from a newly exposed surface, after making an excavation of fully three feet from the exposed face of the bluff; which was itself evidently the undisturbed gravel."

The other and more perfect form may also be described as only a more finished adaptation of the prevailing natural form of the discoidal and sulovate rolled pebbles of the drift, in which naturally fractured specimens occur approsimating in their shape to the socalled "turtle-back" celts; though Dr. Abbott says "it may at once be seen that it is, in every case, but ani accidental resemblance. The outline is obtained, but not the subsequent chipping that gives the implement such finish as would make it desirable for use." Examples, however, do occur, of angular pebbles partially smoothed and polished, yet retaining in form and traces of fracture, in some cases at least, a marked resemblance to those clearly of artificial origin. "Such specimens," Dr. Abbott remarks, "may in fact have been fashioned by man, and only partially lost, by the polishing action of water and sand, those indications of artifically produced fractures, suck as characterizo the specimens here figured."

The following is the description which accompanies the figure of the ruder oval implement: "Figure 1 represents a specimen of these
rude implements, which, unlike the socalled 'turtle-back' celts, is distinctly chipped upon both sides, and has but a slight amount of secondary chipping. The cutting edges, however, are comparatively straight. This aud other examples of the supposed stone implements lave been submitted to Professor M. E. Wadsworth of Cambridge to determine their mineralogical character, as this has an important bearing on the question of the fracturing being of natural or artificial origin. Prof. Wadsworth remarks of this specimen: 'It is an argillite. It is highly indurated, with a conchoidal fracture, without cleavage, and fuses to a yollowish green or white glass which is feebly magnetic. The weathering which it shows could hardly have taken place except before it was covered with soil; it might possibly, but I think not probably, in a loose open gravel. It is not at all likely to be of natural formation." It measures $3 \frac{1}{2}$ inches in length, and was found in the undisturbed gravel of the bluff facing the River Delaware, at a depth of six feet from the surface.

Analogous implements worked in flint occur in English river drift, as shown in fig. 452 of Mr . Evans' Ancient Stone Implements, -an oval implement found in gravel dug at Hackney Down, to the north-east of London; and in fig. 476, one of several specimens, some of them more coarscly chipped, recovered from the Bournmonth gravel, Hampshire.

So far then it is noticeable that while the flint spear-head-one or more,-found at a depth of six feet, lying apparentely in situ, in undisturbed gravel, is rather calculated to throw doubt on the paleolithic character of the implements of the Delaware river drift; the more abundant argillite celts accord with the drift gravel in which they occur, and cannot fail to awaken the keenest interest. In the Valley of the Somme, and in some of the English areas equally prolific in palæolithic flint implements, the archæologist is led back through successive stages of Frank, Saxon, Roman and Gaulish or British celt, to the neolithic arts of the lake dwellers of Switzerland, or of the Scottish and Irish crannoges; and so onward to the era of the cave men of ari undefined post-pliocene age. The interval still unaccounted for between the oldest of those and the palcolithic era of post glacial man, according to any chronology hitherto applied, is indeed enormous. Yet such a series of stages of progression belps the imagination to realize in some degree the remoter past. But in the assumed revelations of parzolithic art in the North American drift, we pass abruptly from the savage Indian
who still claims to represent the aborigines of the New World, to the ruder savage of that primeval dawn when the ice age of our northern hemisphere had only begun to contract its sway over the northern continent.
The theory at which Dr. Abbott has thus far arrived may be thus indicated. Towards the close of the great ice age, the locality which has thus rewarded his search for specimens of palmolithic art marked the termination of the glacier on the Atlantic coast. Here, at the foot of the glacier, a primitive people, in a condition closely analogous to that of the Esquimaux of the present day, made their home, and wandered over the open sea in its vicinity, during the accumulation of this deposit from their melting glacier in the bed of the neighbouring ocean. But the drift gravel thus deposited has been modified by subsequent action. According to Dr. Abbott's conclusions, this glacial debris was deposited in open water, on the bed of a shallow sea. But while it is indisputably originally of glacial origin, it appears to have been subjected to subsequent modifications which materially affect the question of the post-glacial or inter-glacial character of the supposed evidences of art included in it. The disposition of the large boulders, and the absence of true clay in the mass, both suggest that it has undergone great changes since its original deposition as glacial debris. Both Professors Shaler and Pumpelly remark on the absence of ice scratches on the pebbles and boulders; and if this is to be accounted for by subsequent action of water, the included chipped implements provo by their unpolished surfaces that they are of more recent origin. Huge boulders, of the same character as those which abound in the undorlying gravel, also occur on the surface. Their presence there is referred to by Dr. Abbott as throwing light upon "the occurrence of rude implements identical with those found in the underlying gravels, inasmuch as the same ice-raft that bore the one, with its accompanying sand and gravel, might well gather up also stray relics of this primitive people, and re-deposit them where they are now found." Accordingly, seeking in fancy to recall this ancient past, he says: "In times preceding the formation of this gravel bed, now in part facing the Delaware River, there were doubtless localities, once the village sites of preglacial man, where these rude stone implements would necessarily be abundant.
But assuming that the varions implements fashioned by a strictly pre-glacial people have been totally destroyed by the crushing forces of the glacier, and that the specimens now produced were not brought
from a distance, may they not be referred to an early race that, driven southward by the encroaching ice, dwelt at the foot of the glacier, and during their sojourn here these implements were lost?" The assumption, it is manifest, is thus far based on imperfect, if not contlicting, evidence, which must be greatly augmented and carefully weighed in all its bearings. Nor need we wo.der at the uncertainty manifested as to this discovery of a glacial, intar-glacial, or post-glacial man of America, when it is remembered that the result of the Conference on the Antiquity of Man, held recently by the Anthropological Institute of Great Britain, was on the whole either to throw discredit on the reputed cases of the occurrence of paleolithic remains in deposits older than the post-glacial ; or to suggest that the river gravels containing palroolithic implements originated in their present condition at a later period than the glaciation of the districts in which they occur. Authorities of the highest character among the geologists and archrologists of Great Britain are at least equally divided on the subject; and the result of the Conference is,--if not absolutely to diseredit the supposed evidence of paleolithic man, either in the caves or the river deposits of England older than post-glacial:-at least to demand much more conclusive evidence than any which has yet been adduced, before it can be aocepted as a scientific fact that man existed in southern England and in France prior to the great ice age which wrought such enormous changes on the whole contour of Northern and Central Europe.

Professor Shaler purposely deals mainly with the geological aspect of the question, cautiously guarding his statements in reference to the age of "the specimens of supposed implements." .He constructs a hypothesis at the close, "on the assumption that these pebbles owe their form to forces that antedate the deposition of the beds in which they are found." Thus-leaving to archæological experts to determine the artificial origin of the "supposed implements" found along the escarpments and imbedded in the drift of the Delaware Valley, he arrives at the conclusion, that from its miscellaneous materials "pebbles of a peculiar composition were selected;" and after referring to evidences of a later change on the drift materials in which they lic, which lead him to the conclusion "that the pebbles were chipped before the waste which constitutes the mass was brought into its present position," he thus sums up: "If these remains are really those of man, they prove the existence of inter-glacial man on this part of our shore."

But the source of the later local changes, thus assumed to pertain to an inter-glacial epoch, has still to be determined; and with it the geological age of the drift gravel in its present condition. Professor Prestwich and others who discussed the age of the tool-bearing strata of Northern Europe, urged that their positions in the vallegs show them to be more recent than the glaciations of the districts in which they occur ; and the character of the drift gravel of the Delaware River Valley, seems still more open to a similar characterization. In the gravel of Long Branch, which according to Prof. Smock, the Assistant State Geologist, is of the same age as that at Trenton, rolled fragments of reindeer horns occasionally occur, and two skulls of the walrus have been found. Prof. Pumpelly has also visited the principal localities in which Dr. Abbott has carried on his researches; and both he and Prof. Shaler remark on the absence of ice scratches on the pebbles and boulders forming the deposit; and they apparently arrive at the same conclusion, that it is originally of glacial origin, but that its materials have been subsequently modifed by the action of water, and so re-arranged with more or less of stratification. Dr. Abbott accordingly reverts to those deductions, communicated to him after the original draft of his Report had been written, and adds this comment: "Inasmuch as such subsequent action may have occurred long after the final deposition of the gravel as true glacial drift, the antiquity of the contained stone implements is proportionately lessened, and may be wholly unconnected with the glacial period, although the latest possible date that can be assigned to the deposition of the gravel in its present condition gives an antiquity to the implements found therein far greater than can be asserted of any previously found traces of man in North America, other than the discoveries of Prof. Whitney in California."

The subject is one which will not fail to receive ample consideration from those best qualified to test the full bearings alike of the archæological and the geological evidence. The researches have thus far been carried on with funds appropriated for the purpose by the Board of Trustees of the Peabody Museum of American Archæology and Ethnology ; and the fruits of Dr. Abbott's labours are justly referred to in their annual report as probably the most important result attained in American archæology during the past year.

## PROTOTYPOGRAPHY.

Gead by Rev. Dr. Soadaing, at the Cazton Celebration of the Canadian Institute, Toronto, June 15, 1877.

We contemplate with some astonishment the facility with which little children acquire a langunge, the quickness with which they catch the right use of words, of peculiar expressions and idioms. And when at a later stage, the processes of reading, writing and ciphering are proposed to them, we are equally struck with the readiness with which, in most instances, thesso processes are mastered; a readiness such that after the lapse of a fow months or years, skill in these arts seems to the possessor and to others the result almost of intuition.

The reason of all this is: the certainty, now proved by long experience, that there is in the buman mind, naturally, a predisposition and preparedness to form language, first simple, then complex; and to make it, when thus formed, visible and permanent in some way. And similarly in regard to numbers; there is, without doubt, a like predisposition and preparedness, first to use them, and then to reduce them, for convenience, to visible shape.

Printing, it is manifest, is an ultimata development of these innate human tendencies. The germ of the discovery was in the Race; bat its evolution was deliberate, and regulated by conditions; and so, in natural order, first came the blade, then the ear, then the fall corn in the ear. In short, the history of printing is a repetition of that of language itself, of writing, of numbers, of painting, of music; each of which took centuries to attain to the degree of excellence in which we now are so fortunate as to receive them. Signet rings and stamps of all kinds were a species of printing apparatus. The scarabri, made of hard stone, found in the tombs of Egypt, bear on their under side elaborate inscriptions, evidently intended to be trans-ferred-and that, too, probably through the medium of a pigmentto the surface of fitting substances. The dies of coins and medals in
all countries involve the same iden-the transfer of inscriptions and devices by pressure. The Chinese, from an early period, have actually printed, laboriously carving in relief on separats tablets of wood the contents of each page about to be reproduced. And if such was a practice of tho Chinese, we may be sure it was the practice also of other Asiatic peoples, equally, if not more civilized, but who have undergone greater vicissitudes.

In Europe, whether learned from Asia or devised independently, Hock-printing, just before the invention of the movable types, was well-known, though not practised as extensively as in China, nor with the same skill and elegance. The manufacture of playing cards was one common application of the process, but a more noble use of it was in the production of books, especially illustrated books, the picture and the description or moralization being all carved on the same wooden plate. The best known European example of an illustrated volume printed from carved blocks, prior to the invention of movable types, is tho Biblia Pauperum Predicatorum, a series of Scripture scenes rudely but boldly drawn, three on a page; the one in the middle from the New Testament, the other two from the Old; above and below are a pair of heads representing the prophets from whom respectively texts germane to the New Testament scene are quoted; all in Latin, with leonine descriptive verses subjoined; e.g., under a picture of the Adoration of the Magi: Christus adoratur; aurum, thus, myrrha donatur; and under the Burning Bush, Lucet et ignescit, sed non rubus igne calescit. Other remarkable early blockbooks are the Speculum Irumance Salvationis, the Ars Moriendi, the Ars Memorandi, the Historia Sancti Johannis Evangeliste, and warious editions of Donatus, an elementary Latin grammar.

