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# PREHISTORIC MAN IN AMERICA 

BY

DEAN HARRIS

Printed by
THE RYERSON PRESS

To

## VERY REV. JOHN L. HAND, dean of toronto

This book is affectionately inscribed
by
The Author

## PREFATORY NOTE


 Theprerto.



 to the stadent of preliistorie times.

It only remaine for me th thank the Ifomomrahle the Minister af Filluation.



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"Man:- primitive condition was that which corresponds to the hwest type extant, the Anstralian and Papunt the further back emquiry is pushed, surh oulture as exists is found to have been preceded by barbarism. The savage races of to-day represent a comblition out of which all raves ahow the savage have emerged."
--" P'ineers of Evolntion," Edward C'lodd.
If St. Paul warns us against perplexing omretves with vain and endes: genealogies, it may be thought that the study of prehistoric man is incholed among those of the Panline vanities. It seems like a waste of time to tromble ourselves with prehistoric man. We know nothing and-waiving the secoud chapter of Genesis-can know mothing of primitive man, With Profesor Branco we ran safely say: " We know abohntely no anestors of the human race, for all fossil remains of human lowigs are the remains of gemine men, strlh as we are now."*

It is imposible to dieretse athtropology with a man who goes hatk two or three milhons of years fur his facts. Moreover, the Christian, when meeting the objections of popular arientists. has a right to demand argments more cogent than the "it is prohable" of Professor Osinmen: "posilhy a million of vars" of Dr. Wallace: or the "may bes" and "might hes" of Professor Eiliott. I thousand "may bes" and "probables" are not proofs and mitil those who oppose Christianity furnish us with something more tangible than sulpusitions
 damaging they may sem. Few minds, evell of a superior urder. comsent to hum their idoks and for want of arguments they suppes truths opposed to the opinions they hold: they quiblle, hut do not surrender. Back as far as 18ins, the Fremeh naturalist, Lamarch (Antoine de Monet) foumber of the scheol of organic evolution, essiged to prowe that, in remote ages of the earth, mature developed varieties of beings from spedirs. which varieties beeame in time distinet speries. He rontended for sucessive or progressive links of production till. in time, man himself was exolved from a heast. He also asserted that the higher attributes of the human mind were but the expansion of the faculties of brutes and differed moly in qualite from the sagacity of apes and dogs. $\dagger$

From the begiming of history until our own c..ly we have not hede able to diseover any such development as Lamarek, the fommber of erolution adrucates. The beaver buids his honse just as he did ten thomanel sears ago, the bee

[^0]consi "ucts his comb precisely as he did when the Grecks were thundering at the gates of Troy. and the ant has not ehanged itself or its habits since Solomon advised man ', go to him for eneouragement to industry.

In 1832 Benjamin Constant startled his generation ly reviving the theory that the first man was a savage. He published a book to prove his contention, and, after building up a wonderful strueture of plausibilities, possibilities, sophisms and arguments, rested his case. Constant, at once beeame, like Theodas. a " somebody;" and his followers relegated to the ash heap, as exploded doctrines, the Biblieal accome of ereation, the birth of Adam, original sin, and the Relemption of Man. Then came Auguste Comte, who in a series of wonderful chapters, pulverised the argmments and citations of Constant, and prowed bevond the possibility of a duubt that man was evolved from an extinet lemur whose fossil remains were found in Madagascar. About 1860, Scotel and English philowophers, scientists, and anthropologists, began a very stubborn and menacing attaek on the veracity of the Biblical marrative of the creation of man, the inmortality of the human soml, and man's accountability to a Higher l'ower. ('larles Darwin, Herbert Spencer, Stuart Mill, Professor Husley, Sir John Labbock, and lesser lichts, attacked the Mosaie account of the origin of the homan race and challenged the inspiration and authenticity of the Bible itself. But in time, the air clarified itself, and, to the surprise of the philosophers of science, the stubborn scotel and English nobility and people stood four square in defence of Christianity.

In the Enited States Dr. I. W. Draper and Professor John Fiske, of Harvard, allied themselves with the Darwinian and the Spencerian battalions. Dr. Draper in his very clever and persuasive book "Itmman Physiology, Statical and Dynamical," traced the origin of man back to a molecule-an almost infinitesimally small substance-and its development in millions of vars into a man. Dr. Theodore Nicholas (iill, Dean of American Naturalists, said to be one of the most learned of American biologists, derlared in a lecture on "Our Ancestors Before the Ape," delivered in Salt Lake City in 190., that: "If we go back beyond the mammals and fishes, amphibians and dipuoans, we are eonfronted with a vista of interminable length, through soft loodied forms extremely different from anything now living, but resembling a skull-less transheent vertebrate, or a sea squirt which we find attached to stomes and shells. Man's further ancestry is lost in an indefinite and immmerable series of worm-like things belonging to the earliest period of our earth's history. It now remains for some professor with a reputation to fearlessly assert that man never had a beriming, but always was, and then lhis interminable dispute over man's origin will, like the longest day, come
 themselves semotists, ontologists, traditionalists, and librah, handeel with great polemic ability attacks against ('hristianity, which have been trimmphantly repulsed. In the early part of the nineterenth century ('bristianity was attacked in its separate members and parts, but to-day the eitadel itself is theatened and supernatural religion as a reveraled, historic: or phihesophice ereal, is now on its defence.

Since the time of the homan perserentions there has never berol a period demanding from the apologists of reveated reliz a a more concelopedic or critieal scholarship than the age in which we are now living. Ministers of religion, professors in miversities, and members of mang sorieties of lemring and research have consciously or uncomserionsly encomraged atheists. deists and rationalists in their war our religion-a war which owes its pmpularity not so murh to the prominent

[^1]names of its, leaders as to a craving for "rain things" and a determination to destroy all belief in the supernatural.

Free thimkers, deistr, agumatics, atheist + , skeptics, ratimalists, matural seientists, and an army of magazne writers intlat with the ileas and expressions of men cleverer than themselves are in the fielo. and, if Christimity le perishable it is doomed to death, even if fater not to die.

Is a consequence of the sermons, addresses and writinge of these ambitions men, whose atacks on the Mosaic retorls are circulated by newsapers, magazines and the socialist press, the masses are losing faith in the existene of ciod, in rewarls, and punishment for sin, and in the immortality of the soul. In time morality most disappear, national claracter suffer anm rivilation itself be imperilled. ${ }^{+}$For all history proves that, withont religions sanction's and deerces, morals decline and civilization itself deeays. The fomulation of all morality is religion, for it is a fmomental primeple that the rivilization which br ieves and worships (iod lives. and that when it loses this belief and worship it decays and dies. Beyond contradiction religions belinf ponetseses a "snrvival value"; it is thee mortar holding the mits, of a nation in sorial harmome: Even the hathen knew this. "Let us flater ourselvers as we will." said ('iorro." we shall never surnass either the Gank in valomr, or the Spaniatis in numbers, or the (ireeks in genins. but by religion and the fear of the gools, wn (exee all the nations of the worit."

The polemic abibity and the skill with which a full divisiom of arguments and plansible proofs i: mobilized to attack the Christian tremeses is marvellons. Perhaps the most serious and threatening damem to sme ruaturalism comes from the camp of the philosephers of science who profess to ignore the ". ality of Claristianity and a belief in a revelation. They are satisfied to searel trath in the material, or com tic order, ignoring altagether the existeme o. on the possibility of a spiritual world. and, dethroning priests of religion, they establish a hierarchy of science. What Christians rall levelation they irand as sumerstition and that which Christians deplore as infidelity the scientists slority as independent thenght. "sremee." writes Tolstoy, "lusing ihe religinus foundation, turns to the study of nomsense and mainly ceases to stmely the importami, sime there came into existence the experimental sciente. But there is cone eternal. universal teaching of truth for me, for all of nis, experially clearly expressen? in the Gospels. As som as one maderstands this temehing lie enters into a union with (iond, and there is mothing that 1 cali tell him." $\dagger$
 inventiv" science, langh down and ri.'ienle what the: are pleased to ceall "pretensions of "hristans:" suress in arrmulating mone or in "onstrustive art emboldens these materiaises to spak with authority on the most profome probiems. involving the existence of fowl the inmortality of the somb and the duration of eternit:.

Because a man hows something of chertricity and homistry. we of granite. (g) s. feldspar, mian, silex, and boras and "an talk learuchly of mineral deposits and of the different geological ayse of our carth, mat it also he assmum that he is eminently qualited to intellisembly disense and ofle abstrase problems of theologry philosophy, history and civilization?

[^2]Lately there has appeared around the arena of polemics a timorous aggregation of cherics aspiring to reputations and calling themselves members of the "School of Higher Uriticism." The "school" is composed largely of the pastors of fashionable clurches, and of university professors without any denominational affiliation or any distinctive ereed. With their eya- pell and wit! fall deliberation they are contributing their elopuence and lenrning to the destrnction of ala that makes for the permanency of Christianity. In his great speech, delivered at Oxford, Nor., 186t. Mr. Disraeli, afterwards Lard Bemeonstield, dues not hesitate to stigmatise the members of this sehool and their views as enemies to Christianity, to the permanency of the British Fmpire, to law and order. After dwelling on the unrivalled extent of the Empire. the decay of faith anong the English masses, and the attacks on the Bible msidiomsly delivered by some within the Christian camp, he contimes: "Will these opinions (those of sefientific biblical eriticism) sureeed: 1s there a possibility of their success: My romerietom is that they will fail-for two reasons. In the first place, having examined all their wrifings, 1 believe without any exception, whether they consist of fascinating eloqnence, diversified learning, and pieturesque sensibility-1 speak seriously what 1 feeland that, too, exereised lyy one honored in this miversity, and, whom to know is to admire and regard (Dan Sfanley) : or whether you find them in the eruder eonehsions of prelates (Bishop Colenso) who appear to have commenced their theologieal studies after they have grasped the erozier, and who introduce to soeiety their obsolete discoveries with the startling womder and frank ingeniousinss of their own rava, es: of whether I read the luculbrations of nebulons profesors, who seen in their styte to have revied chas, and who, if they conld only suceed in obtaining a perpetmal stuly of their writings, would go far to realize that eternal punishment to which the wheret : or lastly whether it be the provincial arrogance and the precipitate self-romphacency which flash and flare in an essay or review, I fime that the common characteristie of their writings is this-that their learning is always secomed hand."*

At a time when a certain brand of infidelity had berome fashiomable, and was deemed a mark of distinction in the lomblon chans, Disrach fearlessly challenged the intellectual sanemess of society. With all the strength and power of his eloquence he eontended that: "Whaterer man may be biologically or physiologically he is something more: and this something more. which transcends all biological and physiological science. is the most cesential ead distinctive part of his being." "The stientific world," writes Mr. Buckle, is now coming around to Disracli's opinion." The conrse of events. Mr. Buckle adds, has largely justified the prediction spoken in 18ibt, that "The Trutonie rebellion against the Dwine truths entrusted to the Remifes" wonld ultimately meet with the fate of "the Celtir Insirrection of Voltaire and the line elopectists." . And he further adds that the inability of science to take the place of religion is murh more widely admitted than it was in the days when Husley and Tymball flourished. All of which goes to show that mo matter how powerful or colshing the fores of materialism may be. in the end the moral and sipitual fores. which give character to a people. survise and trimph.

There was never a time in the history of Christamity when believers in Revelation lowked the enemies of the Supernatural more stomily in the face than to-day. Christianity stands now, as in the time of Julian, the Ipostate. for

[^3] investiga ion. Werotion tor ('leristimity does not chase our exes to the disemeries

 ment aganst onr faith in Revelation. The hmat of the (i, rman freothinker. Von Hollad, that "stience has seized religion hy the hair and branded indetibly
 Prusial swoter.
$W_{i}$ are satisfied that the author af hevelation is alsu the anthor of somence* and that in the final amalsio bevelation and mienew will fore into a divime mity.




 facts made sure les wervations and whtained hy arefol and repeated experiments.


 anl (blemy of the homan rave.


 his ereen or opinions mall be. But the man, hey whaterer name he may eall

 odium upon or bring into contempt that which is held sacred lig bis meithbours, is worthy of the coutempt of his frllow man." $\dagger$

Scence is in posession of it. own territury. but bevomel that territary lies a whole region of emgiry. on which it has, and can have, no right to treipass.
 1903 . " is modoultedly ann alfair of the intelleet: it examines ewrething in the mold light of reason and that is its strength." But Divine fath is alowe remon. it is supernatural-aloose nature-and, therefore mutside the domain of mindee $\ddagger$ The real scientist. before entering unou his chosen fied will dismiss all projulice, all anmosity and dislike for creeds and persons and bring to his insestigations and independent mind, for "the kernel of the scientifie ontlowk." writes Bertrand Russel, "is the refusal to regard our own desires, tastes. and interests ats atfording a key to the understanding of the world."

No great sementist of the past or of to-day has disomered anything contradieting the philosophic truth that God exists ur that the soul is immortal. If the disenceries of adiene have at all affered these truthe it is to add rividness and cogener to the argument from design by minfesting the narvelloms order existing in nur material worh, and the superiority of mind ower matter.

* "Goil is the Master of Sideuen "-" Dens Scientiarmm Dominus est."-T Kings ii. 3.
$\dagger$ "Les Martyres "-Introduction.

> Whom we, that have not sera thy faes,
> By faith, and faith alone, embraer.
> Bulicving whore wer cenmot prove."

Trumuson"s "In V/fmoriam."

The masters of veience have not denied the existenee of (iond or the immartality of the sonl.* Men of little minds, or men trained nlong the single line of ohserving things of sense alome, deny these essentinl truths. Not finding the soul in a test-tnbe and failing to observe (ian reacting to thoir reagents, they conclude there is neither cool, nor immortality. The spiritnal world is leyond their conception. Mny of them have been influenced, pasibly unconscionsly, hy the prevalence of the assmmption that one mark of learming is the denial of honored truths. The study of in little prycholugy and maturul theology would convince them that the great triths they profess to deny belong to the realms of pure philosophy and theology and are no less scientifionlly demonstrable than are sperific yrmvities.

The emplatic and solemn mjunction deliserel to the sages of the bewish Sanhedrim by the wemerable damaliel, stands to-day in its prophetie charater as menacing as it was two thomand rears ago. when the Apostles promed in the vestibule of Herol's Tempre. "Ye men of lsad, take heed to yoursher what you intend to do. . . . . for if this comed (the ('hristian ('hure h) or if this work be of men it will come to monght. But if it be of (ionl, you camot oni throw it and yon may be fomud fighting against food."
-Ants of the $A$ pestles. (Cinb. V.


First man and woman. Gonesis, Char. 1.

## A HISTORIC PDRALLAEL.

While disensing manis origin, on rational primeples. it is most important to distinguish hetweell asertainable facts and scientife hypotheses. Scientifir suppositions, deating with early man, have been so eloquently exploited and popmlarized that people are disposed to areept them as facts of authropology. It demands great conrage in a writer to deng that all men in very remote times were savages, hout as far as history goes back-and beyomd history is moldosity and chas-we know that "ivilized man always was. "Everything" writes the oriental traveller.

[^4]Dr. Stein, "ebrythiny I saw in ('himn was to me widence of the immense antiquity of a high civiliontion and of the urtistie development of the Fiast."*
I)r. A. I. Clas, I'rafesor of Oriental literature. Vale ('nivorsity, is uf the
 that the emrliest peoples, instemal of being barbmens or :undented, were vivilized and mosesessed a ralture of athigh arder." $\dagger$

I'ortions of the Bible excepted, listury shows ns risilization and larparism existing side hys sidu from nmmemorial time as they exist side loy side to-day,


Primitive Man, the Pitheranthropas Ereetas. A comectition of J. II. MeGregor of the Ape-man of Java.
and this, in the worls of Sophochos, "is not a matter of to-day or yesterias. lant hath been from all time, ami nome ran tell us when or law it rame."

When a writer has lost faith in the suproatural and surrombers himsi $f$ tu



[^5]which is bint "theory-such, for example, as the evolution of man from a worm or the ascent of civilized man from a savage. For sticnee, it it means anthing, iopplies demonstration leading to stern truth. Huxley in his " (olle ted Fissays" left ms min alvice that may help to perpetuate his memory. He salys: "hive umpalilied assent to mopronsition the truth of which is not so dear and distinet that it camot le doubted."

Now the evolution of man from what Herbert spencer termm a "highly differentiated portion of the carth's ernst and gaseous conshone," or what ir.
 belonging to the carlinst period al our eurth's histors," or his astent from a prelistoric savage is far from being a demonstrated fact. Nor will we admit, in the fare of the phitosophy of ammons sense, that these theories are, as Mr. bidwarl Chend chaims, " selfeevidem."

## SAVAGE MAN.

The attack on the Mosaic areome of tice creation ol man, was opened in modern time bey Voltaire. In his "Philosophy of Mistory" he comtemberl that the human race had its begiming in a condition approaching, amb, in somm resperts, inlerior to that of beasts. He wrote: $\cdot$ No $^{*}$ only a promigions extent of time, but fortunate comblitions ubo, are necesary that man may raise himselt abow the life of sumaks." Voltaire led the way in paths which, now well troulden and familiar, were then comparatively nompened. Sinee the days of the "Phiosopher of Ferney" the semse of unhelief and unrest has berome one of the chict characteristies of our age.

There serms to he a determination on the part of our semeration mot only to inherit and perpetuate the errors of all preceding times, bint to do away with the supernatural entirely. Now sophisms of surprising ingrouity and new seductive arts are invented to augment spectous argments of assinult which hase been a thonsand times victorionsly answerel and refuted. It is a perpetuation of the Voltarian protest against the Providence of (iod, which, with great forere and ingemity and with exceptional vehomence and animosity mourufully marked the eightemth century as an age of unbeliof.

If, with Virchow, Eric Wasmann and Zittel, we cannot hold as one of the result: of scientific researeh the doetrine that man is deseended from an ape or from any other animal, neither can we accept the contention that primitive man was a savage. Lyell's triumphant refutation of Lamarck's theory of the origin of man and the Duke of Argyle's demolition of man's deseent from an ape practically ended a controversy which threatened the peace of England. The opponents of Revelation having ahost uanimously abandomed the Lamarchian deseent of man, are returning to the Lucretian theory of the primitive savagery of the human race.* A, the scareh for the Pithe-the animal intermediary hetween man and the apu-has proved a hopsess failure. the priceless ift of

> * Yet man's first sons Leading with misajle stones humed lives of leat and in eaves dwelt :

Their naked limbs with herles And leaves entwining."
 of manis deacelt from a benst mod his primevil sampery.








 sate of homanity, down to the latagomian. the almost intureile Probweraio. and

 origin of mankind, and the propur fomblations of the andill compart. in the
 dengencracy mut degradation."*
 From the dawn of the reign of the fine whopetists, themry rose besidn thenery med

 man. Voltaile in his. " History of the lhasians maler leter the dirent." informe


 ported the theory of eleven distimet tumilies of the laman rater and berybe de St. Vinemt extended the number to lifteren. Viltaire denied the pesibitity of at diluvian catactysm and when luntron shawed him marine shelts gothered from momutain rerets, Voltaire said they were only frenks of unture. $\dagger$

## R1:MAINS OF EALI.Y MAN.

From the remains suppli. asil-vidding strata or liswitherons heds of ancient streams and from old 1. gravels and limestone cavern-, many students of anthropology profess to have ample proofs that primesal man was a savage. From dhiped flints and bones separated from the stalagnitid dep.its in Kent's eave. near Torquay, Enghand, and from the supposed? worked flints which II. Boneher de lerthes foumd leside bones of a wooly-haired olephant or mamoth, and with those of a cave bear and other mammals in thr" "drift" or grawel pits of Ableeville, in liardy. Profesor Reed-Moir womh have us: arkowledge these finds as proofs of man's primitive savagery. Wuring his lecture at a rement meeting of the layal Anthropologicol Soricty, he axhilited many paleolithic .ant
 hammers, a bone needle. shreds of crode pertery and a large fosil chphant-hone. dressed down to a point. From these exhibite and from homan remains, chielly skulls and frogments of skuls. fomd in eaves. dry washes ami pravel-pits within

[^6]
 antignity of man wal hio original savage state.
'These skulls amb fraghents have beron fonnal in different rounties and at difforent times, they ure claseitionl as the:


 Maner Simuls in 190\%.


Original Men. An Assumption hy W. J. Thomsom.

(1) 'The Nemerthal, Monteriam ame the ('haperle ans Saints skall-.
 Iniversity, Sylney, Anstralia. It was fomml near Talgai, in the Darling Downs. Quemsland, aml is rompletely mineralizent. Then there are Arimalali skeletoms, the (ro-Magnon remains and many whers fomal in raves in Framer and spain.
 lilinos-stome. dawn stomes) whid some anthropologists helieve to he the earliest form of thols, or weapolli. Insed hy satige man.

## 











 fraguents of prisinutic llimts.









Sor is there ally manmity of opinisu onf the hithphare of the fir-t man

















 and false. We necept as trac that which is prowe to be true. but we demand of those who bring ngainst the supruatural wrigin of man ohjertime from sumen
 simply an induction, an hymothewis, a thenery, an romerptime.

