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[From the "Providence Advertiser."

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The universality of the demand for the Pain Killer, is a novel, interesting, and surprising feature in this history of the medicine. From the City of Providence, in the small State of Rhode Island, its "fame has gone out" into every quarter of the habitable globe. The Pain Killer is now regularly packed, sent, and sold, in large and steadily increasing quantities, not only to general agents in every State and Territory of the Union, and every Province of British America, but to Buenos Ayres, Brazil, Uruguay, Peru, Chili, and other South American States; to the Sandwich Islands; to Cuba, and other West India Islands: to England and Continental Europe; to Mozambique, Madagascar, Zanzibar, and other African lands; to Australia and to Calcutta, Rangoon, and other places in India. We believe it has also been sent to China, and we doubt if there is any foreign port, or any inland city in Africa or Asia, which is frequented by American or European missionaries, traders, or traders, into which the Pain Killer has not been introduced and being sought after. Millions of pages of pamphlets, tracts, bills, and other advertising matter, have been yearly printed in different languages, and circulated everywhere in connection with this medicine. Very few people have any idea of the vast amount of printing, and of business generally, done for and by the proprietors of the Pain Killer.

The extent of its usefulness is another great feature of this remarkable medicine. It is not only the best thing ever known, as everybody will confess, for bruises, cuts, burns, &c., but for dysentery, or cholera, or any sort of bowel complaint it is a remedy unsurpassed for efficiency and rapidity of action. In the several great cities of British India, and in the West India Islands and other hot climates, it has become the standard medicine for all such complaints, as well as for dyspepsia, liver complaints, and other kindred disorders. For coughs and colds, canker, asthma, and rheumatic difficulties, it has been proved by the most abundant and convincing trials and testimony to be an invaluable medicine. The proprietors are in possession of letters from persons of the highest character and responsibility, testifying, in unequivocal terms, to the cures effected, and the satisfactory results produced, in an almost endless variety of cases, by the use of this great medicine.

Here in Providence—where the discoverer of the Pain Killer resides, and where he and his son, under the style of Perry Davis & Son, manufactures it—the medicine now is, and, for many years past, has been in the very highest repute. There is reason for believing that nearly—if not quite—every family in the city has, at one time or another, used the Pain Killer, and there can be no doubt that the great majority of them, at the present period, either have some of it on hand, or are in the habit of purchasing and using it as often as the accidents or diseases occur for which it has been found so speedy and satisfactory a remedy. We cannot remember a single family of our acquaintance in which it is not used. The expression of approbation, too, of the Pain Killer, have always been decided and hearty. There has been no "faint praise" in the case; but people have always spoken as though they knew, from personal experience, that it was a good thing, and meant to say so. We have used it many times, and invariably keep it in the house. In truth, it is about the only medicine we have taken in a number of years.

We are fully justified in saying that no medicine has ever gained a popularity so strong, so extensive, and so enduring. Other preparations, in imitation of it and containing some of the ingredients composing it, have, by means of extravagant advertising and deceptive statements gained a short-lived patronage; but their inefficacy and worthlessness has soon become apparent, and they have proved disastrous speculations to their originators and proprietors. The Pain Killer alone has been found the reliable and sure cure for the complaints and casualties for which it is designed. Its reputation is enduring, and a fortune to its worthy proprietors; and we may add that they are, in every sense of the word, worthy men and citizens. No men make a better use of their large means, and none more truly generous and benevolent. No one, that we are aware of, envies them their good fortune, for it is believed that they have well deserved it.
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The attention of the Traveling Public is respectfully directed to this Hotel, which, it is believed, offers accommodations unsurpassed in Rooms, Furniture, and Attendance, by, and cheaper in price than, any other.

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It is appointed in all its departments equal to the highest priced Hotels. Every Room is lighted by Gas, and has a self-supplying and self-draining marble Croton Water Basin. The Servants are abundant, respectful, and attentive, and do not solicit rewards. The Hotel is never closed, night or day.

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Having been the first in this City to originate the idea of a Hotel conducted on this principle, I respectfully request a share of the public patronage for this establishment, and am at liberty to refer to the officers of the Smithsonian Institution, in Washington.

CHAS. H. SMITH.
AN ACCOUNT

OF

The Smithsonian Institution,

ITS

FOUNDER, BUILDING, OPERATIONS, ETC.,

PREPARED FROM THE

REPORTS OF PROF. HENRY TO THE REGENTS, AND OTHER AUTHENTIC SOURCES.

BY WILLIAM J. RHEES.

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Entered according to Act of Congress, in the year 1858, by William J. Rhees, in the Clerk's Office of the District Court for the District of Columbia.
The Smithsonian Institution has attained a world-wide reputation, and its influence and importance are constantly extending. Its publications are found not only in the public libraries of our own land, but also in those of every other civilized country. Its correspondents include some of the most distinguished cultivators of science of the present day, and it is referred to as a center of information by those who are interested in the pursuit of knowledge.

Many persons, however, who visit Washington, are but imperfectly acquainted with the history of Smithson, the great object he had in view, the plans adopted to carry out his intentions, and the results already obtained. It is for the purpose of furnishing more definite information on these points that this work has been compiled, from the annual reports of the Secretary, Professor Henry, to the Board of Regents, and other authentic sources.

After a considerable part of the manuscript had been prepared, it was furnished by request for publication in the United States Magazine, and the illustrations relative to the building were procured from the proprietors of that journal.
James Smithson, the founder of the Institution which bears his name and will perpetuate his memory, was a native of London, England. In his will he states that he was the son of Hugh, first Duke of Northumberland, and Elizabeth, heiress of the Hungerfords, of Audley, and niece of Charles the Proud, Duke of Somerset. He was educated at Oxford, where he took an honorary degree in 1786. He went under the name of James Lewis Macie until a few years after he had left the university, when he took that of Smithson, the family name of the Northumberlands. He does not appear to have had any fixed home in England, but travelled much on the continent, occasionally staying a year or two in Paris, Berlin, Florence, etc. He died at Genoa, in 1828, at an advanced age. He is said by Sir Davies Gilbert, President of the Royal Society, to have rivalled the most expert chemists in minute analysis; and, as an instance of his skill, it is mentioned that, happening to observe a tear gliding down a lady's cheek, he endeavored to catch it on a crystal vessel; that half of the drop escaped, but having preserved the other half, he submitted it to close analysis, and discovered in it several salts. He contributed a number of valuable papers to the Royal Society, and also to the Annals of Philosophy, on chemistry, mineralogy, and geology. His scientific reputation was founded on these branches, though from his writings he appears to have studied and reflected upon almost every department of knowledge. He was of a sensitive, retiring disposition; was never married—appeared ambitious of making a name for himself.
either by his own researches or by founding an institution for the promotion of science. He declared, in writing, that though the best blood of England flowed in his veins, this availed him not, for his name would live in the memory of man when the titles of the Northumberlands and Percies were extinct or forgotten. He was cosmopolitan in his views, and affirmed that the man of science is of no country—the world is his country, and all men his countrymen. He proposed at one time to leave his money to the Royal Society of London, for the promotion of science, but on account of a misunderstanding with the council of the Society he changed his mind, and left it to his nephew, and in case of the death of this relative, to the United States of America, to found the Institution which now bears his name.

The Bequest.

The whole amount of money received from the bequest was $515,169; and, besides this, $25,000 was left in England as the principal of an annuity to the mother of the nephew of Smithson. This sum will also come to the Institution. The Government of the United States accepted the bequest, or in other words, accepted the office of trustee, and the Hon. Richard Rush, of Pennsylvania, was charged with the duty of prosecuting the claim. He remained in attendance on the English courts until the money was awarded to him. He brought it over in sovereigns, deposited it in the Mint of the United States, where it was recoined into American eagles, thus becoming a part of the currency of the country.

At the time of the passing of the act establishing the Institution, in 1846, the sum of $242,000 had accrued in interest, and this the Regents were authorized to expend on a building. But, instead of appropriating this sum immediately to this purpose, they put it at interest, and deferred the completion of the building for several years, until over $100,000 should be accumulated, the income of which might defray the expenses of keeping the building, and the greater portion of the income of the original bequest be devoted to the objects for which it was designed. This policy has been rigidly adhered to, and the result is, that, besides the original sum, and after all that has been devoted to the building, the grounds, and other operations, there is now on hand, of accumulated interest, $125,000, which has been invested in State stocks.

The Plan of Organization.

The bequest, in the language of the testator, was "to found at Washington an establishment, under the name of the Smithsonian Institution, for the increase and diffusion of knowledge among men." According to this, the Government of the United States is merely a trustee. The bequest is for the benefit of mankind, and any plan which does not recognize this provision of the will would be illiberal and unjust. The Institution must bear and perpetuate the name of its founder, and hence its operations are kept distinct from those of the General Government, and
all the good which results from the expenditure of the funds is accredited to the name of Smithson.

It will be observed that the object of the bequest is twofold—first, to increase, and, second, to diffuse, knowledge among men. These two objects are entirely separate and distinct, and to view the case understandingly the one must not be confounded with the other. The first is to enlarge the existing stock of knowledge by the addition of new truths, and the second, to disseminate knowledge thus enlarged among men. This distinction is readily acknowledged by men of science, and in Europe different classes of scientific and other societies are founded upon it. The will makes no restriction in favor of any particular kind of knowledge, and hence all branches are entitled to a share of attention. Smithson was well aware that knowledge should not be viewed as existing in isolated parts, but as a whole, each portion of which throws light on all the others, and that the tendency of all is to improve the human mind, and to give it new sources of power and enjoyment. A prevalent idea, however, in relation to the will is, that the money was intended exclusively for the diffusion of useful or immediately practical knowledge among the inhabitants of this country, but it contains nothing from which such an inference can be drawn. All knowledge is useful, and the higher the more important. From the enunciation of a single scientific truth may flow a hundred inventions, and the more abstract the truth the more important the deductions. To effect the greatest good, the organization of the Institution should be such as to produce results which could not be attained by other means, and inasmuch as the bequest is for men in general, all merely local expenditures are inconsistent with the will. These were the views expressed by the Secretary, Professor Henry, and constantly advocated by him. They were not entertained, however, by many, and consequently difficulties have been encountered in carrying them out. A number of literary men thought that a great library should be founded at Washington, and all the money expended on it; others considered a museum the proper object; and another class thought the income should be devoted to the delivery of lectures throughout the country; while still another was of opinion that popular tracts should be published and distributed amongst the million. But all these views were advanced without a proper examination of the will, or a due consideration of the smallness of the income. The act of Congress directed the formation of a library, a museum, a gallery of art, lectures, and a building on a liberal scale to accommodate these objects. One clause, however, gave the Regents the power, after the foregoing objects were provided for, to expend the remainder of the income in any way they might think fit for carrying out the design of the testator. The plan they have adopted is to stimulate all persons in this country capable of advancing knowledge by original research to labor in this line; to induce them to send their results to the Institution for examination and publication; and to assist all persons engaged in original investigations, as far as its means will allow; also to institute, at the expense and under the direction of the Institution, particular researches. This plan has been found eminently practicable, and by means of it the Institution has
been enabled to produce results which have made it favorably known in every part of the civilized world.

**What has been done.**

As an evidence of the above assertion, the following facts are given in a late report of the Regents to Congress:

"The Institution has promoted *astronomy*, by the aid furnished the researches which led to the discovery of the true orbit of the new planet Neptune, and the determination of the perturbations of this planet, and the other bodies of the solar system, on account of their mutual attraction. It has also aided the same branch of science by furnishing instruments and other facilities to the Chilian Expedition, under Lieutenant Gilliss, and by preparing and publishing an ephemeris of Neptune, which has been adopted by all the astronomers of the world. It has also published maps, and instructions for the observation of eclipses. It has advanced *geography*, by providing the scientific traveler with the annual lists of occultations of the principal stars by the moon, for the determination of longitude; by the preparation of tables for ascertaining heights with the barometer; and by the collection and publication of important facts relative to the topography of different parts of the country, particularly of the Valley of the Mississippi. It has established an extended system of *meteorology*, consisting of a corps of several hundred intelligent observers, who are daily noting the phases of the weather in every part of the continent of North America. It has imported standard instruments, constructed hundreds of compared thermometers, barometers, and psychrometers, and has furnished improved tables and directions for observing, with their instruments, the various changes of the atmosphere, as to temperature, pressure, moisture, etc. It has collected, and is collecting, from its observers, an extended series of facts, which are yielding deductions of great interest in regard to the climate of this country, and the meteorology of the globe.

"The Institution has advanced the science of *geology*, by its researches and original publications. It has made a preliminary exploration of the remarkable region of the Upper Missouri River called the "Bad Lands," and has published a descriptive memoir on the extraordinary remains which abound in that locality. It has assisted in explorations relative to the distribution in this country of the remains of microscopic animals found in immense quantities in different parts of the United States. It has made important contributions to *botany*, by means of the published results of explorations in Texas, New Mexico, and California, and by the preparation and publication of an extended memoir, illustrated with colored engravings, on the sea-plants of the coast of North America. It has published several important original papers on *physiology*, *comparative anatomy*, *zoology*, and different branches of descriptive *natural history*; and has prepared and printed, for distribution to travelers and others, a series of directions for collecting and preserving specimens. It has advanced *terrestrial magnetism*, by furnishing instruments for determining the elements of the magnetic force, to
various exploring expeditions, and by publishing the results of observations made under its direction at the expense of the Government.

"The Institution has also been instrumental in directing attention to American antiquities, and has awakened such an interest in the subject as will tend to the collection of all the facts which can be gathered relative to the ancient inhabitants of this continent. It has also rendered available, for the purposes of the ethnologist and philanthropist, the labors of our missionaries among the Dacotahs, by publishing a volume on the language of this tribe of Indians; and has done good service to comparative philology, by the distribution of directions for collecting Indian vocabularies.

"It has established an extended system of literary and scientific exchanges, both foreign and domestic, and annually transmits between the most distant societies and individuals thousands of packages of valuable works. It has presented its own publications, free of expense, to all the first class libraries in the world, thus rendering them accessible, as far as possible, to all persons who are interested in their study. No restriction of copyright has been placed on their republication, and the truths which they contain are daily finding their way to the general public through the labor of popular writers and teachers. The distribution of its publications, and its system of exchanges, has served not only to advance and diffuse knowledge, but also to increase the reputation, and consequently the influence, of our country—to promote a kindly and sympathetic feeling between the New World and the Old, alike grateful to the philosopher and the philanthropist.

"These are the fruits of what is called the system of active operations of the Institution; and its power to produce other and continuous results is only limited by the amount of the income which can be appropriated to it, since each succeeding year has presented new and important fields for its cultivation. All the anticipations with regard to it have been more than realized."