But up to 1440, or a little earlier, no one, as it would seem, while contemplating a carved block propared for an impression, had as yet chanced to carry forward his thoughts just the one step which would. have ied him to the happy reflection: Seeing that all the words in apage are made up of letters again and again repeated, would it not be practicable, instead of carving perhaps all the letters of the alphabet two or three times over in each page, to make separate letters, which might be fastened together so as to form the words contained in one page; and then, after having done duty in the production of that page, be released, and combined together afresh for the production of another page; and so on repeatedly? At length, in 1440, or
a little earlier, tho thought did start up in one mind at least, as will be narrated presently. The experiment was first mado with wood. Separate letters wero carofully carved, each at the end of a small block or stem, so shaped and trimmed as to fit in well with any of its fellows. The small blocks were strung together, we are told, by means of a strong thread passing through an eye or a hole deftly made in each of them. The result was encouraging; although the impressions produced wero rude and uneven, and moreover, uso specelily told upon the surface of the letter. Metal was thought of is a substitute for wood. Lead, as being most easy to manipulate, would of course be the first tried. Here again the effect of use was alnost instantly to be seen. Then copper and tin were employed with respectable results. But the shaping and finishing of each letter by hand was tedious and costly. To save time and labour, small separato blocks were now cast with the view of having a letter cat in relief on the end of each; to cast the stem and the letter together in one piece was not yet proposed. Then came the idea of converting the perfectly carved letter, with its stem or shank, into a model, which, by being foreed into sand or clay, or other fitting material, might form a mould, whence letter's might be turned out at once in a finished state. Thus far the seale on which the experiment had been made was a limited one. A few sets of the alphabet sufficed for the trifles as yet attempted. By the use of the knife and file enough of accuracy in the shape and height of the small number of types required, was secured. But when now larger designs began to be entertained, it was seen that the process of trimming each letter by hand was altogether too slow, as well as too costly. If the great folios which the writing-rooms of the monasteries had hitherto supplied, were in future to be furnished to the public by means of the new process, it was evident that the supply of type must be plentiful and readily sustained, and that the method of finishing must accoidingly be improved and expedited. Here was the crux of the first stage of the art of printing. The difficulty was at length most ingeniously surmounted. When now, a metallic compound was devised, combining a sufficiency of hardness with casy fusibility, and as suitable and satisfactory ink, the great invention, which had been taxing the wit of experimenters so long, was in effect completc.

It is singular that in the course of their long practice of blockprinting the use of movable types should never have been thought of by
the Chinese, who, with their skill in minute carving, could so readily have fashioned them. Perhaps the immense number of characters used in the written language, and certain special methods observed in combinations, may have stood in the way; while in the West the invention was facilitated by the comparative fewness of the letters in the alphabets, and a consequent simplicity in the necessary combina tions. A famous passage in a work of Ciccro's on The Nature of the Gods, contained clearly the ideat of words and sentences formed by selection from a mass of loose separate letters. In opposition to the philosophers who thought that the world and all that is therein lad come from a fortuitous concourse of atoms, he says it would be just as easy to believe that "if a great quantity of the one-andtwenty letters, composed either of gold or any other material, were thre wn upon the ground, they would fall into such order as legibly to form the 'Annals of Ennius.'" "I doubt," Cicero adds, "whether fortune could make a single verse of them." It is evident, had Cicero's mind happened for some reason to have been turned to the subject, one step further would have taken him to the thought of movable types to be employed in the reproduction of books. But with him the necessity of such an invention was not urgent. His numerous clever slaves, trained and highly accomplished as transcribers, were always at hand to supply him quickly with the volumes which he coveted so much and loved so well, whenever access for a short time could be obtained to a copy by loan from private or public collections.

Some years ago verbose disputes were rife as to the inventor of movable types. The distinctive pre-eminence of one out of two or more continental cities was involved in the issue of the strife. Haarlem, at the northein extremity of the Sea of Haarlem, a great sheet of shallow water so called, not far from the mouth of the Rhine, and Mayence, situated on the Rhine itself but far in the interior, each clained the honour of having sheltered within its walls the man who struck out the happy thought. The question is now leld to be settled by a kind of compromise. Great honour to him who conceived the idea of movable types and first employed them, however rudely; but as great, if not greater, to him who carried forward the idea, experimenting in metals and moulds, until the complex matrix and perfect type as we now see them were achieved. The invention, it is now generally believed, obscurely germinated at

Haarlem; but it developed itself very nearly to perfection at May ence, the latter city really deriving the discovery in a crude state from the former. The story as told by the typogrephical authorities of Holland, but dispused, and supposed to be refuted by circumstantial evidence elsewhere, is as follows: Lourens or Lawrence Jaussoen was a well-to-do citizen of Haarlem; according to some, a licensed victualler ; according to others, a xylographer or block-book printer, who prepared with his own hands the wooden tablets from which, after duly tinting them with pigments, he took his one-side copies, pressing down the paper or vellum on the charactors, or the engraving, with the tips of his fingers. Ono day, idling away a leisure hour in one of the gardens or public walks of Haarlem, in company with his grandchildren, as he strolled along he fashioned with his pocket-knife, for their amusement, out of a piece of fresh bark casually picked up, a number of small letters, and then fastening them reversed on the surface of a piece of stiff paper, so as to form certain words, and turning the whole over on anotiner piece of paper, he exhibited to his young friends a copy of these words produced by the stain of the fresh bark. At this moment of time, we are toll, the notion of a wide application of the process just cmployed was begotten in Lawrence Janssoen's mind. The query then and there suggested itself to him: Instead of carving in solid mass the contents of each prge of a book, as had hitherto been done, might not the letters be made separate and used in innumerable combinations 3 I pass over details; but some sets of movable letters were speedily constructed, first in wood and then in lead, and used with certain rude results, a few specimens of which are said to be in existence. The system adopted was kept secret in Iawrence Janssoen's household; but at length an unfaithful employe, we are assured, purloined the newly-contrived appliances, and made off with them, first to Amsterdam and then across the country to the Rhine, and so to his former home, Mayence-having taken advantage, some say, of a holiday at Christmas time in the office at Haarlem, or, as others think, of a temporary suspension of business when the death of Lawrence Janssoen occurred in 1440 .

Now John Gensfleisch (better known as Gutenberg) appars on the scene, who afterwards substituted copper and tin for wood and lead in the cutting of type, who even succeeded in manufacturing punches, and constructing moulds and matrices from which type was
cast never yet surpassed in beauty and accuracy of form, although, as we shall see, his, to some extent, was another case of the sic vos non robis of old. It is recorded that the name of Iawrence Janssoen's unfaithful employe was John. No other designation is given him in the story, which is not so extraordinary, as surnames, in our sense of the term, were at the time not common. It was once conjectured that Gensfleisch was this man. But now the authorities show by a comparison of dates that this is improbable. They show at the same time that there were two persons of the same name, John Gensfleisch, senior, and John Gensfleisch, junior, uncle and nophew; and the runaway workman, they say, may have been John Gensfleisch, senior. The theft of material they think an angry Haarlem fabrication; it was simply the secret of the mode of manufacture and application that was carried off from Janssoen. On reaching Mayence, John Gensfleisch, senior, began in an obscure way the practice of the new art. Later he was joined in the same occupation by his nephew, John Gensfleisch, junior, who had now dropped the surname Gensfleisch (Gooseflesh), and assumed that of Gutenberg, from a property in or near Mayence once possessed by his family, which was noble by descent. We first hear of Gutenberg, or John Gensfleisch, junior, at Strasburg, further up the Rhine. Of an ingenious turn of mind, we find him employed there in working a new apparatus, an invention of his own, for polishing gems. With him in this undertaking are associated as partners, Hans Riffe, Andrew Drytzehen, and Andrew Heilmann, who have each supplied hin with money. When the particulars of the recent discovery at Haarlem reached him, probably through his uncle at Mayence, he at once set about making the experiment himself. He resolved to attempt the cutting and casting of a set of types for the reproduction of the Speculum Humance Salvationis, .i book in considerable demand. His partners in the gem-polishing scheme again opened their purses to him, but strict secrecy in regard to the new undertaking was enjoined. Certain prying questions put by wives and others as to what was now engaging the attention of the partners so closely, wero met by the reply that they were busy making looking-glasses for the approaching fair at Aix-la-Chapello-an allusion to the meaning of Speculum, i.e, mirror or looking-glass. The letters were still fitted for use by individual manipulation. The slowness and general unsatisfactoriness of this process led Gutenberg to turn his attention
to the construction of better moulds; a study which resulted in the invention of the matrix by means of which type, cast perfect in, face at once, and mathematically accurate in dimensions, has continued to be manufactured to the present time. On the death of one of the partners, Andrew Drytzehen, and a consequent lawsuit, the company which Gutenberg had formed was broken up. He now removed to Mayence, and took up his abode with his uncle there. Inspirited by his typographical experiments at Strasburg, he conceived the bold idea of casting type, by his new process, for an edition of the whole Bible in folio, to be in every respect a fac-simile of the handsome manuscripts of the sacred volume to be seen, and, on occasion, purchased, at the monasteries. Much money was required for such an undertaking. The number of letters wanted for the 1282 folio pages of the proposed Bible was abont 12,000 exclusive of ornamental capitals, double letters and abbreviations. John Fust, a rich banker of Mayence, was struck with Gutenberg's project, and advanced considerable sums in order that the work might be duly prosecuted. Not, however, without the proper legal security against loss on his part; as appeared after a time; for, just as everything was almost ready for the final issue of the great volume, we find Fust suddenly foreclosing on the typefounder and printer for nonfuldilment of the conditions of his iond. The courts of Mayence sustained the claim; the whole of the plant and contents of Gutenberg's office was taken legal possession of by Fust in 1455.

We now form the acquaintance of Peter Schoeffer, of Gernsheim. This is a young man who had been in the employment of Gutenberg, and was found to possess pre-eminent skill in cutting the punches for the types, plain and ornamental, required for the forthcoming Bible. Peter Schoeffer, in fact, had an educated taste as well as ligh skill. Like so many others who became fascinated with the new art at the outset, he was a scholar ; only a few years previously he had been a student in the University of Paris. Fust perceived that he was a most eligible person to be put in charge of the printing establishment which had come into his possession. Suck confidence had the shrewd banker now acquired in the prospective profits of printing and publishing, and in the superior competency of Schoeffer, that he proposed to him at ouce a copartnership on a suitable basis, and more; Schocfer was to receive in marriage his daughter and sole heiress, Christina. Subsequent incidents need not be narrated. It
will be sufficient to say, that the great Bibie soon saw the light. A sense of what was due to Gutenberg seems to have led the publishors to abstain from claiming the merit of the performance. It made its appearance without date or name of printer in the colophon; but it has since been universally known as Gutenberg's Bible. In modern times it is sometimes spoken of as the Mazarin Bible, from the particular copy of it discovered in the library of Cardinal Mazarin, which attracted the especial attention of bibliographers. Subsequent editions of the same work, not quite equal in grandeur and finish to the first, have appended to them the names of Fust and Schoeffer, as the printers conjointly. John Schoeffer, the son of Peter, and his successor as the head of the printing establishment, which long continued to flourish, frankly declared in a Dedicatory Ppistle to the Emperor Maximilian of Germany, which he prefixed to an edition of Livy, that the whole merit of the fused metal types then come into use among printers everywhere was due to Gutenberg, and not to his father.

