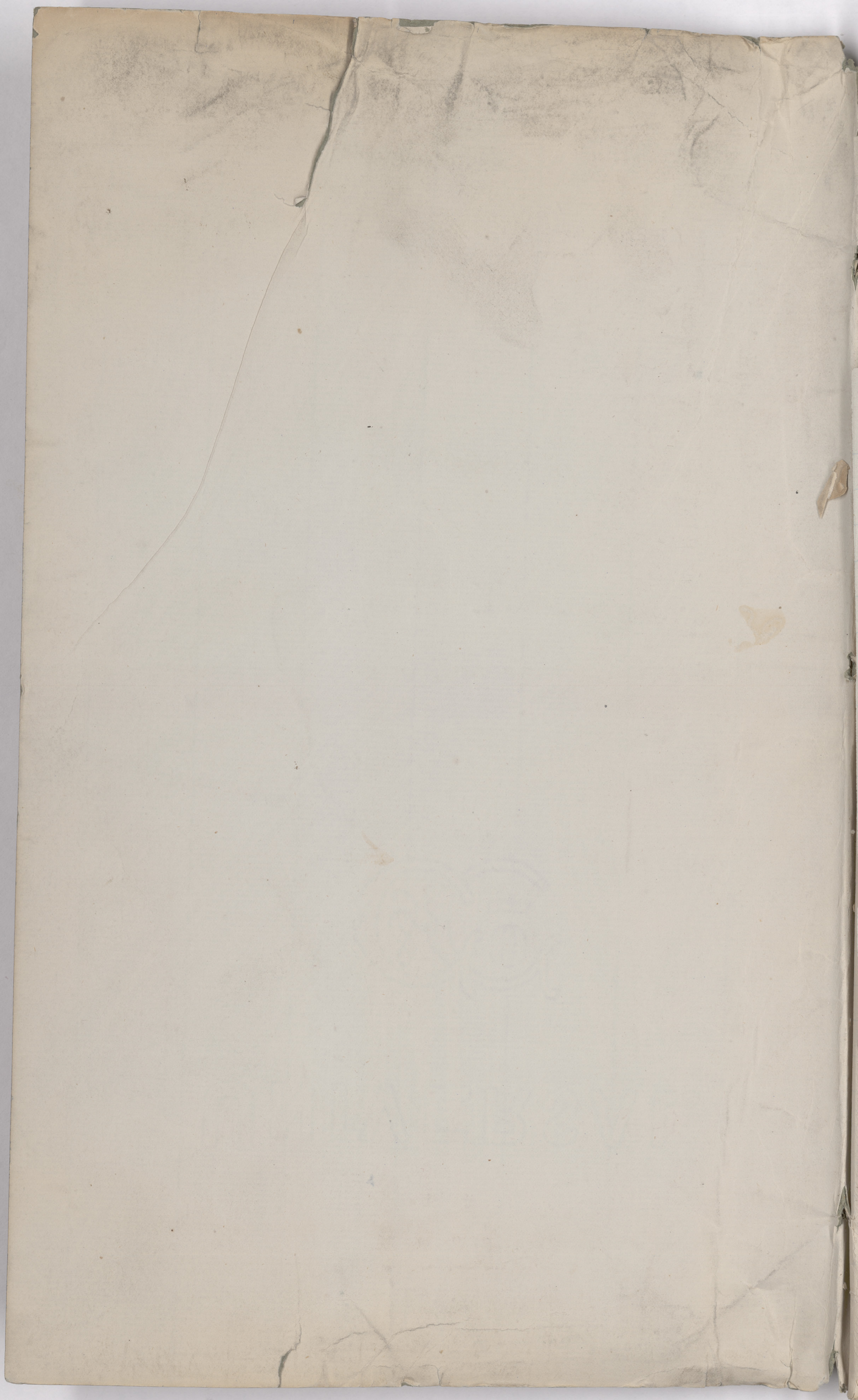


*Mod Science in  
Bible Lands  
of  
Jornl Men*

*Antiquities*

*Jornl Men  
Evolution*



Can we do without the bible —  
when its heart is speaking to  
the heart — its — structure to  
the human soul — & mechanism

For what

Man  
People  
It is  
Love  
Weep  
Soul  
Spirit & Soul  
Soul  
Walt

was  
Summary in  
Soul  
was

Nature May 4/76

No remains of man's  
than Pleasures  
often not even than  
present low cases  
no trace of man  
love than a few  
traces in us  
with  
mystery

Can we do without the bible —  
When its heart is speaking to  
the heart — its — structure to  
the human soul — & merchants

22

Flowers  
Summary in  
Sulphur  
Wax

Nature May 9/76

No remains of man like  
than Pleistocene  
other not even than  
present low cases  
No trace of man  
even than a few  
bones as by us  
with  
mummies

Murri  
New W Reddy says Murri  
are Australian

Believe in Creator  
Barame from Inua to  
make

Good go to to Mume and  
are placed in  
chick key  
Bad pen at death

Then Marriage system  
is that of Faniel  
& chereany

Notes on Scandinavian Myths

Oden = Mawatha

Thor god of Thunder  
Weather  
Fruit

Idun = Kubrick  
Fruits of

Sokke = Tree

Rune = Fruit

Hymel = Beys

Balde = Sun

Bela = Stakeone  
Fishes of Love  
Cyrus = Bela

Aeyr god of Wind

All other Gods

= soil mountains

connected with fruit  
as sun

Ygdras = All tree of

Structure =  
Land tree

Soll  
Bore 1899  
S. M.

Let's  
Klein's

Religion  
Maker & Sufferer

In church - Egoism & Time  
ruined by egoism - they  
of egoism all of egoism

In books - Fictions &  
ideas & egoism & egoism

In our thoughts &  
Cells - Cells  
Journals -  
then of egoism  
& modern progress

New United Nations  
Makers of  
Museum  
New United Nations  
of egoism

---

What the end  
any more day  
of the world  
and day

see notes for people & names  
Muni Jemi, Chippewas  
Ahu - language features see to explain

They are somewhat like any of  
Delaware folks or West Coast  
Cherokees or flat heads use of this term

Kinnigun - we use or ever &  
Chippewas are  
Kinnigun

Jungun is - man & woman & fruit

Jepu = river with them  
Jesse is perhaps directly

Jepuchkan is = glutton or manna

Chippewas of Wisconsin part  
had the institution of burying  
the bodies of the dead  
as any nation of the  
Alleghenies, Mrs. Mrs. name  
of Alleghenian hearts

great sun a chief sun  
see also the work

Merely cloudy when

female  
line

X Buried - fear at end of year  
After death goes to body of body



Journal of the ...