The following extract from a speech delivered in the House of Representatives, February 27, 1855, by one of the Regents, Hon. William H. English, of Indiana, gives an excellent and comprehensive view of the condition of the Institution:

* * *

"Look at the financial department, where corruption would most likely exist, if it existed at all, and you will find the gratifying fact that it has been so judiciously managed, that, after paying all the current expenses, the funds and property are this day worth double the amount of the original bequest. Where, sir, in this age of extravagant expenditures of public money and deficiency bills will you find a parallel to this? The Regents are authorized to expend all the accruing interest; but so far from doing so, they have, by husbanding their resources, and by constant watchfulness over the disbursements, actually saved the sum of $125,000, which they have now on hand to apply as a permanent addition to the principal. What, then, is the result? A magnificent building, of ample dimensions, has been erected, at a cost of $300,000. Books, apparatus, and other articles have been provided for the library, museum, laboratory, and gallery of art, worth $85,000. Lecturers have been employed, original researches have
been made, many valuable and scientific works published and distributed, the current expenses entirely paid, and yet the principal is increased $125,000. And of the interest expended, I have yet to hear where one dollar was devoted to an improper purpose. Does this look as if the Institution was badly managed? If I am asked what the Institution has done to carry out the object for which it was designed, I reply that it has already done much although yet in its infancy. The building is just completed, and it is not to be expected that a great establishment, which is to exist as long as this Government itself, is to be built up in a day. The foundation is being laid deep and wide, and the noble work is gradually but surely advancing."

The Government.

An act of Congress, dated August 10, 1846, provides "that the President and Vice-President of the United States, the Secretary of State, the Secretary of the Treasury, the Secretary of War, the Secretary of the Navy, the Postmaster General, the Attorney General, the Chief Justice, and the Commissioner of the Patent Office of the United States, and the Mayor of the City of Washington, during the time for which they shall hold their respective offices, and such other persons as they may elect as honorary members, be and they are hereby constituted an 'establishment,' by the name of the 'Smithsonian Institution,' for the increase and diffusion of knowledge among men."

The law also provides for a "Board of Regents," to be composed of the Vice-President of the United States and the Mayor of the City of Washington, during the time for which they shall hold their respective offices, three members of the Senate and three members of the House of Representatives, together with six other persons, other than members of Congress, two of whom shall be members of the National Institute, in the City of Washington, and resident in the said city; and the other four shall be inhabitants of other States, and no two of them from the same State.

The Establishment exercises general supervision over the affairs of the Institution.

The Board of Regents conducts the business of the Institution, and makes annual reports to Congress.

The Secretary of the Institution is elected by the Board. His duty is to take charge of the building and property, discharge the duty of librarian, keeper of the museum, etc., and has power, by consent of the Regents, to employ assistants.

All laws for the protection of public property in Washington apply to the lands, buildings, and other property of the Institution.
The Smithsonian building stands on a part of a tract of public land designated "the Mall," and the grounds extend from Seventh to Twelfth streets, east and west, and from the canal to B street, north and south, comprising about fifty-two acres. The center of the building is directly opposite Tenth street, and the site is about twenty feet above the average level of Pennsylvania avenue.

The style of architecture is that of the last half of the twelfth century, the latest variety of the rounded style, as it is found immediately anterior to its merging into the early Gothic, and is known as the Norman, the Lombard, or Romanesque. The semi-circular arch, stilted, is employed throughout—in doors, windows, and other openings.

It is the first edifice in the style of the twelfth century, and of a character not ecclesiastical, ever erected in this country.

The main building has in the center of its north front two towers, of which the higher reaches an elevation of about 150 feet. On the south front is a massive tower 37 feet square and 91 feet high. On the northeast corner stands a double companile tower, 17 feet square and 117 feet high; at the southwest corner an octagonal tower, in which is a spiral stair case. There are nine towers in all.

The entire length of the building, from east to west, is 447 feet. Its greatest breadth is 160 feet. The east wing is 82 by 52 feet, and 42½ feet high to the top of its battlement; the west wing, including its projecting apsis, is 84 feet by 40, and 38 feet high, and each of the connecting ranges, including its cloister, is 60 feet by 49. The main building is 205 feet by 57, and, to the top of the corbel course, 58 feet high.
The building is erected in a very substantial manner. The foundation walls under the main central towers are 12 feet thick at bottom, gradually diminishing to five feet six inches at the surface of the ground, and are sunk eight feet deep. The thickness of the walls of the main building above the water table is two feet and-a-half in the first story, and two feet in the second, exclusive of buttresses, corbel courses, &c. The walls of the wings are two feet thick; of the central towers three feet and a half thick in the first story, diminishing to two feet in the highest story. The roofs are slatted. The face of the building is finished in ashlar, laid in courses from 10 to 15 inches in height, and having an average bed of nine inches.

The material employed is a lilac gray variety of freestone, found in the new red sandstone formation where it crosses the Potomac, near the mouth of Seneca Creek, one of its tributaries, and about twenty-three miles above Washington. When first quarried it is comparatively soft, working freely before the chisel and hammer; but by exposure it gradually indurates, and ultimately acquires toughness and consistency, that not only enables it to resist the changes of the atmosphere, but even the most severe mechanical wear and tear.

The corner-stone of the building was laid with Masonic ceremonies, on the first of May, 1847, in the presence of President Polk, his Cabinet, and an immense concourse of citizens and strangers. The Grand Master of Masons, who performed the ceremony, wore the apron presented by the Grand Lodge of France to Washington, through La Fayette, and used the gavel employed by Washington when he laid the first corner-stone of the Capitol of the United States. An oration was delivered by the Hon. George Mifflin Dallas, the first Chancellor of the Smithsonian Institution, and now United States Minister to Great Britain. In the course of his remarks Mr. Dallas said: “When, at no distant day, I trust, it shall be seen that within the walls of this building the truths of nature are forced by persevering researches from their hidden recesses, mingled with the stock already hoarded by genius and industry, and thence profusely scattered, by gratuitous lectures or publications, for the benefit of all—when it shall be seen that here universal science finds food, implements, and a tribune—art her spring to invention, her studio, and her models; and both shall have throngs of disciples from the ranks of our people, envious for enlightenment, or eager to assist—then the condition of our legacy will have been performed, and the wide philanthropy of Smithson have achieved its aim.”

The design, by James Renwick, Jr., of New York, consists of a main center building, two stories high, and two wings, connected by intervening ranges; each of these latter having, on the north or principal front, a cloister, with open stone screen.

The first story of the main building consists of one large room, 200 feet by 50, and 25 feet high, the ceiling of which is supported by two rows of columns extending the whole length; at the middle of the space corresponding to the principal entrances are two wing walls, by which, with the addition of screens, the whole space may be divided into two large rooms, with a hall extending across the
building between them. This story may be used for a library or a museum, or for both, as the wants of the Institution may require. It is finished in a simple but chaste style, and has received general commendation. It is one of the most imposing rooms in this country, apart even from adaptation to its purposes.

The upper story is divided into three apartments without pillars—a lecture-room in the middle, and two rooms, each 50 feet square, on either side. The one on the east is for apparatus, and for meetings of societies, committees, &c.; that on the west is now occupied by Stanley's Indian Gallery and other collections.

The whole arrangement of the upper part of the building is made with a view to afford facilities for meetings of associations, which have for their object the promotion, diffusion or application of knowledge. If at any time the space now occupied by the lecture-room should be required for other purposes, the seats and gallery may be removed, and the partition walls, which are unconnected with the roof, may be taken down, and the whole upper story converted into a large hall.

The Lecture Room.

The optic and acoustic properties of the lecture-room are unsurpassed by any apartment, intended for the same purpose, in the United States. As has been observed, it is situated in the second story of the main building; it is one hundred feet in length, and, by occupying part of the towers, a width of seventy-five feet has been secured. The ceiling is twenty-five feet high, smooth and unbroken,
with the exception of an oval opening above to admit light on the platform. It thus powerfully reflects the sound of the speaker's voice to the hearers, and being so low, this reflection blends with the original sound and simply re-enforces it.

The general form of the room is fan-shaped, the speaker being near the handle of the fan, on one side of the room. The walls behind and near him are smooth lath and plaster, giving a powerful but short resonance, which strengthens his voice. Not being parallel, they reduce the reverberation, but send the sound out from the speaker, to increase the volume of his voice until it reaches the furthest part of the gallery. The multitude of surfaces directly in front of the speaker—gallery, pillars, stair-screens, and the seats of the audience—prevent reverberation. The seats are curved, so that each spectator faces the platform; and the floor is also curved, so that the back seats rise above the front—not quite so much as is required by the *panoptic* curve of Professor Bache, but as much as the size of the room will allow. The gallery is in the form of a horse-shoe. The architecture of this room is due to Captain Alexander, of the corps of Topographical Engineers, who varied the plan until the required conditions were, as nearly as possible, fulfilled. The room will seat fifteen hundred persons, and when crowded will contain upwards of two thousand. Prof. Henry presented a valuable paper on acoustics to the American Association for the Advancement of Science, at its meeting in Albany, August, 1856. It gives an account of the principles on which the Smithsonian lecture-room was constructed, and the result of the observations made by Capt. Meigs, Prof. Bache, and Prof. Henry, in relation to the new rooms in the extension of the Capitol. It was published in the transactions of the Association, and in the Smithsonian Report for 1856.

The room in the second story of the south tower is used for the meetings of the Board of Regents. The offices of the Secretary are in the north tower, im-
mediately in front of the lecture room; the library is at the west end; the natural history department, chemical laboratory, exchange, and publication rooms, at the east end of the building.

Regents’ Room.

In the room used by the "Regents" and the "Establishment" as a hall for their meetings, are now deposited the personal effects of James Smithson. Here may be seen his trunks, umbrella, walking-cane, sword, plume, riding-whip, a set of silver plate, a miniature chemical laboratory which he used when travelling, thermometers, snuff box, scales, candlesticks, &c.

Hanging in this room is an original painting by Bergham, a rural scene, the property of Smithson, a marble head of St. Cecilia, by Thorvaldsen, &c.

There are also likenesses of Chief Justice Taney, Chancellor of the Institution, Hon. Richard Rush, of Pennsylvania, and Senator Pearce, of Maryland, distinguished alike for their devotion to the interests of the Institution, of which they have been Regents from its organization, and for their valuable public services.

The Library.

This portion of the establishment has been well filled by purchase, donation, the copyright law, and exchange. It now contains 50,000 books and other articles, and is rapidly becoming of much value in its special sphere of usefulness. In relation to it, the Secretary, in his report for 1855, says:

"It is the present intention of the Regents to render the Smithsonian Library the most extensive and perfect collection of transactions and scientific works in this country, and this it will be enabled to accomplish by means of its exchanges, which will furnish it with all the current journals and publications of societies, while the separate series may be completed in due time as opportunity and means may offer. The Institution has already more complete sets of transactions of learned societies than are to be found in the oldest libraries in the United States, and on this point we speak on the authority of one of the first bibliographers of the day. This plan is in strict accordance with the general policy of the Institution, viz.: to spend its funds on objects which cannot as well be accomplished by other means, and has commended itself to those who are able to appreciate its merits, and who are acquainted with the multiplicity of demands made upon the limited income of the Smithsonian fund. In a letter, after a visit to Washington, the bibliographer before alluded to remarks: 'My previous opinions as to the judiciousness of the system pursued by the Smithsonian Institution, in every respect, were more than confirmed. I hope you will not change in the least. Your exchanges will give you the most important of all the modern scientific publications, and the older ones can be added as you find them necessary. The Library, I think, should be confined strictly to works of science.'"

Besides books, the Library contains engravings, maps, music, and other articles connected with the art of printing. The collection of engravings and works upon
the history of art is believed to be one of the choicest in the country. It was made by an American gentleman distinguished as a scholar no less than as a statesman, with a special design of illustrating the process and resources of the art of engraving, in all its branches, from its early masters to its present time. This collection contains some of the best works of nearly every engraver of much celebrity. There is one portfolio of the works of Albert Durer, containing twenty engravings on copper and two on iron by his own hand—and among them most of his best and rarest works; about sixty fine copies on copper, including the famous seventeen by Marc Antonio; thirteen different portraits of Durer, and a large number of wood cuts engraved by him or under his inspection. Another portfolio contains a large collection of the etchings of Rembrandt, including some of his most beautiful pieces, particularly the "Christ Healing the Sick," an early and fine impression. There is a portfolio of two hundred engravings and etchings, by Claude Lorraine, Hollar, and Bega; a portfolio of superb portraits by Nanteuil, Wille, Edelink, and others, among them a first impression of the "Louis XIV in
By Nanteuil; a portfolio of prints from the old Italian masters, comprising many that are extremely rare; and another from the old German masters, containing about one hundred prints, many of them scarce and of great beauty. There are, besides, five portfolios of sheet engravings, including very choice prints. Among them are thirty-one which are valued by Longh to fifteen hundred dollars.

Among the galleries and published collections, are the "Musée Royal," in two volumes folio, proofs before the letter, a superb copy; Donon’s "Monumens des Arts du Dessin," in four volumes folio, of which only two hundred and fifty copies were published; Baillie’s Works, one hundred plates, folio; Thorwaldsen’s Works, four volumes, folio; Hogarth’s Works, folio, and the German edition in quarto; The Boydell Gallery, two volumes, folio; Boydell’s "Shakspeare Gallery," a remarkably good copy, containing many proofs before the letter, numerous etchings and several progressive plates; Claude’s "Liber Veritatis," an original copy, three volumes, folio; The Houghton Gallery, two volumes, folio; Chamberlain’s Drawings in the Royal Collection, one volume, folio; Rembrandt’s Drawings, one volume, quarto; Da Vinci’s Drawings, one volume, quarto; "Galerie de Florence;" Angerstein Gallery; Ancient Sculpture, by the Dilettanti Society; Perrault’s "Hommes Illustres;" Sadeler’s Hermits; "Theuerdank," a fine copy of the very rare edition of 1519; Meyrick’s Armor; Hope’s Ancient Costumes, and more than one hundred volumes besides, mostly in folio or quarto, either composed entirely of valuable engravings, or in which the text is published for the sake of the illustrations of fine or decorative art.

The collection of critical and historical works, in the various departments of the fine arts, comprises several hundred volumes of the best works in the English, French, German, and Italian languages, including whatever is mostly needed by the student of art in all its branches.

The Library is open to the public from 9 a. m. to 5 p. m. daily, except Sunday.

The busts in the Library represent the Hon. Roger B. Taney, Chief Justice of the United States and Chancellor of the Institution; Robert Fulton, Commodore Decatur, Joel Barlow, Thomas Jefferson, Daniel Webster, Milton, Thorwaldsen, and Benjamin Hallowell.

The Reading Room.

The visitor will find in the Reading-room, which adjoins the Library, the leading periodicals, and particularly the scientific journals published in the world.