It is consolatory to find that Gutenberg was not crushed. In conjunction with one Nummeister, he established a press at Mayence, and issued works of importance. In 1465 the Archbishop of Mayence, Prince Adolphus of Nassau, made him one of the pensioned attaches of his household; and within the friendly walls of the archicpiscopal palace he breathed his last in 1468 . This princearchbishop was not desired by the people of Mayence, and he was obliged to oust, by force of arms, another archbishop already in possession, placed there by an anti-pope. In the process, the city was sacked, and all the industries of the place broken up, especially those connected with the printing-press. Adolphus may have wished to make some reparation for the ruin which he was the means of bringing on the city, by shewing kindness to the illustrious inventor. Gutenberg's remains were deposited in the Church of the Franciscans at Mayence. As to Fust, he died of the plague at Paris in 1406, at the age of 72 , whilst on one of his business expeditions to that city in connection with the sale of his books. The stories of his unfavourable reception in Paris, and of attempts to paln off his Bibles as manuscripts, are now known to be groundless. The place of his sepulture in Paris was the Church of St. Victor.

On parting company with the four personages whose names are sasociated with the very first beginnings of the art of printing, it will
be of interest to note the portraits or other representations of them, that exist.

A fine engraving by Houbraken of Lawrence Janssoen, the Sacristan, may be seen in the Origines Typographicee of Gerard Meerman, of Rotterdam. We behold a face slightly aged; long, emaciate, and smoothly shaven, with speaking thoughtful eyes, looking out at the spectator; a benevolent, intelligent, somewhat clerical countenance, surmounted by the soft four-cornered scholar's cap, usually seen on Erasmus. The authenticity of this portrait is not certain; and the heads of the statues erected to Janssoen at Haarlem have been moulded from some other likeness. In Meerman's work is given a fac-simile of a supposed early effort of Janssoen's with his movable wooden or lead types; a so-called Horarium, a little vade mecum for children, containing first the Alphabet, and then the Creed and Lord's Prayer, in Latin. The inscription placed by public authority in Janssoen's house at Haarlem is also given; Afenosice sacrum. Typo. graplia, Ars Artiem Omnium Conservatrix, hic primzum inventa circa annum meccexciix ( 1428 ). Attempts have been made to show that Lawrence Janssoen of Haarlem lived after the Gutenberg era, and was not ir any way comnected with the art of printing. Advantage is here probably taken, as in so many instances, of identity of nume in two different persons. The special pleading, having for its aim the complete annihilation of the Frarlem tradition, which is old, persistent and reasonable, rather overshoots the mark.

Of Gutenberg's form and presence, posterity derives an ideal image from the statue at Strashurg, where in one of the squares he is seen raised aloft; a thin spare figure in furred cap and ample furred gown; stepping forward with energy, the two hands holding out an open scroll, on which is the inscription Et la lumiere fut-" And there was light." The face is long, care-wom and aged; a patriarchal beard descends upon the breast. In a public place in Mayence, there is another statue of Gutenberg, not so striking perhaps as that at Strasburg, notwithstanding the celebrity of the artist of the former, namely, Thorwaldsen. In Lacroix's Historie de l'Imprimerie, is the head by Julius in 1698, which is the prototype of the likeness presented by the statues.

The faces of Schoeffer and Fust are familiar to us from a medal struck in their honour, showing their profles, conjointly with that of Gutenberg. A small copy of this group is to be seen in Johnson's Typographia, and in numerous other works.

The now Art of Printing spread rapidly throughout Europe. The learned class everywhere at once discerned its incalculable value. In numerous instances, scholars of the first order associated themselves with the Press, not simply as active patrons, but as editors and correctors, and even as manual participants in its work. And this continued to be the case for several generations after Gutenberg's day. In the monasteries many who had been trained as transcribers and illuminators learned how to set up type, and brought their skill and taste to bear on the printed, instead of the written, shect. Copies of works on every subject, produced by the new method, began to be in general demand. The same hunger of the mind for more abundant and more satisfying food than it had been long wont to receive, seemed to be everywhere felt. Even in the aged, the mental appetite and curiosity of youth were re awakened by a sight of the feast of fat things, to which the new art gave unlooked for access.

In the regions which we now style the Netherlands and Belgium, there were presses at work, before the close of the century which witnessed the birth of printing with metal types, at Utrecht, at Gouda, at Delft, at Louvain, at Deventer, at Alost, at Antwerp; and in Germany and German Switzerland at Cologne, at Bamberg, at Nuremberg, at Augsburg, at Spires, at Ulm, at Esslingen, at Frankfort, at Basle, and other important towns.

In France, at Paris, a press was set up in a room of the Sorbonne, in 1478, the services of three Germans, Ulrich Gering, Michael Friburger, and Martin Crantz, having been secured by Dr. Guillaume Fichet of the Sorbonne. Peter Keyser and John Stol, workmen under Gering, soon began printing on their own account, at the sign of the Green Rod, Rue St. Jacques. Some twenty years caulier (1458) the King, Charles VII., had endeavoured to introduce printing at Paris, but Nicholas Jenson, after acquiring the secret at Mayence, at the King's expense, went off with it to Venice, where he established a press for himself. In 1478, a printer with a French name, Jacques Lachet, brought out Sebastian Brant's Ship of Fools at Paris. In 1473, Guillaume Le Roy and Antoine Vincent were eugaged in printing at Lyons; also Klein and Treschel in 1488 at the same place; and at Caen, Robert Mace in 1491.

From Germany especially, the adepts in the new art scatiered themselves like so many apostles, far and wide, carrying with them
their practical skill, and sometimes even the implements of their business. In Rome, in Venice, in Milan, in Florence, in Naples; in Sicily, the earliest printers bear German names. At Rome, Conrad Sweynheim and Arnold Panaartz, in 1465 (settled first for a short time Subiaco, near by); and Ulric Hahn, who Latinized his name into its equivalent Gallus, a cock ; Silber in 1490, who did the same with lis name, making it Argenteus; and Andreas Fritag in 1492. At Venice, John of Spires, 1469, aud his brother Vendelin; John Emerie of Udenheim and Erhard Radolt. At Milan, Waltdorfer of Ratisbon, better known as Valdarfer, printer of the Decameron of Boccaccio, at copy of which, with his imprint, sold at the Roxburghe sale in London in 1812 for £2,260. At Florence, Jobn Petersen of Mayence and Nicbolas of Breslau in 1477. At Naples, Sixtus Riesinger of Strasburg in 1471, Berthold Rying and others. In Sicily (at Messina), Heinrich Alding in 1478. In 1479, a Bible in Spanish was issued at Valencia in Spain by a German named Lambert Palmaert. (The first press in America was sot up through the instrumentality of a German printer at Seville, John Cromberger. It is thought, however, that he never himself crossed the ocean, but committed the management of an establishment known by his name in the city of Mexico, in 1540, to an agent, a foreman of his, named Pablos.)

As in other departwents of human activity, the practice of the new art soon began to descend from father to son through successive generations. One or two remarkable instances of such descent in the families of eminent printers will now be given ; but I shall have to pass down occasionally into the sixteenth century.

And first, the Italian Aldi. These wero Aldo Manuccio of Venice and his descendants. Aldo Latinized his name into Aldus Manutius, to which he sometimes added Romanus, as being a native of the Roman States. He was an accomplished scholar. He invented and largely used the Italic letter, which is said to be a careful reproduction of the handwriting of Petrarch, whose Canzoni and sonnets he printed in this type. He was the first to bring out books in octavo and duodecimo, a form quickly recognized to be an improvement on the cumbersome folio. He and successors of the same name issued editions of all the great works of classic antiquity, and of all the best Italian authors of their own time. Aldo Manuccio married the daughter of Andrea Torresani, a distinguished typographer, the
successor of Nicolas Jenson at Venice. The well-known badge of the Aldine press, the Dolphin and Anchor, was alopted from a medal of Titus Vespasianus, and is intrepreted by Erasmus in his Alagia to denote the Latin Festina lente-"Bo steady; take your time ;" advice of use in literary work.

At Florence the Juntas or Giuntas were a typographical family flourishing for several generations. Bernard and Philip were eminent printers of this name. The device on the title pages of their books was the Lily or Fleur-de-lis.

At Basle, the Frobens, father and son, have a special interest as the friends of Frasmus, and the printers of his works. The house of John Froben was the home of Erasmus, when he took up his abode in Basle. John Froben's wife was tho daughter of the learned Wolfgang Lachner, who like Marcus Heiland, Wolfgang Museulus, Gcolampadius, and Erasmus himself, was a corrector and reviser in Froben's office. Froben's son-in-law, Nicholas Bischoff (Episcopius), was also a notable printer. The Utopia of our own Sir Thomas More was printed at Basle by John Froben in 1519, and the Encomium Morice in 1522, the work in the title of which Erasmus amusingly plays on More's name. Holbein drew the illustrations which form so essential a part of this book. Many other works printed by Froben were also enriched by the genius of Holbein, who designed and executed elaborate and most beautiful borders and other ornamental woodents for them. The ready graver of Holbein has not only made his own countenance familiar to us, and those of Erasmus and $\mathrm{Mn}_{n} e$ and other historic personages, but also that of Joln Froben, the great printer. Copies of Holbein's portrait of the latter may be seen well engraved in Knight's Life of Erasmus, and also in Woltmann's Holbein and his Time.

At Lyons, the printers Gryphii were famous for several generations: Sebastian, Antony, John, the last at Venice. The device on their title pages is a griffin and winged ball or globe.

At Paris, the illustrious typographic dynasty of the Stephani took its rise. In England the Stephani would be spoken of as the Stephenses. In their own vernacular they were Les Estiennes. The first of the name, eminent as a printer and scholar, was Henry, born at Paris, 1470. This Henry is styled Henry I. to distinguish hiur from Henry II., a successor a few years later. Francis, Charles, and Robert Stephens, aiso printers, were his sons. Robert was a
profoundly learned man. He publicly offered a reward to every one who would report to him an erratum in his publications. In 1531, he was appointed by Francis J. King's printer in the Greek and Hebrew languages. Henry II. was his eldest son and worthy successor. To an edition of Andrew Gellius issued by him he prefixes a Latin letter addressed to his own son Paul, in which he speals of the household of his father, Robert: "All in it were learned," he says; " even the domestics understood Latin, and in some sort could speak it." His mother, Paul's grandmother, could understand persons speaking Latin, as readily as if they spoke French; his sister conld speak the language, having learnt it not from grammars, but from use, just as French is learnt in France, Italian in Italy, and any other language in the country where it is spoken. Notable works nublished by Robert Stephens wero Bibles in Latin, Greek, Hebrew, ard French, and a Latin Thesaurus in three volumes folio. He dismissed from his edition of the classics all the contractions inherited from the MSS. A marvellous perfection marks all the productions of his press which were supervised wholly by himself. De Thou said the labours of Robert Stephens had done more for the honour and glory of France than all the high deeds of her warrions. Robert married the daughter of Josse Bade of Asch, near Brussels, another eminent printer usually spoken of by his Latin designation, Jodocus Badius Ascensius. Michel Vascosan and Jehan de Roigny, two other great French printers, also married daughters of Josse Bade. Henry II.'s Greek Thesaures in four volumes folio (1572), is like his father's Latin Thesaurus, a wonderful monument of human labour and perseverance. The story of the shameful way in which Jom Scapula, an employe of his, filched the substance of this Tiresaurus and constructed out of it the one-volume Lexicon (1579), formerly so familiar to English scholars, and so often reprinted, can only here be glanced at. The learned Isaac Casaubon married a daughter of Henry Stephens.