When the best  
Expense made was on ...

Yells a full of best amount  
Cotton ... Adams -

Kutcher's ... Adams -  
Shrubbery ...

Expense ...  
Pure ...

Pure ...

of the ...

Stamm ...  
... Adams ...

... Adams ...  
... Adams ...

... Adams ...  
... Adams ...

... Adams ...  
... Adams ...

... Adams ...

... Adams ...  
... Adams ...

... Adams ...

... Adams ...

... Adams ...  
... Adams ...

Widely in Buedel

Widely in Buedel

The duty to anticipate in  
by naturally, records were  
time — appeals to con-  
fecture & think that has  
not except newspaper of this  
reptiles must be closely  
upon but in Palmer's opinion

In June address 1840  
they take paper in  
two alternate weeks of  
not apply any like  
other cases in press funds  
I have not been paying  
a in other to exhibit to  
what we have not  
read are.

The year just of  
and notes of appeal to  
desire of prints and  
of single life in distant  
years. New form of printing  
of literature.

Now the old pieces  
of Maps guns and  
Cats for private, see  
the books also also  
they in appy Drawing  
and Reliability of Remade

Refer to this  
address  
in July 20

Heart

Kulcha a Luchon  
Aunt small bagged by black  
lead carried at ~~side~~ neck  
Peaked hats like Inqui  
great women of beads  
women wear fur shells

Shaman = medicine man  
make deer = powder

stew in  
female  
cure

X Brundead — feast at end of year  
After death goes to lodge of Wally

Plants & Days  
of week

Poughkeepsie N.Y. May 9 1876

Dr. Dawson.

Dear Sir,

In your lectures in New York, you spoke of the difficulty occasioned by the fact that the Misic (mogony) tells of so high an order of vegetation as fruit trees so early in the narrative placing their appearance before either land or water animals, and you suggested that a solution may be found in some more ancient and undiscovered flora.

You are so far as I know the only writer who has seen and admitted the full force of this apparently unchronological arrangement. I admire the frankness and the courage with which you have done this. Our Bible has suffered greatly from the supposed necessity on the part of its friends "to explain" or "to reconcile" every thing, and, where that could not be done, to absolutely falsify the record in order that it should "harmonize" with the requirements of supposed "Science". You will readily recall the  $\sigma\tau\epsilon\pi\epsilon\omega\mu\alpha$  of the LXX and the firmament of our version. The same thing appears in the verse which reads in our version, "Let there be lights in the firmament of heaven etc." and again in Job. 37. 18. a most unhappy rendering excelled only (if possible) by "firmament".

Even Prof. Dana ignores the difficulty of wh.

you spoke, and "hedges" by saying (Manual p. 767) "the account must bear the marks of human imperfection" and again (p. 768) "It is in the style of a sublime intellect wise for its times but unversed in the depths of Science wh. the future was to reveal."

With all respect for men wiser than myself, I would suggest that the physical & chronological difficulties grow less, just in proportion as we get closer to the literal meaning and exact order of the story, ~~exactly~~ as Moses wrote it. If in case of the perfected flora, we suppose Moses (or the Author) meant the very thing wh. he wrote viz. grass and trees bearing fruit whose seed is inside of it = angiosperms and palms the whole difficulty vanishes. These did appear before "living" species of water animals, fowls, and land animals, and what is more they appeared and became dominant <sup>in the Cretaceous</sup> <sup>Miocene & Pliocene</sup> about the same time (the continents attained their completion, and certainly Moses makes no error when he announces an day of completion for both.

So too the intercalation of some great climatic change having to do with "seasons", ~~the appearance of~~ ~~is~~ ~~in~~ ~~harmony~~ ~~with~~ ~~the~~ ~~fact~~ ~~that~~ ~~between~~ ~~these~~ ~~two~~ ~~biological~~ ~~events~~, occurred a period of intense cold separating the ancient type of climate from the modern, the former distinguished for an absence of "Zones of Climate" (Dana) as the latter is by their presence

If we could discover the physical changes which occurred in the interval we should be better able to judge why the Author of the Narrative placed the work of the fourth period between the third & fifth.

Perhaps the present state of knowledge, is such that this problem can be successfully grappled with. At least I have attempted it and here embodied my results, & their reasons, in an Essay read before our local Society entitled, "Studies upon the Cause & Epoch of the Present Inclination of the Earth's Axis." <sup>copy of wh.</sup> I shall take the liberty of sending you. You will see however that whatever may be the theological bearings of the question, it is discussed purely from a scientific stand-point.

I have also been engaged ~~not~~ in an attempt to "explain" Genesis nor to "harmonize" nor to "reconcile" Genesis & Science, but to collate the statements in Genesis with physical science bearing on same subjects, and have found the Mosaic Cosmogony the most intensely literal and chronological statements ever written.

As you have given this matter study and from your large acquaintance with the Record of the Sky & Rocks so capable of judging of the fairness and accuracy of with which my work has been done, I shall take great pleasure in sending you a copy, if you desire it.

I have been led to a new theory of the "days", viz. that the work was done in an interval of unknown length, was then inspected & pronounced "good" i.e. completed and the day on which the verdict was rendered was the 2<sup>nd</sup>, 3<sup>rd</sup> &c. of the series.

A homely illustration will close this long letter the only apology for which is a common interest in a subject of incalculable importance.

In a brief epitome of our history I might say to my child America was discovered on a certain day and that was the first day of our history.

The English settled at Jamestown & that day was the second day of our nation.

The Pilgrims landed at Plymouth & that day was the third of our nation's history.

The Declaration of Independence was the fourth day.

Lincoln's Emancipation Proclamation was issued on the fifth day of our history and next Fourth of July will be the centennial, the sixth day of our history, and within these six days God built up our nation.

Yours respectfully  
 B. W. Warring

The title of day book is  
 The Mosaic Account of Creation  
 The Miracle of To-day.