In this room may be seen a portrait of Smithson, representing him in the costume of a student of Oxford, which was probably painted when he was not more than twenty years of age. This portrait was purchased for thirty guineas, for the Institution, by the Hon. Abbot Lawrence, from the widow of John Fitall, a servant of Smithson mentioned in his will. There is also in possession of the Institution a medallion of Smithson, in copper, taken in after life.

On the west porch, adjoining the Reading-room, are several idols from Central America, presented to the Institution by E. G. Squier, late United States Minis-
ter to Nicaragua. The largest statue, carved in black basalt, was obtained from the Island of Momotombita, in Lake Managua, where there was a temple or sacred place. The figure with the sphinx-like head-dress is also from the same locality. One or two of the other statues, by the Indians of the Pueblo of Subtiava, near Leon, having been buried a great number of years, and the locality carefully concealed, they are somewhat mutilated. A small group of these monuments exists in the depths of the forest midway between Leon and the Pacific, which is still secretly visited by the Indians for the performance of dances and other rites pertaining to their primitive religion. The small figure resembling some animal couchant was, until very recently, preserved on a remarkable rock on the side of the volcano of Omatepec, and regarded with high veneration by the Indians. It was only after many years of search that the priests were able to find and remove it. The granite vase, distinguished by the ornaments called grecques by Humboldt, (and which characterize the ruins at Mitla, in Mexico,) was dug up near the city of Nicaragua. The spot had been a cemetery of the ancient inhabitants.
Another relic of the same material, and with a like style of ornament, accompanies the vase, and was found in the same neighborhood. It seems to have been designed as a pedestal for a small statue. There are also several vases, in which the bones and ashes of the dead were packed after the decomposition of the flesh or after burning.

The largest and most elaborate monuments in Nicaragua exist in the little Island of Pensacola, near the base of the extinct volcano of Momobacho. They weigh a number of tons each, and are distinguished as being wrought from blocks of sandstone—a material which is not found on the island. Two of the statues of the Smithsonian collection are from the Island of Zapatero, in Lake Nicaragua, where once existed one of the most imposing aboriginal temples of the country. Here, among the ruins of the teocalli, or high-places of the former inhabitants, were found entire statues, besides the fragments of many others, several broken sacrificial stones, etc.

The Museum.

The Smithsonian Institution is now in possession of the best collection of the larger North American and European mammalia, both skins and skeletons, to be found in the United States. In birds it is only second to the collection of the Philadelphia Academy of Natural Sciences—the latter being without doubt the most extensive and perfect now extant. Of fish the Smithsonian has a greater number than is to be found in any cabinet, except that of Professor Agassiz.
It should be understood that the Smithsonian Institution does not enter upon grounds already occupied, and therefore it is not an object to collect specimens promiscuously, or those usually found in other museums. Hence the collection of this Institution is not attractive to the general visitor and curiosity seeker; but the student of natural history will here find much that will be sought in vain elsewhere. Duplicate specimens are often exchanged for those in other collections, and all the objects are open for the study and examination of those engaged in this line of research. Applications for such facilities are numerous, and have always been granted. The preparation of most of the important papers on natural history published within a few years in this country has been aided in this way by the Institution.

The act of Congress establishing the Institution provides as follows:—

Sec. 6. That, in proportion as suitable arrangements can be made for their reception, all objects of art and of foreign and curious research, and all objects of natural history, plants, and geological and mineralogical specimens belonging, or hereafter to belong, to the United States, which may be in the city of Washington, in whosoever custody the same may be, shall be delivered to such persons as may be authorized by the Board of Regents to receive them, and shall be arranged in such order, and so classed, as best facilitate the examination and study of them, in the building so as aforesaid to be erected for the Institution; and the Regents of said Institution shall afterwards, as new specimens in natural history, geology, or mineralogy, may be obtained for the museum of the Institution, by exchange of duplicate specimens belonging to the Institution, (which they are hereby authorized to make,) or by any donation, which they may receive, or otherwise, cause such new specimens to be also appropriately classed and arranged.
Under these provisions, the Institution has received and taken charge of such
government collections in mineralogy, geology, and natural history as have been
made since its organization. The amount of these has been very great, as all the
United States Geological, Boundary and Railroad Surveys, with the various topo-
graphical, military, and naval explorations, have been, to a greater or less extent,
ordered to make such collections as would illustrate the physical and natural his-
tory features of the regions traversed.

Of the collections made by thirty government expeditions, those of twenty-five
are now deposited with the Smithsonian Institution, embracing more than five-
sixths of the whole amount of materials collected. The principal expeditions thus
furnishing collections are the United States Geological Surveys of Doctors Owen,
Jackson, and Evans, and of Messrs. Foster and Whitney; the United States and
Mexican Boundary Survey; the Pacific Railroad Survey; the Exploration of the
Yellow Stone, by Lieutenant Warren; the Survey of Lieutenant Bryan; the
United States Naval Astronomical Expedition; the North Pacific Behring Straits
Expedition; the Japan Expedition, and the Paraguay Expedition.

The Institution has also received, from other sources, collections of greater or
less extent, from various portions of North America, tending to complete the
government series.

The collections thus made, taken as a whole, constitute the largest and best
series of the minerals, fossils, rocks, animals, and plants of the entire continent
of North America, in the world. Many tons of geological and mineralogical
specimens, illustrating the surveys throughout the West, are embraced therein.
There is also a very large collection of minerals of the mining regions of Northern
Mexico, and of New Mexico, made by a practical Mexican geologist, during a period
of twenty-five years, and furnishing indications of many rich mining localities
within our own borders, yet unknown to the American people.

It includes, also, with scarcely an exception, all the vertebrate animals of North
America, among them many specimens each of the Grizzly, Cinniman, and Black
Bears; the Panther, Jaguar, Ocelot, and several species of Lynx or Wildcat;
the Elk, the Mexican, Virginian, White-tailed, Black-tailed, and Mule Deer; the
Antelope, Rocky Mountain Goat and Sheep; several species of Wolves and
Foxes, the Badger, Beaver, Porcupine, Prairie Dog, Gopher, and also about seven
hundred species of American Birds, four hundred of Reptiles, and eight hundred
of Fishes, embracing Salmon, Trout, Pike, Pickerel, White Fish, Muskalounge,
Bass, Redfish, &c.

The greater part of the Mammalia have been arranged in walnut drawers,
made proof against dust and insects. The birds have been similarly treated,
while the reptiles and fish have been classified, as, to some extent, have also been
the shells, minerals, fossils, and plants.

The Museum hall is quite large enough to contain all the collections hitherto
made, as well as such others as may be assigned to it. No single room in the
country is, perhaps, equal to it in capacity or adaptation for its purposes, as, by
the arrangements now being perfected, and denoted in the illustration, it is capa-
able of receiving twice as large a surface of cases as the old Patent Office hall, and three times that of the Academy of Natural Sciences of Philadelphia. When completely fitted, and specimens finally placed, the whole, taken together, will present a most imposing appearance.

Congress, in March, 1857, made an appropriation for the construction of suitable cases in the Smithsonian hall to contain the collection of the South Sea Exploring Expedition and others belonging to the Government. These will soon be transferred and appropriately arranged. The immense collection already in the Smithsonian Institution, although accessible to naturalists, and in constant use by them, has, for want of these cases, not been fully displayed to the public.

In the Museum hall may be seen a meteorite, the largest specimen in this country next to the Texas meteorite at Yale College.

It was brought to this country by Lieutenant Couch, of the United States Army, he having obtained it at Saltillo. It was said to have come from the Sancha estate, some fifty or sixty miles from Santa Rosa, in the north of Coahuila; various accounts were given of the precise locality, but none seemed very satisfactory. When first seen by Lieutenant Couch, it was used as an anvil, and had been originally intended for the Society of Geography and Statistics in the city of Mexico. It is said, that where this mass was found there are many others of enormous size; but such stories, however, are to be received with many allowances. Mr. Weidner, of the mines of Freiberg, states, that near the southwestern edge of the Balson de Mapimi, on the route to the mines of Parral, there is a meteorite near the road of not less than a ton weight. Lieutenant Couch also states, that the intelligent, but almost unknown, Dr. Berlandier, writes in his journal of the Commission of Limits, that at the hacienda of Venagas, there was (1827) a piece of iron that would make a cylinder one yard in length, with a diameter of ten inches. It was said to have been brought from the mountains near the hacienda. It presented no crystalline structure, and was quite ductile.

Prof. J. Lawrence Smith, of the Medical Department of the University of Louisville, gives the following account of this meteorite: "It weighs 252 pounds, and from several flattened places I am led to suppose that pieces have been de-

![Meteorite from Coahuila, Mexico.](image-url)
tached. The surface, although irregular in some places, is rather smooth, with only here and there thin coatings of rust, and, as might be expected, but very feeble evidence of chlorine, and that only on one or two spots. The specific gravity is 7.81. It is highly crystalline, quite malleable, and not difficult to cut with a saw. Its surface etched with nitric acid, presents the Widmannstätten figures, finely specked between the lines, resembling the representation we have of the etched surface of Hauptmannsdorf iron. Schreibersite is visible, but so inserted in the mass that it cannot be readily detected by mechanical means. Hydrochloric acid leaves a residue of beautifully brilliant patches of this mineral."

Prof. Smith, in a lecture on meteorites at the Smithsonian Institution, published in the Annual Report for 1855, advocates the theory of their lunar origin.

The Apparatus Room.

The Apparatus-room contains a large and valuable collection of instruments, prominent among which is the munificent donation of Dr. Robert Hare, of Philadelphia, who, when he resigned the Chair of Chemistry in the University of Pennsylvania, which he filled with honor to himself and his country for nearly thirty years, presented to the Smithsonian the instruments of research and illustration collected and used by himself during his long and successful scientific career. The gift was important, not only on account of its intrinsic value, but also as establishing a precedent which should be frequently observed by others. Besides the above, there is a full set of pneumatic instruments, of superior size and workmanship, constructed expressly for the Institution, by Mr. Chamberlain, of Boston; a set of ingenious
instruments for illustrating wave motion; a large electrical machine; Page's Electro-Magnetic instrument, &c., There is also in this room a large Fresnel Lens, such as is used in light-houses, and various instruments for the illustration of light, heat, sound, dia-magnetism, etc.

GERMAN STEAM ELECTRICAL MACHINE.

The Institution has just imported from Carlsruhe, Germany, a Hydro-electric machine which was constructed by C. Eisenlohr expressly to order. The effects which can be produced by this machine, are wonderful.

It consists principally of a tubular steam boiler resting upon glass columns, to secure insulation. The boiler is to be about two-thirds filled with the purest water, which is then heated, and the pressure of steam required is equal to six atmospheres. The steam at this high pressure is allowed to escape through very small openings. The electricity is thus produced by the friction of the particles of water against the inner surface of the orifices of the jet pieces, through which the steam issues. The least quantity of oil will destroy the friction, and prevent the development of electricity. This machine gives a constant succession of sparks, and charges a battery of sixteen large jars in thirty seconds.

HARE'S ELECTRICAL MACHINE.

In the apparatus-room, the most prominent object is a large electrical machine
on an elevated platform. This instrument was constructed by Dr. Robert Hare, of Philadelphia.
The Gallery of Art.

Besides a library, a museum, lectures, etc., among the earliest plans was the formation of a Gallery of Art, and, in accordance with this, a large room was devoted to this purpose. It was also determined that for the purpose of encouraging art, artists might exhibit their pictures here free of expense. The feature of this gallery is the very interesting series of portraits, mostly full size, of over one hundred and fifty North American Indians, with sketches of scenery, deposited by the artist who painted them, Mr. J. M. Stanley. These portraits were all taken from life, and are accurate representations of the peculiar features of prominent individuals of forty-three different tribes, inhabiting the Southwestern prairies, New Mexico, California, and Oregon. The faithfulness of the likenesses has been tested by a number of intelligent persons who have visited the gallery, and have immediately recognized among the portraits those of the individuals with whom they have been personally acquainted. The artist expended in the work of obtaining these pictures ten years of his life, and perseveringly devoted himself to the task in the face of difficulties and dangers which enthusiasm in the pursuit could alone enable him to encounter.

The catalogue of the pictures will be found in the appendix.

In this room is also deposited a marble statue, a copy of the celebrated work of art in Rome, the "Dying Gladiator." It was executed by an English sculptor, Jno. Gott.

Meteorological and Magnetic Observatory.

On the grounds near the Institution is a small building resembling a cottage, which is the above establishment. It principally consists, to secure an equable temperature, of an under-ground room, inclosed within two walls, between which
a current of air is allowed to pass, in order to prevent dampness. It has been supplied with a set of apparatus for determining the continued variations in direction and intensity of terrestrial magnetism. By a very ingenious application of the photographic process, the invention of Mr. Brooks, of England, the instruments are made to record, on a sheet of sensitive paper moved by clock work, their own motions. First, to determine the variations of direction of the horizontal magnet; a steel bar, strongly magnetized, is suspended by several fibers of untwisted silk, so as to have perfect freedom of motion in the horizontal plane, and from a gas-light, kept perpetually burning, a single ray of light is thrown upon the concave mirror permanently attached to the magnetic bar, and consequently partaking of its movements. This ray of light is reflected and brought to a focus at the surface of a revolving cylinder, moved by clock work, on which the photographic paper is placed. When the magnet is at rest, the pencil of light is stationary, and consequently traces on the moving paper a simple straight line; but when the magnet is disturbed by the terrestrial perturbations, its oscillations are recorded by the motion of the pencil of light in a curved or zig-zag line.

To register the intensity or strength of the magnetic force, another bar magnet is suspended by two parallel silk threads, about an inch apart, descending from two hooks fastened to the under side of a plate attached to the ceiling, or some other support. The plate is then made to revolve through an arc of a circle, until, by the force of torsion, the magnet is deflected from a north and south to an east and west direction. It is thus kept in a state of equilibrium between the force of torsion of the threads, tending to turn its north end around still further to the south; and the magnetism of the earth, on the other hand, tending to bring it back to its north and south direction. If in this position the magnetism of the earth becomes stronger, it will prevail, and the north end of the needle will turn toward the north. If the magnetism of the earth diminishes in intensity, the force of torsion will prevail, and the same end will move toward the south. These motions, as in the case of the other magnet, are recorded by a beam of light on the paper surface of the revolving cylinder. But, besides the change of direction of the horizontal needle, a magnet, so supported as to be free to take any position, in this latitude will arrange itself with its end dipping toward the horizon. The amount of this dip, or variation, varies also in different places, and at different times; and to record these changes a bar is supported in the direction of the magnet north and south, on two knife edges, like the beam of a balance. Any change which takes place in the position of a magnet thus arranged is recorded by a mirror attached to the prolongation of the axes on which the bar turns.