In the line of the Koburgers (properly Wolgomuths), at Nurem. berg, there was an Anthony I. and an Anthony II., with a John, a Melchior, and others.
At Antwerp, Christopher Plantin founded a long-lived printinshouse. His officina was one of the wonders of Europe and the chief lion of the city. More fortunate than some of the great printers, Plantin accumulated wealth, and lived in princely style, indulging his fine tastes, and bequeathing at bis death, in 1598, a magnificent
private library to his grandson Balthasar Moret, his heir and successor. Among tho products of Christopher Plantin's press was a polyglot bible in eight volumes folio, published under the auspices of Philip II. of Spain.

Finally, I name the Dutch Elzevir family, members of which, between 1583 and 1683, obtained great celebrity as printers. The first Elzevir (or Elsevier), Louis, began to print at Loyden in 1583. His brothers, connexions and descendants, were established as printers in various places in Holland, but chiefly at Amsterdam and Utrecht. In this dynasty Louis I., Louis II., Louis III., are to be distinguished; other Elzevir names aro Matthew, Egidius, Jodocus, Bonaventure, Daniel, Abraham, and Peter. The list of the Elzevir publications, embracing the whole range of literature ancient and contemporaneous, including works in Hebrew, Syriac and Arabic, fills seven octavo volumes. The Elzevir print is quickly to be recognized on account of a certain pleasant openness and clearness in the fashion of the type. The foolish story about the use of silver type seems to have arisen out of the sound of the name Elzevir or Elsevier. It is said that some of the Elzevirs employed female compositors. (The device of a printer in the officina Elzeviriana at Leyden in 1617 was an open music-book, with notes: his name was Godefridus Basson.)

Although in the course of the preceding narrative I was brought more than once into the neighbourhood of Bruges, I reserved my mention of that city until now, in order that in association with its name I might introduce our own William Caxton.

The city of Bruges, situated not many miles inland from the port of Ostend, and connected with that port by a canal, was, during the era in which we are interesting ourselves, the capital of the Dukes of Burgundy, who held there a splendid court. These dukes, in addition to their own proper domain, Upper Burgundy (Franche Comte), had by degrees become lords also of other vast territories. They were nominal vassals of the German Emperors and of the French Kings, but far surpassed both these potentates in resources and real power. Under the German Empire they held Burgundy proper, East Flanders, Lixembourg, Alsace, the duchies of Brabant and Limberg, the marquisate of Antwerp, the counties of Hainault, Holland, and Zcaland; to the French King they did homage for the counties of Ponthier, Amiens, Vermandois, Nevers, and Namur.

From 1419 to 1467 Philip the Good was the reigning duke, a munificent patron of art and promoter of commerce and industry.

To commemorate the perfection to which woollen manufactures had attained among his people, he instituted an order of knighthoodthat of the Golden Fleece. A great lover of learning and literature, he maintained within the walls of his palace a staff of skilled copyists and illuminators.

Willian Caxton was brought into intimato relations with this Philip the Good, being at Bruges after 1463 what we should now call British Consul-a public agent stationed there, charged with the care of English interests, chiefly commercial, in the dominions of the Duke of Burgundy; technically, "Governor of the English Nation." As a man of literary tastes, Caxton was held in especial esteem by the duke.

In 1467, Philip the Good died. His successor, Charles tho Bold, whose reign proved disastrous to himself and his dominions, was no professed patron of letters. It happened, nevertheless, that Caxton's relations with the Burgundian court became now even more intimate than they had been under Duke Philip. The new duke, soon after his accession, brought home as his bride the Princess Margaret, Edward the Fourth's sister, who forthwith evinced a great regard for her countryman Caxton, now a polished courtier as well as an experienced man of business. She attached him to the court pis one of the gentlemen of her household. It would seem that abous; this time Caxton resigned the post of "Govemor of the English" at Bruges, wearied perhaps with the anxieties of the post, growing more and more serious during a troubled period, and glad to withdraw into a position likely to afford him more leisure for the literary pursuits which had become so fascinating to him.

In 1470, reverses sustained by the Yorkist party in England obliged the King, Edward IV., to fly the country, accompanied by several of his adherents among the nobles; and the court at Bruges was the temporary resort of the fugitives. After the lapse of five or six months, Edward regained his throne. During this short sojourn of Edward abroad, Caxton became personally known to him and his friends through the Princess Margaret; and it is believed that this circumstance, together with public changes in progress at Bruges and elsewhere, ultimately led to the removal from Flanders to England, which took place a few years later. Caxton may have deemed the time opportune for the introduction of Printing into England. As a
commercial venture he must have seen the probability of its success. The capabilities of the novel invention for the rapid multiplication of books in request among the learned were selfevident, and he would feel sure of the royal countenance and the patronage of influential friends in the enterprise. But first it was expedient that he should make himsolf in some degreo practically acquainted with the art, and with the economy of a printing establishment. Many intelligent men had, to his knowledge, passed over with comparative ease from other avocations to that of the printer. Why should not he? While yet acting as British agent, he had been in the habit of utilizing his intervals of leisure by translating into English a French work, entitled Le Recueil des Histoires de Troyes, a paraphrase of the leading passages of the Iliad, written by Raoul le Fevre, formerly chaplain and secretary to Philip the Good, and probably a personal friend of the translator. After various interruptions he at length completed his English version of the work, encouraged in his undertaking by the Princess Margaret, "his redoubted ladye," who deigned. to suggest some improvements in the phraseology. It was begun at Bruges, he tells the reader, continued in Ghent, and finished in. Cologne. And farther he more specifically states: "It was finished in the time of the troublous world, and of the great divisions being and reigning as well in the realms of England and France, as in other places universally throughout the world, that is to wit: in the year of our Lord one thousand four hundred and seventy-one." Of the translation thus continued and ended in the midst of inauspicious. surroundings, Caxton proceeded to supply copies in manuscript to his. mistress the princess, and his other English-speaking friends. And it was while personally engaged in this rather wearisome employment. that his plans for the future took definite shape, and the resolution was formed to master for himself the new art of printing, and to issue by means of it an edition of the English version of the Recueil for the English market.

At this juncture we become acquainted with Colard Mansion, a Frenchman settled at Bruges. Colard Mansion was a clever engraver, caligrapher and illuminator, who had been in the pay of Duke Philip the Good, but who had betaken himself to the practice of the newx art, and had set up a press in a small room over the porch.of the church of St. Donatus at Bruges. Here also, he manufactured with.
skill the punches and matrices required in type founding, and put them successfully to their proper uses. It is conjectured that the fine founts of his office wero in the first instance cut and cast at the command and cost of the late munificent literary duke. Caxton puthimself under the tuition of Colard Mansion, handsomely recompensing him for his pains, learning the new art and mystery by setting up, with his own hands the type of the English Recueil, and partaking in the manual labour of its actual imprinting at Colard Mansion's press. "I have practived and learned," he says, "at my great charge and dispense, to ordain the said book in print, after the manner and form as you may here see." A further memorandum informs us that the printing was completed "en the last day of March, 1474." A monogram or cipher is seen in several of the books afterwards printed by Caxton in England, consisting of the Arabic numerals 7 and 4 reversed and interlaced, placed between the initials of his name. On either side, in some instances, certain marks are to be seen which have been thought to be respectively an $s$ and ac; but they are more prohably only fourishes in the ornamentation of the border. If, however, the $s$ and the $c$ be insisted on, their interpretation may more plausibly be sine calamo than Sancta Colonia. The whole device will then be a cryptic commemoration of the time when Caxton first embarked in the novel avocation of issuing books to his friends and the public, sine calamo, " without the aid of the pen." Thus the first old printers were wont to boast in their colopbons; and Caxton also himself thought good to remark at the close of the Recueil, that the work in the reader"s hands was "not written with pen and ink as ather books be:" an observation not altogether needless for the superficial observer, as the types nsed in the impression are the closest passible imitation of a local style of hand-writing.

The bulk of the printed edition of the English Recueil wonld no doubt be shipped off to an agent in London. Persuaded that he had struck a profitable vein, Caxton now complates another translation from the French, The Game ardl Playe of the Chesse, a work chiefly compiled by one Jehan de Vigny from the Latin work of J. de Cessolis, Liber de ludo Scachorum. This translation was committed to type as speedily as possible in the office of Colard Mansion, Caxton himself taking some part as before in the manual work. The book was dedicated to the King of England's brother, the Duke of

Clarence, and sent off at once to London. (About the same time Colard Mansion put forth an edition of the French work, on his own account, using-whether his own or ducal property-the identical founts employed in the English version.)

The work next taken up for translation, with a view to publication, seems to have been, The Mistory of Jason, another of Raoul le Fevre's productions. But this was not printed until after the removal to Westminster, as is said to be proved by the type. An edition of the original French was, in this case also, subsequently printed by Colard Mransion. (The idea that Caxton learned and practised printing at Cologne, arose from a casual expression in the Recueil, taken wrongly by Wynkyn de Worde to mean that the book was printed there, whereas Caxton simply says that the translation into English was finished there.) It is entitled The Book of the Whole Life of Jason. It was from the pen of the same Raoul le Fevre, who wrote the Recueil, and in some sort it celebrates the institution of the Order of the Golden Fleece by his first patron, Duke Philip. The translation had probably been some years in hand. With his usual policy, Caxton dedicates the book to the eldest son of the King of England, the Prince of Wales, "our to-coming sovereign lord," as he speaks, then only four years old. He does not presume, he says, to dedicate the volume to the king, inasmuch as he doubts not that he who had permitted himself to be enrolled in the said Order of the Golden Fleece, was already in possession of the work in French; but he presents it to the prince that he may "begin therein to learn to read English." In Halliwell's Letters of the Kings of England are preserved the instructions given by Edward IV. to Earl Rivers, as tutor of his son, the Prince of Wales, in 1475; and amongst them it is directed that there should be "read unto him such noble stories as behoveth to a prince to understand and know." The Book of Jason may have been one of the noble stories used in this way in the education of the prince. In the prefaces to several of his publications, Caxton indulges in some personal gossip. In the prologue to the Jason he falls, consciously or uncon. sciously, into the vein of Froissart, and describes some arras hangings which he remembers seeing in the hall of Hesdin Castle in Artois, executed and placed there by order of Philip the Good, on which were depicted the exploits of Jason when in quest of the Golden. Fleece.