[^7]We remember Husleys brilliant introduction to his solume of essays in whith he mentions how he rame to appear before the world as an antagonist of the faith of his fellow countrymen. He began his stuties, he intorms ne, with no particular bias grainst the Clourch of England, or aguinst ang church, but with the simple desire to incestigate eertain fact- of the visible miverse. But wherever he went in his tour of insestigation, he tells us. he found his path barred by notice-boarts bearing the warning: "No thoronghfare: beremer of Mese." Ife lived to lelp in remoring these boarts but when Christimi apolugists entered the path well wom bey him and his admirers, they were arrested by signposts carrying the inseription "Heal elosed; by order of Darwin."

## PROBLEM OF MAN:S ORIGIN.

The problem of man's wrigin belongs not to experimental soience but to metaphysies and theologry. Mr. Ellintt apree intes this. to some extent at least, and is driven to remark that: "The common sense of mankind whether in civilized or savage commonities, draws an mmistakable bestalary between the lest animal and the worst man. But if we are to attempt to detine this limit, we womld at onee be confused in perchologital and metaphesimal subteries which. A., wever definite they may be, never seem to lead to a definite resinlt."*

Here then is the pith of the prohlem: the solution of the sum of man's origin lies outside arolution, and evolntionists will mot, or cimmot, see their way open to diseuss the problem on higher than material grommds. There is mother admission tom, quite musmal in bowks of this kind. to this effect, that every point emphasizel hy him in his " Prehistoric Man" is always a " matter of probability." Such a dedaration disarms controversy and heals the eritical reader to overlook the "may bes" and "might have herens" seattered here and there on its pares.

The contention of Voltaire in his " Philosophy of Histore" and of Sir John Lubhock in his "I'rimitive Comdition of Man." that the savage is the trpe of original man is largely held to-lay by non-(Christian seicntist:. In an article printed in the Scientific American (January 30. 191.5) Profesor W. I'. Pyeratt, of the British Museum, supports the savage-man theory, adrancing nothing new and supplying no strength to arguments already triumplantly met and demolished by the Duke of Argyle in his essay on "Irimeval Man."

## TIIEORY OF PROGRESSIVES.

'1 ne theory of what is now known as the "School of Scientific Progress" is included in two assumptions:
(a) That the primitive life of the hmman race was the savage state, or that of utter harlarism, and-
(b) That the race rose from savagery to the highest civilization yet attained, by its own cnergy and without any supernatural aid.

Now, this theory. at its lest, is hut an asimpution, a conjerture, an hypothesis and is not sidelce. It is not a fact demonstrably true or histurially known or


[^8]facts. The English political selhow of Hobbes, Dhams simith and Thomats Malthes anticipated the Progressives many vears. for they also dealt with man as originally a savage, struggling with hemists amb his hman brother for existemee and fimally ntaming to civilization by is own efforts. So. likewise, thomght Roussean. Von Iolbach, and the Fremeln Eucerelopedists. But. like their sureessors, they were not able to substantiate the in clams.

The eommon practice of those who. in the name of sienee pretend to contradict Christian tralition, of bringing foward an unproved and mprowable theory, or hyputhesis. and then insisting on the heliever in Divine inspiration disproving it, or else surmbering Christian tradition, is meither logianl. mor seientific. "Admit an alsurdity once." reads an whaniom, " amd ansthing will follow."

It is for the progressives to prose not for us to disprove, their theories. hypotheses, conjectures and guesses. Till they are proved they are not seidere and make nothing against Christian inheritane. Profesors M.Curdy. V:lliott and W. P. Pyeraft draw a very chaborate and partially true picture of the montal and social state of sarages, but-and a very important omission-they forget to prove that primeval man was a sarage.

Progress of individuals and even of nations in colture. wishom, virtue and religion, by the stndy of tralition, hermign inthemed sumerior instruction and aid, there has been and will be: but no man ever did or can, bey his own inherent enerey or massistet, indigemons effint, rise from the savage state to a plane of even partial, exilization.

## MAS NOT PROMRESSIVE.

The life of the savage run- from genmation to gemeration in the same mualterable growe. His temeley is ever downard or he is. in a aromise a perified man. The history of the hman race mone carth is more a reword of deterioration than of progress. Neither mentally mor phesially hat man improwed in ten thousimed years.

Profesor Flinders Patrib. an achmowledged authority an all that wherems Eyptian history and archacolug. write in his "Romanoe of Early ('ivilization." - Whe have now before us a view of the powsors of man at the earlidet peoint to which we all trace written history and what strikes mest is how her litthe his nature or ahilities have changed in serent thomsamb yars. What he admintent. we mbmire : what were his limit- in fine hamliwork are also omes. We may hate a wider outlook, a greater mulderstanding of things, our interests may hate ax-


 "The World of Life:" " By a wemeral where owe the marly history of rivilized man I have shown that there is little, if ange aridence of alsanere in eharaster or in intelled from the earliest times of whid we have any remerl."

 if his limitations in fine hamdiwork. amb his tastes and abilitios are malteremb. what asinrane have we that he will make ang proprese in intellett. or advanor-


and Rome, or, for aught we know, Es, pt, Persia, Chaldea and Assyria. Far from making further advance in civilization, all these nations have retrogradel, supporting the contentions of Pfister, l'atrick and Frend, that man, left to himself, will be ge:erned by his passions a.d inclinations and fall away from the restraints of law and order.*

## TIIE SAVAGE-A PETRIFIED MAN.

But of prehistoric man we know nothing: we only know that so far as history goes back we fiml nothing but a record of high civilization and barbarism existing side by side. We also know that the theory of original savagery is unhistorical, for there is no record or example of a sarage tribe becoming by its own spontanecus and unassisted efforts a civilized eommunity or people. All the historical authorities known to us agree on this, and there is not in all history an example to the contrary. But we go further and believe that not only is there no example or record of a savage people becoming civilized wits own unassisted efforts, hut that it cannot be proved that any tribe sunk in the lowest savagery has ever, by any means, attamed to civilization. And we advance this because the most pronounced characteristic of the savage is his idleness and meprogressiveness, mentally and socially. Time enerts mange in his habits, in his condition, ar in his statiumariness.

And now, before the theory of the lescent of man from an ape is open for discussion, the progress of the savage to the phane of civilized man must be proved. The explorers of Afria, Burton, Stanler, Livingstom, Speke and Grant, found the negroes of the west const and equaturial Africa as savage and brutalized as they were in the time of Herulotus $2 . \mathrm{fiOH}_{\mathrm{i}}$ years ago. In that long interval of time they made not one solitary returning step to the civilization their forebears or ancestur: had lost. The description of the savage tribes, the fish-eaters. eastward of the Persian (iutf, given ber the companions of Alexander the Great, four humbed vears befure the Christian Era, applies in its entirety to them as they were seventy years agu when the traveller, Bruce, visited them. Schomburek and Charles Warburtm, the explurers of Cinama, deelared in their writings that the Irowak, Macoushi. Aroway Indians and the Carihs uf the mainland and islands womld have remainel savares till the end of time if the Spanish missionaries had not Christianizel them.t The companions of otmen in his historie failure to molonize Lawer Califurnia in $16 \mathrm{~s}: 3$ remurted that the "Digreer Lhmians" of
 a precial interposition of demb. rise from their unsumahle degradation.

Fane to face with these fines of history, confroment with the written amb
 that the Darwinian "frow-pawn" or the "worm-like thing" of the dean of American matnraliots, after millines of vears of transmatations and mutations:

* "This is the moral of all hman tales:
"Tis hatt the sal reluensal of the perast.
First frembom, then ploge: when that fails.
Wealth, viere momption, harharism at last.
Ind history with all her volomes vast
lath lut one page."

Byron:s "Chilhe Harohl."

[^9]become a thing called an ape, which, after other millions of rears, developed into a thing called a savage, who, after hundreds of thomands of rears, expanded into a Eniversity I'rofessor or a Viceroy of holia. There may be instances where a savage or harbarous tribe became a eivilized people, hut there is no cxample in history to show that it becmue so he develoment from within itself. But, it may be objected, were not the British and German tribes immersed in savagery when Caesar soldued them: The Britons and Germans: at the time of the Roman invasions were barbarians, not savages. The ancestors of the perple now inhabiting England and Wales, that is, Celts or Kelts and Tentoms had not, at any time, ever desended to savagery. They were in a state of secondary harbarism, held fast to saded traditions preserved by their Drmids and retained mame of the elements of an inherited civilization. Ther were neser immersed in pure savagery. The Teutons. (iermans or Gothe were, nerorling to (ibhon in his "Dertine and Fall of the Roman Empire" descembants of the white Seythians mentioned by Herodotus and were never deseribed as pure savages. They had their own religion and their own civil laws, their own towns or villages, were an agricultural people and subject to a code of laws and rules framed and selected ly themselves. From what we know of them by tradition and listory their harbarism was preferable to pagan civilization, for they hat more iepert for marriage than the lionams and Greeks, hetel female chastity in higher exterm. had more regard for their pledged word and were not so atroeiously ermel.
 Persians, Chinese, Phoenicians, Chaldeans and Hlindoms, had mo savage ancetors. or. if they had, tradition has no memory of them.

We learn from the researches of (aptain Darby, who for many yours was French Consml at Hang-Kem and a diligent student of Chimese history, that under the dymaty of Chin-mong, three thomsand yars hefore the Redemption. all Chinese doemments and ancient records in writing were collectend. codiliod and transeribed on parchment, and this was dome at a time when the trikes ol Enrope were harbarians acerding to the rescarclee of he baron.*

The heroid age of hadia comprised a very lome period, and, writes Hessher, "the beriming of this perion is lost in an immensity of time: though we kime that it conded about ome thomsand vare helore (Grist." Alt of which gene to show that the peeple who wandered finthest from the parent home of the race. where all "were of one tomger and one speede." fell the lowest, white others who remmed nearer the original seats of the race retained their divilization.

## NO INTELLECTI Al PROORFSN.

 is altugether withomt ang suppert from hitury. . It the revords we hase of the


 liberty and to the frealom of their shbigets. Their whest works of art are the

 mondurn times.

[^10]The early Romans were morally and religionsly sherior to, and less superstitious than, the Romans under the Caesars, whose monstrosity in crmelty and in the glutting of abomal desires, aceording to their own writers Catullus, Martial, Lueretins and others, stagyers belief. If the monstrons moral and religions degradation of the Romans be trotts of history, then the decline and fall of the Roman dimpire was a blessing sent bye God to the human race. We do not know when or from whom the (ireeks got their civilization-probably from the bigytes is or Phoenicians-but we do know from the testimony of Strabo, the geographer. that in his time-the time of the Redemption-the fireeks were a decaring and decomposing people. The two greatest prets of Cireece, Itesiod and Homer, were the carliest ; the best elements of Greek philosophy, the wisest, the most just and -alutary of the laws of the Inellenice repullies were the oldest. Men, even educated men, who are so perfectly sure of progress from century to century, and that progress is the rule of national life, ought to remember that in philosophy we have not improved on Plato and Aristote, in literatare mpon Homer or Aeschiylus. or in scolpture and architecture on Phidias and Ictimes.

The dignity and smblimity of the Book of Job, the Epies of Homer, and the
 and the Instructions of Ptah-Ifotep are not surpassed by the code of Sapoleon. All the races who equalled and, in a selse, surpased in intellectual achievements oun modern races have retrograded and are, today, intellectually barren. Each of these mations, after attaining to a high level of civilization, Enevitably deedined : the Fellaheen of Leypt. the wandering Bedonin and the mongrel (ireek are not in the same class, intellectinally. with their torelears, becadence, and not progress, has markel the careers of these races. In America the Mayas, Quiches, Tolteres and lernvians (judging from the remains of their ardhitecture, their calendars, mud their traditions) reached a high material civilization and are to-day a pauperized and semb-barmans people.

IIerleet spenerer colle said that nearly all the savage tribes on earth furnish evidener of having fallen from a higher estate, and Man Muller dectared that there are few. if anys, of the most derembed races of mankind whese languge does not suggest lager vorabularies than those now used bey them.

Careful perusal of the findings of modern seience minst convince ang impartial mind that the skeletal remains of prellistomide man are cloquent of one great truth. These remains tell us that primeval man had murla the same cerebral organization which man has: to-lay and, wa may infer, he hate just as high an intellectual and moral nature.

These remains prove, if they prose anything, that man* (arlest state was good and that, before he becmue a savage. he was a high and met io ereature.

## 

It ought to be patent to men of common sellos that the dired ar indirect influener of Christianity and the coforement of bins made for the goverment
 la:: ramot reath nor religion intluener a commmity, barharism, in time, will
 vemethists of cur own lay have arowed the fromtiore of evilization inte barbarism. The story of the Momtana cut-thonts, tohl by Thomas Dimsiale, ame the history
 them, of the desent of evilizen man to samery whon momentmen by far of

 towns and rural districto lave some men and women who ure law-ahbiding eitions

 tralition, as halt-marks of stupidity and superstitiom.

The traditions of not only the (irefks and homans, but of wearly all anciont
 of the human race, that is, an age of hish vivilization antelatings sangery. Wie
 lingers:" kinwlage comes to the seneration lint wistom (trultions) lingers in the race ne a loracy from the past. To do away with tralition and rest with the sophists upon arguments apmaling to the indivilual as phasible mud probable. is to disewn our inheritane of wishom from past ares. "The prellisturie state
 as evilenese of the primitive combition of man and of a primitive revelation.
 are adsancer as sulfieient to has down the defenco of (hristanity. But as
 part supports the other, is, aln it to be the trene and hrief way of rebutal and -mpresesion of all sorts of ohs tions." $\dagger$ The voice of what. torlay, is rallerl
 dists oppose the order ef ereation as related her Mases: phesinhurists deny the

 in the studs of their soienere, testify more and more to the primesal disision







 Old Testament are in anorel with many ol the remarkable fiats writton on the memments recently uncoverel in the histuri- hands waterel by the 'Tigri- and Euphates rivers

These newly diswerem tablets and terra-wital writing trimphantly har withes to the truth of the statement of the ethurerapmist. Balhi. that " n .
 Bowk af Mases: hat with them, on the contrary, agre in the mest remarkathe





[^11]one hundred years: "God made man from the beginning, and left lim in the hand of his own council. He added His commandments and preeepts. Before man is life and death, good and evil. That whieh he shall ehoose shall be given to him." Ecel. Chap. XV, vs. $14-1 \%$. No seientifie theory, no cumningly worded hypothesis "no gospel of dirt, teaching that man has deseended from frog-spawn through monkeys, can ever set that aside."

## Appendix.

## (Wote 1, p. 4.)

During his lecture on "The Insect Progeny of Adam's First Wife," delivered in the hall of the "Amertan Mhseum of Natural Itistory," Professor Robert 1'. Dow declared that "Eve wa not Adam's first wite. Dany years before, he married Lillith, a bonde with hair like ropes of gold." He claimed that Lillith's second husband was Beelzebmb. Her children ly Beelzebub were all inseets. Mr. Dow hased his anthority for his statements, he claimed, on researches he had made into antiquity.*

What opinion must thonghtful men have of the intelligence of the trustees of the "American Musemm of Natural Ilistory." who temered the hospitality of their lall to lobert P. Dow. No wonder sensible men are protesting against the infliction umon them of a small army of the Theodore Nicholas Gills and the Robert P. Dows.

$$
\text { (Note 2-Grouflh of . } 1 \text { theism. p. \%.) }
$$

Dr. James Henry Leuba, Professor of Psyhology at Bryn Mawr College, Pa, has given to the public replies received by him from American sociologists. biologists. perchologists and teachers in miversities and other institutions of learning in the Finted States as to their belief in the existence of (iod. More than fifty per cent. of the answers show absolnte mbelief in a persomal God. and forty per cent. deny the immortality of the soul.

Dr. Lemba informs us that if the men who answered his letter: "do not inchade all the intellectual leaders of the United States, they certainly inelude the great majority of them. Most of them are teachers in sehools of higher learning. Thore is no class of men, who, on the whole, rival them for the influence exerted on the edncated pmblir ant mon the yomg men from whom are to come most of the leaders of the next generation." $\dagger$
(Note 3-1'ollaire, p. 14.)
." Voltaire asserted in one of lis books that the fossils fomme on the tops of monutains were not mariue seells but lusus maturne-freaks of natnre. Buffon, when Voltaire risited him. placed side bes side on a board, shell: newly gathered on the sea shore, and fossil shells from momatain tops. When he told Voltaire he lad only to cast his eyes upon the hourd to be convinced of his error, the philosopher refinsed to examine or evell to look upon the sperimens, turned and left the room."

[^12](Note 4-Tendency to Sarager!, p: 26.)
H. Von Buttel-Reepen in his book. "Man and His Forerunmers." furnishes a brief compendium of prominent writers dealing with the devohtion of man. He contends that, from archarologionl science founded on recent exavations and eave discoveries, man's tendeney is towards harbarism and savagery. Man, and all things such as domestic animals and phats, when left to themselves temd to degeneracy. The author belongs to the Darwinian school. and the most interesting passage in his book is that in whith he says: "It has never. of conrse, been believed in seientific circles that men are desednded from apes." On the contrary, the professor continnes: "Man is not descended from the ape, but, the ape from man." But, he adds." it wonld be well. however, to take this theory cum !rano sonis." Are our natural sifentists vidtims of cemamia, and must we say with Festus: "Murh lemrning hath made them mad."

## II

## PREAMBLE

In the Nittiomal Ceogrophic Menazime for Fobruary, 1916, there mpreared a
 by Coloned Theodore Ronsevelt. While the Colonel does not aboblutely aceept all the hepotheses of Irofessor Oiborn's books. still he lemels us to infer that he is in intimate sympathe with many of the theories advance! in " Men of the Old stome Age." lrofesor (Osborn has enlaged upon, and elaborately developed, Darwins lyperthesis of the deecent of man from mape. But he nowiore malertakes to arecount for the evolution of the nie. We do not beliese that the Irofessor would care to true his ancestors back to nsea shell, as diul barwins grand father, whos family seal carried the lexend: "Omia ex condhis "-" everthing from a lam shell."

The author of "Men of the Odd Stone Are" throws luck the first appenrance of man-ax-man into the metic twilight of an moknown pa-t. hamitent of thousands. of yeare before l"sher: biblical time." when the earth was wid and empty and the pirit of ciod mower wer the waters." Profesen Wiborn gives to us 100 startling information on mans origin beyond what was alrealy known to biropean and Amerian paleontologiste. What har does do. however. and dews well. is to dothe the theories. hypotheres and shmentions of the larwinian show in a new and fasematingy attractive dreso which apleale to the imarination, if not to the judgment, of his thughtfal readers. The womderfal oeffelereption and the amazing *kill which many, who are called serintiots, celhihit in their efforts to destere all
 man. What is the solntion of this alleterions problem: I: it, as: Raskin telle us, becalise:-

- In peneral all falere reasoning come from men having some false notion in their heart- with which they are reselved that their raminim shall romple."

To place Faith and Nocience in a state of perpetalal collision. We when Faith is
 int h": "Ifistory of Literature" (ontends. to he the avowed intent of mondern ariontiots. By this manifuld and hoste sparation, belide in the supernatural is leaving our homes, and the wetraning intluener of Faith. Hope and Charity. in their vital action on the momal comber of the mases. i- diap peraring.

The "pilome of most of the seientifie contributions to the disenssion on the origin of man fully justifis: Nowman': anertion that " to-lay mistimes is the mother of wiodom." To dralify as an aceredited writer of "popmar seienere." yone mist be larse in statement. hoad in ontlowk, varne in leduction. and mystie in diction. The theory put forth hy Prof. Odmern. and tentatively endorsed lyy Col.
 by the Superintendent of the Archavolorient bepartment of the Buard of lidmeation for Ontario.



 avowal from Harwins: " Wearent of Man," "Onr progeniturs diverged from the
 Ins that: "Cope remolers it probable that the ape anderetor of man livel in Surth Amerisa. The anapomorphas was a lomor rather than a monhey. amb hat a

 the very thing to be proved.
 shed their brute skins, were hairy. half-makel things. stemed in the fown sumary.
 of Christimity: womh dertroy all helief in the inspiration of the Masaic writiare. and hy impliention. Wonld make the Jinister of Filunation of the year of the





The chaciation and aroptame of all trath. rome from whom it may. is as
 science amd Christianity.

 man's origin tu all ape. still the lact of comberting the heast intu a man womlit he int


 give to mam an immortal soml ar a reasming mind. Science has not proverl, amb in all likelihuml nowe will prose. that mun the rartl there was ar is ally heing with caparity to evolve thonght or think rationally. salo man alome.



 have the same risht to disheliwe ewhation as they have to disbelieve the Bible.
 they have to be agnotio.s abunt onr ('hristimity.

## 

Sixty years agn the intellectual world was diviled intu wrat hoothe rampe hattling over the origin of man. the exohtion of the serise. amil primeval man.



(1) "Origin of species by means of Natural Aelections." "Descent of man ant selection in relation to sex."
(2) "Origin of eivilization and the primitive condition of man."
(3) "Inaugural Alliress before the British Ansuriation."
(4) "First Principles of the New Nystem of lhilinophy."

The ('hristinn cohorts, murshalled under the leadership of St. (ieorge Mirnrt (5), Lord Arumdell Wardour (i). The Duke of Argyle (i). Grestes Brownson (8), and Cardinal Wiseman (9), defended the entrenchments of Christinnity.
(5) "On the Genesis of Species."
(B) "Tradition; with reference to Mythology and the Law of Nations."
(7) "The Primeval Man; an examination of some recent sperulations.'
(S) "Darwin's Deseent of Man."
(9) "Connection hetween Seienee and Revealed Religion."