It is proposed to keep these instruments constantly in operation, for the purpose of comparing results with observations of a similar character in different parts of the world; and also for the purpose of furnishing a standard to which the observations made at various points by the Coast Survey, and the different scientific explorations which are now in progress in the western portions of the United States, may be referred, and with which they may be compared.
On account of the delicate and peculiar nature of the apparatus employed, the Magnetic Observatory is not accessible to the public.

Observations are made at 7 A. M., 2 and 9 P. M. every day, of the barometer, thermometer, psychrometer, the direction of the wind, clouds, amount of rain, etc. These observations are carefully computed, together with those received from the Smithsonian corps of observers in every part of the country; and the material is thus accumulating for a valuable work on the meteorology of the United States. Blanks, instructions, and tables are furnished gratuitously to persons who will make observations. Instruments are supplied when requested, but at the expense of the parties ordering—the income of the Institution being, as yet, insufficient to meet such and other like desirable outlays.

THE GREAT BAROMETER.

The instrument noticed in the hall, near the entrance, is a Sulphuric Acid Barometer, constructed by James Green, 422 Broadway, N. Y., expressly for the Institution.

The glass tube is 240 inches long, and $\frac{3}{4}$ ths of an inch in diameter, and is enclosed in a cylindrical brass case of the same length, and 2½ inches diameter. The glass tube is secured in the axis of the brass case by a number of cork collars, placed at intervals, which while they prevent all lateral displacement of the tube, enable it to be moved upwards and downwards for the adjustment of the zero-point.

The reservoir consists of a cylindrical glass bottle of four inches in diameter, with two openings at the top; one in the axis to admit the lower end of the long tube, which is tapered to about one-half of the general diameter, the other to transmit the varying pressure of the atmosphere.

The scale for reading the elevation is divided into inches and tenths, and by means of a vernier, moved by a rack and pinion, the variations can be measured to a hundredth of an inch, and estimated to a still smaller division.

The drying apparatus, placed between the external air and the interior of the reservoir, consists of a tubulated bottle with two openings, containing chloride of calcium, and connected with the reservoir by an india-rubber tube, by which arrangement the air is deprived of its moisture.

To ascertain the temperature of the column of the liquid, two thermometers are attached, one at the top and the other near the bottom.

The advantages of the use of sulphuric acid are

1st. That it gives off no appreciable vapor at any atmospheric temperature; and 2nd. That it does not absorb or transmit air.

A full account of this instrument is given in the proceedings of the American Association, for the advancement of science, published by Jos. Lovering, Cambridge, Mass., 1857, p. 135.

On the top of the high tower of the Smithsonian building, and also on the grounds connected with it, may be seen a number of RAIN GAGES.

Several forms of this instrument have been used, but the one which has been found the best, under all circumstances, is shown in the annexed figure.
It consists of—
1. A large brass cylinder a, b, c, d, two inches in diameter, to catch the rain.
2. A smaller brass cylinder e, f, for receiving the water, and reducing the diameter of the column, to allow a greater accuracy in measuring the height.
3. A whalebone scale s, s, divided by experiment, so as to indicate tenths and hundredths of an inch of rain.
4. A wooden cylinder i, w, to be inserted permanently in the ground for the protection and ready adjustment of the instrument.

To facilitate the transportation, the larger cylinder is attached to the smaller by a screw-joint at e.

This instrument is made by John Jones, Baltimore, Md., and is sold for $3 00. Several hundred of these gages have been distributed by the Institution and U. S. Patent Office.

On one of the towers may be seen an Anemometer, or self-registering instrument, for denoting the direction and velocity of the wind. This apparatus was constructed for the Institution, by Dr. Charles Smallwood, of Montreal, precisely like one he has in use at his observatory in that city.

Exchanges.

The system of international exchange, planned and perfected by the Smithsonian Institution, has become very important in its results. In fact, it is now the principal medium of communication between the scientific and literary associations of the Old and New World. Lately the number of societies availing themselves of these facilities has largely increased—including, among others, nearly all the State Agricultural Societies of America, publishing transactions. This result has been produced by circulars which the Institution issued, to make this system more generally known. Copious returns are being constantly received from the societies abroad; and an intercourse is thus established which cannot fail to produce valuable results, both in an intellectual and moral point of view. The packages from the Smithsonian are admitted duty free to all parts of the Continent of Europe—a certified invoice of contents by the Secretary being all that is required to pass them through the Custom Houses. On the other hand, all packages addressed to the Institution arriving at the ports of the United States, are admitted, without detention, duty free. Thus it will be observed that the system of exchange is the most extensive and efficient that has ever been established in any country. Its effects on our national character and rep-
utation can scarcely be too highly estimated; for its influence, though silent, is felt in every part of the globe where science and literature are cultivated.

Several of the ocean steam navigation and a portion of our inland forwarding and transportation companies, in acknowledgment for the benefits they have received, as also to mark their high appreciation of the efforts of the Institution to promote knowledge, have carried the freight to and from Washington free of charge. We are pleased to record this fact, so honorable to the parties interested, and trust all their co-laborers will speedily follow their excellent example.

The Publications.

In the first report presented by Professor Henry to the Regents, he urged as a leading feature of the operations of the Institution, the publication of memoirs and periodical reports, the result of the labors of those engaged in original research. The advantages of this plan were stated as follows:

"In the first place it will serve to render the name of the founder favorably known wherever literature and science are cultivated, and keep it in continual remembrance with each succeeding volume, as long as knowledge is valued. A single new truth, first given to the world through these volumes will forever stamp their character as a work of reference. The contributions will thus form the most befitting monument to perpetuate the name of one whose life was devoted to the increase of knowledge, and whose ruling passion, strong in death, prompted the whole bequest intended to facilitate the labors of others in the same pursuit.
"Again, the publication of a series of volumes of original memoirs will afford to the Institution the most ready means of entering into friendly relations and correspondence with all learned societies in the world, and of enriching its library with their current transactions and proceedings. But perhaps the most important effect of the plan will be that of giving to the world many valuable memoirs, which, on account of the expense of the illustrations, could not be otherwise published. Every one who adds new and important truths to the existing stock of knowledge, must be of necessity, to a certain degree, in advance of his age. Hence the number of readers and purchasers of a work, is often in the inverse ratio of its intrinsic value, and consequently authors of the highest rank of merit, are frequently deterred from giving their productions to the world on account of the pecuniary loss to which the publication would subject them. When our distinguished countrymen, Bowditch, contemplated publishing his commentaries on La Place, he assembled his family and informed them that the execution of his design would sacrifice one-third of his fortune, and it was proper that his heirs should be consulted on a matter which so nearly concerned them. The answer was worthy the children of such a father. 'We value,' said they, 'your reputation more than your money.' Fortunately in this instance the means of making such a sacrifice existed; otherwise one of the proudest monuments of American science could not have been given to the world. In a majority of cases, however, those who are most capable of extending human knowledge are least able to incur the expense of its publication. Wilson, the American ornithologist, states in a letter to Michaux, that he has sacrificed everything to publish his work. 'I have issued,' says he, 'six volumes, and am now engaged on the seventh; but as yet I have not received a single cent of the proceeds.' The following remarks, which are directly to this point, occur in an address on the subject of natural history, by one of the most active cultivators of this branch of knowledge: 'Few are acquainted with the fact that from the small number of scientific works sold, and the great expense of the plates, our naturalists not only are not paid for their labors, but suffer pecuniary loss from their publications. Several works on the different branches of zoology, now in the course of publication, will leave their authors losers by an aggregate of $15,000. I do not include in this estimate works already finished—one, for instance, the best contribution to the natural history of man, extant, the publication of which will occasion its accomplished author a loss of several thousand dollars. A naturalist is extremely fortunate if he can dispose of two hundred copies of an illustrated work, and the number of copies printed rarely exceeds two hundred and fifty.'

The Smithsonian publications are presented to learned societies, public libraries, and other institutions in all parts of the world, and can be purchased by individuals, at about the cost of paper, printing, and binding. If circumstances admitted, the Regents would give a much more extended circulation to their publications; but their limited means prevent it. The fact must not be lost sight of that this is only one of their many operations. The cost of the publication by government of the Patent Office Report is more than quadruple the whole in-
come of the Smithsonian Institution. Each memoir is printed separately, and with a separate title and paging, so that it can be distributed to persons most interested in its perusal as soon as it comes from the press, without waiting for the completion of the volume to which it belongs. In this way the author is enabled to present a full account of his discoveries to the world, with the least possible delay; while, by the rules of the Institution, he is allowed to publish an abstract of his paper in the proceedings of the American Association for the Advancement of Science, or in those of any properly organized society. The number of copies of the Smithsonian publications distributed is greater than that of the transactions of any scientific or literary society; and, therefore, the Institution offers the best medium to be found for diffusing a knowledge of scientific discoveries. Every memoir published is issued with the stamp of approval of a commission of competent judges; and, in order to secure a cautious and candid opinion, the name of the author, and those of the examiners are not made known to each other unless a favorable report is given; and in this case, the names of the commission are printed, as vouchers for the character of the memoir, on the reverse of the title page. This plan secures an untrammeled expression of opinion, while it induces caution on account of the responsibility which it involves.

RULES OF DISTRIBUTION.

The following rules have been adopted for the distribution of the quarto volumes of the Smithsonian Institution:

1. They are to be presented to all learned societies which publish transactions, and give copies of these in exchange to the Institution.

2. To all foreign libraries of the first class, provided they give in exchange their catalogues or other publications, or an equivalent in their duplicate volumes.

3. To all the colleges in actual operation in this country, provided they furnish in return, meteorological observations, catalogues of their libraries and their students, and all other publications issued by them relative to their organization and history.

4. To all States and Territories, provided there be given, in return, copies of all documents published under their authority.

5. To all incorporated public libraries in this country, not included in any of the foregoing classes, containing more than 7000 volumes; and to smaller libraries, where a whole State or large district would be otherwise unsupplied.

6. Separate memoirs are sometimes presented to minor institutions.

Correspondence.

There is one part of the Smithsonian operations that attracts no public attention, though it is producing, it is believed, important results in the way of diffusing knowledge, and is attended, perhaps, with more labor than any other part. This is the scientific correspondence of the Institution. Scarcely a day passes in which communications are not received from persons in different parts of the country, containing accounts of discoveries, which are referred to the Institution, or asking
questions relative to some branch of knowledge. The rule was early adopted to
give respectful attention to every letter received, and this has been faithfully ad-
hered to from the beginning up to the present time.

These communications relate to a great variety of subjects. Any topic which
strongly excites the attention of the public at a given time, such as the announce-
ment in the papers of a wonderful discovery, or an important invention which
promises to introduce extensive changes in the useful arts, is sure to bring upon
the Institution an increase of labor in the way of correspondence. The ordinary
inquiries addressed to the Secretary relate to the principles of mechanics, electric-
ity, magnetism, meteorology, names of specimens of plants, minerals, insects, and,
in short, to all objects or phenomena of a remarkable or unusual character.

Requests are frequently made for lists of apparatus, for information as to the
best books for the study of special subjects, hints for the organization of local
societies, &c. Applications are also made for information by persons abroad rela-
tive to particular subjects respecting this country. When an immediate reply
cannot be given to a question, the subject is referred, by letter, to some one of the
Smithsonian co-laborers, and the answer is transmitted to the inquirer, either
under the name of the person who gives the information or under that of the In-
stitution, according to the circumstances of the case. In relation to this subject
we quote from a recent report of Prof. Henry.

"There is no country on the face of the earth in which knowledge is so gener-
ally diffused as in the United States; none in which there is more activity of
mind or freedom of thought and discussion, and in which there is less regard to
what should be considered as settled and well-established principles. It will not,
therefore, be surprising that the Institution should be called upon to answer a
great number of communications intended to subvert the present system of science,
and to establish new and visionary conceptions in its stead, and that numerous
letters should be received pertaining to such objects as the quadrature of the
circle, the trisection of the angle, the invention of self-moving machines, the
creation of power, the overthrow of the Newtonian system of gravitation, and the
establishment of new systems of the universe.

"Many of these communications are of such a character that, at first sight, it
might seem best to treat them with silent neglect; but the rule has been adopted
to state candidly and respectfully the objections to such propositions, and to en-
deavor to convince their authors that their ground is untenable.

"Though this course is in many cases attended with no beneficial results, still
it is the only one which can be adopted with any hope of even partial good. In
answering those who persist in declaring that the present received laws of mecha-
nical action are erroneous, and that they have discovered new and more correct
generalizations, they are requested to prove the truth of their assertions by pre-
dicting new and important phenomena, the existence of which may be immedi-
ately tested either by experiment or observation. It is not enough that the new
system explains facts which we know, for this would be merely exhibiting old
knowledge under a new form, but it should point out in the way of deduction
new facts which have hitherto escaped the eye of the observer or the scrutiny of the experimenter.

"It is to be regretted that so many minds of power and originality in our country should, from defective scientific training, be suffered to diverge so widely from the narrow path which alone leads to real advance in positive knowledge. Providence, however, seems in some measure to vindicate the equality of its distributions, by assigning to such, a double measure of hope and self-esteem, which serves them instead of success and reputation."

"The faithful attention to the correspondence of the Institution, imposes a serious labor on the Secretary and his assistants. Beside the correspondence above mentioned, there is that which relates to the reception and publication of the memoirs; to the lectures; to particular branches of research; to the almost innumerable inquiries as to the character of the Institution; to applications for its publications; to the printing, engraving, binding, transportation, payment of accounts; and to the exchanges of the "Contributions to Knowledge."

"All the letters received are bound in volumes, and a copy of every answer is carefully preserved, the whole thus forming a permanent record of all the transactions of the Institution, as well as a history of the topics of scientific interest which have particularly occupied the public mind during any given period. The exposition of this labor, which has been increasing from year to year, will be a sufficient answer to the question which is sometimes asked, as to what the officers of the Institution find to do."

The Lectures.

With reference to this part of the operations of the Institution, the Secretary has presented the following views in his reports:

"Public lectures have become one of the characteristics of the day, and next to the press perhaps tend, more than any other means of diffusing knowledge, to influence the public mind. The liberal price paid by the Lowell Institute, and some of the associations in our large cities, induces men of reputation to devote themselves to the preparation of popular lectures. In some parts of the country a number of adjacent cities or villages enter into an arrangement by which the same lecture may be repeated, in succession, at each place; and in this way the amount paid becomes sufficient to call forth the best talent. Popular lectures appear better adapted to present literary and historical facts, and to give information relative to subjects of art and of morals, than to impart a knowledge of scientific principles. These require more attention and continuous thought than can be generally expected from a promiscuous audience. Hence the scientific lecturer frequently aims at a brilliant display of experiments, rather than to impress the mind with general principles.