No room is left for doubt as to the place of issue of the next volume of Caxton's which I have to notice, The Dictes and Sayings of Philosoplers. Ho had now for certain severed the ties which bound him to Flanders and the Rhineland, after a residence there of over thirty years; and had transferred himself to the neighbourhood of the great city where his youth had been spent. Undeterred by the approaches of age, he resolved on a new career, and brought with him from abroad a full equipment as printer, his fousts of type being cut and cast for him, as their appearance sufficientiy proves, by Colard Mansion at Bruges. With him also came a staff of experienced assistants. On the title page of the Dictes and Sayings we read: "Imprinted by me, William Caxton, at Westminster, in the year of our Lord meccolxxvii." Here at last we have the three desiderated elements of cartainty, and the tangible date is supplied, by means of which the present year, 1877, has been distinguished as the four hundredth anniversary of the introduction of printing into England. The author or translator of the volume now issued was no less a personage than the Queen's brother, Lord Antony Woodville, Earl Rivers, governor, as we have already seen, of the Prince of Wales. The astute printer contrives to keep in the sphere to which he had become habituated at Bruges. By cultivating the good graces of the higher powers he secures their patronage, and anticipates, doubtless, the solid advantages likely to accrue therefrom to his several ventures. In 1484 we have him dedicating a work to Richard III., who had then obtained possession of the throne-The Book of the Order of Chivalry. In the preceding year he had put forth the Legenda Aurea, or Golden Legend, a work probably known to bo acceptable to Richard. In the life of St. George of England in this book, he says that in the Chapel of St. George, at Windsor, the heart of St. George is preserved, a precious relic presented to Henry $\nabla$. by the Emperor Sigismund.

In 1485, Honry VII. assumed the crown, and Caxton takes an early opportunity of presenting to him in person a copy of the latest product of his press, the History of Charlemagne. In this year he prints Sir Thomas Malory's Merte d'Arthur, a compliment, we may be sure, to the Tudors, wha prided themselves on their descent from Arthur through the Welsh princes. In 1489, he translates and prints at Henry's express desire, the Feats of Arns and Chivalry, a work
by Vegetius, and in 1490, he dedicates a translation of the Eneid of Virgil to Henry's eldest son, Arthur, Prince of Wales. Henry VII. had derived from his mother, "the saintly Margaret of Lancaster," a love of books and learning. This royal lady, of whom I shall speak again, patronized Caxton, and at her command, as he himself informs us, conjointly with that of the Queen, he printed, also in 1490, the Fifteen Oes, a volume of prayers. He had previously printed two more translations by the hand of Lord Rivers, for whom he printed the Dictes and Sayings. More than sixty books, besides those named, from the press of Caxton, including the editio princeps of Chancer, are to be seen in the libraries of England or the Continent. For an account of these, recourse must be had to the usual writers on bibliographical subjects. The particular spot in Westminster where Caxton first set up his press is known from an extant advertisement of his. It reads as follows:-"If it please any man, spiritual or temporal, to buy any Pies [pica prayer-books] of two and three Commemorations of Salisbury Uso, imprinted after the form of this present letter, which be well and truly corrected, let him come to Westminster, into the Almonry, at the Red Pale, and he shall have them good-cheap." He appends $\mathfrak{a}$ brief request to the reader or binder in Latin, Supplico stet cedula (schedula), "Don't destroy this slip;" and then we have his cabalistic W. C., etc. The Pies were Calendar-tables (also called Picas), with rubrical directions, relating to church-services on saints' days; and the "Two or Three Commemorations" spoken of were an accumulation, so to speak, of two or three observances in one day, in which case certain combinations and omissions of proper collects were, for brevity's sake, permissible. The Red Pale was an escutckeon or shield bearing a conspicuous red stripe drawn vertically down its middle, set up over the door as a sign. The Almonry or Aumbry was a portion of the Abbey buildings now destroyed, forming part of the precinct towards the western entrance. It was the place where the doles of the monastery were wont to be distributed to the poor. Some disused apartments here, together with the dismantled chapel of St. Anne near by, were, it is supposed, leased by the Abbey authorities to Caxton. The Abbot of Westminster at the time was John Esteney. Caxton inscribes none of the productions of his press to him; but in his prologue to the Eneid he mentions a reference made by the Abbot to himself
on one occasion for assistance in deciphering an antiquated English document.*

In 1485, the presses were removed from the Monastery buildings to premises of Caxton's own in King Street, Westminster. In 1491, Caxton died. Ho was buried in the churchyard of St. Margaret's Church, close to the Abbey.

Caxton's carcer was a prosporous one, and probably accompanied with much personal happiness, actively and usefully employed as he

[^0]constantly was in mind and body. But his times, as we have seen, were full of perturbations. What with popular risings, war with France, contests for the throne between the houses of York and Lancaster; and, on the Continent, the French determination to expel the English, the struggles of the Kings of France against their nobles, the rivalries and feuds between Louis XI. and Charles the Bold, and the German Emperor, no one of any class was sure of dying peacefully in his bed. Caxton, in the case of many of those with whom he was brought into close relations, must have been impressed with the miseries and perils attendant on high position, and the mutability of human affairs generally. It is sad to recall the fates of several of the personages whose names are associated with the books which he printed. The Duke of Clarence, to whom the first edition of The Gume and Playe of the Cliesse was dedicated, was secretly put to death in the Tower, plunged, it was currently reported, into a butt of Malmesey wine. The Prince of Wales, addressed in the Book of Jason, was suffocated along with his young brother, also in the Tower; and the Earl of Rivers was ruthlessly beheaded at Pomfret. For Richard III., slain on the field of Bosworth, we feel less compassion. The other young Prince of Wales, Arthur, son of Henry VII., to whom the LEneid was presented, never ascended the throne.

Caxton is one of the few characters in the history of England who have moulded themselves into shape with some distinctness in the imagination of most Englishmen. He lives and moves, a real person m their minds, individually recognisable, like Alfred, like Chaucer, like Shakespeare himself. And this in spite of meagre data. A few autobiographical facts castally supplied to us in addresses to the reader, scattered about in certain of his publications, a few allusions in contemporary annals, an occasional mention in legal and other documents of the time accidentally prescrved, these are the only materials out of which to construct a biography of Caxton. And then we have the portrait which has come down to us as his, which, when once we have seen, we do not forget: a peaceful unmilitary face; large inquiring eyes looking out from under a slightly perplexed brow, a well-formed nose, plentiful hair and beard, grey and curling; lips making inquiry along with the eyes; the whole surmaunted by quaint, almost oriental head-gear, the incipient modern hat nevertheless, with nurow brim turned up all round, retaining, however, still a portion of the hood al la Fenry IV., with liripipe
dangling on one side. (For the instructive story of Caxton's childhood in the Weald of Kent, and his youth and early manhood in the city of London, I must refer you to the books which are in every one's hands.)

It is hardly necessary to add that the Caxtoniana of Lord Lytton are only remotely connected with our Caxton. They are a series of pleasant essays, whose subjects were suggested to the writer from time to time during the composition of The Caxtons and My Novel. The supposed author of these fine fictions, Pisistratus Caxton, narrates, we shall remember, the very serious differences between his father Austin and his uncle Roland, on the unsettled point as to whether they came from the branch of the ancient Caxtons whence the great printer sprung, or from that to which Sir William de Caxton belonged, slain in the battlo of Bosworth field, fighting for Richard III. Considering the wide range of the Imaginary Conversations of Walter Savage Landor, it is singular that among the interlocutors none of the prototypographers are to be met with. With his great dramatic insight, and perfect mastery of precise, accurate English, Landor, had he chosen; might have constructed much admirable discourse between Gutenberg and Adolphus of Nassau, for example, or between Colard Mansion and the Seigneur de la Gruthuyse, or between Caxton and Earl Rivers, or Caxton anil Abbot Estency. Charles Knight, at the close of his Memoir of Caxton, presents us with a scene, not badly conceived, in which Wynkyn de Worde, Richard Pynson, William Machlinia and Leltou are the dramatis personre.

Caxton's foreman, Wynkyn de Worde, succeeded to the establishment in King Street, Westminster, and carried on printing operations there until 1497, when he removed to Fleet Street, at the sign of the Golden Sun. He was a native of Holland, and had accompanied Caxton from Bruges. Ho improved on his master's style and adopted the Roman type. The issues of his press were numerous and multifarious, including even the Koran " of the false necromancer Mahomet," as the phrase is on the title page. The first edition of Sir John Maundeville's Travels was also issued by him. Four hundred and ten works or editions are enumerated as coming from Wynkyn de Worde's press. He put forth repeated editions of the Scala Perfectionis, or Ladder of Perfection, a religious book printed at "ise command of Margaret Beaufort of Lancaster, the King's
mother," who also, as we have seen, was a patroness of Caxton; and on the occasion of the death of this princess the funeral sermon pronounced over her remains by Fisher, Bishop of Rochester, was printed at the press of Wynkyn de Worde. This interesting printer died in 1534 , and was buried in St. Bride's, Fleet Street.

Another assistant of Caxton's, Richard Pynson, a Norman by birth, but naturalized in England by letters patent, had established himself independently as a printer, first, just outside Temple Bar, and secondly, in Fleet Street, at the sign of the George. Lady Margaret, the king's mother, patronized him likewise, as also did her son Henry VII. In his colophons Pynsou styles himself "Printer unto the King's noble grace." After the death of Henry, his son and successor Henry VIII. continued to him the same title, and Pynson had the honour of printing the king's treatises against Luther which acquired for him the title of Defender of the Faith. Among the 215 works or editions issued by Pynson were the Chronicles of Froissart, and the editio princeps of the Promptunrium Parvulorum, a famous Latin-English dictionary. Pynson died in 1529. Two other printers said to have been brought over from the Continent by Caxton afterwards became distinguished on their own account, Lettou and John Machlinia.

It is not my intention to note with minuteness the English typographers who came after Caxton and his co-labourers. Between 1477 and 1500 there were one hundred and ninety master printers in London. Notary and Facques are early names on the list. There, as elsewhere, presses pass from father to son. Thus in the period mentioned, there are two Walleys, three Wolfes, three Wyers, three Powells, three Jugges, including the widow of one, three Halls, three Herfords, two Hills, two Coplands, two Days, two Alders, two Barkers, two Jacksons, two Whites. Day and Grafton, Wolfe and Wight, are especially eminent. The works printed are for the most part of the same nature as those issued by Caxton and his compeerschurch books, school books, law books, medical books, classics, books of sports, fiction (poetry and prose); and it is a significant fact that Bibles are now added. The printers' places of business continue to be known by signs, the Mermaid, the St. John the Evangelist, the Holy Trinity, Our Lady of Pity, Maiden's Head, Brazen Serpent, the Well and Two Buckets, Lucretia Romana, White Horse, White Bear. At Oxford Theodore Rood of Cologne was printing in 1480, with a
partner named Hunt, who probably was the person who put forth a volume without a printer's name two years previously. The date of this book reads "mecclxvi;" out of which an " $x$ " has dropped, a mishap which has befallen printed dates in other instances. In 1671 books printed under the auspices of the University began to be dated " E Theatro Sheldoniano," a practice which continued more or less until the establishment of the Clarendon. In 1480, also, books were being printed at St. Albans by the "Schoolmaster" of the Monastery there. At Cambridge, John Siberch, a German, was printing in 1521, Erasmus himself being a resident in the University at the same time. It was Joln Legate, a distinguished printer here in 1589, who first made use of the device still to be seen in the Cambridge books-a figure of Alma Mrater Cantabrigia standing behind an altar with streaming breasts, and holding in one hand a sun, in the other a chalice, with an encircling legend of Hic lucem et pocula sacra. At York, a Hollandor, Hugo Goes, was printing in 1506; at Canterbury, John Mytchell was similarly engaged in 1050. A 1 ress was established in Edinburgh in 1507, under the auspices of Janes IV. In Dublin, printing was introduced in 1551.