A Modern Ape Mas.
('rewn from life by W. Thomrson.)
The eomparative weakess of the forese now aligned arainst the Christian religion, and the exhanstion of high exphosises, at one time in posersion of the invaders on ortholox morithy. is a propitims angury that the war between the erolutionists and the defenders of revelation $i$, like all wars of long duration, approaching a final issue.

Those among us who in other doys, worshipped Kint. Haeckel, Fichte, Nietzarhe and Berulardi as "sunermen." now realize that we were bowing to men of clay, whese ereeds led to the logical resmlts of Teutomie harharitice in Belgium and to rontempt for written contracts. These we re ther who opposed all natinual morality. demener and doan living. hat we were ton blind to perceive the mdeceney of the paintings in our admiration of the colours and the execution.*

[^13]The most honoured and praised of the seientists of Enghand and Frmere in the last century, lig public repute, were the Huxleys, the Tyndalls, Layells, l.mbluseks, Barwins, spereers; the Cometems mul the Cosmints or Exolutionixts, men whe
 diges:"ve tule open at loth ends "-die of envy.

In France they were antieipated by Voltaire, Holmach, l'Alamlert., ind the two Rousseaus, who hastemel, if they did not bring on, the Fremeh lewolut m, nel who, under cover of the homonrable mumes of philosiphy, progress and liberty, partinlly suceeded in sapping the very fommations of religion, murnlity, divilization, and even of society itself. In the writings of these nern were comented the germs of social and religions ruin: out of them urose the rowets of free thothoth, serptician. aghusticism and utheism. These ment threw religion into the dis ard of ohl and usless things mul, ineidently, cleared the stage for Davial llume and his sidowl of Einglish-speaking maturalists. Tiring with Hume mad Bulinghoke, mang restless opirits fuwned on the pasitivist Comte, and in time, heroming diansterl with his frigid, naturalistic ereed, they turned and worshipped Herhert Spencer, fombler of the sehool of pructical evolntion. His ngmostir reign contimes in some form to-day, thongh sighe nre not winting that it is maring its cond.

The talents and ingentity of namy of these writers were marvelloms, and any religion which coulh survive their attacks and romtimut to flomrish, mut le smerhuman, and need fear nu future foes, for the future is not likgly to furbish abler men or to devise a more consummate stratery:

## Theom of Fidolution.

 Hunting." we had thonght that among men of high intellectual attainments the controversy now whed for sixty yenrs on the desernt of man was at an emo. The learmed Profesor nssures us we shall have to go "n boge way bat in the pant to find the parting of the ways between the anceremes of man and that of his nearest of kin mong the apes . . . the evohtion of the hman brain trom simian type involves a tripling of the superfieial area of the cerehral mortex."
 follow the origin of man back to a beast and emforse his inability to meront for his original birtl. Ite writes: "Althongh we have min opinion that all mimals may possess germs of mentality mol morality, it will he seren that for this smblen
.anse (from irrational to rational) and staths mo ral explatation hats heen offered." Further on he adds: "In the ohlest and most widely remb of all bows
 condition of seicure and of man himself."*

And mow enters Mr. Filwaril Clodd. who asenres us on the faith of a gronthom and a sholar that: "Without slonlt the intherome of the comelnsimes inedneible from the theory of evolution is fatal to helief in the sumernatural." ("lioneers of
 fay stress is, of course. the reolution of the Ipr-Man. This evolution is rither

 means that a position thing called an ape with a perishable somb turned in millins: of years into a perishable thing ealled man, with a rational, if not an immortal. soul.

[^14]Ther rapture of Constantinople alone antleed en ernsh the ppirit of anciont

 of thomplt and netion in mun, with tho impulse and instinct in the brute.



 Drawn he M. Masmo.


 man luse his wits.

The more of there beok- we real, the mene we ate coms ine of the truth of the

the systematie categories, min the more ehoely we npprond the chief types of the
 we we fimally forced to .owlong that the insommption of a momophytetic erll. and the evolution from it on she whole mimal kinglom of orgnnic life, is at delightind drean without any merentifie support."

## S'TVEMENT UF THE: ('Wf:

It is seffervident that miny then'y of evolntion that contratiets ir ation and
 therefore to Christian tritlo. Thongh woblion in some furm gows lark to 'Thales

 He pontembed that rimirmment and iomlitimas tembed to develop and alter the hathits and impulves and con the orgams of nuiblals. Theor elanges in animul structure wre trmamited th thoir olfopring. Ile wa* ably apported by Geotfroy Saint Hilaire, whe premethed the doetrime of the mutnhility of surcies and embryotie change. In $18: 58$. Wfred linseell Winhace und Charles Dhrwin origimetel a new sy:tem of evolution which they called the Law of Nintural Solection. The fullowing year, 1859, Darwin published his " Origin of Species." whieh fell as an explosive shell in the (hristime cmmp. He fomrlessly prochimed that man himself whs the result of matural seloetion, and was: hut a higher type of animal producel by a long series of transfomations: that. in reality, he was an develiped hrule with in sumerior intelligence. In his letter to Sir Charles Layll he shls: " O. s aneestor was an anmal which hrentheel wher, had a swim hadher, " yreat swim-
 to state, howerer, when nul how animel instinet hernme haman intelligence, or wherein the spirituml sonl of man differs wentially from the sonl of a brute. The favourable reeption aceorlen hy many mivancel thinkers, and particularly by young mid enthusiastie stulents, to the theories ndanced in Darwin's "Origin of Speries," did more to imperil the fath of ortholor believers in hmman intelligence, as distimet from mimal instinct. than dill all the argmments and examples adilured by the seientist himself. Such was the perpularity and influence of Darwin's writings that no refutation of his argumento, huwever conclusive, met with a favourahle reecetion, and for years nearly all seientific works, romanes and morels ware punetuated with the Darwinian plerases: "The missing link." "Sntnral selectinn." "Survival of the fittest." "Strigery for existemee." "The weah to fow wall," ame similar epigrammatic sayings.

While evolution in some form will pasilly remain a permanemer, the theory of the derivation of man from the ape or from any uther animal, is buriod heynd the hope o' resurrection.

Alfred Rusell Wallape, whose syitem of evolution was in aecord with that of Darwin, and who, eonjointly with him. read, outhe tame day, a papmo on the subjert before the Limaman Society. Lombin, refisell to go hapl: to an upe-man. He eontended for the divine origin of man and the spirituality of the homan soul. saying that man was an expeption to the laws of natural selpetion, aml that food guided the development of man in a ileflite dirediom mol for ormi - metial purpose. Thomas Carlyle considered Darwin's ape-man an alsurdity.*

[^15]
## The Ape-Man.

We will dismiss the argment of the physical resemblane in the structure of the ape and of man by a citation from the great bumbller, who, in his erudite book, "Man or Ape," says: "The testimony of comparative allatomy is deededly against the theory of man's desecut from the ape" ( $p .5: 9$ ).

If it be permissible to arge from resemblance to desent. Wr have the same right to assert that the ape is a degenerate man, as they to insume that man is but a higher type of the apre. Nareowr, where in ave or musembs, may be found the remain: of the anmal briging the ehasm between the brite ape and the fully developed man: Thongh the existing forms of animal life have bedo stmbed and all forsil remains carcfully eamined, that which is pempurly called the emissing link" has mot been fumd. When Mr. Barwin wa- comfronted with this problem he alroitly evaled it lig asoming that the prowfo of a mising link were probably


 master: alone exasion of the dillieulty, asoure us when writing of the antho-
 that ther salu-al after articulation, and thore when attainel to it (i.p., opech) are Aryans, whether of Asia, or wh the sumered contiment of Athatis."

 band in the Pracifir, that there was cine a Lemurial in the Intian Ocem. or a contimental Athantis in the Sthantic:"

The distingmisheel seientist. liutohph Virchow, in the Congres of Anthoopolo-

 links that are suppesed to comenet man with the ape. The primeral man, th:

 they comble trace the evolution wf the ale into the man: to-lay we are mable to trace the lerivation of one race of men from another. No race of men has yet been discovered which can be desigmated as apish or hali-ipioh . . If ain be elearly shown that in the course of five thousand years no appreciable change of type has taken place. In Virchows tratt on " The Liberty of sidence." we read:
chut 1 must say that no skull of ape or ape-man which combld have hat a human posensor has ever yet hern fomd. . . . We mamot trach, nor can we rugarel as nue of the resulte of haman research. the dowetrine that man is descentond trom the ape or from any other amimal."

At the Comgres of Naturalists and lhwsicians asembled at Wiewhaten. Prussia. Virchow deliverel the inangmal adrese which dealt with the progress of hology mul anthropology. Treating muler ite domble vision prehistorix and historic man from the aspert of ileveloped anthropelugy. he expoundel at considerable lemgth the theories now held her adraned thinkers. It may be of interest to mention that anthropulog, which treate of man in his natural gromps and formation, involves the stmely of all haman characteristice. physieal, pathological. physological, and also his moral. sorial and political aptitules. Virehow chamed that, as reqares prehistorie antlironology: "Every positive adrance which we made in that study had remover ns further than before from ans proof of acolation to be fomm there. Man has not deseemded from the ape. nor has any ape-man existel." Then, as to
savage man, he asserted that "the . Instralian bushman, whe is probably the lowest and most imperfent typ of men extant. is nowion ape-lihe but antirely human like ourselves." Finally. adverting to the biogegical sulbere of the transformation of species. he affirmed that it is not yet possible to produce any erertain proofs of mans


The Sprious Ape Min, Phetdown, witif Cimpanzee Jaw Fitted to Himan Skrit. Drawn hy J. Cooke.
tertiary urigin in the world. The biolugist. l'rof. Zaitef, referring to recent discoveries of human remains fomm in ofl caves, comments as follows: " Su" : terial as this throws no light upon the question of race and dreerent. All in duman

as well as all the skulls diseovered in eaves, are identified by their size, shape and eapaeity as belonging to the hommsipiens (man). They do not by any means fill up the gap between man and the ape."-." Ontlines of Paleontolory," p. 3i.

The eminent paleontolorist, Dr. Bumnller, ridicules the possibility of a prehistorie ape-man and proves to a demonstration his non-existence at any epoeh or age on the earth. "(On uo recornized prineiple of classitication can man be associated with the ape: for, to say mothing of his gifts of umderstanding and spech, he stands quite alone by reason of the wastly superior development of the brain portion of his nervous system, and hence can lay claim to an independent position in the animal kingem. Neither is his destent from an ape attested by selence, for as yet no conneetiug link has been diseovered, either in the higher walks of apedom or in the lower walks of hmmanty. Fien the possibility of a comeetion link is disproved by the tendedy of apes and halfapes in the eourse of their higher development in anatomicas acture, to liverge more and more from the hman type, and is eontradieted ly tar testimony of paleontolory (the seience dealing with remains of extinct speetes of animals presersed in (lay or rock). Such is the present state of seientific knowledge: and its results are in harmony with the view whieh the human understanding, lay and professional, has ever entertained when not under the teranny of theories that happen to loe the fashion of the hour.'**

When Cardinal Maming in 1 stie deelared harwin: theory of the deseent of man to be a "hrutal philosophy-to wit, there is no (ind, and the ape is our Adam," Hnsley ealled him "a great man with a superstitious mind." Now, after a lapse of sisty years, Protestant and Catholie seientists and philosophers are unamimous in deelaring that the evolutionary theory as applied to man was "an attempt to dethrone Gool and to do away with all idea of God."

THE DAWN MAN-THE MISSING LINK.
The supporters of the law of evohtion have for sixty years searehed the tive continents in quest of a fossil or petrifaction of an animal intermediary between man and ape.

In 1911, Professors Charles Dawson and Smith Woodward unearthed it Piltdown, Sussex, England, a human skuil, whieh was said to belong to Plioeene times. Further search in the bottom of the gravel pit revealed the right half of a jaw. The gravel bed, at the bottom of which the skull and jaw were found, heh fossil remains which manifestly were washed in hy streams in Pliocene times; these iucluded seattered bones of a mastodon, a hippopotamus, a southern mammoth and a tooth of a primitive elephant.

There was no doubt that the liltdown remains were very old and belonged to a period antedating the paleolithie age. The diseovery of the skull and jaw bone created among seientists an interest greater than that aroused by the finding of the Java man, or Heidellerg man of the" river drift" raees. Some of the popular authropologists of Great Britain, notably Elliot Suith, Arthur Keith and Arthur Smith Woodward, eontemded that the ape-like jaw and human skul belonged to the same head, and that this type of man with a smouth forehead and ape-like jaw represented a new genus- an Eoanthropus, or dawn man. "Elliot Smith," writes Henry Fairfield Osborn. "coneludel that members of the Pilthown race might well have been the direct ancestors of the existing speeies of man, thus affording a direct link with undiseovered tertiary apes."-(Men of the Old Stone Age-p. 142.)

[^16]










Ape-Man. A glanee at Prof. l'yeroit's "Primitiw Man" will show that he is a weird creation of the artist': brain. The lome; nrms, the prehensile and splay-feet, the hairy pelt, the llercules dub and prognathons jaw are all amosing if not edifying. From a frament of a: old cranium, two molar teeth, arl the jaw of a beast-all whieh were foum in the liltown pit-the learned profes-or reconstructed his exhibit No. 1. From the same remains a Profesor of the "ficago Cinioresty built up a misurg link. This is what he exultantly wrote: : Compent
 molar teeth) to be a real cumeting link betwern man and the lower ape-like animals." Is it any womder that men now talk about the hankruptey of science. A bankrupt is a man who cannot make sowl the crelits given him.

Who the "eompetent" men reformel to by the Chieago professor are we do not know, but we do know that Branco. Klatech, Ranke. Hertwiy, Ma mamara, Seliwalbe. Keith, and other: have pored that bawon: reconstructed man is an imposition and a fraul.*

While the skull, with the jaw attacherl, was on whibition in London, the distinguished amatomist. Dr. E. Wralerston, aldrewing the members of the (ieological Society of Lomdon. Decomber Ifth. 1912. saill: "It is amatomieally imposible for the two sperimens, "ranimu and paw, to belong to the same person." In his artiele on the "Piltown Man." contributed to Niflure, he wrote: "To refer the mandihee and wanium to the same individnal mould be "fuivalent to ar'iculating a
 of Vale Conisusity, writing in the Fehruary, 1:36, mmber of sience, maintains that the French and Italian anthropolocists rejected the "missing link" find at the time of the diseorery, and laturhed ont of court Dawson's and Woodward's "dawli man."

Profesor 1I. F. Osbort, whe, in the first edition of his voluminons work, was disposed favourably towards the Piltdown man, "whom we are inclined to regard as a side brand of the haman family." admits in his seeond edition-pare s12that the skill and the mandible did not belong to the same person.t From which we conelude wita Virelow that: " When people sere a duetrine which ha* been exhibied to them as eertain, established, positive and elaiming unisersal aeceptance, proved to be fanlty in it: rery foumbations or discovered to be fanlty in its "ssentials and whef tendencies, many lose faith in stiene. Then they break forth into reproaehes at the seientists:
. Ih! you yourselves are mot quite sure. Vour duetrine which you call truth today is to-morrow a lie. How can you kmand that som teachings form the subject of chation and ln a recoqnizel part of our general knowledge?

What is known as the Nomberthal race has begurathed to us the oldest fossil remains of man fomm any where upoll carth. The skull. acording to meatmements siven by Prot. Sent Ellint, dus mot difler masmably from some Australian trpes atill livinur. and in cranial macity it curpase that of many of the Imlo-Aryan race. Whell, alter a stuly of the skeletal remains of palacaithome races. Stratz maintatued the theory that. " Man is not a dowembant of an and but is a comsin to him: that man and monke are two sparate and distimet peries sprong from a common parent." lamke answerel that "surlh a hyputheris is purely a matter of imasimation." "The it frepmently happens." remarks that dixtinguished Momist. Profisome Schwalte." that wir : hased on a frew fict hane been regarded as

[^17]definitely ohtained seinutitic result. ly. there wh, harw mit -mdind the matter

 resurrection.
"The Mai race?" Yis.





 camot but admire the patience, peal and imhery which these men dewo the the study of man's origin. The diseoverios they make and the arimitio truthe they unford cammot conflict with the truths of revelation, for mivereal trinth is hat from the immortal and camont entr, lict itsolf. If error is. at times. mi-takenf for tonth. the seientists of the future will, themselses, deteet and extride it.

When fossil remains of the ape-man are fombl, then the supurters of the Darwinian thenry will hase sume sulstantial fomblation om which th ernstrmet
 Tutil this disenvery is mate, the Darwinian claim is contlawed, and ammot heremsidered as exell a serious seientific hyputhesis.

When the spernhative aceretions whiel hase hem added the disenverise of the scientists are removel. it will he fomm that these discoweries do mot and ramot affeet the ralidity of the Mosaic aremont of the origin of man. There is no combliet between seientific or physieal truth and revelation: the war is hetwen the spirit of mubelief and a living and aetive Christianity.

## APPENDIX

## NOTE 1.

That he might triumphantly support his theory of Frolution, Hacekel, the Tromann zoologist, has repeatedly distorted facts to adjust them to his theories, Is is selentist, lie has disqualified himself. In his hooks on the descmalance of man in relation with his monistic religion, Ifacekei simply falsified well-known photographs of rmbryos and ewen invented some of them. Haeckel himself was driven to admit that lo han modifich somo of the pietures lie puhlisken, hut not more than seven or eight per humbrat. "Ancholy interesitel in the matter," writes Jules Duesherg, of the Carnegie Institutr, Wishingtom, shoulh rual the execedingly slarperiticism of Manckel's methods puhlished ly Dr. F. Kiehel, Jrofessor of Anatomy nt the University of Strasshmre, and approwd hy the most prominent firmbon anatomisi* amb zoologists. "Efaeckel secs things as he wants them to be."

NOTE: II.
 called literary and scientific clasers in Emghand mow proudly give thomselves to protoplanm. origin of speries and the like, to prove that (God dill not hinih the umiverse: I hare krown three wemerations of the Dawims-grandfather, futher and son-atheists all. The hother of the fanous natuatist, a queser man who lives uot far from here, told me that amome his gramifathers effeets he fomm aseal maraven with this legemt: "Ommin ex pomehis" (cererthing from a elam shell!). I saw the naturalist mot manv months ano: tuld hito I had reat his "Origin of speries" amb other hooks: that he had hy no moras sittistied




 I suppose it is a reartion from the reign of eant and hollow pretonere, protessing to believe

Phimown Sklle, and Tuat of an Alesthabas Beshman.
what in fapt they don not, and this is what we haw got: all things from frog abon: the gospel of $\mathrm{a}^{\text {t }}$ t the oriler of the day. The ohter 1 grow-and mow 1 stumb min the hink of eternity-the more comes hark to me the sentrow in the Caterhism which I lemmed when a chilh, and the fuller and deeprer its moming lowomes:
"' What is the great enil of man? To glorify Goul and omjoy llim for ever!' No gospel of dirt, traching that men have dramemded from frogs thromgh monkeys ean ever sot that asicle."

## NOTE 11 I .

## TIIF: PILTDOWN M.IN.

"Donhts which have been entortained from the first by mung anatomists as the anso ciation of the liltdown jaw with the Pilthown skull appear to lie entioly eonfirmed he the reepht exhaustive comparative stady made hy Jerrit S. Millor, Jr.. of the United States National Musemm. Ife has shown that these portions of the Pittown juw preserved. inchuding the upper eyetooth. are generieally identieal with those of an odult ehimpanze.

This comelnsion, which has hen acerpited hy several eminent comparative antomists. has twn very interesting results: first, it herrives the Pilthwn surcimen of its jaw and fompels us in refer the skull to the gemus ILomo (man) rather than' the supposed more ancient gemus Eoanthropus (half man-half apm-dawn man): serom it domonstrates the preseure of authropoid apes in Europe during the ghacial epoch."
"Men of the Old Stome Age." Sermid Eilition. Mareli, T!日f.

## NOTE N:

TIIE PILTDOWX FREAK.
Sotwithatading positive proofs showing that the ehimpmore jaw din not indong to the skull, this primitive and ape. like monstrosity was brought from Lambm, Fingland, and placed on riew in the anthropologieal department of the San Dibig Fxhilhition, Numthern California.

Thonsands of visitors to the Exhihition saw this restoration of the liltolown heal and were informed by eard and eurator that it was the Eoanthropus Dawsoni or Dawn-mionDarwin's Missing Link. Without douht the ofitial who earded the exhihit amb the emrator himself knew nothing of the imposition staged for the pmlilir. Possibly Professors Dawson and Woolward are still unconvineed, for spientists who begin with a hiymothesis insist upon seeing everything in the light of that hypothesis.



## III

## THE PRE-CHRISTIAN CROSS

## VERY REV. W. R. HARRIS, D.D., LL.D.

In the whme embracing the papers read before the International (ongress of
 Supposed relations between the American and Asiatir races." by that eminent anthropologist. the late Dr. Damiel (i. Brimtom. Alter reviewing the reckless statements made by a few writers. who endeavomend to lind analogies between the Eskimoan and Lral-Altai races and establish an . Isintic origin for the Ameriean Indian. Dr. Brinton continues: " But the inumer stronghold of these who difended the Asatic origin of Mexionn and C'entral-Amerian Civilization is. I am well
 ment. consisting respectively of the Mexien calembar. the game of batolli, and the presener of Asiatic Jade in America." [In cencrlusion. he derelares that: " Vן tu the present time there has not heen slown a single dialect. not an art or an institution, not a myth or a religions rite. not a domestiantert plant or animal, not a fool, weapon, game or symbol, in nse in Amerian at the time of the diseovery which


I may add that this expression of Dr. Brintonis belide is aphanded he many

 Central and Sonth Amerian as prolithes. if ant a wiste of time.