Warning  
Compare Spencer's fallacy of omitted premisses  
with Spencer's knowledge of Spencer's fallacy

Spencer's fallacy = understands of it  
Memories of a day  
Sept. 18th 1889

Spencer says "The whole process of  
evolution is a manipulation of paper  
absolutely insensible to the will of  
man, as little as the day is  
in the day of the sun man  
by searching for this answer out  
on days more slow -  
but it is one thing to seek a thing  
another to find out"

Theophobin provides water

Letter Large and General P 109  
In idea that Evolution means  
Inman is a punning

McGill College.  
Montreal.

June 19/76

My dear Sir,

The book which  
you were so kind as to  
send has been on  
my table for some weeks,  
and I had hoped to  
find time to look into  
it, before writing to you  
in acknowledgment,  
but hitherto in vain.  
Overtasked as I am here  
with the struggle to maintain  
a little educational and  
scientific spirit with mod-  
erate means and in the  
midst of a dominant  
and aggressive ultramontanism,

out the Palaeozoic animals  
and plants from the  
marine record. Of course  
also that too much  
is built on the very  
mythical "glacial period"  
of Spain, Denmark & others,  
about the extent of  
which all the better  
geologists have grave  
doubts, and upon  
the very doubtful  
questions as to changes  
of <sup>the</sup> earth's axis, which  
are really only beginning

You must excuse my ap-  
parent neglect,

I planned heartily at  
you look forward, and  
shall hope to read  
it more carefully in  
the summer. In general  
I agree with it in its  
spirit, as you will see  
by looking at my 'Archives'  
published in 1860, and I  
see in it many original  
and valuable thoughts;  
but I cannot quite  
agree with its view of  
the 'days' nor at  
all with its leaning

to be discussed. The  
latter part of the  
book I have however  
scarcely yet looked at.  
I am however engaged  
in the writing "Archaisms",  
and in connection with  
this <sup>will</sup> look into all  
these questions, as Crull  
and many others are  
now putting them, and  
shall try to arrive at  
some definite conclusions.

Receive this kind note,  
and believe me

Yours sincerely

C. B. Waring

J. W. Dawson

Main coil according to Miller  
The sun around god - implies that but  
probably means but related to god of god  
on image of god in heaven & etc

Open for inspiration - tendency to evil - including  
nature when to be created -  
This plus view  
Alpha Beta Gamma

---

Methods of origin according to Miller

1. Proliferation - Jesus

2. Erosion - Ice

4. Elements - Air

5. Soil by path Landmarks of Day

6. Water by path - Appearances

Developed there in Archana

---

On Polar Temperature Fluctuations  
See Spell Page 88 of Principles -

Soloutri & he referred to

Speeches

Mottoes for New World Club

God has made of me Bless  
to Paul

Four days is the great journey  
to the Land of Shrub & Shadens  
Four is lined with cream puffs  
and fellow

Peter doctor of love them



of Males  
Dorms & Males that are for water  
= Males dorms

P. Seminars passed  
important Seminars  
= Seminar  
like important

Measurements of Males  
infinite air in other the  
Measurements of Males  
infinite air in other the  
air = air = water in air =

= external water of air cause of  
all things  
Males heat in water and  
Males & cold & more abundant and  
abundant of the air

Measurements of Males  
Heat = air  
Males in & water of heat  
but important  
Space in air the Males

Measurements of Males  
One the Males  
all overland and  
all-features

He was a Males  
Males of fact & Males  
Males of fact & Males

Measurements of Males (copy 62)  
all things important in the Males  
Males of fact & Males  
Males of fact & Males  
Males of fact & Males

1st a Males - all water in air  
2 Males in air  
3 Males in air  
Males in air  
Males in air  
Males in air  
Males in air

Notes Greek Phil  
Britten

2

*[Faint, illegible handwriting in a large rectangular area]*

*[Faint, illegible handwriting in a rectangular area at the bottom right]*

1

*[Faint handwriting on a small strip of paper on the left margin]*

The Origin of the World -  
Story of Revelation and  
Science,

To Hodder June 1879

My dear Sir

Since you called -  
I have been thinking of a  
title for the book I mention  
and it seems to me on  
the whole best to call  
it

Fossil Men  
and their Modern Representatives

An attempt to illustrate  
the character & conduct of Prehistoric  
Men of Europe by those of  
the Christian Ages.

This will enable you  
to compare the prehistoric  
Man with the  
Man.

Sveden & Chulign

Warman believes that the rapid  
change of S into A, indicates  
that R at our present stage changes  
into S still earlier. S into A  
of German rule.

Prof. Schumann-Kentel finds  
abundant Sulam in Sulam water  
especially dependent into A,  
Mühlhamer's and this is  
perhaps water equal in quality  
compared into a Germanium

Valmugum 876

The Origin of the World

A Problem

and its Solutions

---

I The Scientific Solution  
In the Old Testament

II The Pagan Solution  
In written Myths  
and traditions

III The Modern Solution  
In modern Theories  
and Speculations

IV The Christian Solution  
~~In the New Testament~~  
Religion and Science

V The Harmonies of  
the whole

Memo  
Archives

General Plan

I The General Solution  
for the old treatment

II The General Solution  
for the new treatment

III The General Solution  
for the new treatment

IV The General Solution  
for the new treatment

of the World

to

Memorandum  
of  
Services

General

In the Old Testament

the

the

the

the

the

the

the

Speculators and scientific enthusiasts and they  
have ever been trying to raise themselves to these  
levels & the level of the reports and  
to the comprehension of the nature of things.  
It would be a long and thankless task to  
try here to give the form of such speculation  
as the brain of Shakespeare or of any other man  
could give the man. My own own words  
are words of specious truth & falsehood.

With regard to the content of all this with  
old eyes. Just as it is plain and clear  
anyone is an expert for a century but  
I would not be an adherent of the Darwin Society.



Tyndall writes —

"When I attempt to give the *universe* OUTLOOK.

731

which I see manifested in the universe an objective form, personal or otherwise, it slips away from me, declining all intellectual manipulation. I dare not, save poetically, use the pronoun 'He' regarding it. I dare not call it a 'mind.' I refuse to call it a 'cause.' Its mystery overshadows me, but it remains a mystery, while the objective forms which my neighbours try to make it fit, simply distort and desecrate it."