After the manner then just narrated sprang up the pre-eminently human art of type-printing; after the manner just narrated did it begin to spread. The rude wooden letters of the Haarlem blockprinter, slowly carved with the hand, were quickly transformed into the magnificent metal characters of Gutenburg and Schoeffer, cut and cast with a finish, and impressed on paper and vellum with an effect which have never been surpassed. The adaptation of the invention to the intellectual wants of men was instantly, universally recognized. The appliances indeed by means of which these nimble ministers of man's wit are made to do their office, have undergone mighty changes. The primitive wooden wine-press of the Rhineland, with its screw and movable bar, gave the first idea of the apparaitis required; nay, perhaps, in some cases was extemporized into the apparatus required. And grievous for a time was the wear even on the hardest type by the brute power of such a machine. Bleaw, of Amsterdam, an ingenious and scientific man, in 1601, civilized some of the first contrivances; but it was not until the beginining of the 19th century that the Stanhope press was constructed, made wholly of iron, and doing its work to perfection by means of delicate adjustments of pressure through spiral springs and the nicely calculated action of
a bent lever handle. Then followed the Ruthven, an Edinburgh machine, and the Columbian, a Philadelphia production, both based on the Stanhope principle, but accomplishing their tasks with greater economy of labour and greater speed.

But the demands of the age were insatiable. The successful application of steam power to machinery in other directions, quickly of course suggested itself as an auxiliary in printing, especially in the printing of newspapers, the cisculation of which had now become exceedingly great. In 1814, the cylinder press of the London Times was the marvel of the day. Then, each in succession claiming and proved in practice to be really an advance in excellence, came the American Rotary, the Walter Web-feeder, the Prestonian Automa-ton-the last throwing off by a series of actions, looking like the result of self-consciousness and reason, huge sheets printed on both sides, disengaged from each other, and folded in incalculable numbers and with lightning rapidity. Caxton boasted in the Colophon of his Recueil, that the whole book was begun in one day and finished in one day: that is, that the first folio of the whole edition was worked off in one day, and the last folio in the same space of time. This for an edition of five hundred, and probably Caxton's would not be larger, would, when the sheet was printed on both sides, involve one thousand inkings, one thousand pulls of the press handle, one thousand placings and replacings, with a variety of other careful manipulations. Under the circumstances the old printer might legitimately claim some credit for the capabilities of his art. Perhaps not much more could have been accomplished with the machines at which Franklin worked in London and Philadelphia. The Stanhope furnished forth completed sheets of letter-press at the rate of 250 per hour. The first Times cylinder printed perfect copies of that great daily publication at the rate of 1,100 per hour, and now we hear of 10,000 perfected sheets per hour as the rate of production attained by the Automaton Webfeeder.

What the intellectual exigencies of future generations may be, who can say? Education is spreading every day, and in every country. The love of knowledge, of science, of literature, is penetrating all communities deeper and deeper, and will, in the onwa:d march of civilization, be universal. And accompanying this great movement, another phenomenon is apparent-a tendency to a unity of alphabet,
a unity of typograply, a unity of language. The demand for reading. matter-perhaps English reading-matter-great as it is, must in the future be vastly greater. But we must believe that man in the future, as in the past, will continue to develop contrivances answerable to his needs. Photography and electricity may be enlisted yet further than they already have been in the service of letters; and appliances for satisfying the mental hunger of the human race, having photography and electricity as co-efficients, may possibly be thought of, which to us now would seem to involve the incredible, but which, to our descendants, will be things of course, and classed by them among the ordinary conveniences of every-day life.


## CATALOGUE OF BOOKS, AND OTHER OBJECTS,

Illustrative of the art of Typoorafily, Eximitited at que roons of the Canadian
Institute, Toronto, June 13-16, 1877, on the occagion of the Four II undredth Anmiversart of the Introduction of Printino into Enoland by Willias Caxton.*

## 1. Works on tee Genrral Subject: Typooraphy.

Joseph Ames. Typographical Antiquities. London. W. Faden, for J. Robinson, 1\%49. 4to. It has a good portratt of Caxton.
Gerard Meerman. Ongines Trpographican The Hagua 1705. sto. It has a faue portrait of Lawrence Coster.
IIenri Gockinga. Del'Invention de l'Imprimerie. Paris. F. Schoell. 1809. 12 mc .
Paul La Croir Histoire de l'Imprimerie. Paris. Plon freres. 1852. Rogal 8ro. Plates.
Noel Humphreys. History of Printing. Lobdon. Bemard Quaritch. 186s. Follo. Nnmerous reproductions and fac similes.

Guliclmus Nicul. De Literis Inventis: Libri Sex. London: for H. Clement. 1714. 12mo. The frontispiece shews the Earl of Pembroko in his Library.

John Johnson. - Typographia. Iondon. John Johnson. 2 vols. Large paper copy. it shews in a medallion the heads of Gutenberg, Schoffer and Fust.
J. Ph. Berjeau. Le Bibliophle Ilustré. Londres. W. Jeff. 1862. Octavo. Cuts.

Lo Bibliophule Françals. Paris. Jules Bonaventure. 1868. 8ro.
Bichard Heber. Catalogue of the Bib.iotheca Heberiana. London. W. Nicol. 12 vols. $8 v o$. A. A. Renouard. Blbliothêque d'un Amsteur. Paris. Crapelet. 1819. 2 vols. 8vo.

Catulogue of the Kloss Library. London. Sotheby. 1835. 8vo.

## 2. Illustrations of tee Pre-Typograpifio Period: Alpenbets, Inscriptions, Manuscritis, etc.

The Four Gospels. A Greek MS. on vellum. Twelfh Centary. Bmall 4to. From the Levant. With miniatures and Llluminations at the veginning of each Gospel; and in the original cedar or cypress-woud covers.

The Four Gospels. A Latin Manuscript on vellum. Foarteenth Century. 8vo. Western monastic work. Tho capitals rubricated. The original cover replaced by olive-morocco antique binding.

The Book of Esther. A Hebrew manuscript on five shects of prepared skin. Length of roll or megillah, ten feet; height, twelve inches. Líned at one end with green silk.
Jac de Effordia. Tractatus. Cologne. John Vcldener. 1470. Xylographic or block-book. Illuminated letters.
The Biblia Pauperum Predicatorum. Xylographic or block-book. J. Russell Smith's fac simile reproduction. Fority plates. 4to.

A Chinese xylographic block or wooden tablet, with a page of matter carved thereon, seady for printing from.
A Chinese volume, "The Book of Heroes." The paper printed on one side unly, and folded with the unprinted sides back to back. Jany illustrations; and examples of the transition from formal to cursive writing on every page. Chinese binding.

Chinese Bible. Qutziaff. Printed and bound in the Chinese stylo.
Japznese Alphabets and Object Lessons. Boldly drawn on shects for school purposes.
Arabic Manuscript. Preces et Capitala Alcorani. On Bombycino paper. Miniature tto.

[^1]Early French Mack Letter Manuscript. Jardin Delectabile (Devotional),
A Persian volume: "The Poems of tIaiz" Islatal from blocks. Ornamental capitals, gnfats, otc. Persian binding.
Specimen of Persian caligraphy.
3is. Riccius. De Regibus Hispaniarum et Stilife. Svo.
Mg. Iegal Documents relating to Lands temp. Elward IIL., Henry Vil., Henry VIIf., Edward Vi., Mary, Elizabeth, Charles I. With the Seals appended.
J. B. Dillalde: Description of China. The Haguo. HI. Scheurier. 1736. 4to. \& vols. Chinese chaacters.
Dr. John Lamb. Hebrew Hicroglyphics. Cambridge Pitt Press. 1835. 8vo.
C. Forster. Harmony of Primacval Alphabets. London. 8vo.

James EIarris. IEmes Unlvarsal Grammar. London. J. Nourso. 2765. Svo. Fine frontisplecc.

Comte de Gebelin. Histoire Naturelle de la Parole. Paris. Boudit. 1770. 8vo. Plates.
E.J. Bastius. Palæographia. London. R. Watta. 1835. Evo.

London Palxographlcal Society's publications. The Seven parts. One hundred folio plates of exact fac-similes by the autotspe process of authentic and very rare 3ISS on payyrus and vellum, from $B$ C. 162 down to the cra of Wycliffe and Chaucer; consisting of portions of tho Groek and Latin classics, gospels, psalters, offec-books, charters, works in carly English, etc., preserved in tho libraries of Oreat Britaln, Ireland, Erunce, Italy and Spain.

Sir TV. Betham. Etrascan Inscriptions. Dublin: for P. i). Hardy. 1842. 8vo. 2 zols.
Gio. Battista Vermiglioni. Etruscan Inscrlptions at Perugia. Perugia. V. Bartell. 1833. 4to. Chev. Bunsen's Copy.

Mazochius. Inscriptions of Horculaneum. Naples. B. Gessar. 1754. Polio.
Odericus. Ancient Latin Inseriptions, Ifedals, \&c. Rome. F. B. Komarek. 1765. tio. From Labrary of Trinity College, Cambridge.

Ciampini. Vetera Monimenta. Ancient Inscriptions. Rome. Bernabo. 1699. 4to.
Odescalum Huseum. Rome. J. G. Salomoni. 175L. follo. 2 vols.
Marmora Oxoniensia. The Arundel and other Inecriptions. London. R.Boyer. 1732. folio.
S. Nerses. Preces (in Thirty-threu Langunges). Venice. 1802. 12 mo.

Armeniau. Sleditations. Imitation Armenlan Ms. Rome. $12 n o$.
Humboldt, Ancient Inhabitants of Americi Mexican Inscriptiong. London. J. G. Barmard. 1814. 2 vols. 8 vo .

## 3. Books Pranjed before A.D. 1500.

Johannes de Gersona. Tractains. Nuremlerg. John Gensenschmidt. 1472-3. tolio. Muminated capitals and initiais.

Bonaventura. Speculum B. Virginis. Augsburg. Antonius Sorg. 1477. folio.
Autonius Rampegolis. Aurcum Repertorium (without place, dato or printer's name): before 1475. ito.

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Richard Pacfroed of Daventer. Speculum Exemphomm. Strasburg. Otice of Menteht. 1430. 4to.

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S. Vincent. Tractatus. Nuremberg. Conrad Zeninger. 1481. tio. Muninated ivitials and capitals.

Tortellius. De Orthographia. Venice. Tacuinus, alias J. do Tndino. 1495. folio.
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Ovid. The Festl. Mantua, Joh. Tacainus de Tridino. 1508. follo. Wood-cuts.
Ecclesiastical Iistorians, The early, in English. London. Vautrollier. 13s5. follo. 13lack-letter.

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Xenophon Trans, into Italian by Ant. Gandint. Venice. Pietro Dusinelli. 1588. Ito. Italle type. Fine title.

Lipsius. On Engines of War, Antwerp. Christ. Plantin's widow and Johu Sforetus. 1596. 4to. Plantin' device on titio and after colophon.

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Jewel. Apology. London J. Beale. 1559. 24 mo .

## 5. Boors Printid A.D. 1600 -A.D. 1700 ..

Irenreus. Contra Eiareses. Cologne. Birchmand. 1025. folio.
Ramnusio. Navigatione et Viaggi. Venice. Gianta. 1054. follo. 3 vols. Mapa off Nova Francia.