"Local lectures are too limited in their influence to meet a proper interpretation of the will of Smithson; yet they were ordered by Congress, and are calculated to do more good in this city than in any other part of the Union."
"In selecting lecturers, the consideration of mere popular effect has not been regarded. The persons chosen have been such as to give weight to the lecture, and to reflect credit on the Institution. The object has been to give instruction rather than amusement—to improve the public taste rather than to elicit popular applause. The Institution, to be respected, must maintain a dignified character, and seek rather to direct public opinion than to obtain popularity by an opposite course.

"The moral effect which the lectures have on the city of Washington cannot be otherwise than beneficial. When the weather is favorable, the room is every evening crowded before the hour of commencement with an intelligent audience. The lecturers have generally been persons from a distance, who have expressed surprise to find such a large and respectful attendance in a city which is commonly thought to be exclusively devoted to politics and amusement. The plan of inviting gentlemen of reputation and influence from a distance, renders the Smithsonian operations familiar to those best qualified to appreciate their value, and best able to give a correct account of the character of the Institution in their own districts of country, as well as to vindicate its claims to the confidence and friendly regard of the public. The results of this course, and the distribution of the volumes of Contributions to colleges and public libraries, it is hoped, will so establish the Institution in the good opinion of the intelligent and influential part of the community, that it may bid defiance to the assaults of those who are ignorant of its true character, or are disappointed in not sharing its honors without the talents or the industry to win them."

The Secretary.

In the report of the Committee on Organization, of the first Board of Regents, January 25, 1847, the nature of the duties of the Secretary are set forth, and the importance of his position duly considered. It is stated that inasmuch as the Chancellor being a Regent, can receive no salary for his services, it results almost necessarily that the Secretary should become its chief executive officer. The charter seems to have intended that he should occupy a very responsible position; granting as it does to the Secretary, in conjunction with the Chancellor, the power to determine the necessity and the amount of appropriations made for the purposes of the Institution.

The Committee stated that in their opinion "upon the choice of this single
officer, more probably than on any one other act of the Board, will depend the future good name, and success, and usefulness of the Smithsonian Institution.”

One of the first resolutions adopted by the Board of Regents was the following:

“Resolved, That it is essential for the advancement of the proper interests of the trust, that the Secretary of the Smithsonian Institution be a man possessing weight of character, and a high grade of talent; and that it is further desirable that he possess eminent scientific and general attainments; that he be a man capable of advancing science and promoting letters by original research and effort, well qualified to act as a respected channel of communication between the Institution and scientific and literary individuals and societies in this and foreign countries; and, in a word, a man worthy to represent, before the world of science and of letters, the Institution over which this Board presides.”

It was with these feelings and opinions that the Board of Regents selected Professor Joseph Henry, of the College of New Jersey, Princeton, to fill the office of Secretary. He accepted the appointment, entered at once upon his laborious and responsible duties, and has since given to them all his time and thoughts.

The views he held were not at first generally understood, but they are now appreciated and concurred in by those who have examined the subject, and who believe that Smithson did not intend to limit the influence of his bequest to one locality or nation, but designed, as is well expressed in the words of John Quincy Adams, “to spread the benefits to be derived from the Institution not only over the whole surface of this Union, but throughout the civilized world.”

The Grounds.

The grounds around the building were laid out by the distinguished horticulturist and landscape gardener, Downing, but he died while engaged in the prosecution of his plans.

We are indebted to the editor of the “Rural New Yorker,” for the following remarks relative to this subject, and for the representation of the marble monument recently erected to his memory:

When the sad tidings of the death of Andrew Jackson Downing was announced, many hearts were stricken, and many countenances saddened. Every lover of rural life and rural taste, felt that a friend, a brother, and a leader had fallen. The homes of hundreds, from the foundation stone to the gable point, spoke of the departed—even the trees and flowers of the garden, told a tale of sadness. The furniture in our parlors, the books in our libraries, spoke too plainly to our wounded hearts of the loved and lost. Scarcely a city or village in our country but presented some monument of his skill and taste, something to remind the people how great and irreparable was their loss—cottages whose simple yet elegant adornings taught how truly taste may be independent of wealth; windows tempting the eye from loveliness within, to the glorious prospect without; stately trees that seemed to guard like sentinels the sacred precincts of home, and village churches whose walls
and spires spoke of religion to the heart. It was at once proposed, in all parts of the country, by Horticultural and other Societies, that some suitable monument should be erected to the memory of Mr. Downing, and in 1852, the American Pomological Society appointed a committee to superintend this work. The design adopted by the committee was furnished by Calvert Vaux, of Newburgh, N. Y., the late partner of Mr. Downing, and the work executed by Robert Launitz, an eminent sculptor of New York. The monument was erected in the grounds of the Smithsonian Institution, at Washington, and it is worthy of remark, that Mr. Downing was engaged in laying out and beautifying these grounds at the time of his death. The committee made their final report at the Pomological meeting in September, 1856. The funds were supplied by friends of Mr. Downing, in Philadelphia, Newburgh, Boston, Washington, Louisville, Buffalo, and Rochester.

The principal design of the monument consists in a large vase resting on a pedestal, the whole executed of the finest Italian marble. The pattern of the vase is taken from an antique of the chaste school. The vase is four feet in height, and measures three feet in diameter on its upper rim. The body is ornamented with rich arabesque; acanthus leaves surround the lower part. The handles rest on heads of satyrs, (the tutelar gods of groves and woods.) The pedestal, resting on a carved base, and being surmounted with a carved cornice, has on each side deep panels, relieved by carved mouldings. Each of the panels contains an inscription; that upon the Northern Front reads as follows:

**THIS VASE**

Was erected by his Friends

**IN MEMORY OF**

**ANDREW JACKSON DOWNING,**

Who died July 28, 1852, aged 37 years.

---

He was born, and lived,
And died upon the Hudson River.
His life was devoted to the improvement of the national taste in rural art,
an office for which his genius and the natural beauty amidst
which he lived had fully endowed him.

His success was as great as his genius, and for the death of few
public men,
was public grief ever more sincere.

When these grounds were proposed, he was at once
called to design them;
but before they were completed he perished in the wreck of the
steamer Henry Clay.

His mind was singularly just, penetrating, and original.

His manners were calm, reserved, and courteous.

His personal memory
belongs to the friends who loved him;
his fame to the country which honored and laments him.

Inscription upon the Southern Front:

"The taste of an individual,
as well as that of a nation, will be in direct proportion to the
profound sensibility
with which he perceives the beautiful in natural scenery."

"Open wide, therefore,
the doors of your libraries and picture galleries,
all ye true republicans!
Build halls where knowledge shall be freely diffused among men,
and not shut up within the narrow walls of
narrower institutions.
Plant spacious parks in your cities,
and unclose their gates as wide as the gates of morning to the
whole people."

[Downing's Rural Essays]

Upon the Eastern Front is inscribed:

"Weep no more,
For Lycidus your sorrow is not dead,
Sunk though he be beneath the wat'ry floor,
So sinks the day-star in the ocean bed,
And yet anon repairs his drooping head,
And tricks his beams, and with new spangled ore
Flames in the forehead of the morning sky;
So Lycidus sunk low, but mounted high
Through the dear might of Him that walked the waves."

Upon the Western Front is this Inscription:

I climb the hill from end to end,
Of all the landscape underneath
I find no place that does not breathe
Some gracious memory of my friend.
THE SMITHSONIAN INSTITUTION.

'Tis held that sorrow makes us wise,
Yet how much wisdom sleeps with thee,
Which not alone had guided me,
But served the seasons that may rise;
And doubtless unto thee is given
A life that bears immortal fruit,
In such great offices as suit
The full grown energies of Heaven.
And love will last as pure and whole
As when he loved me here in time,
And at the spiritual prime
Re-waken with the dawning soul.

On the Base of the Pedestal is the following:

THIS MEMORIAL
Was erected under a resolution passed at Philadelphia,
in Sept., 1852, by the
AMERICAN POMOLOGICAL SOCIETY,
of which Mr. Downing was one of the
original founders.

MARBLL P. WILDER, President.

The whole monument with its granite plinth is nine feet four inches in height,
and cost $1,600.

Views from the Tower.

From the top of the highest tower, a magnificent, and by far the finest view of
Washington and surrounding country is presented to the spectator. The city ex-
tends from northwest to southeast about four miles and a half; and from north-
east to southwest about two miles and a half. Its circumference is fourteen miles.
The avenues, streets, and open spaces, contain 3,604 acres, and the public reserva-
tions 513 acres. The city is encompassed by a fine range of hills, forming a
natural amphitheatre and covered in part with trees and underwood.

The following are the principal objects that present themselves to the view:

On the west is seen the Washington Monument, which has now reached a height
of 175 feet. Further on, is seen the National Observatory, which is two miles
from the Capitol. Georgetown, with its churches, college, &c., are seen in the
distance to the northwest, and nearer are the President's House, the Treasury
Department with its colonnade, on the right, and "Winder's building" used by
the Pension Office and by bureaus of the War and Navy Departments, to the left.

Columbia College may be seen on one of the most commanding eminences of
the hills at the north of the city, and a little to the east the marble tower of the
new U. S. Military Asylum is plainly visible. The tall and beautiful steeple of
the 5th Baptist Church, and also the spire of the Catholic Church, will be ob-
served in the north.
The observer will recognize the Patent office and General Post office to the northeast.

The City Hall and Unitarian Church, both of yellow color, and Trinity Episcopal Church, built of red sandstone similar to that used in the Smithsonian edifice, are at the northeast.

Directly east is the Capitol of the United States, its magnificent proportions and commanding position constituting it the most prominent as it is the most interesting object in the landscape.

At the southeast are seen the ship houses and tall chimneys of the Navy Yard, and more towards the south on the neck of land at the junction of the Anacostia or East branch with the Potomac, are the Arsenal and the Penitentiary.

The Potomac river lies along the south of the city, and adds greatly to the beauty of the view. Alexandria, a city of 10,000 inhabitants, can be seen about six miles to the south.

At the southwest is the Long Bridge which connects Washington with Virginia, and on the commanding position, elevated more than 200 feet from the river is Arlington, the residence of George Washington Parke Custis, Esq.
CATALOGUE

OF

PORTRAITS OF NORTH AMERICAN INDIANS,

WITH SKETCHES OF SCENERY, ETC.

PAINTED BY J. M. STANLEY.

The collection embraced in this Catalogue comprises accurate portraits painted from life, of forty-three different tribes of Indians, obtained at the cost, hazard, and inconvenience of a ten years' tour through the South-western Prairies, New Mexico, California, and Oregon. The descriptions are by Mr. Stanley himself.

1.—CO-WOCK-COO-CHEE, or WILDCAT. (Painted Dec. 1842.)

A Seminole Chief, and one of the most celebrated of his tribe; possessed of much vanity and an indomitable spirit, he has won for himself an exalted name and standing among his people.

At the outbreak of the Florida war, he was a mere boy; but he shouldered his rifle, and fought with so much courage and desperation, that he was soon looked up to as a master-spirit. This gathered a band of warriors about him, who adopted him as their chief leader. At the head of this party he became a formidable enemy of the United States troops, and gave them much trouble during that campaign, and probably would never have fallen into the hands of the whites, had he been able to procure food and ammunition for his band: being reduced to a state of starvation, he was obliged to surrender, and, by treaty stipulations with the United States Government, was with his people removed west of the Mississippi.

2.—AL-LECK TUSTENUGEE. (Painted Dec. 1842.)

This chief is at the head of the Mikasukie band, and during the Florida war was one of the most active among the Seminoles.

3.—NOKE-SUKE TUSTENUGEE. (Painted Dec. 1842.)

A Seminole Sub-chief of the Mikasukie band. A warrior of distinction, and Al-leck Tustenuggee's aid.

4.—AL-LECK TUSTENUGEE, NOKE-SUKE TUSTENUGEE, CUDJO, and GEO. W. CLARKE. (Painted Dec. 1842.)

Cudjo is a negro Interpreter, who served the United States during the Florida War; and Geo. W. Clarke is Seminole Agent.

5.—TUSTENUGEE CHOP-KO, or THE BIG WARRIOR. (Painted Dec 1842.)

A Seminole Mikasukie Sub-chief, and one of the most distinguished warriors of his tribe. He is six feet three inches in height, and well proportioned, and is esteemed one of the best ball players among his people. His countenance indicates any thing but intelligence or shrewdness; on the contrary, it exhibits evidence of a capacity to commit any act, however cruel and atrocious, at the bidding of his chief.

6.—CHI-CO-TBE TUSTENUGEE, (Painted Dec. 1842.)

A Sub-chief, of some note as a warrior, but abandoned and dissipated; he is painted in the costume in which he presented himself, with a bottle of "fire water" in his hand. He
possesses an amiable disposition, and is passionately fond of joking, which has acquired for him the celebrity of punster to the band.

7.—HAL-BURTA-HADJO, or ALLIGATOR. (Painted Aug., 1843.)

A Seminole Chief, celebrated for his prowess as a warrior. His name has been frequently before the public, as the instigator and perpetrator of many atrocious murders, during the Florida campaign. He has suffered much from sickness since his removal, and looks dejected and careworn.

8.—COF-SA or TIGER. (Painted Dec., 1843.)

A Seminole Warrior, and son of Alligator.

9.—SEM-I-WOC-CA. (Painted Sep., 1843.)

Represented as about crossing a small stream, with a corn-basket under her arm. She is attired in the costume peculiar to the Creek and Seminole women. Their dress consists of calico, of a coarse, cheap kind, worked to the depth of from twelve to fifteen inches from the bottom with different colors, in various devices.

The artist found it exceedingly difficult to get the women of this tribe to sit for their pictures, owing to the opposition of their chiefs, who do not consider them worthy of such an honor.

10.—OPOETH-LE-YO-HOLO. (Painted July, 1843.)

Speaker of the Upper Creeks. This man holds the rank of principal counsellor, or speaker of the councils, over which he presides with great dignity. His influence is so great, that questions submitted to the council are generally decided according to his will; for his tribe consider him as the organ of their chief, and suppose he only speaks as he is directed.

11.—OPOETH-LE-YO-HOLO. (1843.)

Represented in the manner in which he paints himself when going to war. One would hardly recognize this celebrated chief in this disguise. He insisted on being thus painted, and it was with difficulty that he was afterwards induced to wash his face, and sit for a portrait which his friends would be able to recognize. See No. 10.

12.—A CREEK BUFFALO DANCE. (Painted Aug., 1843.)

This dance is enacted every year during the season of their busk, or green-corn dances; and the men, women, and children all take an active part in the ceremony. They invest themselves with the scalp of the buffalo, with the horns and tail attached, and dance about in a circle, uttering sounds in imitation of the animal they represent, with their bodies in a half-bent position, supporting their weight upon their ball-sticks, which represent the forelegs of the buffalo.

13.—TUSTENUGEE EMATHLA. (Painted June, 1843.)