It is an old, old story. The "scientists" of our day are in possession of finer and more powerful instruments than our fathers had, and they have penetrated far deeper into the mysteries of the material universe; but they are only supplying to us fresh confirmations of the revealed fact that it is not by means of human philosophy, however far-seeing, that the living God is to be reached and known. "Where is the wise? where is the scribe? where is the disputer of this world? hath not God made foolish the wisdom of this world? For after that in the wisdom of God the world by wisdom knew not God, it pleased God by the foolishness of preaching to save them that believe." Professor Tyndall has been employing a method which we have good reason to believe to be unsuited to the work in which he has been using it, and the faith of no Christian man can be shaken by the information which he has published, that he has searched through the universe, and can find no trace in it of the presence of a controlling mind.

We have not seen anywhere in this country the report of a remarkable interview which took place a good many months ago between Dr. Tyndall and a representative of the Indian Brahma Samaj. The account appeared in the *Calcutta Theistic Annual*, and illustrates in such a striking way the position of the professor, that many of our readers will, we are sure, be glad to see it while the impression still lasts which has been produced on their minds by the strange article in the *Fortnightly*. The writer is Baboo Protap Mozoundar. After describing his introduction to Tyndall, he goes on to say:—

"My conversation with him was of course exclusively on the subject in which I am mostly interested. He seemed positively unwilling to accept the usual religious phraseology. Even to the word God, if I rightly remember, he objected. The reason for this was that he fervently disapproved of the philosophical ideas attached to such words by popular theology, the reaction against which in his mind was extreme. How far, in discarding these theological ideas, he has discarded the essential truths of simple theism, it is not easy to determine. Only it seems logical, and therefore, in the case of a man like him, true, that holding the bold and most unequivocal creed of materialism, he cannot assent to the plain propositions as to Divine nature and its relations with the universe, that to us are so sacred. But, nevertheless, the moral enthusiasm of his nature is very great, and so far supplements the deficiency of what may be technically called religious culture, that in almost denying, or very dimly perceiving, the reality of

religion as an element of man's higher intellectual consciousness, he clings tenaciously to what he calls 'the emotions,' and out of them constructs a 'Mystery,' that pervades all things. From that mystery he emerges into a 'Life,' from that into a 'Presence,' and from the 'Presence' into a 'Spirit,' which, in the language of Wordsworth quoted by him, 'impels all thinking things, all objects of all thought, and rolls through all things.' What he did not seem to like was to formulate into a fixed doctrine this 'fluent life' and 'spirit' of the universe. As for myself, I do not complain of any one coming to realize through life and emotion what I myself realize through mind, heart, and will alike; but I cannot accept the idea of a 'fluent' God that has no part in the fixity of human convictions, and of the laws that regulate all things within and without. If by 'fluent' is meant 'progressive,' that our ideas on the subject of God are ceaselessly growing with the growth of man's nature, I admit the word. But I admit it with the proviso that there is an element of fixity in it, an everlasting truth and certainty that ever develops and never declines, that would outlive the wreck of all false faith and all false philosophy. I must take the liberty of observing here that Professor Tyndall's faith in this matter seemed anything but decisive. Even in my presence there seemed to be a continual ebb and flow of conviction in his mind. The impression with which I left him was that his whole nature was glowing with a deep, vague, and transcendent sense of the Divine life, beauty, and love; but his intellect, self-bound, loyal, and logical to its creed, hesitated and failed to grasp or admit the import of that Life upon the origin, growth, facts, and laws of being. It is a gross injustice to call him an atheist. 'Working in the cold light of the understanding for many years,' he said in effect to me as we rose to part, 'we here *do* feel the want of the fire and vigour of that Life. It is all but extinct in England. In saying so, and in not accepting it at the hands of those who have it not, I have become unpopular. Let those who have the Life give it unto us. To you therefore in the East we look with real hope; life came from those regions once before, and it must come again. Take, therefore, my hearty sympathy and goodwill.'"

Two things are peculiarly suggestive in the above account. One is that Professor Tyndall is restless in his unbelief. He knows neither peace in his heart nor absolute and settled satisfaction in his own mind. The other is that, if the Baboo has not misunderstood him, he believes with Mr. Disraeli in the Great Asian Mystery! The East is the chosen land of inspiration, and if the angel Gabriel were again to visit Bethlehem, perhaps the professor's philosophy would give way to faith.

#### THE ROMAN LEAVEN IN ENGLAND.

A paragraph has been going the round of the newspapers, giving a list of recent secessions from the Church of England to Rome. The list is a very formidable one.

It includes, among others, the following names:—The Rev. W. M. Hunnybun, M.A., and the Rev. Verney Cave-Brown-Cave, M.A., both of All Saints', Margaret Street; the Rev. J. R. Madan, M.A., President of the Missionary College, Warminster; the Rev. G. R. Burrows, B.A., of Liverpool; the Rev. Alfred Newdigate, M.A., vicar of Kirk Hallam, Derby; the Rev. Willis Nevins, of Southampton; the Rev. H. J. Pye, rector of Clifton-Campville; the Rev. George B. Yard, M.A. (brother of Canon Yard, just elected Proctor in Convocation); the Rev. John Higgins, B.A., curate to Prebendary Clarke, of Taunton; the Rev. Septimus Andrews, M.A., student of Christ Church and vicar of Market Harborough; the Rev. C. H. Moore, M.A., student of Christ Church; W. M. Adams, B.A., Fellow of New College; Rev. W. C. Robinson, M.A., also Fellow of New College, Oxford; the Rev. F. Down, and F. M. Wyndham, of St. George's East; the Rev. George Akers, of Malling, Kent; the Rev. Gordon Thompson, of Christ Church, Albany Street; C. Moncrieff Smith, of Cheltenham; the Rev. Reginald Tuke, of St. Mary's, Soho; the Rev. M. Tyler, of Oriel College; the Very Rev. Dr. Fortescue (brother-in-law of Archbishop Tait); the Rev. W. Humphrey, of Dundee; the Rev. T. H. Grantham, of Slifod; the Rev. Lord Francis G. G. Osborne, of Elim; and the Rev. R. S. Hawkes, of Morwenstow.