Wilibaldomarr. Life of St. Augustine. Ingoldstad: Wilh. Eder, 1631, follo.
Latinus Latíníus. Bibliotheca Sacra et Profana, Rome. Angelo Bernabo. 1677. fotio.
Octavius Boldonius. Theatrum, etc. Bfilan. Pacificus Pontins. 1636. follo.
Augustine. City of God: in English. London Gco. Eld. 1610. follo.
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Camden. Britannia, London G. Bishop. J. Norton, 1607. folio. Japs. Latin Text.
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Saint Macarius. Opera. Leipsic. C. Fleisher. 1699. 12mo. Portrait of Macarias. Lowis Bayls. Practice of Pietfo. London. J. IFodgett. 1810. 12me. Dedicated t." Princo Charles (Charles I.)
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Marcus Aureling. Gataker's Commentary. London: for Edi 3Illington. 1697. Ato. portrait.
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Thomas Stafford. Pacata Hibernia. London. Aug. Mathewes. 1633. folio. Misps, plans and portralts.
Saluste du Bartis. Jos. Sglvester's translation. London. 1611. 8vo. Dedicated in James I.

Guicclardini. History of Italy. Venice. Nicolo Polo and Fr. Rampazetto. 1660. 4to.
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14. Medals, Portratis, Photocrapis, Viens, Etc.

Mcdal struck at Mayence in 1837, in honour of Gutenberg. On the obverse, Thorwaldsen's stitue. On the reverse, Gutenbers holding up a separato metal type to one bearing an engraved wooden block. artist: H. Lorenz Rome.

Medal in honour of Pierro Didot Yains, Typographe Frangais. On the obverse, the head of lhatot. On the reverse, a Press-"Presse Jules Didot," surrounded by tho legend "Horace. Virgile, Racine, La Fontaine, ed. in follo." Veyrat fecit. 1823.

Tho Shak speare Tercentenary Medal.
Mcdals of Milton, La Fontaine, Boerhasve, Cervantes, Fenelon, Addison, Congreve, Charles V., Goujon, Dante, Oxensticraa, De Cormeria, Ducange, George Canning, Peter Paul Rubens, dgassiz.

Wittemberg medal. Luther on metal in a frame. Plaque of Calvin.

## Portraits, etc.

W. Caxton, in Ames. Laurence Coster, in Meerman.

Gutenberg, from the Statuo at Strashurg.
Froben, in Enight's Life of Erasmus.
Paul Manutius. Aldus Manutius. Robert Stephens.
Brunet, in Bibliophilo Erançals.
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Andrew Marvell. Henry Spelman. Leland. Gco. Ifcarn. Jno. Strypo. W. Somner. Justel. Chapman (Homer) Gerand (Herbai). Lydgate. Gower. Lilly. Fosbroke. Bewick. Duke if Rosburghe, 1804. J. Evelgn. Chatles Knight. Coleridge. J. O. Halliwell.
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15. Specimens of the Early Toronto (York) Press. Upper Canada Gazctte, or American Oracle. 1799. William Waters and Titus G. Sinons printers.
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Walton's York Commercial Directory and Street Onide. Thomas Dalton, printer. 1834. patrick Swift's Alinanac. 1884.
Warren's Selection of Church Music. Robert Stanton, printer. 1835
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Commercial Ferald. Feb. 21, 1838. Hackstaff and Rogers, printers.
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Correspondent and Advocate. June S, 1836. W. L. Mackeuzio, printer.
The Olserver. Jan., 1828. John Cares, printer.
The Couricr. Feb. 29, 1832. Gco. Gurnett, printer.
The Sapper and Miser. Oct. 25, 1832 G. W. Thompson, printer.
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From the samo press. Tho Laws of Lower Canada. On the title-page is a copy of the seal of tho Inst Province of Quebec. Tho central device is the King rointing to a map of Canada; below in the exergue, "Extenta gaudert agnoscere meta." The whole surrounded by the legend, "Sigillum Provincie Nostro Quebecensis in Amcrica."
Tho Times: Cours du Tems. 11 Mraj, 1705. Quebec, at la Nouvelle Imprimerie.
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Copy of Dilworth's English Spelling Book, with the inscription, "Ce livre appartien i Louls Chiniquy. Quebec, 1803."
Smith's Eistory of Canada. 2 vols. 8vo. John Neilson. 1815.
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Report. Ioyal and Patriotic Society of Upper Canada. Wn. Gray, 1817.
Letters of Veritas. Montreal. W. Gray. 1815. 8vo.
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Canadian Courant. Mrontreal, Weduesday, Dec. 29, 1819. Vol. xil. No. 35. Nahum Mowez printer.
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Kidd's Iuron Chief, etc. Montreal. Omce of Merald and New Gazette. 1830.12 mo .

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The Imposing Stone of the First Printing Press of Upper Canada Presented by Mr. R.C Gwathin. The following inscription has been cut upon it. "Imposing Stone of the first Printing Press in Upper Canada, at Newiark (Niagara), 1793. Testo W. Kerby, Nıagarn, 1873."

No. 1, Voli., of the Upper Canada Gazette, or American Oracle. Apml 13, 1793. Louis Roy, printer: at Newark or Niagara.
Vol. it: of the same periodical is printed by $G$. Tiffany.
In Vol. iii. the name of Titus $G$. Simons appears as that of the printer: In the autumn of 1798 the paper is issued at York: "W. Waters and T. G. Simons, printers."
"A Proclamation to such as are desirons to Settle ou the Lands of the Crown in the Province of Upper Canada," is printed by G. Thfany at Newark, in 1795. This document is a reprint of one dated at Quebec, Fch. 7, 1792

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Nagara Spectator, No. 12. 1818. Amos 3rcKenney, printer.
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Cotton Mather. Sermon on a Man about to be Executed for 3lurder. Boston. Richaml Pierie. 1687. 12 mo .
Samuel Willard. Mourner's Cordial. Boston. B. Harris and J. allen. 1091. 12mo.
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Edinburgh Advertiser: No. 1174. Year 1774. (Contains Letter of Am. Congress to the People of England.)
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The Gazetto: Niv. 432. Sep. ©, 185s. London. fac-simite.
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meteorological register．
MONTHLY METKOHGLOQICAL REGISTEK，$\triangle T$ THE MAGNETICAL OBSERVATORY，TORONTO，ONTARIO－JUNE， 1877.

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## METEOROLOGICAL RFGISTER.


COMPARATIVE TABLE FOR JUNE.
 reive includc Sunday obecrations.

 $\qquad$
. 1008120 p.m. on 9 IL $) \quad 0.701$.

 Maximum \{ Solar ..................................... $134^{\circ} 0$ on Ist and 25 th $\}$ Sonthly Mange $=$ His 6th, 7 tir, and 11th. Possible to sce Aurora on $1 \%$ nights; imposibio on 13 nighte. Raining on 14 days; deptb, 0.900 inches; duration of fall, 25 Mean of cloudlness, 0.61 .
Rosultant direction, $\mathrm{S} .38^{\circ} \mathrm{W}$; resultant volocity, 0.37 miles. Bean velocity, 7.11 miles per hour.
Alaximum volocity, 24.0 miles from 1 p m. to 2 p.m. of 4th.
Most windy day, 22 nd ; mean velocity, 14.00 miles per hour. Least windy day, 2nd; mean velocity, 2.70 milles per liour. Most mindy hour, 2 p.m.; mean volocity, 11.61 miles per hour. Least windy hour, 4 a.m.; moan velocity, 3.56 miles per hour. Fog on 2ad, 8th, 9th, 21st and 26th.
Thunder on 2nd, 3rd, 11th, 20th, 2lst, 28th, 29th and 30th. Lightulog on 2ad, 11 th, $13 \mathrm{th}, 14 \mathrm{th}, 20$ th, 21st, 29 th and 30 th. Solar halos on Sth and 6th.
Dew on 13 days. Fireflea on let.

METEOROLOGICAL REGISTER.
Latitude-i $3^{\circ} 399^{\prime} \triangleq$ North. Longitude- 5 h .17 m . 33 s . Wett. Eletation absve Lake Onlario, 108 feet.