Fint is mot Brintun's areed tow poition and dornatio. face for fare with the

 Nomsean Continemt" that be fomed amoner the tribe of the Weatern Contiment things and ceremonies similar to what he afterwarks saw in parts of doa. Prob fossor Culin. in his paper "America the Cradle of Asia." writes: " Wir lind in


 with the dapanese Coki and the 'hinese V'i. Towards the eme of his aldros- ho makes this startlings statement: "The mames of the biastern Continent-and I spak now of what we know of the remotr pastare mot mily similar tw. hut practi-
eally identienl with, those of Amerion, and are not only nlike in extermals, but in their morphology as well."*

Tontatively we might venture to explain or neromet for this singular identity by assming that it was simply aceilental, but this assmption can have no staniing in the case of other exmmiles cited hy Alexander Vin 11 nmbold and Irofessor Calin. Take for example, the cons, particularly that very ancient and hieratie symbol. the Grammatic Cross, commonly known as the Swastika, the mention of which is so strangely omitted or furgoten by Brinton nud Colin.

The symbol which, berond all others, geve hach to the belnge anl, for anght we know, to the (iard: Fiblen, is the erose. Anthropmogists and Archacologists in Furope and dure "ic. . .ell nom its sarredness in many matural religions and have invariably asigned to it a very qrent antiquity. Nearly all have reverently admitted itw origin and symbile menning as a great mystery.

In our study of the sacred symbol we will go lack to the death of Adan.

## 

Before we hegin the stuly of the mystorions Swastika and the simgnar rites with which this heratic symbol was intimately assonciated among nearly all ancient nations and among nuny tribes of the ohd world and the new, let ns deal reverently. with the Cross of the Crucifixion, its urigin and vicissitules. There is a strange legend, fomme in the saered boons of the Copts, origimating in the apocryphal last Gonepel of Niendemins-a ruler in lirach who visited Jesns when darkness shrouded Jerusalem. The legendary narative informs us that when Adam lay sick minto death, his som seth appeared at the entrance to the (iarden of Filen and begged of the Angel with the Haming sword for a small rruse of oil from the Tree of Morey that he might anoint the eves of his dying father. By the site of the Angel Guarding the entrance to Paradise stond a Spirit of radiant lenuty who, moved by compasion for the sorrowing Seth, went to the Tree of Merey and broke off a small branch of this tree. so intimately identified with dolam": fall: "Your father died when you whe on your way here." said the Spirit to Seth, "but return with this hranch and plant it at your fathers head, and say to Eve, your mother, that when this branch berones a tree. and is again plantend, it will bear one very precions frnit. and that when that fruit is taken from the tree, she and Adam will enter int" Parnolise."

Geth returned, opened his father's grave, and at the head of Adam planted the branch. In time it grew to be a large and very bomutiful tree which was standing and bair to look npon in the roign of the preat King Solomon. When Solomon Was laving the fommations for his womberne Tomple he thonght of the beantiful trepe and wishing to preserve it- wool for all time, ordered it to be cut down and sawed into beams for the Inly Building. The workmen felled the "Tree of Seth," but. when they began to cut out the beams, their saws made no impression on it. so, worn out ly repeated trials, they stealthily carried it away by night and threw it acrose a stream where it was ined as a bridge.

As the Quedil of Shela was on her way to risit Solomon, she rame to this hrook: but when she was about to step binom the tree-bridge, she stepped, drew back, and. moved by a feeling she conld not control, fell mon her knere and refused to cross the bridge. Then when. brought by another roal. she was received with great honomers by the King of the lews. a disining spirit entered into her and she

[^18]

Tau Cross.
From the Tridentine Missal.
prophesied that a time womblemme when the death of One who womble the fruit of the bribge-tree would and for nll time the fimpire of the dewn.

Sulomon, astmished nud uln rmed by lur prodiction, urdered the tree to be taken oway and huriod dew in the marth.

Many vers ufter the denth of king Solomon, when the theren of shebo and





 the blowing of the angel and sith's tree buried benenth.

Suw the monaing hefore dulas latrayed onr saviom, this the of seth rase to
 a Cereninn. 'fhis simun lifter ne the tree frum the jumb ant sold it to a




 it inor lomere.

## 

 tratitom. Ifter the cmeitivion, wht white the bule of (lirist lay in the tumb uf Juseph of Arimathen, mod the berlies of the two thieves were thrown into the








 -
 on his talluter ambl stamhars.








 christinnty of ('omstantine and his mother, ant to the downfall of paymiom as the mational fitht of lemme.















 tioveliately rosured tu health.







it occupies in the ieonography (i.e. images, pietures, ete., of aneient arts and religions) of the early races in the old world and in the new.

In the second chapter of Gienesis, verse 10, we read: "And a river went out of the place of pleasure to water Paradise, whieh from thence is divided into four heads "; which means that the river with its tributaries flowed towards the cardinal points. or cast, west, north and south. Here we have the cross. From the time of Adam, who lived one handred and thirty years, the tradition of the locality of paradise and its four rivers, crossing at right angles, would remain in the memory of his seattered descendants. From them it would be transmitted to their successors, who, forgetting the patriarehal religion of Adam and inventing new forms of worship. would yet retain the traditions of Adamie days though in a mutilated and fragmentary form.

They associnted the rivers with fertility and abundance, and, as they now had "fashioned gods unto themselves," they quite naturally gave to the god of fertility and of water the symbol of the four rivers of paradise. In the twelfth chapter of Exodus we read: "Ard take the blood (of the lamb) and mark the npper door posts of the houses and the lintels." This instrnetion is given as a command to Moses ly an Angel with the voice and in the Name of God, and ly Moses delivered to the Chosen People the night before the . Ingel of Death strikes the first-born "in the land of Eqypt. both of man and heast." St. Jerome, in his dissertation on the 97th Psalm, contends that the mark of blood on the door posts of the enslaved ehildren of Israel took the form of a rross, thus $T$, the Ilebrew Tim, and he is probally right, for as the lamb symbolised our Saviour-the Lamb of (iod-and the blood, His blood. it was fitting that the cross on which He was to he crucified should appear and establish the symbolie unity of the Trime God.*

Once more and for the last time before the real eross, the Cross of Jesus Christ, is raised aloft for the Redemption of the human race, the symbol of the eross contronts us in Holy Writ. It is worthy of romark that in this instance as in the case of the redeemed Israclites, the cross is intimately associated with blood and merey. This is what we read in the ninth Chapter of Ezekiel, fourth verse: "Go through the midst of the City (God is commanding lis Angel) through the midst of . Terusalen and mark Tan-T-npon the foreheads of the men that sigh and mourn." By the mark of the cross on their forcheads the destroying Angels know those who should be spared and passed them with a benediction.

[^19]
## The Choss of Teothhicican.

Twenty-seven miles sonth-rast from the ('ity of Mexieo, on the way to the sea, are the ruins of an ancient Tolter rity covering an area of about two miles. Very near these ruins is the quaint village or missim of San duan de Teotihuacan which, at onee, offers to the antiquary two of the most remarkalle examples of Toltec remains in stone yot found in the lepmblie of Mexieo.

When, in 1519. Cortes, with his maikel company of heroic fighters, on his way to the conquest of Mexico, passed this heap of ruins, more than one thousand years had expired since the fomudations of the ancient city were laind.

Around the walls of this capital of a very whand half-eivilized empire, the two oldest civilizations of America, the Quiche from the south and the Nahoe from the north, met and united. Here are the fanous and very curious pyramids of the Sun and the Moon. They rise from the banks of the little riwer of Toothuacan. Here also is the Street of the Dead, and here-cint from a single bloek of stone-was found, not long ago, the cross of Teotihuacan, now in the National Musenm. Mexien City. We will return to it. but let it rest for the present.

## Univershidty of the Chos: is Ancient Times.

In Egypt, in the days of the Pharachs, the eross figured on the gigautio statue of the god Serapis, whicli, three centuries before the Christian Era, was transported by order of Ptolemy Soter to Sinape (in the sonthern shore of the Bhack Sea. Six centuries after the death of soter, this Efyptian idol, with its cross, was destroyed by the soldiers of the Emperor Theodosins: agrainst the plealings of the priests of fisis aud Sorosis to spare the cros's, the emblem of their god and of generations yet mborı.

Among the the Phenicians, the Tyrians, the Carthagenians and Sidonians, the cross necupied a conspiemous place in iownography that is in their ancient religious art, a: represented by symbols, images and mural sompture.

With the serpent is was a central object of reverence among norly all aneient races. It is fignred on the Phoencian coins fomm among the roins of Trocadero. It was found. wonderfully seulptured and eminellished, in the samd-buried Nineveh. Rollin, in his history of ancient peoples, says that Alexamber the Great, when he redueed, and entered with his soldiers, the city of Tyre, "rucified on the sc.: shore three hundred of its: noblest citizens, and "this the Mincelonian did." writes Plutareh. "to show his coutempt for the eross, which they worshippect."

The Phomician "Temple of Gigantica" was built in the form of a cross.
In India it was the symbol of Buddha and was rut by the Brahmins: into the wall: of the Cave of b:lephanta. cue thensand years before the Redemption. It is seen to-day in Indial in the hamds of the stathe of Siva. Bralma and Vishum. Among the Gauls, in Caesal ${ }^{\circ}$ : time, it was the sign of their water god, and the Druids need it in their religions erremonies.

## The Choss in Avciext America.

When the Spanish misionaries learned, soon after the discovery of Ameriea, that the eross was worshipped in Mexieo and C'entral America, they did uot know whether ther ought to areome for its existence and adoration among these strange people to the pions zeal of st. Thomas, the Apostle of the Indies, or to the saerilegions subtlety of Satan.

Sahagun, in his "Croniea de Neuva Espana," informs us that the cross was an objeet of worship in the great temple of Cosumel, Yucatan. He writes: "At the foot of the tower of the temple, there was an enelosure of stone work, graeeful and turreted; and in the middle was a cross ten palmos high. This they held and adored as (the symbol of) the god of rain." (Lib. 1, C. 2.)

In 1888, the Freneh anthropologist, Désiré ('harney, discovered an abandoued and ruined eity in the country of the Lacandopes, Chiapas. By a strange eoinesidence Charney met here the English explerer. Mr. Alfred Maudsley and his compmions. This newly distovered ruin is supposed to be the Phanton C'ity of Stephens. This phantom city, aecording to (harney in his " Ancient Cities of the New Word," (Chap. 2P). stands on the loft bank of the Larganitos Biver. in a region hitherto unexplored, netween (inatemala, Quezaltemge) and Chiapas.

Among the strange things diseovered in the great ruin, Charney tells us of a bas-relief which he deseribes in his book, and from which we quote: "It fills the central door of the temple and is $: 3 \mathrm{ft} .6 \mathrm{il}$. long by ? ft . 10 in . wide. Two tigures with retreating forehead: form the main subject, having the usual head-dress of feathers, cape, collar, medalion and maxtli. The taller of these two figures holds in each hand a large cross, while the other bears but one in his right hand. Hosettes end the arms of the erosises, a smbolic hird crowns the upper portion. while twenty-three katumes are seattered about the bas-rehef. We think this a symbolic representation of Thatoe, the Maya grol of rain, whose chief attribute was u cros.",

Charney, in his deeply interesting work, presents drawings of crosses fonnd in the pre-Toltec city of Mitla, Mexico, at Mayam, Yuratan, and imberd of eroses foum all over the land from the Southern Guatemala to Northern Mexio.

Everywhere, even to-day, may be seen diversified forms of the eross, more or less artistically delineated on the walls of the templew, on ancient buidingre on gralleries and natural rocks, in caves and on vases and pottery dug from the soil.

In the pre-Columbian eity of Palengue. ('hiapas, there dominates the forestshrouded ruins a remarkable building. known to American antiguaries as the Temple of the Cross. This structure bears a striking resemblance, in its dilapidafion, to an early Italian temple and, in age. probably antedater by many years the Loman Colisemm.

The floors of the curridors and of many of the rooms are laid in cement as hard as the luest aren in the remains of Roman lmildings. The walls are alout ten feet high and some carry the Greek erose + while others bear the Hebrew or Egeptian T. These erosses have occasioned mubh learned perdation.

In the inner sallethary of this temple wass fomen in lises a womberful tablet in stone, now in the Xational Musemm, Mexieo City. It is called popularly the "Palemque "row" and, ardahlugionlly. " La Cru\% Euramada de Palempue." It is deven feet wide ley sis feet high. It deerves to be examined dosely. The man standing to the right of the cross and holding aloft a newly horn babe is the god of fecundity returning thanks to Votan, the Jupiter of the Datas. for driving from
 of the quels. who serves and ministers to the supreme gred Votan. On his searf is


 equinoses or times of raill. The bird perehed mone the reses is the Coveve or

among them the Tau, have not to this day been deciphered. If we eould read them. ther. perhaps, would explain the full meaning of the representation und might furnish a clue to all the hieroglyphics on the ancient monments of Mexieo and Central America.

This tablet of the eross, with its mysterious figures ant symbolic writing, has led to more learned speeulation than any other relin--the "Calembar Stome" alone


execpted-Fomd in the rast rexion- of Mexion amd Yowam. The Fremed military explorer. Capt. Dupaix ( 1 s0i) amd his commentators. believe l'aldoqu belongs to a


 nations long hefore it was establi-hed as the emblem of christamity.

Désiré Charney mentions another tablet of the eross found also at Palenque, one panel of which is now in the Snithonian lnstitute, Washington.

The English archeologist, Alfred Maudsles, who, in 18:! , explored the ruins of Palenque, agrees with Charney when he states that "it was a cherished symbol among nearly all ancient races in Asia nul America thousands of years before it was aecepted as the symhol of the Cliristian Fuith at the time of Constantine." Coneeding his contention to he true. We are then brought face to face with a problem of serious import, and that is: What did the crosis stand for, or what did it symbolize to those ancient peoples and those lost civilizations?

Without, in any way, conpromising my independence of thought, or identifying myself wati any party. I an free to state what, in my opinion, the preColumhian (ros: in Aneriea symbolized in the religious lives of the Mexicans and Mayas. From rhe dim traditions whieh ret linger among the tribes of Central America, from the civilized Indians, and from conversations held with the priests ministering to th se Indians, I am satisfied that the cross was the symbol of the god of rain. of water, and fertility. I refer now to what we eall the Greek Cross +

and not to the swastika with whieh I will presently deal. The Mesiean astronomer. Pelagio (itma, is of the opinion that the "Cross of Teotihuaean" served for an astronomicul expresion of the vernal and autumal equinoses when days and nights are of the same length; the times, March 2 tat and September $\stackrel{2}{ }$, when the sun in its revolution stips for a monent, crossing the Equator.

It was to the eross that the dwellers on the Aztee llatean made a pilgrimage to Chohna to inwoke the help of Quetzalematl. gool of the winds, and offer saerifices to him that he might send dewn rain upon their parehed lands.

It the foot of the cross the people of Oaxace offerel their supplications to Votan, "1Leart of the Heavenly Kingdom." when their lands were parehed with prolongel Iroughts, and it was hefore the "Crose of Cozumel" the Mayas and Quiches stood when thery petitioned their god Chuchulean to send them rain and save their crops from the locusts and the hot winds. The temple of the cross on the Island of Cozmel off the const of Yucatan was frequented, at times, hy such multitudes from Tabasco. Chiapas. Honduras and Yueatan, that paved roads were construeted from the distant towns to the shore where embarkation was made for Cozumel. (Cogoiludo, "Hist. de Yucatan," Book IV. C. 9.)

It is a singular and striking analogy, that mong the logytians in the time of Moses, the cross was alsin the symben of rain and fertility. Placed in the hand of Osiris, it was the emblem of spring, and in the hand of Isis it represented autumn and the inundation of the Nile. In Yueatan the crosses in the temples of Nachan, the god of dews, and the Tans- $\mathbf{T}$-discosered in the ruins of Chi-Chin-Itza symbolized the overflow of the waters of the Uzumarinta and Tabaseo lisers on the bordering lands. As the inundation of the Eayptian Nile is periodic and enused by the great rains falling on the mountums of lithiopa, so the overflow of the two rivers of the peninsula of 'lucatan results from the rains whilh fall on the distant mountains of Cachumatanes.


Tue Swatika (boss.
 me a strangely designed searf-pin he hat made to the where of a lady, a ghest at the Santa llita Hotel. It was lashioned in gold and thr desigu was peruliar and unique. The jeweder askel me if I hat anywhere serm mything like it, and. if so, by what name was it howns: I answered that I had serm the desigu painted ou Savajue blankets and on Zuni and lapago ceremomial articles on exhibition in the authropological department of the Fiehl (ohmbian Musemm, Chiago. 1 could
not tell him the name of the symblol what it stome for. So fur as 1 know, this strangely fashioned gold pin was the first of its kind made in the United States, and with it began the remarkable rogue which made the uncanny design a popular ornament as a belt-buckle, brooch, scarf, and hat-pin.

The jewelers and curio dealers will tell you now that this weird design, with each of its four arms bent tua right angle, is culled the "Swastika" and that it is an Indian amulet conferring gond luck mad properity on the wearer. The Tueson jeweler, had he known of the wonderful properties of the thing he had just finished, might have sold a gross of the enehanted pins, in a few weeks, to the citizens of Arizona and to tourists from the east.

This mysterious symbol, wherever found, in Europe, Asia, Northern Afriea, or Ameriea, marks the migration of a great and numerous race of a common origin or of eommon religious affiliations. It was the symbol of the water god of the Gauls nud is known to French and German anthropologists as the Gramponé. Among the Scandinavians it was the "Hammer of Thor," their war god. It was cut into the temple stones dug by Schlieman from the ruins of Troe, and burned into the terra-eotta urns found by Désiré Charney in the pre-Toltee rity of Teothucan. Nexico. It was an iconism of the ancient Phonicians and was earved on the walls of the inner sanctuary of the Temple of Gigantea. It was chiseled, thonsands of years before the Redemption, lye Brahmins on the sarrificial stones in the Cave of Elephanta, India.

It is the "Hylfol" cross of Buddha and is seen to-day on the breast of Buddha, in China : and many of the aneient temples of India, Burmah. C'ambodia, Java, and Corea show n high development of the Swastika in ornamental cmbellishment. Bishop Hanlon, Viear-Apustolic of the C'pper Nile, says: (I. C. Missions. Oct., 1894) that it is a symbol of worship among the Ladarks, a Buddhist eommunty, living in Gebel-Silsili and in the land of Edfou. Egypt.

When we seareh for it in Europe and Ameriea we are surprised to learn that Cedric the Gaul carries it on the sail of his ship when he enters the Port of Bally. Isle of Man, ome homdred and fifty years hefore the Christian Era. It was venerated by the pagan Jcelanders, as a magie sign of the god of the winds and by the Celte Druids in their forest rites in the oak groves of Ireland and Scotland.

In a foot note to the Sagias, tirst edition of Lomgfellows Poems, we are told that the Hammer of Thor. the Sandinarian gexl, who gave his name to Thursdar, was shaped like a Swastiki. It was with this mighty hammer Thor ernshed the head of the Midyard serpent and destrowed the giants. Longfellow, after recording the conversion to Christimity of King Olaf, tells us in eharming verse how the King kept Christmas or Yule-tide at Irontheim:

> O're his drinking horn, the sign
> He made of the Cross Divine.
> As he drank and muttrod his payirs;
> But the Berserks evermore
> Made the sign of the Hammer of Thor Over theirs.

Lomy after the comversion to Christianity of the Norsemen, the Swastika hammer of Thor was retained in festal ceremonier and was often introduced into enderiastical decorations.

The eminent Exyptologist, I'rof. Edomard Naville, when excavating (191?) in Abydos. the morem Srabat. Upper Eqyept. tells :s he found the Swastikia on the
tomb of Osiris and among the inseriptions and designs on tablets huried for five thonsand years in Upper and Lower Egryt.*

Professor Petrie says it is on the pietorinl representation of the "dulgment of Denth," done sometime nfter Menes, the first of the Pharnohs, berame the god Osiris.

Among the wonderful artieles-paintings, statuary and menamiliar objects-on exhibition in the Boston Misemm there is a large painting on silk. This is the "Fugie" which six hundred years ago hung in a 'Temple of Buddha, Japan. It pietures Buddha sented on a throne of ivory and sold. surrounded by winged spirits and, higher up in the painting, two minor divinities. Between these two divinities. in the rentre of a golden ring, is a brilliant Swatika resting on a cminion of silk. It is: "red to Buddha and is ome of the mark: by which his worshippers will know him, when he returns to earth.