In view of this calamitous outflow of the life-blood from his communion, one reads with a sort of *dazed* feeling the peroration wherewith the Bishop of Lichfield ended his inaugural address at the Stoke Church Congress. "I cannot doubt," said he, "that the Anglican Church is the true centre round which may be rallied in God's own time all the scattered forces of those who agree in accepting Holy Scripture as their standard of faith, and the creeds of the undivided Church as their summary of doctrines. Stretching out her arms to the great English-speaking race, now widely scattered round the earth; welcoming to her communion the Old Catholic, the Greek, the Russian, the Lutheran, the Scandinavian, the Wesleyan; bearing with any errors she may discern in other branches of the Church as she hopes her own may be forgiven; agreeing with them in well-defined statements of necessary and fundamental truth; commending herself to Jew and Gentile by her visible unity—she may press on to the development of a catholicity as wide and as complete as is possible to be attained, until Rome, awaking from her dream of universal empire, shall be content to be, what she was at Nice and at Ephesus, one among many living stones, built up into one Holy, Catholic, and Apostolic Church, Jesus Christ himself being the chief corner-stone."

No one knows better than the Bishop—for he has been in Australia and America—that the Episcopal Church, while it is the largest and most influential of the English denominations, is, after all, among the smallest of the Protestant sects, when the Churches of the Reformation are viewed together. Yet, when he calls up before his

mind's-eye the vision of a reunited Christendom, he looks east and west, to Rome and Constantinople and Copenhagen, and has not one crumb of comfort to cast to those of his own kith and kin that lie near his own door. Yes! he has a friendly word to speak to one of the outcast races. There is a place of repentance still for the Wesleyan! But of the descendants of the Puritans in England,—of those who, in Ireland and Scotland, have the blood of the Covenanters in their veins; of those across the Atlantic whose fathers went over in the *Mayflower*,—he has apparently no more recollection as fellow-Christians than if they had been heathen Malagasy needing to be evangelized. Well, well! All we shall trust ourselves to say in the way of criticism is, that the bishop's position is a very melancholy one. It may be that the Church of England is in the centre of things, and is to form the nucleus of a new Church Catholic; but if so, we trust that, when the critical time comes, its guiding spirits shall be men who shall be able to recognize the Christianity of a Puritan as well as of a Papist.

And here, by the way, we may note that a new *Church Quarterly Review* has appeared, with a great flourish of trumpets, for the defence of the faith. Mr. Gladstone and Mr. Beresford Hope are among the contributors to its first number. But here is its own account of its position:—"Our own standpoint is that of progressive English High Churchmen of Tractarian Extraction, who will neither admit that the modern Ritualists can show any right to dictate to their more prudent and more Anglican and national brother High Churchmen, nor that those High Churchmen are justified in abandoning the Ritualists, because of some waywardness, to the ravages of the Puritan wolf."

There is not much that is hopeful there! The alarming thing about England at present is, that among too many there is more fear, a great deal, of the Puritan wolf than of the Papal bear.

#### MR. MACLAREN OF MANCHESTER.

It is rather remarkable that at least three of the most popular preachers in England at this moment are Baptists. We refer to Mr. Spurgeon, Mr. Arthur Mursell, and Mr. Maclaren of Manchester. Of these three, the man of the truest genius is unquestionably Mr. Maclaren. His sermons are not only deeply interesting to listen to, but they can bear being read once and again. Having a mind which is at once fresh, original, and well-informed, his treatment of any theme he may take up is always striking and suggestive; and this, with his clear, rich, and vigorous diction, has secured for his discourses circles of readers within which even the Metropolitan Tabernacle Pulpit has never penetrated.

Mr. Maclaren has recently been appearing in what, to us at least, seems an unwonted character—as an ecclesiastic. He has been called to the most honourable position which his denomination can offer—that of