| Barom. at temp. of $32^{\circ}$. |  |  |  | Tomp. of the Air. |  |  | $\left\lvert\, \begin{gathered} \text { Excess } \\ \text { of } \\ \text { Mean } \\ \text { Roore } \\ \text { Rormal } \end{gathered}\right.$ | $\frac{\text { Tension of Vapour. }}{81^{2} 1^{10} 1}$ |  |  |  | Humdity of Air. |  |  |  | Direction of Wind. |  |  |  | Velocity of tho Wind. |  |  |  |  | 鹌量 |  |
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|  |  |  | B |  |  |  |  |  |  |  |  | ${ }^{3}$ | P. | P.8. | N. | 6 |  | \|108. s. | $\begin{aligned} & \text { Res'1. } \\ & \tan . \end{aligned}$ | 4.x. | $\left\|\begin{array}{l} \text { P. } 2.2 . \end{array}\right\|$ | $\left.\right\|_{\text {p.x. }} ^{10}$ | $\begin{aligned} & \text { Reser } \\ & \text { tank } \end{aligned}$ |  |  |  |
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| 29.250 | 20.270 | 80 | 29.31 | 71.0 | ${ }^{7} 9.0$ | 80.071 .68 |  |  |  |  |  |  |  |  |  | s |  | w | ${ }^{8} 7^{\circ} \mathrm{T}$ | 1.0 |  |  |  |  |  | $\cdots$ |
| . 649 | . 678 | . 638 | . 65 |  | 71.2 | 67.63 |  |  |  |  | . 861 | 7 | 40 | 79 | 62 | \# | 8 m | 8 W | ${ }^{8881}$ | 4.0 | 3.0 | 1.0 |  | 59 | . 160 |  |
| . 470 | . 3818 | . 654 | . 4 | 48 | 74.6 | ca |  | d |  |  |  |  | 73 | 8 |  | \% |  |  | N $\begin{gathered}\text { N } \\ 8\end{gathered}$ | 7.2 | 11.0 | 6. ${ }^{6}$ | 1.2 |  |  | $\cdots$ |
| . 691 | . 719 | . 687 | . 68 | 88.9 | 77.0 | 62 | 1.6 | . | - 422 | - | . 148 |  | 4 |  |  |  |  | $8{ }^{8}$ | ${ }^{2} 25$ |  | 1.0 | 7.8 |  |  |  |  |
| . | . 610 | . 689 | . 66 | 60.4 | 70.3 | 66.510 |  | + 4 | . 52 | . 4 | . 480 | 86 | 62 | ${ }^{74}$ | 6 | 3 H |  | * | N ${ }^{1}$ | 3.4 | 6. 6 | 4.8 |  |  |  | $\cdots$ |
| . 631 | . 698 | . 690 | ${ }^{6} 67$ | 67 | 74.6 | ${ }_{66.8}^{63} 8$ | 1.1.23 | . 298 | 284 | . 390 |  | ${ }_{6} 7$ | 39 | 59 | 51 | NW |  | 8 | ${ }_{8} 18 \mathrm{~m}$ | 1.2 | 10.6 | 5.0 | 4.75 | 6.58 | $\ldots$ | $\cdots$ |
| . 7 | . 410 | . 3 | . 4.6 | 63.5 | 81.6 | 69 |  | - |  |  |  |  |  |  |  |  | 87 | 8 | 833 F | 6.0 | 10.5 | 8.2 | 7.4 | 8.70 | . 050 |  |
| . | . 267 | . 282 | . 30 | 67. | 80.4 | 7 |  | C07 | . 615 | . 468 | . 550 | 90 | co |  | cs | \% | 8 w | ${ }^{8}$ | ${ }^{8} 71$ | 4.6 | 12.0 | 8.0 | 4.7 | 7.41 | . 110 | ... |
| 3 | . 40 | . 615 | . 46 | 61.4 | 73.0 | 63.6 |  |  |  | 299 | 318 | 69 | 49 | 51 | 54 | ${ }^{N}{ }^{\text {w }}$ | 8 | ${ }^{*}$ |  | 10.0 | ${ }^{8.0}$ | $\xrightarrow{7.0}$ |  |  | $\cdots$ | $\cdots$ |
| . 6 | . 697 | . 626 | . 60 |  | 72.3 | 38.2 |  |  |  | - 409 |  |  | 45 |  |  | ${ }^{1}$ | 8 |  | \% | 12.0 | ${ }_{15}^{12.7}$ | 2.0 | ${ }_{8}^{8 .}$ |  |  | $\ldots$ |
| 607 | . 011 | . 668 | - 70 | 58.3 | ${ }_{70}{ }^{8}$ | 5 | , | 317 | 222 | . 36 |  | ${ }_{67}$ | 4 | 77 | 3 | NE | 82 | NE |  | 4.8 | . 0 | 2.2 | ${ }^{3}$ |  |  |  |
|  | .004 | . 694 | . 61 | 58.9 | 73.7 | 64.76 | - 1.98 | 373 | 430 | . 430 | . 419 | 76 | 62 | 70 | 66 | Nr | 8 | NE | 9 85 | 3.6 | 10.0 | 4.5 | 4. | 5.31 | ... | … |
|  | . 620 | . 620 | . 6367 | 59.0 | 84.0 | 72.072 |  |  |  |  |  |  |  |  |  | 0 | 8 | ${ }^{4} \mathrm{~F}$ | ${ }^{8} 6$ | 0.0 | , | 2.0 | 4.6 | - |  | . |
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|  | . 3 | . 22 |  | 68.6 | 75.6 |  |  | 30 | . 647 |  |  | 83 | 62 | 88 | 80 | 3 F | ${ }_{8}^{8}$ | 8 | ${ }^{8} 6 \mathrm{~F}$ | 4.5 | 8.4 | 3.0 | 4. | 18 |  |  |
|  | . 23 | . 809 | . 2312 | ©5. | 74.4 | 61.4 |  |  |  |  |  | 93 | 46 | d | 75 | 8 W |  | ${ }^{510}$ | 85 | . 8 | . | 3.0 | ${ }^{6}$ |  | . 260 | $\cdots$ |
| . 352 | . 435 | . 225 | . 4450 | 60.4 |  | 68.9 |  | 378 | 397 | . 399 | . 438 | 86 | 63 | 85 |  | $8{ }^{8}$ | 87 |  |  | 4.2 | 10.7 | 3.8 |  |  | , | $\cdots$ |
|  | . 874 | . 8171 | . 818 | 65.5 61.0 |  | ${ }_{69} 61.46$ |  |  |  | 462 |  |  |  |  |  |  |  | ${ }^{\mathrm{N} x}$ | 84 8 8 | 2.2 | 1 | 8.1 | 1.4 | 4. 28 | . 165 |  |
|  | . 869 | . 878 | -87 | 62.3 | 75.5 | 70.8 80 |  | . 17 | . 614 | . 44 | . 493 | 02 |  | 68 | 67 | $\cdots$ | 8 | $\stackrel{N}{N}$ |  | 2.4 | 3.8 | 5.2 | 0.44 |  |  | ... |
| . 881 | - 7 | . 6 | . 8 | 69 | 78 | ${ }_{74.2}{ }^{17}$ | + 3.10 | . 440 | 45 | . 53 | . 486 | 71 | 43 | 74 | ${ }_{64}^{62}$ | ${ }_{N}^{\text {N }}$ | ${ }_{8}^{8}$ | M | 838 <br> 8588 <br> 8 | 8.6 | ${ }_{9.0}^{8.0}$ | 2.2 | 3.2 |  |  | $\cdots$ |
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| . 689 | . 64 | . 488 | ${ }^{46}$ | 69. | 82.7 | 71.9 |  | - | , | 7 | 133 | $\stackrel{3}{-}$ |  |  |  | ${ }_{8}^{817}$ |  |  | N14 | 3.2 | . 4 | 8.0 |  | 4.20 | . 2 | $\ldots$ |
|  |  | . 480 |  | 71.0 |  | 7. | . | . 56 | 637 | . 479 | . 628 | 74 | 67 |  |  |  | N | ${ }^{\text {r }}$ | ¢131 | 3.0 | 7.0 | 10.6 | 6.3 | . 1 |  |  |
| . 746 | . 7 | . 754 | . 7678 |  |  | 66.87 |  |  | 62 |  | . 460 | 60 | 69 | 69 | 61 | Nz | 35 | ${ }^{*}$ | N 77 | 4.8 | 10 | 4.4 | 5.4 |  |  | ... |
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REUARKS ON FORONTO METEUROLOGIOAL REGISTER FOR JULX， $18: 7$.
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METEOROLOGICAL REGISTER.
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# PROSPECTUS: OF THE <br> <br> ENCYCLOPEDIA BRITANNICA, 

 <br> <br> ENCYCLOPEDIA BRITANNICA,}

NINTH EDITION.

Edited by THOMAS, SPENCER BAYNES, LL.D., Profcssor of

Logic, Rhctoric, and Metaphysics, ịn the University of St. Andrewus.

IA submitting to the Pablic the Prosprectos of a New Edition of the Excyclopzena Bermanvica, itis almost needless to explain that during the interral which has elapsed since the publication of the Eighth Edition, great adivances have been made in every department of knowledge, and particulariy in the Arts and Sciences. It has accordingly been found necessary to adopt a scheme of very extensive alteration in tho preparation of the Numth Eimition, amounting virtually to a recon-ruction of the entire work. Thus, while the general character of the Evcyclopzola will renain substantially unchanged, the whole of the matter retained from the last Edition will be subjected to thorough revision, and the necessary additions (estimated at considerably more than half the whole work) provided for from the best soures. The utmost care will be taken in selecting headiugs and deciding on methods of treatment, so as to embody the:greatest amount of general information ma the most accessible form. The more important topics will be dealt witia systematically and at length, and particolar attention will be given to all sabjects of general.and popular interest. The object aimed at is the production of a work which shall pessess the highest character and value as a Book of Refereice adapted in allirespects to the circumstances and requirements of the time.

One of the distinctive features of the Excyclopadia Brithnnicahas always been the largenumber of orignal articles contributed by specialists in their respective deparitments.
It is now upwards of a century since the Excyclopedia Britansica made its firstappearance. The First Edition, in Three rolumes quarto, published in.1771, waslittle more thar a Dictionary of Arts.and:Sciences; the Second ( $1778-1783$ ), in Ten volumes, introduced the branchess oi Biography and Eistory. The Tump Edition (1797) extended to Eighteen volumes, to which a-supplement of 1 tro volumes was added. The fiourry (is10), in Twenty yolumies was reproduced in a Fifth and Sixth with little alteration; and a yeryimportant adilition was made, betreen the years 1815 and $18 t^{2}$, in a Sapplement of Six volumes. The two sabsequent Editions, the Serestri ( 1830 -1542) 3ad the Eigicic ( $185{ }^{5}$-1860), each in Twenty-one volumes, were is evoly respastgreatly superior to their predecessors, and adequatoly supplied the remumul fir genera! information at the time of their pablication.
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METBOROI.OGY:






** The Annual Subscription, due in January, Country Members, S3; in Toronto, $\$ 4$.


[^0]:    - At the present day, Caxton's Kiugish requires, for its neady comprebension, some of the same kind of assistance from a fiendly hand which Abbot Estcaey sought to obtain from Caxton himself, in regard to English hold to bo "old" in tho reign of Renry VII. I give, as a specinen, the preface to a transiation of a French work, entitled "Cato," a paraphrase of tho so-called Distichs or Cato, much used in the mediassl schools. We gather foom this "prologue or proheyme" what rero Carion's impressious of the rising generition of the city where his own youth had been passed some forty years proviously. The translation was published in 1483. Thus the work is introduced:
    " Unto the noble, auncyent, and renommed cyte, the cyte of Landon in England, 1, William Caxton, cytezegn and conjurye ot the same, and of the fraternite and felaushin of the merceryc, owe of ryght my servyse and good wyll, and of erery dute am bounden naturelly to assiste, ayde, and counceille, os ferforth as 1 can to my power, as to my racder, of whom I have receyved my nourcturo and lyuspge, and shall praye for the good prosperite and polecye of the same durging ny lyf, for as mo semeth it is of greto nede, bycause y have knowen it in my yong age moche more welthy, prosperous, and rycher than it is at this day, and the canse is, that there is almost none that entendcth to the comyn rele, but onls efery man for his siaguler prouifyte. 0 whan I remember the noble Romayns, that for the comyn wele of the cyte of Rome, they speuto not oniy theyr mocrable goods, but they put theyr bodyes and iyves in jeopardy, and to the deth, as by many a noble ensample we may see in the actes of Romans, as of the two noble Scipions, ATrican and Asyan, Actilius, and many other; and amongo al other the noble Catho, auctor and maker of this book, whiche he hath lefto for to remegne ever to all the pepio for to lerne hit, and to knowo hotv cevery man ought to rorile and governe hym in this igf, as well for the iyt temprail, as for the lyt spyrgtuch. And, as in my judgrient, it is the beste book for to be tanght to songe children in scole, and also to peple of every age, it is full convenient yf it bo wel raderstanden. And bjeause I see that the childrea that ben borne within the sasd este cacrease, and prouffyte not like thoyr faders and olders, but for tho moosto parte, after that they ben comern to thoyr parfight geres of discreclon. and rypencs of age, hor well that thegre faders have lefte to thern grete quantito of goodes, yet scarcely amonge ten two thrgace I hare sech and knowen in other londes, dyruers cytecs, that of one name and 2ynase sacecssyrels hare codured prosperously many heyres, yeav. or vi handred yere, and some a thousand; and in this noble cyte of Loadon, it can vnnethe contyuue unto the thysde begr, or searecls to the second. O blewsyd Lord, whin I remembre thss I am al abasshed; I can not juge the cause, but fagner, ne wgscr, ne bet bespoken children in thegre joughto ben nowher ihan ther ben in London; but at their ful rypng there is no carael ne good corn fuanden, but charl for the moost partc. I woto wel there bo many noblo and wyse, and provo wel, and ben better and richer thin ever wero theyr fuders; and to thende, that many mygbt come to honoure and morshypipe, I entende to translato this sagd book of Catbon, in whiche I doubto not, and yf they wrlle rede it, and and:srstande, they meche be the better conne rewl theraself therby ; for among all other bookes this is a singular book, and mas weil bo collyd tho reguent. or governance of the andy and sowle. Tacre was a noble clerti named Pogias, of Florente, and was secretary to popo Eugenye, and also to popo Nircheolas, which had, in the cyte of Florence, a noble and well stuflei 'lbraryc, which all noble straungers comyage desyred to sce, atad therin they fondo many coblo ani. .ine bookes, and whan they had axyd of hym which was the best booke of theme alle. and that he reputed for the best, he sayd, that he beld Cathon slosed for tito best book of his lsberary," sc.

[^1]:    - Tite works exbibited were kindiy lent by the autborities in charge of the Pubuc Librartes of Toronto, and by sereral private amatcurs of books in the city and nelghbourbood. The Institutetindebted to the following for losan on the occaston:-The Partiamentary Library of the Province of Ontareo the Libraryof ine Uniner. sify of Toronto, the Library of Ososode Hall. the Litrary of the Department of Pubicic Education, the Library of the Upper Canada Bible Sociely, N. O. Bigelow, Exq. Dr. Cannty, A. Elelns, Esk., Alderman Hallam. DY.
    
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