This is a fine looking man, six feet and one inch in height, and well proportioned, of manly and martial appearance and great physical strength, and is well calculated to command the respect of a band of savage warriors. He is generally known by the name of Jim Boy. Tustenuggee means "warrior:" and Emathla, "next to the warrior."

He is and always has been a firm and undeviating friend of the whites: he led a party of seven hundred and seventy-six warriors to Florida, and endeavored, first as mediator, to induce the Seminoles to abandon the bloody and fruitless contest in which they were engaged, but was unsuccessful.

14.—TO-MATH-LA-MICCO, or THE LITTLE KING. (Painted June, 1843.)

Principal Chief of the Upper Creeks. Distinguished only as a warrior, he was elected to the chieftainship through the instrumentality of Opoeth-le-yo-holo, who has great influence over him. He is painted in the attitude of holding a red stick, which is invariably carried
by him during the ceremonies of the busk or green-corn dance. It is emblematical of the red-stick or late Creek war.

Possessing no merit as an orator or counsellor, his will is easily swayed by his speaker. He is mild and amiable in his disposition, and much beloved by his people.

15.—TUCK-A-BACK-A-MICCO, or THE MEDICINE-MAN or PHYSIC-MAKER. (Painted June, 1843.)

This is the great Medicine or Mystery Man of the Creeks; his fields of corn are cultivated by the people of the town in which he resides, and a salary of five hundred dollars per annum is allowed him from the treasury of the nation, for his services.

They suppose him to be indued with supernatural powers, and capable of making it rain copiously at will.

In his town is a building of rather a singular construction, used during their annual busk or green-corn dances as a dancing-house. It is of a circular form, about sixty feet in diameter and thirty feet high, built of logs; and was planned by this man in the following manner:

He cut sticks in miniature of every log required in the construction of the building, and distributed them proportionately among the residents of the town, whose duty it was to cut logs corresponding with their sticks, and deliver them upon the ground appropriated for the building at a given time. At the raising of the house, not a log was cut or changed from its original destination; all came together in their appropriate places, as intended by the designer. During the planning of this building, which occupied him six days, he did not partake of the least particle of food.

16.—TAH-C00-SAH-FIXICO, or BILLY HARDJO. (Painted Aug., 1843.)

Chief of one of the Upper Creek towns. He is a merchant or trader among his people; also, has an extensive farm and several negro slaves, which enable him to live very comfortably. He is much beloved and respected by his people. The dress in which he is painted is that of a ball-player, as they at first appear upon the ground. During the play they divest themselves of all their ornaments, which are usually displayed on these occasions, for the purpose of betting on the result of the play: such is their passion for betting, that the opposing parties frequently bet from five hundred to a thousand dollars on a single game.

17.—CHILLY McINTOSH. (Painted June, 1843.)

An Upper Creek Chief. This man is a brother of Gen. McIntosh, who was killed some years since by his people, for negotiating a treaty with the United States Government, contrary to the laws of his country. chilly was pursued by the same party who massacred his brother, but succeeded in making his escape by swimming a river, which arrested his pursuers.

18.—KEE-SEE-LAH and AH-SEE-HEE. (Painted Aug., 1843.)

Daughters of Opoeth-le-yo-holo. The latter is commonly denominated the Young Queen. The remaining figure on the right is a half-breed and the wife of a white trader.

19.—COO-WIS-COO-EE, or JOHN ROSS. (Painted Sept., 1844.)

Principal Chief of the Cherokees. Mr. Ross has been for a number of years at the head of his people, which fact is sufficient evidence of the high estimation in which they hold him as a man capable of discharging the responsible duties devolving upon the office. Mr. R. is a man of education, and as a statesman would do honor to the legislative halls of any country. His hospitality is unbounded; from his soft and bland manners, his guests are at once made to feel at home, and forget that they are far from the busy scenes of civilization, and surrounded by the red men of the forest. His house is the refuge of the poor, starved, and naked Indian: when hungry, he is sure to find at the abode of this exemplary man something wherewith to appease his hunger, and if naked, a garment to cover his nakedness.
Of his private and political history much might be said; but we leave it to those who are more competent to the task, and able to do him that justice due to so eminent a man.

20.—KEETLE-LA, OR DOG. (Painted 1844.)

Commonly called Major George Lowry, Second or Assistant Chief of the Cherokees; an office which he has filled for a number of years with much credit to himself and the entire satisfaction of his people. He is about seventy years of age, speaks English fluently, and is an exemplary Christian.

He is painted in the attitude of explaining the wampum, a tradition of the manner in which peace was first brought about among the various Indian tribes. (See No. 27.)

21.—STAN WATIE. (Painted June, 1843.)

A highly gifted and talented Cherokee. This man is a brother of Boudinot, who was murdered some years since for his participation in negotiating with the United States the New Echota treaty, (which has caused so much internal dissention among the Cherokees,) contrary to the laws of his country. Stan Watie was also one of the signers of that instrument, but has thus far escaped the horrible death that befell his brother. He is reputed to be one of the bravest men of his people. During the session of the International Council, at Tah-le-quah, in June, 1843, he sat for his portrait; he was surrounded by hundreds of his enemies at the time, but did not manifest the least symptoms of fear during his sojourn. A biography of this man's life would form a very interesting volume.

22.—THOMAS WATIE. (Painted 1842.)

Brother of Stan Watie, a fine-looking man, but abandoned and dissipated. He is a printer by trade, and speaks English fluently, and writes a good hand.

23.—YEAL-WEE-GOO-YAH-REE or THE SPOILED PERSON. (Painted 1844.)

This man was one of the signers of the first treaty made with the Cherokees by the United States Government, during the administration of General Washington.

24.—OH-TAH-NEE-UH-TAH, or CATCHER. (Painted 1844.)

A Cherokee Warrior.

25.—CHARLES MCINTOSH. (Painted 1842.)

A Cherokee half-breed, about twenty-three years of age, little known among his people until December, 1842. He then distinguished himself by killing a man upon the Prairies, by the name of Merrett, an escaped convict from the jail at Van Buren, Arkansas, who with his brother was under sentence to the State Prison, had escaped, and fled to the Prairies, where they carried on a sort of land piracy, robbing and murdering all travellers whom chance threw into their power.

26.—WE-CHA-LAH-NAE-HE, or THE SPIRIT. (Painted 1844.)

Commonly called John Huss. A regular ordained minister of the Presbyterian denomination, and speaks no English. He is a very pious and good man.

27.—INTERNATIONAL INDIAN COUNCIL. (Painted 1843.)

This council was convened by John Ross, at Tah-le-quah, in the Cherokee Nation, in the month of June, 1843, and continued in session four weeks. Delegates from seventeen tribes were present, and the whole assemblage numbered some ten thousand Indians.

28.—THREE CHEROKEE LADIES. (Painted 1842.)

29.—TWO CHEROKEE GIRLS. (Painted 1842.)

30.—CADDY COVE, CADDY CREEK, ARKANSAS. (Painted 1842.)

Gov. P. M. Butler and party on their return from the council with the wild Indians.

31.—VIEW OF THE ARKANSAS VALLEY FROM MAGAZINE MOUNTAIN. (Painted 1841.)
32.—NATURAL DAM IN CRAWFORD COUNTY, ARKANSAS. (Painted 1844.)

33.—VIEW OF DARDEANELLE ROCK ON THE ARKANSAS. (Painted 1844.)

34.—ISHTON-NO-YES, OR JAMES GAMBLE. (Painted 1843.)

Chickasaw Interpreter. A young man of education, and speaks English fluently.

35.—WA-BON-SEH, OR THE WHITE SKY. (Painted June, 1843.)

Principal Chief of the Prairie Band of Potowatomies, residing near Council Bluffs. This chief is a bold and sagacious warrior, but possesses no merit as an orator; his will is submitted to his people through his speaker, a man possessed of great powers of oratory. Many of his war exploits are of a thrilling and exciting nature.

36.—OP-TE-GEE-ZHEEK, OR HALF-DAY. (Painted June, 1843.)

Principal Speaker and Counsellor of the Potowatomies. This man is justly celebrated for his powers of oratory. By his dignity of manner, and the soft and silvery tones of his voice, he succeeds admirably in gaining the most profound attention of all within hearing. At the council which he attended in the Cherokee nation he attracted universal attention, both from his eloquence and the singularity of his dress, the style of which he probably obtained from the Catholic missionaries residing upon the frontier.

37.—NASWAGA, OR THE FEATHERED ARROW. (Painted 1843.)

Principal Chief of a band of Potowatomies, residing on the waters of Little Osage River; he is distinguished as a bold warrior.

38.—THOMAS HENDRICK. (Painted 1843.)

Principal Chief of the Stockbridges. Of this tribe but few are living, and they have united themselves with the Delawares, with whom they cultivate the soil in common. This man speaks good English, and is very affable in his manners.

39.—JIM GRAY. (Painted 1843.)

Principal Chief of the Munsees, a small tribe residing among the Delawares.

40.—SHAB-A-NEE. (Painted 1843.)

An Ottawa Chief. This man is well known throughout the northern part of Michigan and Illinois, his people having formerly occupied and owned the soil in that region. During the late war he was one of the most prominent actors, and one of Tecumseh's counsellors and aides-de-camp. He says he was near Tecumseh when he fell, and represents him as having been stabbed through the body with a bayonet by a soldier; he seized the gun with his left hand, raised his tomahawk, and was about to dispatch him, when an officer, wearing a chapeau and riding a white horse, approached him, drew a pistol from his holster, and shot him. He and the remaining few of his people reside with the Potowatomies, near Council Bluffs, on the Missouri.

41.—SAUSH-BUX-CUM, OR BEAVER DRAGGING A LIMB. (Painted 1843.)

A Chippewa Chief. This man is chief of a small band of Chippewas, residing in Potowatamie country; these are more advanced in civilization than those living on the Northern Lakes; they are not unlike the Potowatomies in their manners and customs.

42.—CAPT. KETCHUM. (Painted 1843.)

A Delaware Chief.

43.—SECOND EYE. (Painted 1843.)

A Delaware Chief.

44.—RO-NAO-WHA, THE LONG TRAVELLER. (Painted 1843.)

Commonly called Jim Second Eye, Head War-Chief of the Delawares. Some years since, a small band of Delawares, while on a hunting and trapping expedition
on the upper Missouri, were surprised by a large party of Sioux, who fell upon them and murdered all but one of the party, who succeeded in making good his escape and return to his people. Second Eye immediately started with a small force to avenge the death of his warriors; after traveling several weeks, they fell in with the identical party who committed the depredation. The Sioux, anticipating an attack, retreated to a deep ravine in the mountains in order to defend themselves more advantageously. Second Eye, perceiving the many disadvantages under which he labored, but having an indomitable spirit, determined to surmount all obstacles, and obtain that vengeance which the death of his warriors loudly called for. He waited until all was quiet within the ravine, raised the war-whoop, rushed madly upon them, and massacred the whole party; he having with his own hands cut off the heads of sixteen Sioux, which he threw to his warriors to scalp.

He speaks some English, and is frequently employed by the United States and Texas as a "runner" to the wild Indians, with whom he carries on a very successful trade. He derives his name of Long Traveler from the fact that he has crossed the mountains to Oregon, and has visited Santa Fé, California, and the Navaho Village.

45.—AH-LEN-I-WEES. (Painted 1843.)

A Delaware Warrior of distinction in his tribe.

46.—CAPT. McCALLAH. (Painted 1843.)

Principal Chief of the Texan Delawares. This man is very influential among his people; he also exerts a great influence over the wild Indians, and his presence is considered indispensable at all councils convened either by the United States or Texas, for the purpose of negotiating treaties.

47.—PA-CON-DA-LIN-QUA-ING, on ROASTING EARS. (Painted 1843.)

Second or Assistant Chief of the Texan Delawares, and Principal Orator and Counselor.

48.—WAH-PON'-GA, or THE SWAN. (Painted 1843.)

Principal Chief of the Weahs. Once a powerful tribe, but now reduced to the small number of two hundred warriors. They formerly resided in Indiana, and are at present located with the Piankeshaws, about forty miles south of Fort Leavenworth, on the Missouri.

49.—QUAH-GOM-MEE. (Painted 1843.)

Principal Chief of the Shawnees.

50.—SHAC-EE-SHU-MOO. (Painted 1843.)

An hereditary Shawnee Chief.

51.—PAH-QUE-SAII, or LITTLE TECUMSEH. (Painted 1843.)

A son of Tecumseh. He has none of the extraordinary traits of character for which his sire was celebrated, and is of very little note in his tribe; he was in the battle in which his father fell.

52.—KEOKUK. (Painted May, 1846.)

Head Chief of the Sacs and Foxes. Keokuk is in all respects a magnificent savage. Bold, enterprising, and impulsive, he is also politic, and possesses an intimate knowledge of human nature, and a tact which enables him to bring the resources of his mind into prompt operation. His talents as a military chief and civil ruler are evident from the discipline which exists among his people.

This portrait was painted in the spring of 1846, on the Kansas River, where he, with his people, were temporarily residing after their removal from the Desmoines River.

53.—SAC CHIEF, AND FOX BRAVE. (Painted May, 1846.)

54.—KEP-PEO-LECK, or RED WOLF. (Painted May, 1846.)

55.—SAC WAR CHIEF, IN WAR PAINT. (Painted May, 1846.)

56.—WIFE AND DAUGHTER OF BLACK HAWK. (Painted May, 1842.)
57.—MEDICINE DANCE OF THE SACS. (Painted May, 1846.)

The Medicine Dance of the Sacs is performed once every year, for the purpose of initiating the mystery or medicine-men into this sacred custom of their tribe.

58.—THE CHIEFTAIN'S GRAVE. (Painted Jan., 1851.)

A form of burial practised by many tribes inhabiting the borders of Missouri and Iowa.

59.—FLIGHT OF A MOUNTAIN TRAPPER. (Painted 1851.)

The flight of a Mountain Trapper from a band of Black-Foot Indians, constitutes an incident in the life of Capt. Joe Meek, the present marshal of Oregon Territory. He was a native of Ohio, and early in life enlisted in the service of the American Fur Company as a trapper; in which service he spent eighteen years in the Rocky Mountains.

This picture represents one of the many thrilling incidents in his life, characteristic of the trapper and pioneer. Finding himself pursued by a large party, he hoped, by the aid of a well-bred American horse, to escape a personal encounter; but the Indians taking advantage of the broken country, soon overtook him, and were showering their arrows at him while in full pursuit, using their horses as a shield. Joe, reserving his fire for a favorable moment, selected the war-chief who was foremost, and, with well-directed aim, hit both horse and rider, which caused them to abandon the pursuit.

Joe was one of the early pioneer residents of Oregon, and one of its first representatives under the provisional government.