J. McNeill Beardslee

Adm. Clerk for the Court

Sum 13000

per

4500 dollars

per year

and

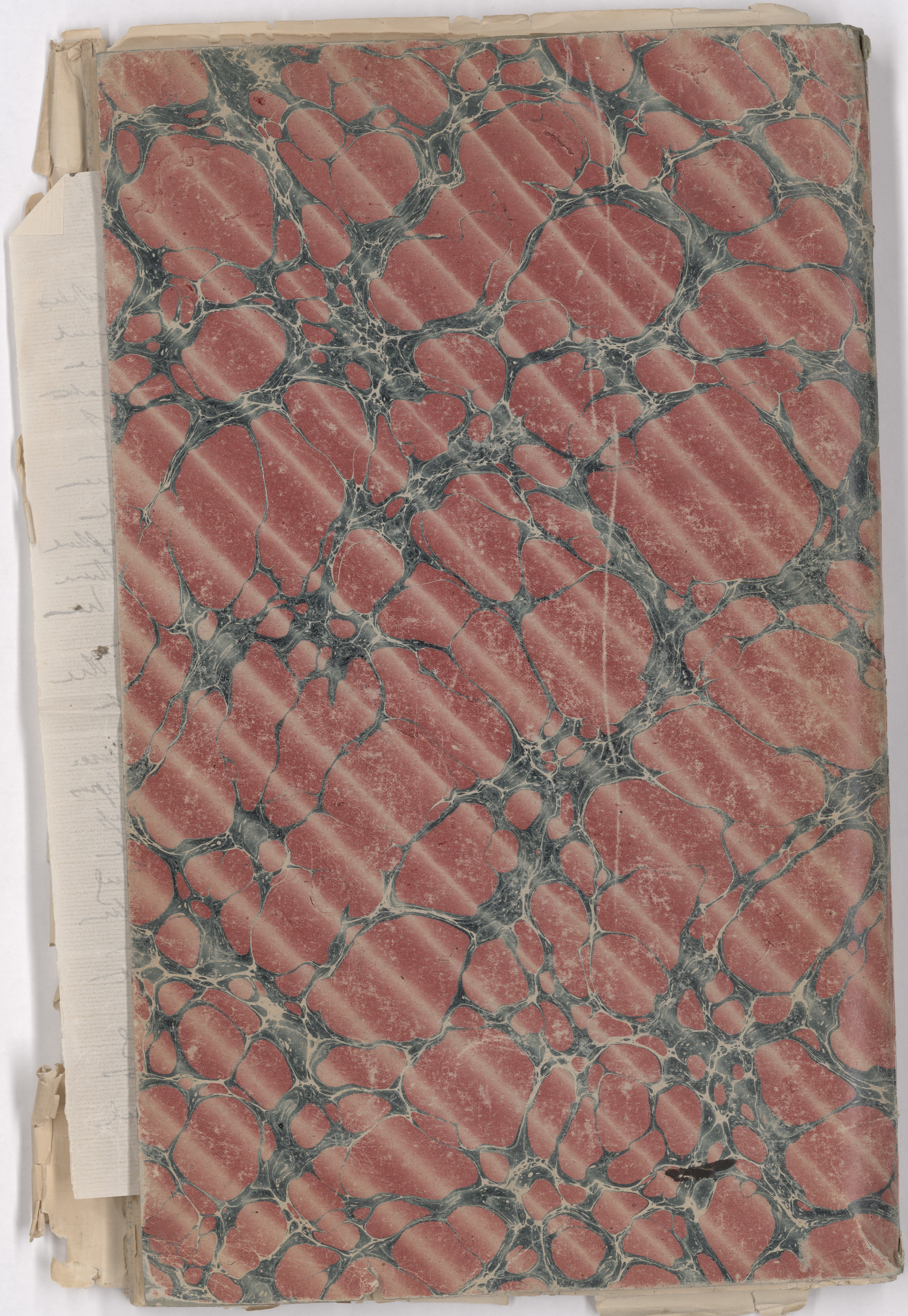
Recd  
on Thruway  
Cable



## Aryan solutions

as stated in the preceding chapters.

Declaring the Aryan or Indo-European peoples ~~as stated~~ to be of comparatively late origin and derivation from the Palaeolithic Eurasians we need not expect from them much information as to origins. What they do know consists just of ancient traditions retained in India & Persia none a bit concordant with those of the names & phenomena proper to the civilisations which they have themselves worked out for themselves and successful conquest. In it is any other paper chiefly that speculation and investigation has endeavored to penetrate backward from the modern standpoint into the origin of things. The Aryan peoples have proper to theirs of them are Buddhism in China, Hinduism in India, Mahomedanism and Pureism in Arabia & its neighbourhood. Mahomedanism and Pureism are not ancient in comparison with the religions we have studied and seen in them the impulse of devotion for more permanent faiths which have been left beneath devotions, Hinduism has a remnant of human faith. The theme of the Vedas is perhaps the only remnant of what may be called Aryan religion all the rest down to our modern Christianities are of wholly unconnected forms of devotion. But the Aryan have been set in Philosophy



Abdullah & Affin  
Della Boys Reeds Inn  
Abdullah & Affin  
Proceeding Canal in 1825  
Present of Affin Reeds  
Abdullah & Affin

Note on Joan  
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Round the Lake Elizabeth  
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Stock disulphate  
Delta Bony  
Sweetwater canal  
Old

Intent of Homan

guela, on the western coast of Africa, from this country would have been a good deal more costly, and of which the success, judging by such accounts of the climate of Benguela and its neighbourhood as we could procure, seemed very doubtful. The committee guaranteed, however, £100 towards the expense of a small expedition from the Cape in case Her Majesty's Astronomer at that place should be in a condition to organize one. Sir W. J. Hunte-Grubbe, the Admiral in command at that station, was prepared to render every assistance in his power. Ultimately, however, it was not found practicable to organize an expedition from the Cape, and so the English observations of the eclipse were confined to those taken at Grenada. I have heard that the day of the eclipse was fine at Benguela, but there were no astronomers of any nation there to take advantage of it. It may be doubted, however, whether, in spite of the fineness, the haze which is said to prevail so much on that coast at that time of year might not materially have interfered with the observations.



**Rock disintegration in hot, moist climates.**

Some remarks of Nordenskiöld, in his 'Voyage of the Vega,' pp. 707-713, relating to precious stones, suggest the thought that the marked differences which occur as to the manner and rate of the weathering of granitic rocks at the north and at the south

can hardly be so familiar to European scientific men as they are to American observers. At the south it is common enough to find soils that have been formed 'in place,' from the thorough and deep-seated chemical decomposition of the rocks on which they rest; while at the north, well-marked disintegration of this sort is rarely met with, even in places where the observer is not perplexed and confused by the mechanical results of glacial action. The subject has often been alluded to by American geologists, working in our southern states, notably by Professors Kerr of North Carolina, and Stubbs of Alabama, who have expressed themselves in the following terms: Speaking of the geologic formation which, "after hugging the east side of the Appalachian chain of mountains and forming some of the most valuable farming lands of the Atlantic states, enters the central eastern part of Alabama," Professor Stubbs says, "The rocks which by disintegration have given the soils of this section are mainly granites, gneisses, feldspars, hornblendes, mica-schists, etc.; and much the greater part of the section is covered by soils which have resulted from disintegration of the above-mentioned rocks *in situ*. And here I may remark a notable feature of these soils, — a feature which cannot fail to arrest the attention of every northern geologist: viz., that decomposition of these rocks in southern latitudes has proceeded much farther than with the same rocks in higher latitudes, and therefore has given us deeper soils. It is difficult to find in the north a soil over a few feet deep; while here it is not uncommon to find in railroad-cuts, wells, etc., disintegrated strata to the depth of thirty, fifty, or even seventy-five feet. This can be accounted for to a large extent by climatic influences. The warm waters, charged with carbon dioxide, percolating throughout the year the easily permeable strata, act continuously as a chemical agent in the work of disintegration; while farther north not only the amount of water, the temperature, and the chemical activity are reduced, but for one-half of the year the soil is locked up by frost from all access of decomposing agencies."

The influence of these soils of disintegration upon the agriculture of the regions in which they occur, has often been noticed; and their bearing upon the history of the use and manufacture of commercial fertilizers in this country is no less clearly marked. It would seem to be plain, that disintegration such as this, when accompanied with or followed by denudation, would readily account for the accumulation, and, so to say, concentration in 'pockets,' or other places of rest, of any heavy or refractory minerals which were originally contained, dispersed, in the native rock; and that among the multitude of individuals thus thrown together there would be much greater likelihood of finding superior specimens than can be obtained by searching the comparatively meagre deposits that are formed at the north.

The statement of Nordenskiöld, above referred to, is here given in condensed form.