In the woven fabries fonnd in Swis, Lake dwellings of Neolithe man, in Scandinavia mud in nearly all purts of Europe. we find this strunge emblem. It is


The Crose of Cfineic tife (fait.it
cut into the old Devomshire stones, a good serimen of which is in the Musemm of Torgnay, England. It was a sacred sigu among the lritish Druids and, strangest of all, among the Nilotic negroce, it is tu-thy found shaven upon the heads of lecally famous warriors. $\ddagger$

Turning mow to ancient Americal and koking over the known pre-Colnmbian world we see the Swastika on momments. sirrificial altars, and on small and comparatively insignificant artiches of pottory and monkled ware.
M. Désiré Charney, as late as 1869 . in his expmition to Mexioo and Yucatan, dug up the now well known "(ross of Teothanan." which had heon fashomed

[^20]

Statce of Bedmia, Colossal Figure Fiom Chini.
 of rain and fertility.* Hr. Hamy, who read a paber twione the Acomemin des
 where in Amerion smbulizel water mad fortility. (1f the time when this reme was mised in Thothanan wer may only comjecture.

The Mexico-spmish historian. Torgumada, writes ('Tome ? Lilo. ('ap. s? of his History), that Thalow was the allest of the Tolter gods. ('ertainly Tula and

 Vetia makes it a late in A.II. 313 . Even if we arept Vetians dates the eross is very old. At the base of this cross, when found, was a Swatika, beldly ablutured and dedicated to Teratlipera. the god of the winds.

In the last edtion of the Eneve. Americana, we reat that the Swastika has been exhmed from harial namods within the limit: of the Coiten States.


 tombe of the Incas of Pern.
 1913) assure us that everwhere in Vatation fontral Ameria the Swastika

 and Arizoma. The salderd tutem of the C'row ladians. beth mountain and river men, is the Swastikil pacon alose two circles with mother swastika on a disk in the centre of a circte. ("Signs and Symbis of Primorial man." Churdward. 1910.)

The elaburation of this cross in ancient rigions and ermomial rites leading to identities in strange and mysterions features. hate proved to be ofe of the most

[^21]

Note.-Mether Cups were in common use among the early Celts in Ireland and Scotland. The ordinary drinking vessel was a mether (so ealled from mead or meth, a fermented liquor of honey and water), made of wool and, at menls or drinking-houts, passed from hand to hand, each giring it to his neighbour after tnking a drink. Many of these ancient methers aro preserved in public nuscums and in private collections. The swastika and the Lntin cross are carred side by side ou a few of the cups. They are found in deep logs and in remote mountain wilds of Scotland and Ireland and are now becoming very rere. Their antiquity is rery great, and when foumd they are genernlly blackened with age, reserabling bog oak. The photo reproduction is from a cup now in possession of Dr. Charles O'Reilly, "Ballinlough Lodge," St. Clair Avemue, Tore"to. It is nu exaet duplieate of tho cup now preserved in Ballinlough Castle, County Meath, the homestend of the O'Reillys of Brefney. The original cup has lieen in the possession of the O'Reillys since the time (1596) when the Irish chief, Mailmora the "Handsume." letter known in Irish history ns Myles O'Reill; "The Slasher," fell at the Battle of the Yollow Ford defending the Bridge of Finea against tho invaders of his ef atry. As the cup carrics the pagan Swastika and the Christian Cross, it probably helongs to the fourth century, whes the Irish Celts were pnssing from Druilism to Christianity.
 Sor has anyome beel able to aroment for the prentuity and misurality of this whenure ligure.

Prolessor Black mul John lioke, katm of larsard, say it is of lhallie orimin, but it henrs no resemhlunce to the " ('ras . Inata," the true Phallie ienn, resting in the hame of serapis at simape, and deotroved ber the whliers of 'Thembesins. John Fisko and Prof. Black, whengiving a Plathe wrigin to the Swastika. forpet that nowhere in America has muthing bern fomm, or any tradition heren hambed down. intiating the existence, in the remotr pat if the prophe of Ihallie worship.

 Southern hulians of North Amerien, mal mong the raty laruvinne, the Swastika Was the emblem of the sum nom of the wimls which bhew from the sme cardinal points.
 in the mat, salutel with the " Bhaing Toreh." When the Shaman, after valuting the sun, turned to the four pint. from which canm the winde, he formel a cross mat the blaze blown be the wink fell awa! from the tord and formed the right angles which, in time, surpested the Swatika. Lat me illnitrate my meanig. In the Tenth Letter of Father De smets, " Life and Travels ammer the Nurth Imerican Indians:" edited hy Major Chittomen (Fomk. Warnall. N.Y.), there is an interesting account of the cistums, relipines rites, and hathits of the Assiniboins.

The ereat missionary was a prisiluand gome when the sulutation to the Sun and the Four Wimds and Water nevored amoner the Asiniboins. IIe writes: "Sometimes threc or four humdred londees if familios assemble in one lowality. One sonl individual is namen the Hirh l'riest and directs all ceremonies of the Festival . . . After these prelimimaries the ceremony hegins with an address nud a prayer to the Great Spirit. He implores Him to arcept their gifts, to take pity wn them, to sase them from amedent, and misfortumes of all kinds. Then the Irrest holds aloft the smoking Calumet to the Great Spirit. then to the Sun, to earll of the Four Cordinal Points and at carlo time to the Earth."*

Writing of the Chermines. Colonel Henry Immar, one time senut amb trailer with fieneral Crooke, informs us that thi formilablo tribe hat mo religion: "If, inderd, we except the respect pail to the pipe. In olferinge the pipe to the smb, the earth and the winds, the motion madre in so doing he them deseribes the form of a eross : in blowing the first four whitf., the smoke is invariably sent in the same four direetions." $\dagger$
 the time when, in the Garden of Eidn, the rivers romed and made Eden a Paradien of fertility, and the Swastika of Velab India retaining the basie cross bom altered by the dip of the torel in the hand of the pridet. or be the blowing of the thame he the four winds whinh the Swatika smbolised.

[^22]
## 




 trer. Whase remm-like hhssoms, trembling in the ghrinus sulalight, seemed

 hy the lemely path. It marked the sput where tive geare bufure, an Indinn went-

 - rose wer a homely grand we murk the phate where a murder hand been fommitted. The Padres-the missiomary fathers-are gome mom the chapms they huilt in the
 the monntain ret retains the tratition of the sandety of the erns.s. The fire the


 hy the Spmish miswiomaries, and "So it is." writes In"mery C. Van Dyke." the mututurevi dwellers of the desert have cherished what the inhabitants of the ities
 may molso say:
"This is all
The grin we reap from nlt the wisklun sewa Thrunghages; mothing dombed those first soms Of Time, while wr, the selowhed of cmonties. Sothing lutipue."
 reference to the "Crose uf Suw," in the coluraln range, a photographiar re-


In the lung. sherohess watches of the night-
1 gentlo fact-the fare of ome long dent
Latiks nt me foom the wall, whre 'round is Imatl
The night litm: easts a halo of pale light
Here in this of she dienl; and son! mare white
Serer throngh ice uf inatitydom war heot.
Ton ita repose: mer ran in lowke la wol
The legend of a life nere bumedight.
Thme is a Yemmetin in the distimt liees

Dipplaye a Crome of smow upon ite sifle.
Surlo is the Cross I wear upen my breast

Ind sensmes, changless sinm the day she tied.

## IV

## PRIMITIVE CIVILIZATION OF THE AMERICAN INDIAN

VERY I EV. W. R. HARRIS, I J. LL.U.







 Stephens" "("untral tmerion. ("hiapas and) .eat "" fork, Ist| and maborate"



The A w Vork emrespondent . . " "1 don Stamlarl" thinks the origin of the inarican tmian will he se wed 'u, If.. vett. The Hoctor himself is
 melt of the sared wrimise on the mer athe and tablets of this pre-Cohmbian eit! will mifoll the pardment when the in of the mesterious Indian race Situr returnin: in the spring of if a als tirst visit to ()nirigna, the



 replita of the glyphe or writhes, to make. one and for all timne position and irrefntally lear, the strange hi-tory of these puple. . . Ther reading this
 questions."

If te ent ant Arehaolugiot de ha can decipher the sheret writing: on the momment of Copan, Palenque. of Quirigua, ur that "ther ling of the mass of ineipherabl. lata" will solve the problem of the origin of the American Indian, we fear he is as stined to share the disappoinment of many presumptions antiquarians whon nursed the same delusion long lafare Dr. Hewett vifited Cehtral Ameriva. If the key to the Maya or Quiehe secret character: bre ever fomm, and the glyptic writings transhated, we are not so sure that they will refleet any light outhe origin of the Ameriean Indian.


Scu'littereir Moxolitil.
(Quirigua, (Hatemala.)


Colossal. Statue.
(Copan, Honduras.)

When Champollion found the key to the Egyptian hieroglyphics, great hopes were eherished that the problem of the origin of the Egyptians would be solved. But neither the charaeters on the rewal Memnon, non those on the gigantie pillars at Thebes, nor the seeret writings on the fallen obelisk at Karnae, gave any elue to the history of pre-historie Egypt. The Abbé Brasscur de Bourbourg, who spent many years in Mexieo and Yueatan, translated into Freneh, the "POPUL-VUH," the saered book of the Quiches of Tabaseo, and heft nis a grammar and a eopious rocabulary of the Quiehè language, failed in his efforts to trace, to his eradle-land, the American Indion. In his able Essay: "Sources de l'histoire primitive du Mexique," he supports the theory of a lost continent. Diego de Landa, who was Bishop of Merida, Yueatan, 15:3, wrote the "Relacion de las Cocas de Yucatan," enelosing in it a complete nomenclature of the characters of the Maya calendar, and the signs of the seeret writings on some of the Maya momuments, giving us only the mythe and the traditions of the aged men of the peninsula, but could furnish nothing definite as to the origin of the Indians of Central America or Chiapas.

Brasseur de Bourbourg, 1854, went earefully over the pagr's of the Dresden, the Mexican, .nd all the Codexes given by Lord Kingsborongh in his elaborate and enstly publieat $n$, comparing them with ancient documents he had found in Mexieo, get he diseovered nothing bearing upon the origin of the Indian. But, waiving all speeulation and theory. we are satisfied that Yicatan, Tabaseo, and Central Ameriea are destined to return the best results to the investigations of the Arehæologist and of the student of ancient American history. Admitting that Mexieo and parts of Sonth Ameriea hat at one time a civilization equal to that of Central America, still. Yueatan. (iuatemala, and Hondnras have preserved the most eomplete memorials of the remote past. and their momments of the past are more aceessible to examination,

Before entering upon the study of the aneient eivilization of Central Ameriea, let us hurriedly review the theories put forwarl on behalf of the existenee of original man on our continent. Some writers regard the Indians as autoehtons, a si parate raee ereatel in Ameriea and for America: others ascribe their origin to a remnant of a pre-Noaehic race of men, who escaped the diluvian eataelysm, and are now the oldest people of the hmman race. Plausible arguments and ingenious sophistries have been made and advanced on hehalf of a Chinese. Welsh and Japanese immigration. Again we are confronted with immumerable volunes tracing the origin of the Indian to Jows. C'anamites. Phonicians, Greeks, Carthaginians and Seythians. Others are of the opinion that Ameriea received its first inhahitants from the islands which lie between the extremities of Asia and Ameriea, that is to say, from Yezo, Gama's Land, and other lands, ineluding a eluster of isles, possibly ine Alcutian lalanks. Then there is the Behring Strait, across which in very remote times. an Asiatic tribe is supposed to have sailed and populated America, anll the "Lamanite Myth" of the "Book of Morman" reeording the sailing of Nephi the prophet with his noms and daughters from the shores. of the Persian Ginlf to the Coast of South America-fon years Lefore the Christian Era. All these suppositions are now relegated to oblivion, and their ghosts will not presumahly walk again. Scott Eliott, in his book: "The Story of Atlantis." returns to the theory of a lost continent. and like lgnatius Domelly in his "Lost Atlantis." supports his theory with very plamsible, if not convineing arguments. There has been muel dispute among learned men ower the contention. Aconding to one group of writers, the tradition of a submerged emotinent is pure fiction.
founded upon a fragmentary passage in the writings of I'lutareh. Another gromp hold the tradition to be historically trie, but say that the existence of the continent is ineapable of absolute proof. The great derman, Sichlieman, is not alraid to imperil his reputation by comteming for the actuality of the low lame. He writes: "I have arrived at the comelusion that Athantis was not only betwern Amerien, the west const of Afriea and of Europe, but that it was the "radle of civilizatiom." Let us now glance at the civilization of prehistoric . Anerica, which indued Schlieman to exprose himself so mureservedly.

## 

In the ruins of the pre-cohmbian cities of Yueatmen and Central Ameriea, we see the most claborate forms of semplore adorning the altars, idels and bible ings.-the remains of a people skilled in arehitecture, sentpture and drawing. and heyom doubt. axerelling in arts that have perished. These sentpured Monolith.. atars, and statues, are mot rode and arelaic. In many of the halls yof stambine. are arabesques fashoned in Mosnies and in greeques, and deliwate trawery. not unworthy of a plate in modern derorative art. The pillars and stome tablets, which earry heroglyhices. are remarkahly well execoted. These hieporlyphise, or sechet writings, were exernted in characters known only to the priesto and learned men of the race. We have mot as get beell able to denjpher them, oo that the characters, on the momments of Copan, lalenque and Mayapan hirnish ns mo data ur information. The Maya system of symblic writing appears to be a perios of momenies. The hierographe on the Pahenge tahlets, now in the National Musem, Dexico City, are in propendicular rews, and for anght we know the charaters may be alphabetic and a written languge. On these tablete we pererive a highly artificial shtem of writing. and to interpret it, the Aztee or Mexiean picture-writing offords ins mish lin.

 ane are contrely and absolutely anomalous. They stand alome. The coltivation
 monde wr master from ahroal. their arehitecture originated among themselw.







 contains many itrons of information that must surprise there who think that only in recent time han wr male valuathe disenveries in therandutice, and that all serioms investigation in medicine. Wr wherer has been dome in surgery, has hern acemplished by Eimopan methorls and hy the men of linrope. Among the Mayas of Yucatan and the people whe antematen the Toltere in Mexico, doetors
 themerses. and the sons inluerited the profession of the fathers. They made mese of a moltitule ald druge and were familiar with dinretios. amotios, dieteties,
 5 г.м.


Inver Watl of Trmple.
(Mitla.)
of indisposition. They alministered their medieine in many different ways: as decoctions, infusions, bils, ointments and plasters. Certain gums and resins they applied as electuries. They recommended rapor-bathr, and variel the treatment to snit the disense or the individual patient. The historian d'Anghiera states that in his own time, fiet, when Furnpun phesicians in Mexien failed to cure their Spanish patients, the mative dectors were sometmese ator, and often











 art.





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 of hotinns.












 was the craile-land of primitise Amerian eis:lization. From this land went wht. in the very remote bast, culonies into Sumth and rantral Amerial carreing with
 and the North lands. where they built Mitlan and uther aitios. the womberful mins
of which excite our astonishment and admiration. In these lands we find the tidal remains of an ancient race, which welled up from its primal springs in: Yucatan and thence orerflowed, multiplied and rolled on over the entire continent.

As the overflowing population rolled far away from its origin and its souree, it lost the best part of its civilization. It lost its social strength, its historie memories, arts, tradition, crafts, and, in some instances, almost the very means and methods of sulsistence.

In time, the womb of primitive civilization itself became gangrened, and when Cortes contered Mexico and (irijalra landed in lucatan, they found the Aztec and Maya eivilization deraying, disintegrating and decomposing. Some of the sculptured statucs are of heroie dimensinus. The curiously designed figures, the unfamilar carvings on the altars and the panel work on the inner walls of Palenque, or Mitla are not surpassed by the temple specimens of Egypt and Assyria on (Nhibition in Paris and London.

Mournfully beautiful are the ruins of the prehistoric City of C'opan, surrounded by a forest painful in the intensity anme duration of its silence. It is a phantom in the widderness, and when we demand of it to tell us low many centuries have passed away since the quarry was opened for these stones: how long since the builders began the city: how long was the city inhabited, and when was the city descrted, there comes no answer to our questionings. If, as it is now conceded ly student of Central American history, the Quiches precedel the Mayas, and another race, antedating the Mayas, built the cities whose ruins now exist all over Central Anmerica. luestan and Mexien, what assurane have we that many civilized commmities did not sumessicly appear, run thei: course and perish in the veiled ages of prehistoric times. . Ind by prehistoric times. I mean the ages between the creation of man and the legimning of anthentic histury. Finder the limitations of our information and kinwledre wo are fres to assume that the Quiches. Mayan. Yueatecas and the hutians now in Central Amerisa and lineatan were and are the descendants of the eivilizen perple whe buitt the citics now abmulomet. lu order to acconnt for the magnitule and splenfor of the temples and puldie huildings of these eities a centralizen form of gowermment must hase caisted. These immense buildings muld have been ereeted only be the expenditure of great labor-probably slave labor-and under a highly organizell systrom of - uprintempence. Pbsibly the gowermont was an imprial anterrace or it may have bern like that of diregre, which wase in religion and langage. one nation. thomgh politieally a comfederacy of sowerign states.

Who may deny that the avage or barbarian tribes who romed the plains or peopled the forests of Sorth America in the memory of men yot living, were mot scattered fragments from the wreek of this civilization that in remote ages was lost in hurid storms of war, or disappeared under adserse cmolitions, which then, as in "hu own times. made and make for the deeny of mational mity, national sirtue allul character.

Defining in particular time social and the family state and romdition of American Indians with reference to the knowledge we have aequiren of them, we bute that the same fortunes have followed the migrations of the dispersel and onttered race.

When human beings become destitute and desperate conditions of life make them so. harharism and savagery will. in time, nuetake them. When driven by the fortmes of war, or under the dire pressure of faminc. from its own land, the flying remmant gradually separatem from the eivilization it carried from its home.


Tramilaj Figurt:。
(P'nlonque, Chiupas.)
it lowt its colture. just ins we would lome it mow with all our refinement, if we were foreed to live their lives, and were subjert to the same comblitions and harelships.

And in the forests to which the wanderers fled for shelter and safety, we can well imgrine desperate combitions of existenne, and therefore imposilibe remditions of civilization.

But from what perple or from what land dis Yatallon inherit its divilization: The mell whe colonizer the proinemb, who lomilt Ximal, Mayapan and Palenque, were, in the materind order, "ivilized. They comble not have risen from sumgery. for there is mo resord in the annats of our rate of ate samge tribe of ment whanding. masisted by civilized man, ome single step on the roal to civilizatim. This is history. We must then assme that the men who colonized Vueatan were civilizet. Let mer byay of paremthesis, mention that the chrmologer of the Bible, the are of man upon earth or the miversality of tho Nimelice delugre, have not been anthoritativel! settled by the Christian C'lmerela* We monst also amo permiseshly take it for granterl that these eivilized inhmbitants of Youatan lived hefore the smelting of irom ore was diseovered. for if these first inhabitants eame from Enrome, Asia or Northern Ariea, they comblat hot hase forgoten the nrt of smelting or the ntilization of irom. The axe, saw, phongh, shipholt, sper-heact, mad chisel were, nevording to Herolotus. known to all the civilized races uf antiqnity. The civilization of Eqypt goes haek to the deluge. The use of irom whs known in the time of Tuhal-Cain, som of Lamedh, who antedated Noah. It was known long before the building of Solomon's temple. brefore the time of Hesiond and Homer. Iron reaches hack as far as history. Now motiore this: No tempered eoppor or implement of iron wa: ever fomud amio the remains of ancient Ameriea. or indeed indieations that it was cerer knewn or erem heard of.t it is true there was no iron ore in Yoncatam, but these rivilized people. if they had known the use of iron, would have ant ont prospectors, even to Durango, where they we it have fomed a momatain of irom. Wowover, hage areolites, and holosiderata - a mol

 the chl work. it mont hate been lomg hefore makind was actmanted with the properties of irom. Nor combthey have hot the art of smolting if thes had
 Arica, the -melting of iron remained with them in their debisioment. It is nlan a singlat fact. that althmerh (ortes. Bumal Ilia\% and the Spanish writers of the early sistemth ereatury are eloguent in their admiration of the material and

[^23]

 of the Indians of Dexiew. In the datere anteves or in the tratition- of all!


 of men.
 were spokell be the race of the enrth still live in their langunge. langure.
 faniles disappar forever, momitnins repat and riwers murmur the wies of these races that have disappenred. been umorthel or were amihilatemb. All

 origin of the prople. Philohgists like Gallatin. Dupmiseme and Murlher. suy it differs radically from all other known harmers. Na theores of derintine from hagromges of the old world sustain the test of aritial examination or of Erammaticnt "onstruction. Comparison with the san-krit, the Inchrew, the



 ethuic vahue.


 plains. Fresh water tish almombed in lake and streane and reptilian life wis








 for it a latrer amb inthertial following.
 nut then resis: the otrength of the harie and aryment- of its cmomise and it

 mate and mew territury wphared.

[^24]The eminent traveller and antipolean explorer, ('lement Wragge, who last snmmer returned from the Easter Island of Waihn, Pueifie Ocean, $\because, 300$ miles west of Chili, is persmuded that the rock rurvings he diseovered menr the lhy of Islands and the ('ychopemin Monuments found on Easter Island are of very uneient date. Diseussing the origin of these relies he writes: "The people who built the womderfal statnes and cint the marvellons inseriptions on Haster Ishand, had nothing to do with the Polynesians, but are allied to those dwelling in Central and Sonth America long ages ago. In fact they are to be referred to an Atlantian race."