60.—THE TRAPPER'S ESCAPE. (Painted 1851.)

Joe is seen in the middle ground of the picture, waving his gun in exultation at his lucky escape.

61.—BLACK FOOT INDIANS IN AMBUSH, AWAITING THE APPROACH OF AN EMIGRANT PARTY. (Painted 1852.)

A composition characteristic of Indian warfare.

62.—TECHONG-TA-SABA or BLACK DOG. (Painted 1843.)

Principal Chief of the Osages. A man six feet six inches in height, and well proportioned, weighing some two hundred and fifty pounds, and rather inclined to corpulence. He is blind of one eye. He is celebrated more for his feats in war than as a counselor; his opinions are, however, sought in all matters of importance appertaining to the welfare of his people. The name Black Dog was given to him from a circumstance which happened when on a war expedition against the Comanches. He, with his party, were about to surprise their camp on a very dark night, when a black dog, by his continued barking, kept them at bay. After several ineffectual attempts, being repelled by the dog, Techong-ta-saba became exasperated, and fired an arrow at random, hitting him in the head and causing instant death. By this name he is familiarly known to the officers of the army and white traders in that section of country.

63.—SHU-ME-CUS8, or WOLF. (Painted 1843.)

A nephew of Black Dog, and a warrior of distinction among his people.

64.—CROW-SUN-TAH, or BIG SOLDIER. (Painted 1843.)

An Osage Chief and Brave; is about seventy years of age, vigorous and active. He together with a number of his tribe, were taken to France some years since by an American citizen for the purpose of giving exhibitions of their various dances.

65.—NE-QU-A-BA-NAH. (Painted 1843.)

An Osage Warrior.

66.—CHA-PAI-CAH-PA, or EAGLE FEATHER. (Painted 1843.)

An Osage Warrior. His head-dress is composed of the skin from the head of a buffalo, with the horns attached.
67.—THE OSAGE MIMIC. (Painted 1843.)

This picture is painted from an incident that took place in my studio at Tah-le-quah, in the Cherokee nation, during the session of the International Council, in 1843.

I was often absent for a short time, sketching, and listening to the various speeches made in council. My door being of rather a rude construction, fastened only by a common wooden latch, all Indians who chose had free ingress. Among those who paid me frequent visits, was an Osage boy, about seventeen years of age, by the name of Wash-cot-sa, an hereditary chief, possessed of an amiable disposition and inquiring mind. He seemed to observe every thing going on in my studio, and would endeavor to imitate any thing done by me. On one occasion I had been absent for a short time, and during the interim he and one of his companions sauntered in; and finding themselves alone, he concluded to try his hand at painting. He assumed the palette and brushes, placed his subject in a favorable position, and had made some few chalk-marks upon the canvass, when I entered; he immediately discovered me, and, dropping the palette and brushes and pointing to the canvass, said it was pe-shee very bad. I endeavored to induce him to return to his work, but to no purpose.

68.—AN OSAGE SCALP-DANCE. (Painted 1845.)

All tribes of wild Indians scalp their captives, save the women and children, who are treated as slaves, until ransomed by the United States Government.

On returning from the scene of strife, they celebrate their victories by a scalp-dance. The chiefs and warriors, after having painted themselves, each after his own fancy, to give himself the most hideous appearance, encircle their captives, who are all placed together. Thus stationed, at a tap on their drums they commence throwing themselves into attitudes such as each one's imagination suggests as the most savage, accompanied by yells, for the purpose of striking terror into the hearts of their captives.

This picture represents the scalp-dance of the Osages around a woman and her child; and a warrior in the act of striking her with his club, his chief springing forward and arresting the blow with his spear.

69.—KI-HICC-ATE-DAIH, OR PASSING CHIEF. (Painted 1843.)

Principal Chief of the Quapaws. Once a very powerful and warlike tribe, but now reduced to a small number; they reside with the Senecas. This chief is represented by the agent as being a very good man, and possesses the entire confidence of his whole people.

70.—WO-HUM-PA, AN IOWA CHIEF, AND THE ARTIST. (Painted 1843.)

It was with much difficulty that I induced this chief to sit for his portrait. I was anxious to paint one of his warriors upon the same canvass with him; to this he objected, saying that they were no good, and that chiefs only were worthy of such a distinguished honor; he insisted on being painted in the act of shaking hands with me, so that when the Great Father (the President of the U. S.) saw it, he might know that he was a friend of the white man. He is a great warrior, his arms bearing evidence of this fact, having been pierced with balls and arrows in several places from the hands of the Sioux. He was very particular as to the correct imitation of the painting on his blanket, which is to him the history of his war exploits. The hands represent the scalps taken from the heads of his enemies. I tried repeatedly to get some of his warriors to sit, but they could not be induced to do it without the consent of their chief. Such was their fear of him, that they dared not enter my studio while he was present without his invitation.

71.—KA-SA-ROO-KA, OR ROARING THUNDER. (Painted 1842.)

Principal Chief of the Wichetaws or Pawnee Picts.

72.—NASH-TAW, OR THE PAINTER. (Painted 1842.)

Second Chief of the Wichetaws or Pawnee Picts, and a brother of Ka-sa-roo-ka.
73.—RIT-SA-AH-RES-CAT, or THE WOMAN OF THE HUNT, AND BRACES OR BABY. (Painted 1842.)
Wife of Nashtaw, and Child.

74.—BIN-TAH, THE WOUNDED MAN. (Painted 1843.)
Principal Chief of the Caddoes. He derived his name from the fact of his having been
wounded in the breast by an Osage; he wears a piece of silver suspended from his nose, as
an ornament.

75.—AH-DE-BAH, or THE TALL MAN. (Painted 1843.)
Second or Assistant Chief of the Caddoes. Painted in the act of striking the drum.

76.—SE-HIA-AH-DI-YOU, THE SINGING BIRD. (Painted June, 1843.)
Wife of Ah-de-bah, seated in her tent. A view on Tiwoccan Creek, Texas.

77.—HA-DOON-COT-SAH. (Painted 1843.)
A Caddo Warrior.

78.—JOSE MARIA. (Painted 1844.)
Principal Chief of the Annularkoes. This Chief is known to the Mexicans by the name
of José Maria, and to the Caddoes as Iesh. He has fought many battles with the Texans,
and was severely wounded in the breast in a skirmish with them.

79.—KA-KA-KATISI, or THE SHOOTING STAR. (Painted 1843.)
Principal Chief of the Wacos. This man is justly celebrated for his powers of oratory,
being probably one of the greatest natural orators now living among the Indians. At the
council held upon the River Brazos, he was the principal speaker; and by his dignity and
grace of manner succeeded in gaining the attention and respect of these wild and untutored
sons of the forest, whose implicit confidence he enjoys.

80.—CHO-KE, or THE BOW. (Painted 1843.)
Principal Chief of the Natchities. This man had a brother killed by the Texans, some
four or five years since, while on a hunting expedition, whose death he afterwards avenged
by taking the scalps of six Texans.

81.—KECHIE-KE-ROOKI, or THE MAN WHO WAS NAMED BY THE GREAT SPIRIT. (Painted 1844.)
Principal Chief of the Towocconies, and acknowledged Chief of the allied tribes of Texas.

82.—KO-RAK-KOO-KISS. (Painted 1844.)
A Towoccono warrior.

83.—KO-RAN-TE-TE-BAH, or THE WOMAN WHO CATCHES THE SPOTTED FAWN. (Painted 1844.)
A Keechie Woman, wife of Ko-rah-koo-kiss.

84.—KOT-TAN-TEEK. (Painted 1844.)
Principal Chief of the Keechies.

85.—A BUFFALO HUNT. (Painted 1845.)
On the South-western Prairies.

86.—POO-CHON-E-SQUAH-EEP, or BUFFALO-HUMP. (Painted 1844.)
Second Chief of the Hoesh Band of Comanches, and head war-chief of all the Comanches.
This Chief was painted at a council of the wild Indians on the head-waters of Red River.

87.—PO-CHON-NASH-BON-NOC-CO, or THE EATER OF THE BLACK BUFFALO HEART. (Painted 1844.)
One of the principal warriors of the Hoesh Band, or Honey-Eaters.

88.—WIFE OF PO-CHON-NASH-BON-NOC-CO. (Painted 1844.)

89.—O-HAI-MAH-WAH-KEE, THE YELLOW PAINT HUNTER. (Painted 1844.)
Head Chief of the Ta-nah-wee Band of Comanches.

90.—NAI-MOOS-SU-KAIH. (Painted 1844.)
Comanche Mother and Child.
91.—A COMANCHE DOMESTIC SCENE. (Painted 1844.)

A Sleeping Warrior. Landscape on the head-waters of Red River.

92.—A COMANCHE GAME. (Painted 1844.)

This game is played exclusively by the women. They hold in their hand twelve sticks about six inches in length, which they drop upon a rock; the sticks that fall across each other are counted for game; one hundred such counts the game. They become very much excited, and frequently but all the dressed deer-skins and buffalo-ropes they possess.

93.—JOSE MARIA VIGIL ZUazo. (Painted 1852.)
94.—CARLOS VIGIL, EX-GOVERNOR OF PUEBLO. (Painted 1852.)
95.—JUAN ANTONIO VIGIL. (Painted 1852.)
96.—JOSE AHAYEA. (Painted 1852.)
97.—JOSE DOMINGO HERCERA. (Painted 1852.)
98.—BLACK KNIFE. (Painted 1846.)

An Apache Chief, reconnoitring the command of General Kearney on his march from Santa Fe to California.

99.—VIEW ON THE GILA RIVER. (Painted 1851.)

"About two miles from camp, our course was traversed by a seam of yellowish-colored igneous rock, shooting up into irregular spires and turrets, one or two thousand feet in height. It ran at right angles to the river, and extended to the north and south, in a chain of mountains, as far as the eye could reach.

"One of these towers was capped with a substance many hundred feet thick, disposed in horizontal strata of different colors, from deep red to light yellow. Partially disintegrated, and lying at the foot of the chain of spires, was a yellowish calcareous sandstone, altered by fire, in large amorphous masses. In one view could be seen clustered the Larrea Mexicana, the Cactus, (King) Cactus, (Chandelier) Greenwood Acacia, Chamiza, Prosopis Odorata, and a new variety of Sedge."

"For a better description of the Landscape, see the sketch by Mr. Stanley."—Lieut. Col. W. Emory's report to the Secretary of War.

100.—PIMO CHIEF. (Painted 1846.)
101.—PIMO SQUAW. (Painted 1846.)
102.—MARICOPA CHIEF AND INTERPRETER. (Painted 1846.)
103.—SHASTE SQUAW. (Painted 1847.)

A slave to the Clackamus Indians.

104.—ENAH-TE, or WOLF. (Painted 1848.)

A young Umpqua Warrior.

105.—TE-TO-KA-NIM. (Painted 1848.)

Klameth Chief.

106.—ENISH-NIM. (Painted 1848.)

Wife of Te-to-ka-nim.

107.—YELSTO. (Painted 1848.)

A Callapooya.

108.—STOMAQUEA. (Painted 1848.)

Principal Chief of the Chinooks.

109.—TEL-AL-LEE. (Painted 1848.)

Chinook Squaw.

110.—QUATYKEN. (Painted 1848.)
111.—DR. JOHN McLoughlin. (Painted 1848.)

Former Chief Factor of the Hon. Hudson's Bay Company, and Founder of Oregon City.

112.—GOV. P. S. OGDEN. (Painted 1848.)

Hon. Hudson's Bay Company, Oregon.
Principal Chief of the Willamette Falls Indians.

Willamette Falls Squaws. This group belongs to the great family of Chinooks, or Flat-Heads.

This Chief is one of the Tlickitack Tribe, and the principal Chief of all the Indians inhabiting the Columbia River, from Astoria to the Cascades. In the plenitude of his power he traveled in great state, and was often accompanied by a hundred slaves, obedient to his slightest caprice. The bands over whom he presided paid him tribute on all the furs and fish taken, as also upon the increase of their stock, to support him in this affluence. He was the petted chief of the Hudson's Bay Company, and through him they are undoubtedly much indebted for the quiet ascendancy they always maintained over these tribes.

It is said that on visiting Fort Vancouver, his slaves often carpeted the road, from the landing to the fort, with beaver and other furs, a distance of a quarter of a mile; and that on his return, the officers of the Hudson Bay Company would take the furs, and carpet the same distance with blankets and other Indian goods, as his recompense. He is now an old man, having outlived his prosperity and posterity, to see a once numerous people reduced to a few scattered lodges, which must soon disappear before the rapidly growing settlements of the adventurous pioneers.

Principal Chief of the Walla-Wallas, commonly called by the Hudson's Bay Company, Serpent Jaune.

Principal Chief of the Cayuses, and one of the principal actors in the inhuman butchery of Wailetpu. Was hung at Oregon City, June 3d, 1850.

One of the chief Cayuse Braves, and son of Te-lo-kikt, and one of the active murderers of the Mission family.

Cayuse Brave. The great ringleader and first instigator of the Wailetpu massacre—was hung at Oregon City, June 3d, 1850.

Cayuse Brave and son of Tum-suc-kee. This man, though young, was an active participant in the massacre of Dr. Whitman, and committed many atrocities upon the defenceless captives. He escaped the ignominious death which awaited those not more guilty than himself.

Massacre of Dr. Whitman's family at the Wailetpu Mission, in Oregon, 29th of November, 1847.

Abduction of Miss Bewley from Dr. Whitman's mission.

A Nez Percé Chief.
139.—KEOK-SOESTEE. (Painted 1847.)

A Pelouse Brave.

130.—VIEW ON THE PELOUSE RIVER.

131.—PELOUSE FALLS.

This beautiful cascade is situated about nine miles from the junction of the Pelouse with Snake River, and is estimated at three hundred feet in height. According to an old tradition, the Great Spirit caused this barrier to rise, to prevent the salmon from passing to a band of Indians living on its head-waters, with whom he was displeased.

132.—VIEW IN THE CASCADE MOUNTAINS.

133.—VIEW ON THE COLUMBIA.

135.—THE ARTIST TRAVELING IN NORTHERN OREGON IN THE MONTH OF DECEMBER.

136.—VIEW OF MOUNT HOOD.

137.—CASCADES OF THE COLUMBIA.

138.—THE GREAT DALLES BASIN, AND VIEW OF MOUNT HOOD.

139.—SEL-LIM-COOM-CLU-LOCK, or RAVEN CHIEF. (Painted 1847.)

Commonly called Ugly Head. Principal Chief of the Spokanes, or Flat-Heads, residing on the waters of the Spokane River.

140.—KWIT-TEAL-CO-KOO-SUM. (Painted 1847.)