"Precious stones occur in Ceylon mainly in sand-beds, especially at places where streams of water have flowed which have rolled, crumbled down, and washed away a large part of the softer constituents of the sand, so that a gravel has been left which contains more of the harder precious-stone layer than the originally sandy strata or the rock from which they originated. Where this natural washing ends, the gem collector begins. He searches for a suitable valley, digs down a greater or less depth from the surface to the layer of clay mixed with coarse sand resting on the rock, which experience has taught him to contain gems. . . . The yield is very variable, sometimes abundant, sometimes very small. . . . Sapphires are found much more commonly than rubies. . . . The precious stones occur in nearly every river valley which runs from the mountain-heights in the interior of the island down to the lowland. . . . But some one perhaps will ask, Where is the mother-rock of all these treasures in the soil of Cey-

Chemical  
Disintegration

lon? The question is easily answered. All these minerals have once been embedded in the granitic gneiss which is the principal rock of the region" (and which weathers readily). . . . "In weathering, the difficultly decomposable precious stones have not been attacked, or attacked only to a limited extent: they have therefore retained their original form and hardness. When in the course of thousands of years, streams of water have flowed over the weathered rock, the softer constituents have been for the most part changed into a fine mud, and as such washed away, while the hard gems have only been inconsiderably rounded and little diminished in size. The current of water, therefore, has not been able to wash them far away from the place where they were originally embedded in the rock; and we now find them collected in the gravel-bed, resting for the most part on the fundamental rock which the stream has left behind, and which afterwards, when the water has changed its course, has been again covered by new layers of mud, clay, and sand. . . . Of all the kinds of stones which are used for ornaments, there are both noble and common varieties, without there being any perceptible difference in their chemical composition. The most skillful chemist would have difficulty in finding, in their chemical composition, the least difference between corundum and sapphire or ruby; between common beryl and emerald; between the precious and common topaz; between the hyacinth and the common zircon; between precious and common spinel: and every mineralogist knows that there are innumerable intermediate stages between these minerals which are so dissimilar, though absolutely identical in composition. This gave the old naturalists occasion to speak of ripe and unripe precious stones. They said that in order to ripen precious stones the heat of the south was required. This transference of well-known circumstances from the vegetable to the mineral kingdom is certainly without justification. It points, however, to a remarkable and hitherto unexplained circumstance; namely, that the occurrence of precious stones is, with few exceptions, confined to southern regions. . . . Another remarkable fact in connection with precious stones is, that most of those that come into the market are not found in the solid rock, but as loose grains in sand-beds. True jewel-mines are few, unproductive, and easily exhausted. From this, one would be inclined to suppose that precious stones actually undergo an ennobling process in the warm soil of the south."

To the writer of this note, it seems more reasonable to suppose that the greater abundance of noble gems in southern climates should be attributed to the more active and thorough-going disintegration which occurs in those regions, and to the consequent — comparatively speaking — enormous accumulation and concentration of the precious minerals, as above suggested. Other things might be far from being equal, and yet the chance of finding a stone of price be greater in a heap of ten thousand rough jewels than in a collection which contains but a few score.

Bussey Institution.

F. H. STORER.

July 1883

#### The November aurora in California.

Auroras are exceedingly rare phenomena in southern California; yet we had the pleasure of witnessing one Nov. 17, at which time a great electric storm raged over North America and Europe. The photographic traces during the time from Nov. 10 to Nov. 20 are very interesting; as they have preserved a perfect record of the twitchings and jerkings, large and small, fast and slow, to which the magnets were subjected during this time.

A slight shock of earthquake was reported here on Jan. 23, about 5.20 P.M. I was on the street, and did not feel it; and so far as I can detect no harm was done at the observatory. MARCUS BAKER.

Los Angeles, Cal., Jan. 26.

#### TRYON'S CONCHOLOGY.

*Structural and systematic conchology: an introduction to the study of the Mollusca;* by GEORGE W. TRYON, JR. Vol. I. Philadelphia, the author. 1882. 8 + 312 p., cuts, 22 pl. 8°.

WE have received the first volume of Mr. Tryon's new work (to be completed in three volumes), intended as an introduction to the study of the mollusks. This portion consists

\* The Melampyris rocks of Africa  
extend far to the South in East Africa  
Mountains of Polesinais group \* it  
belong <sup>in these groups are in the whole the other</sup> to the  
part of islands, all the rocks upon them  
have refer to the South. Nearly the  
name of the Tamber where patches  
extend to the Cape Bay. In Key the  
in line with the hills of Polesina  
rock along the West are any part  
refer that the species are with  
as much the general fundamental  
\* Millerdungen 1887 rock.

Spencer  
1864  
Peterson

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in  
des

1 It is to be remarked that  
in warm climates the sub-  
aerial denudation of rock  
proceeds more rapidly than  
in those which are colder  
and in a somewhat different  
manner by less mechanical  
than ~~and~~ chemical, and that  
in warm climates great accumulations  
of denuded rock cover the whole  
of mountains, while even those which  
may have existed in the North  
have been swept away & placed upon  
the sea, Prof. Ren. Stubbs and  
others have long alluded to the possibility  
that we had denuded them in the case of

Wm Schwart

Subaerual  
Journal

belong to the historic period; and the reason of  
reference here may be that the place was occupied by native  
tribes who came to the

825 - Lake & Lakes Island & Celtic  
American canoe  
of the Algonquian  
type -  
Detail of the  
1825

Sweetwater  
Cave  
96 nests

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if in Chap 8

The oldest rock seen in passing from Beyrout around the point by the Lighthouse and Pigeon Island is the cretaceous limestone, which at this place is remarkably rich in large flint nodules. Upon the limestone rests a soft grey sandstone, used for building in the town, and containing in places fragments of recent shells. It is similar in its character to the modern sandstone of the Jaffa coast, and is, no doubt, of the same age. At one of the quarries a stratum of indurated deep red sand was seen to occur in the middle of the grey beds, and large sand-pipes, which traverse the grey beds perpendicularly, were filled with the same red sand, which also overlies the grey beds, and forms the surface of the highest part of the point, where it is more or less covered with loose wind-blown sand of a greyish colour. In one place, the lower grey sandstone was seen to be about forty feet in thickness, and the red sand is in some places as much as ten feet in thickness. The summit of these deposits rises as high as 250 feet above the sea-level. These sands are, probably, in great part products of the waste of the red and grey arenaceous beds of the lignitiferous zone of the Lebanon cretaceous, which occurs in the hills some distance behind. They belong to the modern or Pleistocene age, and to a time when the coast was submerged to the amount of 250 feet below its present level. At a place called the Bishop's Garden, behind Beyrout, and opposite the mouth of the ravine of the Beyrout river, there occurs a thick bed of grey and red conglomerate, capped with red sand, and which I believe to be a more inland representative of the coast deposit.