Dr. Panl Sidhlieman, a grandson of the Arehueolugist, Heinrich Sehlieman, writing to the Loudon Budget hast Muy. tells ins: "I am us satistime as I am that I exist, that before the begimning of the Encene age. prhap, in the Cretacenns Perionl, a great continent, inhabited by a eivilized ruce, existed in the Atlantie Ocean. The Ameriean ludians are the descendants of this race."

When Mr. Sidlieman's promisel book appears, we may exnmine at leisure the grounds on whieh he buitds this declaration.

Herr (. (iagel, with the thoronghness of German seholarship, in a reeent work he has given ins on the same subjert, emenours to prove that $n$ great continent did onee exist in the Eastern half of the Atlantic Ocean, and that the voleanie islands of the Azores, the Canariss, and the Cape de Verdes, now represent all thut is left of it alove the waters. He is supported in his contention ly. M. Pitard, who lately found in the Canaries unquestionable eretaceous deposits.

It is possible that the supposed smbmersion of the continent oecurred muny thomsand year: later than the Cretaceons: Perionl, for in Central Ameriea, and on some of the islamk of the Atlantice there yet exist types of animuls ame samples of vegetation belonging to the Pliowene Age, the last division of the Tertiary Period, and near to the known appearance of man.

The problem of a submerged continent hus by mo means been solved. Recent diecorries afford the possibility of making others, and from the liberal eneourage-
 and thene of Sorthern Asia, some further light may he refleeted on the origin of the Imerican holian. In ang rase. it is well to remember that when the elder Agassiz first proponnded the theory if a glacial age, he enfomintered a storm of opposition and ridieule.

Feology and political georraphy are bint of resterday, and wemmot prediet what advances and diseoveries may he made hefore the onening of the nest eentury.

Day hy day we are now uncowring the carcfully gharded seeret of the earth. Thongh womlerful disedoures have alrealy rewardet entheiatic resenreh, and
 been felt, and the great sereve of the earth and of the duration of haman life on this continent ure get to be revealed. We are propared to arepet and to sift at all
 harmony with later diselownes.


## V


 to cure the ills and disenses of their thatios.



 diseases of thair bohties," l'ascal, in his "Thomghts". alds: "We mus nll sulfir and be uneasy th this antli, for if we the not sulfer and repine it will her nlt the worse for ins:

 and prepare for burial the funly of the putrineh, his father. In the formererighth

 of the carth, and a wise minn will mot ahor them."




 every dity wern may sperialists whe limited their pation to partionlar diamore.
 practise the healing art: sman attend to disorders of the eves. wheres then of the heal : sume taker care of the tereth, where are famibur with all diavase of the intestimes: whilst mung attemb to the rure of malaties lase prominemt."*
 have no profesors of methicine. They expese thoir sick in some pulitio square.
 with the same illurss. So one pasers the disenseal person in siluner, or withont inquiry into the semptoms of his comphant."t Nosts. " the friond of (iowl." who hand heen instructed in all tho homing of the beyptimes. prohably was andainted with the prasetere and serets of their mediefine. From his instructions to his people.
 clean, infirmitio of women, eter. mang exugists and commentature romelnde ho


[^25](i IP.M.


Tuf Mfmeline Max̊s Ottrit.









 of remolrers. *
















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## * IV. Kinuss, Chatj. I.

















[^26]

Turtle Rathe (Srhi*erhi-kur).
in the righteenth eemtury, Waterton assures ns, Parson Einns, the Wershman, was romghly handled by an enraged spirit solely heramse he had forgotenn in frmigation in his witelh-work.

A few remturies ngo Emropean cholera was Ineliesed to be hideden in volcminmonntains and to la relensed lig croptions. Many chaimed to have esenged the pestilenere ligeserping with their heads due semth. In Rowsin during the terrible



 stition mul fear of the miknown med mysterimes exist. Wir are met then -urprised

 iownation of spirits and the aid of the "ulmoin or meremmener for hilp in sichnew atul pulim.

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the Sun, who tukes plensure in feasts, is migry with the ome who has been delinquent in his duty, and makes him ill. Resides this general ause of sickness there are spercial mes, in the shape of certain little spirits, mulevolent in their mature. who intrude themselves of their own aceord, or are semb byme enemy, into the parts of the looly that ate most diseased. Thus when myome has : a aching heat, or arm, or stomach, they sny that a Mmitou has entered this part of the loody, med will not cease is torments until it has Ineen drawn or driven out."
"The most common remedy, necordingly, is to summon the Juggler, who comes attended hy some old men, with whon he holds a sort of comentation on the patients alment. Ifter this he falls mon the diseaser part. applipes his mouth to it, and, by sucking, pretcmes to mant something from it. sulh is a little stone. or a bit of string. or somedhing dow which he had comealed in his month











"Ifter all. the commonnot remelle. as it is the mist protitable for the


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 a healthy man and. unless killed hy areilent oir in butth, the Indian generally lived to atm manced age.* Deformed dildren, or idiots were almosi moknow among the tribes. Their wemen never perished in child-hirth, and sulfered wer: little in parturition. Four hours after the hirth of her chill the muther was remdy for her medinary duties. The men were hardened hy mandure th all hembe of weather, and by hating and tishing, which proterent them aranint diomod and gave them remarhalhe remperative pewers when attackiol by any malaly.
 from allumblicitis and many "ther malanlis- th which evilizenl man is and always













[^27]
sickness, King's ewil, and a divease in the hatk, with ns ampemm." Ferers and dysentery were also eommon complaints mong the tribes, bint until the entry of the white man mon their lands, smallpox, scursy and venerenl diserses were unk nown.

His life as a hmoter, camoman and warrior was often a life of amedents. or wounds and broken limbs. In his sickness mul muler the pain of his wommes he or his friends sought the help of nature and of the skilful men of his trike. Knowing mothing of seience, having no literature to perpetuate the diseoveries of his ancestors, primitive man acquired most of his knowlelge in treating disenses and wounds from his own "xperienes. from tradition, or from the experienes of his trihal emmpanions. When his malady ballhed his skill mod fuilded to pied to ordinary remedies he quite maturnlly invoked the aid of ramiliar spirits, if devils and shamans. But to there he appealed only in dire straits. For his ordinary maladies and for redneible frowtures he had his own remedies. taken from the wonk armmd him. Fen example. he enred medity of the stometh by eating grains of corn sterped in ly or lex swhllowing small dises of an absorbent tarth which



The remedies of the Comadmen lutians were emterely the remits of their
 expremented with drugs, ametics, lasatives and dembents, and when there fuiled



 bedy of the sick mint the little tevil that tormenterl hime.

The Indians howe mothing of the eirenlation of the hood. hat they diol home that bonel and reviration were meresary to life. There hat their awn names


 They were. by mencty. great hmers, mal were familar with the sitnation of






 skills of amimals minem with wamp mo...

























Head Chiof of Jotom Nhamans.
malady, the origin of which he was unable to explain, he sent for the slaman to learn the conse of his rickness and to avert its evil effects.

## The Sifaman a Medicine-mis.

- The universal opinion among the C'anadian tribes, from ocean to werlin. that all diseases or ailments which failed to yield to ordinury treatment were ansed by an imp or imps. which had entered unll settled in some part or purts of the sick man or woman intuced them to turn to those who rhimed to hase power to expel these imps. This power the shaman, autmoin or medicine-man of the trike was supposel to pussess. We are not now comerrment to know ty whe meansfastings. iselations. macerntions and commmings with spirits--he whtained his influence. We know he professed, like Owen Glendower, to have power wir epirit., and hi- tribesmen admitted his claim. The sluman was me frel. It is true le was part quack, part doctor and impostor, and wis promernlly an expert
 of Sorth Smorica, the shaman wis: fared and also rexperted, and prowsed nomb anthority and influene with his tribe.


 modivine tu he taken at stuted times. Before lenving he ealleol in sume frimet or relative of the pationt, wellerally an adderly woman, instrusting her has and
 the sick mun. Falling nevt day and fimbing his patient wh: mot improning, he.





## The Silman in in Expert Jtogifar.


 the wh: Watt the drom and rattleal the turtui-w-shelt-the shis-thi-kite. It,


 if nt whe the thine in which the whi dwatt and which he brought with him when
 in the " hirlation-":






 prombere a lithe kinife cowered with howl which they show th those ;resint.

 the patient. 'I am 'muld better.' All thone prowent were surprisol. lowinise at















 trith:.."*


 theoll stomger than his, the -haman's oki.























[^28]
## Nitrime linames.


















 it. Fimerreme.


















 apllitatione of ally himal.


















## MICROCOPY RESOLUTION TEST CMART

(ANSI and ISO TEST CHART No. 2)


 on a sioping hillside. Biffore closing the whtame to the tent they sank an exaration in the gromend. in which they tmitt a strong tire of cedar. sprmer or halsam, mad

 hand heated the stmes to a "white hat" the pationt. entirely mule. shwly emptied hine pots of water "in the stum- till the tent was filloul with stram. Within this

 to slep after swallowing empions dralte of tem male from dittany or other herhs. When the stemothath was takell for ant ordinary cold, or as a bers. the bather when laving the herthonse often planged inte the lake or riwer, and suffered no ill-effects from the phange.

Axtha, owing to their Prequent cobls, the seserity al a morthern clinate amb
 of this amoring complaint the lowhens wre very sumessful. They beran with the vapor-bath, then resortel to blistering. fomentations anil sleeping iraughts. At times the sulferer gut relief by applying to the hreast or the back small hags of wet ashes or twinh ing the vapor arising from hot water in which certain herb: had beell streped. They laul great faith also in a small plant known to them as the We:sh-ke-lah, nsed freely for asthma, for an infinsion of it. rowts and shoots. in doses of a half pint, at intervals of twenty minutes. gave almost instant reliof. It prowlued a gentle moi-ture on the skin, easier respiration, mal relief from all diftienlty of breathing. In twenty or thirty mimutes a profise aw ating followed. attemed with an expectoration of phlogin and an entire melief from pain.

For mberes and tumors the Hurons applied to the affered parts puoltices made from the bark of the hazel-mint tree. From the roots "f the sassaf fras the Indians mate a rooling drink which they used when attarked bey fevers or cothe.
 -pront- or rowts in water and with it hatherl their eves.
 cograte tribes. It was prepared and nsed smemetimes as a powider, at other times as an inforim. and given wam to induee sweating or to holp in the diselarge of mucus from throat amb lungs. It was given to chilhen when suffering from diflioulty of breathing, and dronk gemernisly hy comsmptives. Its Indian name was. Ig-ga-sho.
 plaster. was prized as a mainle remely for ulecrs. Pipsiseway (Ne-was-dhar-la-ge-ne) was held in great extecm by ame . Mgompin trithes as a sulurifice and
 and asthma. the Ilurins atrank a dectuction of the milk-weed (Ne-pe-sha). It was also employed as an emetic.

Prickly Ash (Han-to-la) was me of the most valuahle remerties known to
 and the roots of the tree they boiled, and drank liberal draughts of the water during the das. 'The inmer bark, sterepel for hours in hear's oil, they applied as poultiore and as embrowtions. Combinel with smakerow mul the bark of the wild eherry tree the Chippewas and other . Igomquin tribes made nise of the Indian

the momth). In isy and smmath puisoming they med the fireweed. The poisoment
 moistened the skin fredy.
 nowl. Anise (tut-to-ser-lana) was eatell to expel gase from the stomath. For
 for homers in an extrae of mihl lienorice.
 remedy for diarthera. The inmer bark of the batk lowist tree (e-han-wath) they
 rimes er halls of the black wahnt (he-ne-sa). For swellinge and intlammation they hroised ame applied the heaves of the hack smake root, whim in almest all casces gave immentiate relief.

In ferers of a low type they gaw the hark of the dogwont tree (:hen-don-shu-gah) in comhination with hitters of varinns kinds. In cosso of debility when aecompanied with stomach tromble in palpitations or the have and droper, they administered deroctions of gentian rowt (tom-ram-shin-wa) in ("mblination with dogwond and wild cherry bark.

In howel complaints the Indians administored an infusinn of the dewhers

 colds and fevers. Indian physic (sku-ten-ma-ja), known to ns as Bownanis rmot, was highly valued for its emetie and suloritic virtues and as a dere for low fowers and howed complaints.

## Tomacto.

Prohably the first mention of the nise of tohaten hy an lmbian trone is recorled in the "Bref heedt" of Jacques Cartier. "One of their herhe." ho tells us. "they value very highly. The spuaws gather it in great qumtitios for winter consmontion. It is dried in the sim and carricel in a mall for has around the nerk. They are comstantly redneing it to perwher and pheting it inte a hew of stome or wool in whel they place a lise coal and draw in the smoke throngh a tulee. We tried to imitate them and alterwark tasted the pewder, but
 smoking was gool for them and kept them warm.
 properties, helpful in diseases and for the equre of womble. In hamere amb thirst and great fatigne it was smoked or chewed freely and atways. they vainmed. with beneficial reffect.

The ledian brited it with the ehipe of swamporak ame applied it as a dis-
 mpon the parts affected, and moistrong bey an infusion from time tu time. Ther


 of chiteren.


 favors were to be askel from their manions or familair spirit. IDowerer. in the


Indian IMm


Intian Kinee Banai.















#### Abstract

Schimay. When in warrior was sewerdy wanded in a battle or un the humt, hiv companions carried him off the fied an sleds in winter and in summer by canoe or litter. These stretchers ar litters were made hy lashing together two poles with cross-pieces. If the warrior suffered great pain a bed of moss or of tender brancinewas made in the litter.

Wounds were ahways kept elean, and when necessary were sutured with threatfrom the inner hark of basswood, or a fibre from the long tendon of a ilcer: lew. The wash or lotion used for eleansing wounds was a mucilaginons extract of the slippery elm.

Arruw-heads or any fareign substance when deeply imhedded were extracted by a forcep: made from split willow.

Fir fractures they made splints out of bark. The hark was padded with moss and so adjusted to the brokien limb that there was no friction from ends of broken bones.

To burns they applied a poultice made of boiked spruce. Amputations were never practised by the tribes. They never used extension or counter-extension. and yet defarmity or shortening was rare.


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 prizel hy the western tribes, nlthough thll the speries are known of lw tomies, sumbition and diurnties.







 has a stupefying effect on fish.

 frugrant tlowers. It does not grow wibl north of sumth-westerm Gutarin. I have seren tha lowust troe as a grarden ormment esen at the faot of the Lamrmides as far antly has lutituln tiv.
"Black Walmut ", "Juginns Nigrn", a large trec with durk hark, цrowin: froc Min-
 State, in the hilly cometry aromed our honse of sthdies.

It has 11 corrugated nut. The almonds ure swect anm of an ngremala, taste. It is a tree of the same gemas as the liatermint, which is only the "white walnut." Thue lutternut, ton, is used in medicine, leing funom for a parghtici deometom mand from its hark. It is alsu in stum:arhic.




 violets anll mi: "rworts. Three spericxarer common in the I'nited stater.


 latter, " ('inmansis" is the limek smake root of the Indians.




 of the interior of the strm, the Indians used the womel for thue making of thar " cialumets",

 making of hask..fy.
"Wild Gentian", Gentiana, of which wn have at least twelw well-ickutitiel smeries in Ampica. There are four common xperies in Ontario. They makn ul whe uf mur rommon medicinal genera. The root is a maic and a fehnifuge. Fixtract of Gentian and Gentian powder arr much used torluy.
"The Dewharry" or High Blackherry (mbus villosus), An Mpright or meliniog shath of the Rose family with a tongh stem armed with hooked prickles. It hemers large. white fowers and an edible friit. It grows on the boridory of woods and is ahundant in the west
and nouthest.


























 sthonitio．Tho ：
 E－


 armind Tッチитい．




 the Gulf of Miximo．It is ：powrent firlifinge．
 in Ontanin，arowine ammantly all wor Camala amb thronghont the westrum somth－ Wexom statis





 nsed in casers of whooping rengh．
＂Spikemarl＂（Aralia racenosa）．A plant of the ginseng family．The pinsengs are hinhly prizel in mediome，especially in Asia by the Chinese．The spikenard grows from a latge，spice，aromatie reot．It is a sister plant to the wida sarsabarila（Aralia Na？antim which is such a familiar pliant in our Toronto wools．



 the lamoing of hintlier.
 The timber is wery white.
 (Imorirama).







## VI

" We ment know when to donht, wher to fell certain, when to sulmit. Who fails in this mulderstands not the foree of re - יI. There are those who offond against these three rules ither by areppting ebe: ng as evidene for want of knowing what evidence is; , . ly douhting everything, or want of knowing when to sulmit: or hy vielding in everything, for want of knowing when to nse their julgment."Pascnl. " I'ensírs."

## Pibamile:.

From the trimmphat hour when Cohmbus, arempmind by coppereotouren

 inhahiting the mesterims western lands. The same ellosive problem has ehallengert the attention of scholars and seientists for four humdred sars and i- to-lay pleading for solation.

The literature on the shbjert is emormon and is. amomulatly, inderasing in bulk and eromplexity. Inteed, if all the bowk and pamphet that hal - heren written on the origin of the Amerima hadian comld be remaritated and enlleread. "the world itself." to repount the words of St. John, "would not be able to coretain them." Thre mists whid ohscure the heginnings of aboriginal man in .Imeria impuir omr vision to-day. and at hes we have only the consolation of the blimd man of hethatida, who
 may hope to stody and digest all the home and forvigu literature baring on the perplesing question. It most he can bint enil from the comfused mase a few importaut facte decisive of a partial sohution. In a imiof artiche - ond as this it is imposible
 attempt to reenome the enflicting upinions aral hypothese on the abstruse subject would involve us in lupreses confusion. In this article we will rindeavour to keep the gmestion free from ohseurity, avoiling when we can. terhnical words and expressions. We will follow what appears to he the lime of least resistanee, and alvance a theory which. in the attented solution of this intricate problem. presents the anthority of greater probability. If it were pusible to reconstruet ameient Ameriean history to-day, to plaee it on a solid fommlation, and to remuite in minterrupted chronological order the eosmographic fragments fonnd in Maya hieroglyphi- .ritings. in Hondurian Katuns, and in the narratives of Spanish and Ind...,phaish historians. much light might be thrown npon the origin of a musterinus rapr and or a land that disappeared in priniordial times.

## 

 knowlenge of man ineremers with the colargement of the terbent ofen to his



 If we stady cardinty the publications of that womderfal epoch and compare the
 de 'Anghiern, Wvimb. Cortes, bias. (iomarra and others, with the knowhelge ind


 the thomelte of the men of the twatieth centurys.
 tions of the aborigines of the newly lomme centinent and the filiation of their han-
 lands: they disputed over the trade winds mal the promid elorrents. They








 found sontiment of almiration the inteflect of that time aremped the dowe of the fifteenth and the whole of the -ixterenth renturios as "ras finll of the marvellons.


 imparted to him the first news of this astometing diser • Wha now.' he exclaimed. •an cerae to womder ober the diseoveries attributen o Sathrn, to Ceres and Triptotemy, or who ean lene that the lhenicians remited the wandering tribes and founded "reat citios in far idistant lnmes." It was resersed for our day to have enlarged the horizon of thought and to see lior inmentwe the pos-ibility of new and great achiow.mints."*

## 

In 191: Profesor Liram Bingham, Director of the Yald Dermian expelition.
 Urabimba liser. On returning to the Uthited States he vrote an aceonnt of his explorations. Ine tells us of the remains of a city that was wilt probably a thousame years before the Redemption: that the ruins are of extraordinary interest, of grat magnifieence and bulk. and that the ameient eity incheded temples. palatere and


[^29]
white granite, some of them twelve feet long, are so cut and jointed that it is sometimes difficult to say where the joinings are. Though no mortar or adhesive substanee was used, the walls have withstood the elements for at least two thousand years. Further on in his narrative Mr. Bingham adds: "The Peruvian pottery of these aneient people bears a striking resemblanee to that of ancient Greeee.
They reached a high degree of skill in the manufacture of textiles, and, from the wool of the domesticated alpaea, wore excellent cloth. We found surgical tools and instruments for trepanning made of obsidian. They tamed the llamas and alpacas, by the aid of which they transported, for hundreds of miles, stones weighing fifteen tons. In architecture, engineering, pottery, and textiles, they equalled the ancient Babylonians."*

The work that these early builders aceomplished is beyond our comprehension. Nor may anyone explain how it was done. Huge rocks that were quarried and transported with great labour and by the combined efforts of hundreds of men were fitted together with wonderful nieety. "To say there are seams too fine to insert a knife edge," writes Mr. Bingham, "leaves the story only partially told."