Big Star Chief, a medicine-man of the Spokanes. Whenever a person is sick, this tribe supposes that the spirit has left the body, and hovers invisibly in the air, until it can be charmed or brought back through the agency of the medicine-man. To accomplish this end, the patient is placed in a sitting posture, enveloped in a buffalo-robe, or other covering, having only the top of the head exposed.

The medicine-man then commences dancing and singing around the patient, gesticulating mysteriously, and often clutching in the air with his hands, as if in the act of catching something. The spirit is supposed to be attracted by the chant, and to hover near the aperture at the top of the lodge; and the dance is often continued for an hour before it can be caught. It is then pressed and rubbed, as the medicine-man pretends, through the patient's skull, whose recovery, if not soon effected, he supposes to be thwarted by his having caught the spirit of some other person; and it then becomes necessary to undo his work by setting it at liberty, and repeating the performance until the right spirit is caught.

Spokane Chief.

141.—KAI-MISH-KON, or MARKED HEAD.

Spokane Brave.

142.—KAI-ME-TE-KIN, or MARKED BACK.

Spokane Squaw.

143.—PA-SE-LIX.

144.—TIN-TIN-MA-LI-KIN, or STRONG BREAST.

Stony Island Brave.

145.—HI-UP-EKAN.

Stony Island Squaw.

146.—LAH-KIES-TUM.

Stony Island Brave.

147.—SO-HA-PE.

Chief of the Priest's Rapid.

148.—WAII-PUXE.

An Okanagan Medicine-man.

149.—KO-MAL-KAN, or LONG HAIR.

Okanagan Squaw.

150.—SIN-PAH-SOX-TIN.

Okanagan Squaw.

151.—VIEW ON THE SPOKANE RIVER.

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CATALOGUE OF INDIAN PAINTINGS
BELONGING TO THE
GOVERNMENT COLLECTION.*

1. Sting Ioway ........................................ (King, 1828.)
2. Shing-yaw-ba-wus-sen, The Figured Stone ....................... (King, 1827.)

Painted by C. B. King from a drawing by Lewis, 1827.

4. Pe-a-juk—A Chippeway .................................... (King from Lewis, 1827.)
5. Am-eiquon, Wooden Ladle ................................... (King from Lewis, 1826.)
6. Mo-nee-kaw, He who goes under ground ........................ (King from Lewis, 1826.)
7. Tu-GO-Nis-co-TE-YEH, A Chippeway Chief .......................... (King, 1828.)

Zilpa—Cherokee Chief (King, 1827.)

9. Waee-mate—A Creek ........................................ (King, 1825.)
10. YoosTO, Spring Frog ........................................ (King, 1837.)
11. YoHOLO-MICO—Creek Chief .................................... (King, 1825.)
12. YoHOLO-MICO—Creek Chief .................................... (King, 1825.)
13. PAH-GUE-SAH—Son of Tecumseh ................................ (Shaw.)
14. TAH-COL-A-QUOT—A Sac ..................................... (King, 1825.)
15. KEESWEDA, The Sun—Fox warrior ................................ (King.)

These Paintings are arranged on the east and southeast walls of the Picture Gallery.

* These Paintings are arranged on the east and southeast walls of the Picture Gallery.
38. **Tah-ro-ho-tah, Plenty of meat—**Ioway...........................................(King, 1837.)
39. **Ap-ta-noose-o-ke-maw, A chief when a child—**Sac..............................(Cooke, 1837.)
40. **Ca-ta-ne-cas-sa, Black Hoof—**Shawnee Chief..................................
41. **Pah-she-pah-choo, Stabber—**First Chief of the Sancy; a Sac............(King.)
42. [See 22.] **General Push-ma-ta-haw—**Choctaw Chief..........................
43.
44. **Kai-pol-e-qua, White-nosed Fox—**A Fox Chief...................................
45. **Ke-we-din, The North Wind—**Chippeway Chief.................................(King from Lewis, 1827.)
46. **Wa-cha-mon-ne, Partisan—**Ioway...................................................(King, 1837.)
47. **Whesh-laub, The Sweet—**.................................................................(King from Lewis, 1826.)
48. **Tia-mah, The bear whose scream makes the rocks tremble—**Fox Chief......
49. **Wa-top-e-not, The Eagle’s Bill—**Fox...................................................(King from Lewis, 1826.)
50. **Nah-te-luc-i-il-pie, Little Doctor—**Creek Chief....................................(King, 1825.)

The red spots on his dress mark the balls that he received when he was surprised in his hut. The three lower balls were lower than marked in the picture. The paint on the face is commemorative of the same event, as the blood ran from his nostrils and mouth.

51. **Coosa-tustenugga—**Creek Chief.........................................................(King, 1825.)
52. **Kee-me-one, Rain—**A Chippeway ......................................................(King, 1827.)
53. **Opotile-yoholo—**Principal Chief of the Creek deputation to Washington in 1825. (King, 1825.)

54. **At-te-coor, The Young Reindeer—**Chippeway Chief..............................(King from Lewis, 1827.)
55. **O-tya-wa-nim-ee-hee, Yellow Thunder—**Chippeway Chief.....................(King from Lewis, 1827.)
56. **A-na-cam-o-gush-i-a—**Chippeway Chief from Rainy Lake.....................(King from Lewis, 1827.)
57. **Waa-kawn, The Snake—**Winnebago.....................................................(Ford from Lewis, 1826.)
58. **Hoo-wau-nee-kaw, Little Elk—**Winnebago orator of the Car-ray-mau-nee family. (Ford from Lewis, 1826.)
59. **O-chee-na-shink-kaa, The man that stands and strikes—**Winnebago...........

60. **Pa-shi-xiie, The good marksman—**Chippeway Chief............................(King from Lewis, 1827.)
61. **Wa-he-kans-he-kai—**Winnebago...........................................................(King from Lewis, 1826.)
62. **Wa-de-la-oo-he-kana—**Chief of the Winnebagoes....................................(Ford from Lewis, 1826.)
63. **Mi-co-a-na-pas—**Second Chief of Seminoles; owns 70 slaves....................(King.)
64. **Na-ke-wa-ke-sug-ha, He who strikes two at once—**Otoe............................(King, 1837.)
65. **Way-kee-chai, Crouching Eagle—**Sancy Chief; Fox..............................(King.)
66. **Caw-taw-waa-bee-ta, The Snaggl'd Tooth—**........................................(King.)
67. **Yaha-hajo, Mad Wolf—**Creek Chief...................................................(King, 1825.)
68. **Folke-tustenugga, Craggy Clay—**Seminole War Chief............................(King, 1826.)
69. **John Ridge—**Cherokee Chief. Secretary to the Creek delegation to Washington, 1825. (King.)

70. **Selota—**Creek Chief; a distinguished warrior; fought under General Jackson. (King, 1825.)

71. **Tuskie-hu-tustenugge, Little Prince—**Creek Chief..................................(King, 1825.)
72. **Jack-o-fa, The Six—**Chippeway Chief...................................................(King from Lewis, 1827.)
73.
74. **Le-shaw-loo-la-le-hoo, Big Chief—**Pawnee Loup....................................(King, 1837.)
75. **Nau-kaw, Wood—**Of the Car-ray-mau-nee family. Principal Chief of Winnebago deputation, 94 years old....................................................

76. **Don Vincente Guerrero, former President of the Mexican Republic—a distinguished chieftain.**

77. [See 33.] **Keo-kuk, Watchful Fox—**First Chief of Sancy...........................(King, 1829.)
78.
79. **Pee-peh-ker, Buffalo—**Chief of Chippeways.............................................(King, 1826.)
80. **Apau-lu-Tustenugge—**Creek Chief......................................................(King, 1826.)
   (Cooke, 1837.)
82. A-misk-quew, The Spoon—Menomina War Chief..............................(King, 1827.)
83. ————A Chippeway Chief.................................................(King from Lewis, 1827.)
84. Oloe, Oz—Mahara.............................................................(King, 1827.)
85. To-ca-cou, He that gives the first wound—Sioux of Missouri..................(Cooke, 1837.)
86. Ha-sa-za, Elk's Horn—Sioux of Missouri...................................(King, 1827.)
87. Ammi, He that comes for something—Yaneton Sioux...................................(King, 1837.)
88. Mah-ne-hah-nah, Great Walker—Ioway Chief....................................(King, 1837.)
89. Pes-ke-le-garo—Chief of the Republican Panis...................................(King, 1837.)
90. Au-pantan-ga, Big Elk—Mohas Chief; a great orator..............................(King, 1837.)
91. Man-chousia, White Plume—Kansas Chief...........................................(King, 1837.)
92. Terre-ki-tan-ahm...............................................................(King, 1837.)
93. Is-ca-ta-pe, Wicked Chief—Great Panis..........................................(King, 1837.)
94. Chou-ca-pe-o-tos, Half Chief...................................................(King, 1827.)
95. A-she-au-koc, Sunfish—Sac Chief..............................................(King, 1837.)
96. Mar-ee-om-e-ta, Bear's Oil....................................................(King, 1837.)
97. Raut-che-waime.................................................................(King, 1837.)
98. [See 143.] Red Jacket—Seneca Chief..............................................(King, 1828.)
99. Teus qua-ta-wa, Open Door......................................................(King, 1828.)
100. (Cooke.)
101. Ne-o-mow-ne, Walking Rain—Ioway.............................................(King, 1837.)
102. Waa-pu-ta-ta, Playing Fox—Prince of the Foxes................................(Ford from Lewis, 1826.)
103. Nau-che-wing-oo, Yo Heart—Ioway.............................................(King, 1837.)
104. Pee-nash-ka, Fox winding in his course—Chief of the Foxes....................(King, 1837.)
105. Wah-bawn-see, Causer of Paleness—Principal Chief of the Potawotamies. (King, 1835.)
106. Wa-pella, The Prince—Fox................................................................(King, 1837.)
107. Holato-mico, Blue King—Seminole War Chief...................................(King, 1826.)
108. We-ke-roo-tau, He who exchanges...................................................(King, 1826.)
109. Cor-ba-map-ya, Wet Mouth—Chippeway Chief......................................(King from Lewis, 1827.)
110. Ma-hong-ya—Osage...........................................................................(King, 1830.)
111. Ne-ho-tustenugge, Deer Warrior—Seminole Partisan War Chief..............(King, 1826.)
112. Es-me-boin—Chippeway Chief.......................................................(King from Lewis, 1827.)
113. Cut-ta-tase-tia—Fox.........................................................................(Ford from Lewis, 1826.)
114. Pa-nan-se, Sheding Elk—Sac...........................................................(King, 1827.)
115. Catooose—Chippeway Chief..............................................................(King from Lewis, 1827.)
116. ————A Sioux Chief...........................................................................(King, 1827.)
117. O-kee-ma-kee-guiud, The chief that speaks—A Chippeway...................(King, 1837.)
118. Governor Hicks—Head Chief of the Seminoles...................................(King, 1826.)
119. Waa-na-ta-ta, Grand Chief of the Sioux...........................................(King, 1826.)
120. Kis-te-kosh, One leg off—Fox brave..............................................(Cooke, 1837.)
121. ————A Fox Chief...........................................................................(King from Lewis, 1826.)
122. Oc-gan-gee-wack—Chippeway Chief...................................................(King from Lewis, 1827.)
123. Kai-kee-kai-mah, All fish—Chief of Sankys........................................(King, 1837.)
124. Ochto-finico, (war name,) CHARLES CONNELLO, (English name)—Creek Chief. (King, 1825.)
125. She-tah-wah-coe-wah-mene, The sparrow that hunts as he walks—A Sioux....(King, 1837.)
126. Tshi-zhun-kau-kaw, He who runs with the deer—Of the Day-kau-ray family. Winnebago Chief..................(King, 1827.)
127. Wau-kaun-hah-kaw, Snake Skin—Of the Day-kau-ray family...................(King, 1827.)
128. Abtoway, Paddy Carr—Creek Boy....................................................(King, 1827.)
THE SMITHSONIAN INSTITUTION.

129. No-din, Wind—Chief of Chippewas...........................................(King.)
130. Chou-man-i-case—Otoe, half chief; husband of Eagle of Delight.
131. Rant-che-wai-me, Ma-ha-ka, Female Flying Pigeon, Eagle of Delight.
132. Wa-em-boush-haa—Chippeway from Sandy Lake...
133. Much-a-tai-me-sha-ka-kaik, Black Hawk...................................(King, 1837.)
134. Ioway................................
135. Major Timpoociiy Barnard—A Creek Chief...................................(King, 1825.)
136. Much-coo-maim—Ioway..................................................(King from Lewis, 1826.)
137. Ki-he-ga-mawe-she-she, Brave Chief—Omahaw..............................(King, 1837.)
138. Ledagie—Creek Chief......................................................(King, 1835.)
139. We-re-roo-taw, He who exchanges—Otoe..................................(King, 1837.)
140. Kaa-kaa-huce, Little Crow..................................................(King from Lewis, 1826.)
141.  
142. Toma-hake-take, The warrior who speaks first................................(1826.)
143. [See 98.] Red Jacket—Seneca Chief...........................................
144. Keokuk, Watchful Fox, and Mu-sen-wont, son of Keokuk, Long-haired Fox.
...........................................................................................................(King, 1827.)
145. Chippeway Squaws.................................................................(1826.)
146. Chippeway Squaw and Child.......................................................(King from Lewis, 1827.)
147. Tschusick...................................................................................(King, 1827.)

OTHER PAINTINGS.

M. Guizot, the celebrated statesman of France, painted by Healy.
A BATTLE SCENE.
THE MASSACRE OF THE INNOCENTS.
A CARDINAL.
CAPTAIN JOHN EVANS.
A TURKISH SULTAN.

The Paintings in the Apparatus Room are rough sketches to illustrate lectures. The largest represents an ancient Indian mound near Marietta, Ohio; another the Mosque of St. Sophia, at Constantinople; another the English Houses of Parliament; and scenes in Egypt, Turkey, &c., &c.

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The course of Study includes most of the solid branches taught in our colleges, and all the Ornamental Branches any where pursued, embracing a period of four years, subsequent to a juvenile or preparatory course. Pupils, however, may receive a partial education in optional branches, or leave at any point in the regular course. Its completion entitles the pupil to the diploma.

Physical Education. The grounds of the Institute embrace an area of nine acres, one-half of which is laid out in a garden and lawn, surrounded and intersected by gravel walks, ornamented with arbors and shrubbery and flowers, cultivated with a large artificial fountain, and the whole secluded from public gaze by a dense border of forest and ornamental trees. In addition to this, a large hall, eighty feet in length by forty-five in breadth, is fitted up with the most complete arrangements for calisthenic and gymnastic exercises, where the pupils may engage in attractive sports, and under the guidance of an accomplished teacher, practice exercises adapted to give development and grace to the proportions and movements of the physical system.

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PITTSFIELD, Aug. 11, 1858.

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Rhees, William Jones
An account of the Smithsonian Institution

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