When Dr. George K. Cherri, the naturalist, returned in 1917, from his explorations in the regions of the River of Doubt, Brazil, he informed us that, when he visited the old Inea capital of Cuzeo, Peru, he found abundant evidence of a great and ancient eivilization. He also passed some days examining the pre-historie fortifications of Ollanytambo, "where," he writes, "great bioeks of granite, six feet by twelve, have been transported hundreds of miles to the summit of a hill so steep that I doubt if a goat could elimb it to-day.." The Spanish historian, Gareillaso, in his fifth volume, says that many of the stones in the fortress of Suesahuanan, Peru, are of great size, and that a Spanish priest, who visited the eyclopean structure, aceompanied by a miditary offieer, was so amazed at the massiveness of the blocks that he asked his companion "if it were possille for men to raise and place in position the stones without the aid of the devil." One of these stones which was liftel to a height of sixty feet weighs one humdred and seventry tons. $\dagger$

## Irmgation and Agricultcre.

Professor O. F. Cook, who, in 1915, explored the region around Ollantayamba. Peru, and studied the agriculture of the early people, informs us that " the ancient Peruvians were probahly the most industrions and highly organized people in history. Centuries before Columbus disencered America they had developed an intense agriculture." $\ddagger$

Peru reached a stage of reclamation project: long hefore Ameriea was diseovered by Europeans. "Our own undertakings." Mr, Cooke assures us, "sink into insignificanee in the face of what this ranished race aecomplished ( $p .4 \%$ ). The construction of the ancient chanmels for irrigation was an chormous mudertaking. perhaps not equalled in any other part of the world, and from these aqueducts alone we have the right to conclude that agriculture and horticulture must have attained a high development." Gareillasso, in his history, speaks of one aqueduet one hundred and twenty leagues long, with a depth of twelve feet, and of another irrigating eanal fiftr-five leagues in length. ${ }^{\sigma}$

[^30]

A handsome poncho in brilliant colors from old Peru.


The Great Cahokia Mound near St. Louis, Mo., U.S.A.

Writers of large historical works on America in early Spanish times, such as Garcillaso de la Vega and Cirza de Leon, may be susperted of exaggeration for effect, liut surely no such suspicion may rest on the names of eminent professors associated to-day with our great mniversities and national historical societies. Among these distinguished men is l'rofessor O. F. C'ook, who tells us that: "The ancient Pernvians had the most complete social organization of which we have any record. These people performed a lasting service for the whole world" (p. 533); and Scott Elliot, who writes: "In both these states (Mexien and Pern) copper seems to have been known. In Peru, under the Incas, metal work was very ingenious. Gold, silver and bronze were shilfully managed, beaten out, or worked up into filigrecs. There were images of singing birds in gold and a profusion of gold plate."* Te can now nuderstand why Piedrahita, Bishop of Gremad, writes in his history that lie saw" "elegant articles of filigree fashioned into figures of eagles, toads, snakes, and into ear-rings and bracelets." The philosopher, Carli, after examining articles unearthed near (uzoo, says that: "It is certain that Frenel mathematicians have not heen able to understand how these ancient people succeeded in making statuettes of gold and silver, hollow and thin, and of one east." $\dagger$

Of the adranerd material civilization of Central America, Pern, Colombia, and neighbouring lands. there camot now be two opinions. People who conld handle huge hocks of stome. determine the preeresion of the equinoxes, calenlate the periods of the monn and stars, build great pyramids and substantial honses in stome. iurent a hierographie and an ideographic writing, rearha high level in cramic. metallurgic. and lapidary arts. dig grat irrigating canals, eonstruct metalled highways and excel in agriculture, were. for their time, heyond eontradietion, a high barbarie, if not a civized race.

We are all familiar with W. H. Preseott's flamborant deseription of the harharic splendour of Montezuma's palace and of the eivilization of the Tolteres and Aztecs. yet. overlooking his exuberant imagination and the temptation to exagereate on the part of his Spanish authorities, we eannot eharge his witnesses with deliberate misrepresentation. Nor doss the fact that the Able Brasselr de Bourbourg is at times too greatly influenced by Maya meths and legends invalidate his proofs and arguments supporting the social eulture of the Mayas. We canmot suspert a eonspiraey of deception among all the Indo-Spanish and Spanish writers and historians of Mexien. Central America. and Pern. during the sixtenth and early sevententh renturies. In their ideas and in the expression of their ideas they differed one from the other, hut in their admiration for the rivilization, eren in its decay. of the Mayas and the Toltees or Azteses they were manimous.

The Indo-Spanish historiam. Fernando de Alba Ixtlikerchitl (pronomered Tsht-lil-shot-itl) in the Fourth Relation of his history says that "with tools made of tin and eopper they cut unt only metals hut precious stomes. They fashinned metal of gold and silver in a very delieate way. Their metallurgists so mixed metals that feathers of bird: and seales of fishes would be alternately of gold and silver. With tools of silver and flint, ealled quijarros, they carved images of their gods ont of alabaster and onys. Ther painted, trne to life, landseapes. birds, animals, fishes and lizards. They had senlptors, earvers, painters, mosi..ts, metallurgists and moulders to give shape to stone, clay and metal. Their jewellers and lapidarics could imitate all manner of plants, animals, flowers and hirds. From vegetahle and mineral dyes they rould imitate any colour, and from the hair of animals and feathers of birds, they made feather cloth."

[^31]Lizana says that the aneient Mayas hrilt four great roads through Yueatan. Chiapas and Taboseo, and that traces of these highwass remamed till the time of the Spanish conquest. Furthermore, Dexire Charnay, in lris ". Incient Cities of the New World," informs ws that he diseovered remains of a conerete road from Izmail. Yucatan, to the shore of the sea, facing the sareal isamd of (oximat. Ther immense ruins which the spaniards discovered in the regions lying between the (inlf of Darien and the Equator, particularly in the territories of C'artama and C'aramenta and the basin of the upper Magdalena; the roads metalled with great atomes, harger even than those in the walls of Cozeo, all these. with other existing trace of an ancient eivilization, prose the pepmbation and strencth of a race whidh, at the time of the Conquest, was descending to :avagery.*

More plants were domestieatel in Peru, than in any other part of the world. Domestication of a large series of erop plants, such as cotton, Indian corn, potatoes. casava, hans, peanuts, tobacco, quinoa, and the Gulielmo palm, dates hack to immemorial times. Botanists tell us it demands a very long time to rultivate and artificially propagate a wild plant into a domestic.

## Testimony of Eie Witnemenes.

There are seventy thonsand square miles of territory in ('entral Imerica, Chiapas and Y'neatan, where the traveller is seldom out of sight of some monmment, pyramid or group of buildings, the remains of an nnknown and pre-historic race.
 Stephens and Catherwood (1840), Désiré Charnay (1880-6), the Ahè Braseur de Bourbonrg (1854). Squier, Wahleck, and others, who travelled through these mysterions lands, testify to the excellence of the workmanship of the carly huilders amd eontend that these colifiese, huilt of large stones, laid, in many instamees. in mortar, are equal in point of finish to our hest modern masomrs.

On some of these buildings, like the "Casa Kabah" of Copm, words fail to give a clear notion of the work, for what definite conception is comesed when it is
 raried special shapes, ant each fitted in to represent some individnal part of the human face, some figure or geometric design, and all phaced together with such skill as to give the impression of an unbroken whole.

Nor can any man say how old these ruined structures of Pern. Colomhia. Mexioo. Yucatan. Homduras. Nidaragua and Guatemala are: when they were himit. how long they were inhahited, and when and why they were abandoned.

## 

"Nations melt from Power's higl pinatele, when they have Felt the sunshine for awhile, and downwarl go."
At the time of the discovery of America, the Pernvians, Mayas and Mexicans had lost the civilization of their ancestors and were descending to savagery. In spite of the fact that the Spanish eonquerors found the Mexiam tribes the most enlightened of all American Jurlians, yet these triles had fallem sadly away from the civilization of the Toltecs at the pre-Columbian Mayas. "The cult of Mexieo." writes Orozen of Berra. "was awtuliy hideons. It demanded a contimons shodding of hlood." +

[^32]Ruins of the Convent-Pachacamae-Peru.

Foul ithatry, gross superstition, cruel wars, and manibalism, threntemed the people of Mexieo and Central Ameriea wi.h extinction, or a degeneracy descending to the level of the Australian busiman. The ferocious and ruthless military confederacy composel of the ¿ztees. Acoluas and Tepanecas (Ixtlilrochitl, " ilistoria Chichimeca." Kingsborough A. $\mathbf{X}, 219$ ), meant a war of extermination or servile subjeetion fo all other tribes and, in the end, savagery for all. A. F. Bandelier, the greatest English-writing authority on Mexiean pre-inistorie eivilization, Charles F. Lummis. at thor of the "Spanish lioneers," and Susan Hale, writer of books of travel, agree in stating that, at the time of the Spanish eonquest, the triles of Mexieo and Yueatan were reaching the bed-rock of savagery.

## Age of Man in America.

Then, when atd by whom were these great pramids and splendid buildings eonstructed? If it be trne, as llubert II. Baneroft holds, in his voluminous work, " Native Races of the Pacia c," that the civilization of Central America antedates all eastern civilizations, the we may have to go baek very far to the time when the great strueture: were ereeted.

Colonel Galindo, the explorer, ako contends that America is the true eradle of eivilization, and Le Noir is of the opinion that primitive American civilization is mors than three thonsand years old.* Captaial Dupaix, in his book, says some of the buildings of Central Amerima antedate the deluge. IIe states that in one of the courts of Copan he found vegetable mould nine feet deep, the begimning of which dated from the final ahandonment of the buildings. In another court, at Pe!enque, the veneraine 1 Her and artist, Count de Waldeck, in his "Voyage Pittoresque dans le Yueat, tells us he measured trees that wero nine feet in diameter, sut this would be no pronf of the age of the hildings, for other trees mav have lived and frllen before Waldeek's trees began to exist. The Count also mentions that in one of the halls the stone tortoises, raised in relief on the granite floor, were worn down to almost obliteration by the feet of worshippers who were probably barefooted.

Charles Darwin, the naturalist, says he found on the Tsland of Say Torenzo, off the Pernvian moast, eighty-five feel abore the sen. shells that had $\operatorname{lon}_{3}$ lain dead at the 'motwon of the sea. Continuing his expurations, he came aeross ars of Indian corn and a piefe of decayed rotlon stiang. resembling the twine he fomed with mummified hodies in the aneient burial grounds or Huacas of the Perurians. He adis: "It is almost eertain that they (shells, eorn, ete.) were aecumulatid on a true beach upraised eighty-five feet, and upraised this mueh since man inhabited Pern." +

The remains of primitive art and the impress made be man on nature predicate his residenee in Ameriea to he eneral with the oldest events of history. The kitehenmidden seen he Sir Charles Lectl ; the mouth of Altamaha River. flowing into the Atlantic. was teu feet high and coiered ten arres of ground. "Tow maty veare." asks Brinton. "would it require to aceumulate such a mound of human offal. of bones. shells. and eharenal?" $\ddagger$

The ruins of Mitla. State of On:ara, Mexion. are today as they were when the Franciscan friar. Toribin de Benaventa. hetter $k$ - wn as Motolinin, visited and

[^33]
 tions of an earlier urehitecture altogether superior to that of the existing buidings.*

Early in 1916 Mr. S. S. Morley lefr the Linited States with a party organized for archarolugieal exphorations in limatan. It Tuhmm, ont the rast romet of Yueatan, he pl tographed and took measurements of a hieroglyphie monment earrying a Maya date corresponding to our year 390 A.D. At Uxactmm the party found the remains of a iarge eity and a monument belonging to Cycle s of Maya elironology, bringing the time lack to 50 I.D.

In Sonth Amerien, as in Mexico, Lueatin, in Centrul Ameriea, everywhre, we find the remains of a prehistoric eivilization, a eivilization so old that we cansot, even approximately, estimate the cra of its deeline.
" Xear these regions." says Theotore Roosevelt, writing of the forest wealt, aromed Paramo de las Pappas, State of Cohmbia, South Americi, "eivilization after civilization has spmug h.p, flourished and withered away to mothisg during the dim ages before the Spanish sea-faring adventurers first erossed the western ocean." $\dagger$

In 1916 the Americin Minemm of Satural History sent Profesor Leco F. Miller
 $o^{e}$ rare birds and their nests. Returning, in 1917, he trlls ns that in the forests of these menfequented and uninhabited reations he fond the remains of rninel temples, altars and monoliti, $\begin{gathered}\text {, stone images from two to cight fret high, and "the "emmants }\end{gathered}$ of works of art which have vielded to decay with the passing of the renturies." Contiming, he wr.tos: "Just how to aecount for the advance of eivilization to a
 organized form of goiemment, and then to explain it: completre extinction, is a question we cannot allwer."

Dr. Unsolding. Curator of the Paraguay Nitional Musimm, visited, in 1916. the remains of the ancient eity of Tialmanaen, Bolivia. and the ruins of a city
 ra and prove the exteat of ancient Ameriean civiliation.

Admitting then, with Profeson rooke, that there was in Amerime at least two thonsand yrars ago. a civilization not inferior to that of ancient Eerpt and I-xria, we are confronted with dwo problems inviting a solution:-

1. From what land did these ancient people eome?
2. How did their civilization originate ard develop?
"The Chureh is eommitted to mo throry as to the nge of the world or its inhathitants." —" Erolıtion anıl Dognıa," XXV, J. ג. Zalım, Ph.D.. LL.D., C.S.C.

## Age of tife Mlman Race.

While Professor Cooke admits that American civilization existed $t$ :re or three thonsand years before the time of Colnmbins. he dees unt, nor dofs pay palentologist, undertake to say how long man has existed on the Ameri an Continent. If we can determine, even approximately. the beginning of man's appearaner on our earth. it may assist us to explain how human being: found their way to America in the remote past.

If. accorling to Professor Keith. Who has written many books and papers on authrmalogy, man was upon the earth 350.0 no years ago. then lie was here in pleistocene time. the period when, according to reest authoritics on efeanic clanges. America was mited to Earope and Africa iy land. "Evan -inee the fact of the

[^34]antiquity of man was first accepted ly European geologists," writes Alfred Russel Wallace, "each fresh discovery tends to extend that antiquity. The real mystery is not that the works or remains of ancestral man are found throughout the pleistocene period, but that they are not also found throughout the pliocene and also among some miocene deposits."* Many years before Wallace's studies in paleontology, Sir Charles Lyell wrote: "But that the growing power of man may have


Henry Fairfield Osborn, in the introduction to lis "Men of the Old Stone Age," tells us that: "According to my view, man, as snch, chiefly evolved during the lalf million of yars of the Pleistocene epoch." Further on he adds: "We have an unbroken record of continuons lablitation (in Europe) from a period as remote as 100,000 rears." Writing of the "cave finds" in France and Spain, ha adds: "The earlicst of these undonlited handiworks occur relatively late in the Pleistocene. mamely. ahont 1 j 0.001 years ago." $\ddagger$

Dr. Smith Woodward ays that the Piltdown brain case, discovered a few years ago in England, belongs to early pleistocene time, that is to say, that man was upon the earth three linndred thousand years ago. Nearly all palenntologists and geologists admit that man lived in the pl istocene age. Now if it can be shown that in early or late pleistocene times a land conneetion joined North Amerien on Europe and to West Africa. then, possibly, it can also be shown that man at one time lived on this now submerged land and nsed it as a bridge, as did animals, to pass from continent to continent. Sisty years ago the possibility of a land connection between Europe and America was denied a hearing by the scientific anthorities of the time, but the immense advane that ha been mado in the study of botany, zoology, ichthyology, reptiles and amphibians has, to-day, placed heyond successful contradiction the necessity of such a connection. When, seventy years ago, D'Orbigny argued in favour of a land hridge across the mid-Atlantic to enalle certain species to cross the ocean by travelling, along a enntinuous shore line. his contention attracted little interest annong the learnel men of that time. To-lay mearly every zonlogist of repute admits that it is impossible to explain the existence of identical spenies of fauna ior Fnrope and Am rica. without admitting the existence in early times of land $i: 1$ the Atlantic conne ing the two enntinents. So that now we are driven to aeknowledge that the meths and tralitions of the Carthagenians. Feryptians and Athenians. of a sulmerged eontinent were foumded on a reality.

## Traditions of the Ancients.

Long before the time of Columbus there was handed down from remote times a helief in the existenee of a great island or islands far out in the Atlantie neean. known as Antilla, or the Antilles. The tradition of a lost eontinent always lingered

[^35]with the people inhabiting, in early times, both shores of the Mediterranean. The Carthagenian and Ihenieian navigators were known to have risited strange lands lying beyond the Canary Islands. Unless there was some communication, in the thirteent!, and fourtenth centuries, between Europe and America, it is dithicult to explain how, as Muratori has shown, Brazil wood wins entered as a taxable commodity at the Port of Modena in 1306; or how Indrea Bianco's map, preserved in St. Mark's Library, Veniee, and constructed in 1436, places an island in the Athantic and calls it Brazile.*

Plutareh, in his "Life of Solon," informs his readers that when the Greek sage visited Egypt-six hundred years before the Redemption-ligyptian priests, whom Solon hal met at Sais and Itelipolis, said that nine thonsand yenrs before their time a great continent called Atlantis existed. That it was peopled by a commercial and military ruce with whom the ancient Lybians and those living in the basin of the Mediterranean traded. That, in time, voleanic eruptions, great earthquakes and inundations of the sea overwhelmed it and it disappeared for all time. $\dagger$ " This marrative of llato," writes the French astrmomer and historian, Bailly. "han- all the marks of truth. It is not a fiction invented to amuee and instruct his readers." $\ddagger$

Perhap the stronerest proof that Plato did mot invent. but arenrately quoted Solon is that, six centuries before his time. Homer, who was well informed on the geograply and custons of foreign people, refers in his Odysey to Atlantis and the islands of the sea. Christian Bunsen. whose vast arndidion ronstitutes him an authority; reluetantly admits the narrative of Solon to be authentic and that possibly an Atlantis once existed. §

Adverting to the vitality of a tradition, it is of importance to remember that the word Athas is fomd in the writings of nearly all the authors of ameient times, and that the land and people of Atlantis are mentioned as existing in the Athantic Occan. In the classic authors of Grecee and Rome mention is often made of a Saturnian land lying towards the setting emn, distant many stadia from the lillar; of Itercules (Gibraltar).**

Moreover, a belief in the existence of this land in the middle of the Atlanti?, and its submergence, due to violent seismic convulsions, was held by scholars even unto the fifth century. Proclus, the great teacher of the Neo-Platonie sehool at Athens, a man familiar with the science and knowledge of the ancients, tells ins in his "Commentarie, on Plato's Times," that: "The famous Atlantis exists no longer, but we can hardly doubt that it did once. for Marcellus. who wrote a history of Ethiopian affairs, says that such and so great an island once existed, and that it is evidenced by those who composed historics relating to the eternal sea, for they relate that in this time there were seven islands in the Atlantic sea sacred to Prosperpine: and three of immense magnitude were sacred to Pluto, Jupiter and Neptune: and besides this the inhabitants of the Island of Poseidon presersed the memory of the prodigions magnitude of an Atlantic island as related by their ancestors. and of its governing for many periods all the islands on the .Itlantir sen."

[^36]The same author writing of "a western continent," says: "It is several thousand stadia from Oxygia."*

Diortorns Sienlus, the Greck historian, who lived one thousand five lmodred gears before Columbes diseovered Ameriea, attributes the diseovery of America to the lhenicians, and deseribers it as a land where the anpert of the country is caried be very high monntains und where the temperuture is ever soft and equable. Then he says: "Over ngainst dirion was ut one time a rery gront island, mally darse ail
 by suceessive convulsions." It is possible thint the supposed submergente of . Athutis oceurred much later than the Cretaceons period of the Mesozoic age, for on Atluntie
 perioxl, the heriming of the quatermary age, whell man is kitown to have heron on earth. Now, if the traditions of the ligyptians, Grevians und Curthagenians are not mere figments of imagination, there must have been a continent, n very large island, or muny islands in the Atlantic inhabited ly men and women. But all oeranie islands at a distance from their nearest continents were, from historic times. uninhabited. In the Atlantic Ocean the coral Bermudas and Barbaloes, the volcanic Azores, the Falkland Islands, St. IIelena, and Tristan d'Acmah, were all uninhabited. Even New Zenland was mipeopled until A.D. 1400. In the entire Ithantic the Canary hands alone were inhahited, and when in the thirternth entury: the Spaniards discovered thent, the fair-haired ano due-eved tribes of the islands cuuld tell nothing of their origin or where they enme fi m. They eafled themselves Guaneles and told the spaniarls that God had place! them on the islame, and. since then. hull forgotten ill about them. They believed they were the only people living upon the earth. All the islands of the Preifie lying west of Sonth AmerieaJuan Fernamde\% (hohinson Crusoe's island). Massa Fuera, (ialapago and smaller islands were minhalited. So we may rasomably conchode that the first inhabitants of Amerian were natives of a contiment.

Asoming then the existence, at ome time, of a great inhabited hand in the Atlantic. many of the people must have cesaped to America. Furope or Western Afriea, and reestablished themselses on the shore-hands, origimating and prpetnating the tradition of a wreat cataelysm, for how otherwise can we areount for the survival of the memory of Atlantis in Enrope. Afriea and Amerien.

On the eontiment of America the emmetries which have furnizhed ns the most insahable and illmminating information of their aloriginal people are Central Amerien. Yueatan and Mexien. These are the only lands where were found original docmments (eodices). inseriptions, and allurorieal figures chiselled on the monnmental walls of civil and religions edifices or on monolithe: of aboriginal and peenliar sharacter.

The earliest of these eolices record the memory of three great eatastrophies whieh, at separate times, in the history of their races visited their ancestors. and the tradition of which was perpetuated to the time of the Conquest.

The chiefs of the tribes peopling the islands of the Caribbean Sea, at the time of the diseovery of Amerien, repeated with entire manimity that they had heard from their fathers and mere old men that the Telands of the Antillos (West Tndies), great and small, imelonged, it: remote times, to the main band. from whiel they had been detached hy great earthquekes, voleanoes, and inundations of

[^37]the sea.* The history of a grent cutaclysm is ntwo recorded in the "Hn" Maya record printed in Maya clmracters, with translation into Smansh by

The scholarly Voun llmohilalt was at tirot dixpoeded the revard theme





 arimot

If thix emment man, whese histuric intuitions were nt times alm -i inf tions, was nble to examine the docomente now neessihle to students history and to have weighed their contents with the same critionl anm j . Whieh he bromght to the study of his "Ihstory of the liengraphe the American Continent." he wonld have admittes that the eosmogomi. .. eris


The Abe Brassene de Bourbonrg. who lived anneng the May of li. translated into Frewel the saered book of the Quiches. the " Bopui- Dilh." an a member of the Commission astablished to examine into the arts and sies aneient Mexieo, assures ns that al. ower C'entral Americo. linatan and Mran...
 tinent is reeorled. "Pheir memory of the grent tragrely." he adds. "is that



 dehger in antrelihvian times and lend to the migration and dispersion of man members of the himmun family."

St. Augnstine semis to he of the same opinion when he says: "The partial deselation of the earth be the deluge and he upheavale left mutoneled certain meme bere of the lmman famity to repair the lose of the loman race."§ This appalline eataelysm marked, prohalily, the destruction of Atlantis and many of the ishande of the sea. and was perpetnated in the revords of the eivilized mein and womell who eseaped. "The memory of a series of frightful eatastrophics." writes the selhelarly Brassenr de bumbourge in the introduction to his translation of tha ' Popml-Vinh." "whiel in rempete times visited Amerian, still remains with the frople of Mexieo and Central Amı .ea."

T:u Tonatamalle. or early Mexienn ritual, the rules Chimat-pmperan, the Drestiai Codex and the "IVistory of the Suns," eepied by Vom Inmbuht from Gomarra: "Conquest of Mexieo." all mention a series of errat eatastruphice or eruptions. earthynikus, hurricancs, mud tidal immulations, which destruyed miny of the people and submerged an immense territory.

## Drev ts Cion the Bonk of Tine.

As we adranee in the study of our world and its ancient inhabitants we perceive that, in seventry years, seienef has taken giant strides forward, aind that that

[^38]which was but a theory sixty yeare ago is now accepted as a ceality. We know now that, in kenhogicul times, hand mul sen have shifterl, the outer rims of continents. altered and raised, and that the shore line of western Enrope was in the past far out
 in his history of "Prehistoric Europe," says that the bed of the Ciermmn Sea was nt one time dry land. It is now admitted by geolugiste that France, the British Jsles, the Shethmils, the "renieys, und the Furee gromp of ishumes, were mited by a ridge. now sulmerged, which ages ago joined them together. In the past no scientist of repute openly sustained the $\mathrm{i}_{\text {. }}$ : uthesis that at any time in the life of our earth a land connection existed between the old and the new world. The eloud of mystery enveloping ancient traditions and myths was deemed to be impenetrable, but recent discoveries afford the pmssibility of solving a problem supposed to be, like the elixir of life, ontside the province of serious speculation.

But now that the subject has been investigated with the thoroughness of European seholarship, Atlantis is no longer a romance embellishing the tales of vision ries, or imposing hy its rathese nom fuscination on the gooml nuture of cremblity. If, with Newtt Filliot num Sir Kirnest Sharkleton, we whit that the antaretic regions of snow and ice were at one time a land of song birds, labbling brooks and great forests, then, since that time, anything may have happened.* Fossils of marine animals were fonnd in the Andes at a height of 14.000 feet and in the Himalayas at an elevation of 16,000 feet. When the Spaniards first landed at Gremada. Tobago, Haiti, and other West Indian islands, they saw an extraordin:, $y$ nomber and rariety of unfamiliar animals, ard among them the agouti, armadillo, the peecary or Mexicati musk-hog, the manieon or Grennta opossum. deer, monkers. suakes. and many smal! animals now exterminated. Thongh some of those isiands are more than one hundred miles separated from the main land. the fact that these animals were on them proves that, at seme time in the past. the islands were torn hy violent convulsions from their parent land.

Anyone at all familiar with the coast line of the gulf: of Paria and C'arioco cammot fail to perceive the effects of a violent rending apart of the region, which opened a passage for the waters to enter. Nor did tiis separation oecur in very remote times: for when Colnmbins, on his third vorage, visited Paria, the natives spoke of the eatastrophe as an event which was not very old. $\dagger$

In faet, all the indigenons tribes existing at the time of the Spanish Conquest. or before the extermination of the Caribs, in Central and Sonth America. in Mexien and the Weat Indies, retained a tradition of a frightful calamity which, in the remote past, threatened the perpetnity of the hmman race. The traditions. momnments and lore of all these races and peoples reeord an immense eatastrophe to which their remote ancestors were witnesses. It is everywhere the same tale, the ocean breaking its lomblarics and overwhelming the land, destroying citios and their populations. It is the story of a emotinent hroken by the same sloeks which troubled the waters of the great sea and lifted mometains. "hose who escaped the eata lysia hile pyramids where they settled. in memory of the high places to which they fled. and in thank:giving to their gods.

[^39]

## What Time Has Left Us.

The existence and disappearance of the continent has eeased to be one of the romanees of the world, and now, in its vastness and greatness, takes its place among the eertainties of the remote past. The examinations made, the faets recorded by I'rofessur Carl Gagel, and the diseoveries made by the French paleontologist, Mr. Pitard, go far to prove that a great continent at one time existed in the eastern half of the Atlantic Oeean, and that the islands of the Azores, the Cape Verde and Chary listands, are the remains of the submerged land. Herr Gagel, one of the most eminent oceanie students of Europe, proves that the voleanie coverings of all these islands have under them more ancient strata snch as would eonstitute the base of a continent.
M. Pitarl fomed in the Canaries mondoted cretacems or chalk deposits, and burimes in the C'ap Verde islands have shown sedimentary strata muler the volemic roeks. It is probable that the disappearance of Atlantis ocenrred mueh later than the cretacems period, for on some of the Atlantie i. lamb-the remains of the eontinent-species of animals and families of plants were found belonging to the pleiotwene are when man was un the math.*

Even in the Pacifie Ocean a great body of land must lave, at one time, existed, leaving many islands to ronfirm its disappearance. Of this, that hard-leaded and practical mavigator. (aptain IV. J. J. Spry, of the Challeuger, entertains no donbt, for he sars: "Before the Delnge. in the Paeifie Deean, was a continent oecmpied hy a race of hmman beings in a high state of civilization. In New Caledhial the remains of all aneient city. with pared roms and ant aquednet, have heen fomme. In the Marquesas. the Navigators. C'arolines and Ladrones, many gigantie aneient rnins have been bronght to light." $\dagger$

The wonderful areheologieal remains of Easter Island, Somtlo Parifie; the immense platforms formed of large stones. some of which weigl five tons: sea walls two humdred firet long and nearly thirty high. and colosal statnes of lava-stone. thirty feet high, testify to the exi-tenere. in the pasi, of a race of homan beings superior in edncation and intelleet to the Pollyesians and Mahas who peopled the istands long after them, and who knew nothing of the men who raised these memorials. When Mr. Seoresby Rontledre. who had pased sisteen months on Easter Jilant. arrived in England, June ?4. 1916. he informed the memhers of the Royal Gengraphical society that: "The many stome statnes strewn abont the interior of the island. which lave heretofure heen sumpeed to lave been abandoned in the ir present locations while being transported from the platforms or terraces along the enast. were actually arranged along former ronilumys, and were evidently intended to remain where they now are."

We have 10 reason to donlit the acemracy of Mr. Rontledge's statement, which ques to prow the advaneme rivilization of the ancient inhahitants of the island. $\ddagger$

[^40]
## Testimony of Twentieth Century Scholars.

Professor R. F. Seharff, member of the Anthropological Society of Paris, after years of study of the faunal life of Europe and America, proves that, at some time in the past, America and Europe must have been united by land. He writes: "That such a land connection must have existed in recent geological times I do not doubt. The snail must have slowly wandered during a long series of centuries from the old world to the new by means of an aneient north Atlantic bridge."* He maintains that " all the deer in South Ameriea have originated from one or more aneestors whieh invaded that eontinent from West Europe in tertiary times," that the zoological affinity between Europe and North America is so strong that nothing short of a wide and consenient land bridge. with lakes. riwers. and mountains, will suffice to explain the meaning of certain paleontological facts. On page 153 he make this bold statement: "What l wish to make elear is that luge ereatures, requiring an abondane of regetable food, must have poured into. Amerian in the era of mammals and leaf forests." In support of his claim for a sulmerged continent he summons as witnesses the naturalists, Dr. E. S. Morse and Professors Winkley and Cockerell. To these eminent names may be added that of ( C . W. Johnson, who, on page 73 of his latest work, "Distribution of Helix Hortensis." is of Seharff's opinion. Scharff, furthermore, adds that the seeds of anemones and other plants could not have found their way to Ameria by the Bering Strait. But that "they eame by migration from Europe to North America by a great land hridge," and that nothing slort of a wide and convenient land connection between Ameriea and Europe will suffice to explain the existence of ganoid fishes in the Mississippi hasin.
 contended for an Atlantic continent, now admits in his "Mamul of Conchology" that Afrira and South America were in remote times united by a land whieh has disappeared. Not only that, but many of those who belieced in the immutability of an Atlantic basill, have, after a careful study of the \%ongengraphy of Ameriea, changed their ciews and now admit the absolute neecssity of a land bridge. Among these learned men are included Mr. Andrew Murray, who in his work on the "Coleoptera of Old Calibar" (p. 450), tells us the islands of St. Paul. St. IIelena. Aorellionl, and Tristan da C'unha, are the wrecks and ruiln of a submerged continent; Dr. A. E. Brown, "American Big Game" (p. 87) : N. T. Krishtafovitel,
 (p.12). and J. L. Lobley," American Fauma and Its Origin" (p. :3). all plead for a lost continent. If it be admitted that animal life made its first appearance in the wh worl!? and that the fresh-water fish in our far inland laker and risers. the suakes and reptiles in our great inland forests, the nammals, the bear, lison, monse and reindeer, were fonnd everwhere in North Ameriea no lundred years aro, then, as a corolary. the existene of a hand with rivers, lakes. and montains, lentwen the old would and the new. must be enoceded.

Even that close reasoner and scientist, l'rofesion Laciker, enntends that ouly he a land hridge ( Atlantis) arrose the Atlantio rould the anowtore of the Sinta Crucian Polyprotodont reaeh this continent. $t$

If it can be proved, and we think it can, that this great and wide eanseway letwe Europe. Africa, and America, was inhahited in mombers of the hman race. then the "Origin of the Imerican lndian" eeases to lwe a problem baffling solntion.

[^41]


[^0]:    * Address liffore International Zoological Congress, Brtin. 1901.
    † " Philosophie Zoologigue," Paris, 1829.

[^1]:    * Appenilix, Note I.

[^2]:    * Note 2.
    † "'Tolstoy's Diary," Oct. 14, 1897.

[^3]:    * "The Life of Benjamin Disracli, Earl of Beaconsficld." Vol. IV. p. Bie. The Macmillan Co., New York, and Lord Beaconsfield. J. If. Froule, p. 175. Samson, Joudon.

[^4]:    * "I may say that in my opinion true Science and true Religion neither are, nor could be opposed."-Lord Rayleigh.
    "Between the cssential tionth of Christianity and the established faets of seience there is no real antagonism."-Sir William Ramsry.
    "There is not and never ean be any opposition letween Scicmee and Religion, any more than there can be any betwenu Grammar ar 1 Religion."-Professor Jomos ITard.

    Citations from Arthur H. Tahrmis: Religious Belirfs of Scicntists. Immer \& Longhurst ; London, 191.3.

[^5]:    * "Oriental Travel-," Lomdon, 1869.
    †" P'ushing R...ek History's Morizun." Ihiladelphia, 1916.

[^6]:    * " Philosophr of History," Vul. I, p. 4 S.
    $\dagger$ Appendix, Note 3.

[^7]:     the London Schoul of Modicine for Women. The Professur informa us that "Man combes "f an arhoreal stock. Arhorent uprightness precelod terrestrial uprightuse."-Arlureal Man.
     law of causaliter attempts to prove that the effect is greater than its cimse.

[^8]:    * Prebistoric Man and IIis Story," p. 50.

[^9]:    ; "Deseniption of British (iniana," Selomburek, 18t0. Lomdon; "Wanderings in Smith Ameriea." Waterton, 1839, Lomilom.

[^10]:    * "La Melerine Chez Ies Chinois." P. Dibhry, Pomis, INis.

[^11]:    *Apremix, Note 4.
    $\ddagger$ Bapon, Vol. VII, p, a3n.
    $\ddagger{ }^{\ddagger}$ Athas Fithographique da Cilohe." dap, iv, p. 9 ?

[^12]:    * I. I. Times, Dec. 'Oth, 1916.
    f "The Belief in God and Immortality,' Sherman French \& Co., Boston.

[^13]:    * Appemlix, Note $\mathbf{I}$.

[^14]:    *" Prehistoric Man and Mis Story," Jalj. Sieley \& Co., Lomdon, F..

[^15]:    * Appendix. Note 2.

    3 P.M.

[^16]:    *"Man or Ape," p. 91.

[^17]:    * Ippendix. Note III
    tsir• Appendix, Notr IV.

[^18]:    * This spholarly address was puhlishme in Harper's Monthly Manozine. Mireh. 1!on:3, pp. $5.24 \cdot 540$.

[^19]:    * Our Sariour was eruefied on a Tau-T.Cross. The small headpiece hearing the inserip. tion, "Jesus of Nazareth, King of the Jews," was mailed to the transverse leam of the Tan, thus forming what is now ealled the Latin Cross, thits + . Death by the cross was common among the Syrians, Egyptians, Persians, Greeks, Romans and Jews. Pharaoh's ehief haker was beheaded and his hody fastened to a cross (Gron. xl: 19). Haman prepared a great cross on which to hang Mordemi (Esth. vii: 10). The Jews do not admit that they crueified living men. They contend that they first put them to deuth, and then fastened them to the cross hy the neek or the hands. But though there are many examples of men thus hung on the eross after death, there are indisputable proofs of living crucifixions in their history. The worshippers of Bat-Peor (Numl, xxr: 4) and the King of Ji (Josh. vii: 2a) were hung on the eross alive. Alexander Jannaens, King and High Priest of Jerusalem, seventy vears before the Christian Era, erucified eight hundred of his rehellious sulijects at a great entertainment organized for his friends. The seven sons of Saul were also crucifich while alive, hy the Gideonites, and this was done hy nermission of King David (2 Sam. xx: 9). The threo hundred citizens of Tyre, crucified on the senshore ly order of Alexander the Great, were nailed to the "Cross Ansata or Phalloid." The Maecdonian general ordered the crncifixion by the Phalloid to show his contempt for a people who were given to phallie worship.

[^20]:    * Encyrlop. Met. Article. Egypt.
    † Ellan. Vannin. Dy: Bragh. "The Midille Island for Ever." The Manx motto isQuocunque jeperis stahit-"In whatever direction yon throw him, he will stant," referring to the thiee lears on the shieth.

    末"Ugamla," Sir II. Johnston. Fig. 14.3

[^21]:    *Cités et Ruines Amerivaines," p. is et stif.

[^22]:    * The Cross and the Swastika in Amprira, partieularly in Yucatan mal Mexion, are fro-
    
     des Chiehimefues" p. 5: Cogolludo, "Hist. de Fuentan," : book 4. Chap. IX: Sotomayor,
     Cross were collected from the books :amp pamplets left ly the Mexie. Spanish writers of the
    
    + The oll Santa Fé Trail, p. 은.

[^23]:    * Sume of my remers mis forl dispmsed to rhallenge this statoment. If so, I mas remind them that at the meeting of the "Comeregation of the lumex." ealled to ramine the
     his opinion on the comontion of Vossins that the "Aleluge was mot misersal rither in its applieation or it its affers." Mahillon replied that the thene uf Vossius rould he aceptend
    
    
    
    
    
    
    
    
    
     grat leante, the greatest womers wr bise yot sem in the Imlies. Thene huthongs are all
    
    

[^24]:    
    
    
    
    
    
    
    

[^25]:    *Hormontus, Eutorpr. chap. St.
    † Clin, Chap. 197.

[^26]:    ¡llnarer Finul., Lit. V.

[^27]:    
    
     Tuteln, wns ! 1 when be died.

[^28]:    
    
    
    
    
     "ffoll morderoml."

[^29]:    *"De Insulis Nuper Repertis." Preface VI.

[^30]:    * "Explorations in the Land of the Incas." Washington, 1916.
    $\dagger$ Prelistoric Man, p. 264, Scott Flliot.-Scely \& Co., London.
    i Stairease Farms of the Anrient Pervvians." National Gengraphic Magazine. 1016.
    f The old Spanish league is equal to 2.41 of our miles.

[^31]:    " "Prehistoric Man and His Story," p. 263.
    f "Lettres Americanes," Vol. I. p. 21.

[^32]:    *In the fortress of Cuzen. Peru, are huge hoeks of stone, 35 feet long, 18 feet wide, and 6 feet thick, brought from a guarry twelve miles disant.
    t" Historia dutiquin de Mexien," Vol. IV, L. III.

[^33]:    " "Antiquités Mexicaines." Vol. III, p. 73.

    + "Arological Ohservations." p. 26n. Anpleton \& Co.. 1897.3 m nit.
    $\ddagger$ Myths of the New Worlif," p. 37. Holt \& Co., N.Y., 1 ssf.

[^34]:    *"Les Anciénnes Villes de Nouvean Monde." p. 6\%.
    † Scribner's Magazine, May, 1917.

[^35]:    * "World of Life," pp. 246-947. Bell \& Sons, Lonilou.
    + Antiquity of Man." p. 418, 1873 ef.
    \# Professor Ermest Meinrick Macekel, originator of the theory of "fimdamental hiogenic law." in his "Natural History of Creation," goes hack one lundred millions of years for the heginning of life upon the earth. His geological chart of the earth starts with the Laurentian, millions of years ago, and is contimons up through the Combrian, Silurian, Deronian, Carbon, Prominn. Trins, Jurn, Choll, Enerme (2sn,000 wears ago). Mincenc. Pliofene (the three forming what is known as the Tertiary Age) ; Glacinl. Post Glacinl. and Rrent. Haeckel's first man appears in the Post Glacial era, say 40,000 years agn. The word Pleistocene used by Prof. Oshorn ami nthers was a term introduced by Lyell in 18.3. for later Pliocene. It is now understonil to mean the older of twn divisions of the Post Tertiary or Quaternary reriot hundreds of thousands of years back in the palacolithic age.
    *"L'honme Americaili," p. 411.

[^36]:    "Cardinal Wiseman's "Stuly of Languages." p. 86.
    \% "Plato's Timacus," translation of Vicior Cousin. Vol. XII, p. 3.
    $\ddagger$ "Essay on the Origin of Fables and Ancient Religions." Intin., p. 11.

    - Homer, Book I, Part II, Bryant's translation.
    © "Egypt's Pleef in the World's History." Von. IV. p. 421.
    ** Rock of Gibraltar, the Calpe of the Ancients, was the Alyyla or ""Apes Hill," the opposite promonto. $\because$, the westion end of the then known world.

[^37]:    * A Roman stadium is almost an English furlong. Oxygia, the island where Ulysses was detained for vears hy Calyps. It was the name of an island said hy Homer to have existed in the middlle of the Atlantic.

[^38]:    *"L'Histoire Primitive," p. 25. nar Brasseur ie Bourhonrg. Paris. 1864.
    $\dagger$ It is referred to by Landa and Cogolluilo in their books on Yueatan.
    $\ddagger$ "Vues ding Cordillicres." Vol. II, Chap. 27.
    "Smures de l'Histnire Primitive du Mexique." Paris, 1864.
    o "De Civit, Dei," lih. XII, p. 10 et scq.

[^39]:    ""Prehistoric Man amit His Story:"p. 86. "Shackleton in the Antaretic," London.
    +Codazzi. "Resumen de la Geografia de Ven - tuela," pp. 4, 6, 7.

[^40]:    *The words Atlas and Atlantic camot lif tracel to any language known to Enrope. Their origin and etymology are a mystery, The Mexieo-Spanish historian, Molina, says, in his "Vocabulary of Mexican Worls." "That from the radieals a, atle, is derived the word Atlan. meaning, in the Yahuatl language. on the border or in the middle of water, and from which comes our adjective Atlantic. A town called Atlan, with a good harhour, stood at the entrance to the Bay of Darien, when Columbus first visited the land.
    $\dagger$ "The Cruise of H.M.S. Challenger," W. J. J. Spry, R.N., F.R.G.S., p. 208.
    $\ddagger$ The island has an area of about fifty square miles, is $\mathbf{2}, 300$ miles west of the eoast of Chili. The famous stom images at Romeronaka, Faster Islami, the cigantic statucs referem to hy Mr. Routledge, s...d the ruins of stone honses, are the remains of a race whose origin is unknown and of whom there is no tradition.

[^41]:    *"Distribution anil Origin of Life in America," p. 14. Constable \& Co., I.ondon.
    t Golngirgl Mistury of Mammals," p. 112.