At the Ras of Beyrout the bed of red sand contains no stones or other foreign bodies, except near the surface, where it seems to have been disturbed and re-deposited by the action of the rain-water; but on its surface it holds small

\* Quarterly Statement.

stones, fragments of coarse pottery, and even of glass, and flint flakes and implements, which are partly covered with blown sand (Pl. II.). Among the stones I found fragments of vesicular trap, which may have been imported for millstones, and a small piece of Egyptian granite. All these bodies are mixed together, without anything to determine their relative ages, and they are most abundant at the surface of the red sand, and immediately under the drifted sand, or where it has been removed by the wind. The flint flakes are much whitened by weathering, and evidently of great antiquity, and with them are many large and irregular flakes, probably rejected as useless. A few spear and arrow heads have been found at this place. I found only one fragment of a lance or spear, but this had evidently been worked with some skill by pressure on the edges, in the manner now employed by the American Indians (Pl. I., Fig. 1). A small flake of obsidian, with a rounded indentation at the edge, as if intended for use as a hollow scraper, was also found, and may indicate the importation of this material for the manufacture of implements.

The fact that these flint implements occur along with pottery and other city refuse, probably implies that they belong to the historic period; and the reason of their occurrence here may be that the place was occupied by native tribes who came to trade with or to attack the Phœnician colony; or that it was resorted to by such people, because of the abundance of good flint in the limestone near this place. The deposit might thus seem to connect the time of the foundation of the early Phœnician colony with that of the later flint folk. It is, however, possible that an older deposit of flints may have subsequently been buried with city refuse, which is still being carted out to this place; or, on the other hand, that the citizens of Berytus may have continued to use flint flakes and arrows at the same time with pottery, and when they were building edifices of stone.

A curious instance of this connexion was mentioned to me by Mr. Sarruf, of the Beyrout College. He had found in a grave in the Lebanon, lance-heads of bronze and copper, along with flint flakes, thus showing the continued use of the latter after the natives had obtained weapons of bronze. On the other hand, Dr. Jessup, of the American Mission, has found, near Tyre, ancient tombs excavated in the bone-breccias of older prehistoric caverns.

Thus, in the Lebanon, we appear to have evidence of antediluvian or post-glacial cave-dwellers, belonging to the earliest known races of men, and of later Troglodytes and flint people, who must have continued in the country till it was colonised

Beirut  
Cave

by the Canaanites and Phœnicians, and who may have occupied the remoter glens of the mountains down to a comparatively recent time.

It is to be observed here that the present bare condition of these mountains must be quite different from their primitive state, when they must have been clothed with forests, and were probably inhabited by many kinds of game long since extinct. In this state, also, they would be much more abundantly watered than at present, and would possess a more equable, though on the whole cooler, climate.

It is also interesting to note the possible connexion of at least the later cave-dwellers of the Lebanon with some of those primitive peoples referred to by Moses in the Book of Deuteronomy, as having inhabited Palestine before its colonisation by the Canaanites and Semites.

If we endeavour, in conclusion, to sum up the later geological history of the Lebanon district, we may conclude that, like other parts of Syria, it experienced considerable elevatory movements at the close of the Eocene period, and further elevation in the Pliocene; that in the Pleistocene period it was submerged to the extent of several hundred feet, and at this time many of the ancient sea-cliffs and caverns were cut; and that in the early modern or post-glacial age it partook of the elevation which at this time seems to have affected the whole coasts of the Mediterranean. It may have been in this time of elevation, when there was probably much more land at the eastern end of the Mediterranean, that men first appeared and took possession of the country, and established themselves in the caves. These, however, they probably occupied only at those seasons when they needed such shelter, or when they resorted to the hills in pursuit of game. They may have had other stations, now submerged, in the low grounds or by the sea-coast. This state of things was closed by the great post-glacial submergence or deluge, of which we are now finding so many evidences in different parts of the world, and after this the present geographical conditions were established, and the period of history commenced. In this, the country, then wooded and tenanted by wild animals, was first occupied by rude tribes, probably of Turanian or Hamite origin, and afterwards by the more civilised Phœnicians.

he logists attach so much importance to the prosecution of the  
e- inquiry that, at the suggestion of the Delta Committee, an  
n. application was made to the Government Grant Committee  
nd for a grant of £500, which was acceded to by the com-  
p- mittee. This sum would not suffice for the prosecution of the  
w- inquiry to the extent contemplated, but it was thought that,  
ed with such a sum as a nucleus, extraneous pecuniary assist-  
at- ance might be obtained from societies or individuals speci-  
pt- ally interested in the inquiry, and the council have autho-  
ly- rized the Delta Committee to avail themselves of such aid.  
ny The Copley medal for the year has been awarded to the  
ns eminent botanist, your former president, Sir Joseph  
en Dalton Hooker. It is impossible, within the limits to  
is- which I must confine myself on the present occasion, to  
od do more than briefly refer to some of the more salient  
ch features of his scientific career, extending as it does over  
pt nearly half a century of unceasing intellectual activity;  
vo and I need hardly say that in attempting to give some idea  
ld of important labours which lie outside my own studies I  
o- am dependent on the kindness of scientific friends. As a  
t. traveller he can, perhaps, only compare with Humboldt  
ed in the extent to which he has used travel as an instrument  
vs of research. To quote a remark by Professor Asa Gray,  
n, "No botanist of the present century, perhaps of any time,

PROF. DAWKINS has been so kind as to examine in a preliminary manner the specimens of teeth, &c., collected, and has authorised me to state that the breccia from the Pass of Nahr-el-Kelb contains remains of *Rhinoceros* (probably *R. tichorhinus*), *Cervus*, *Bos*, and *Equus*. In the earth of the probably more modern cave of Ant Elias are teeth of the hog, and of the goat or sheep, and an antler of the roc-deer. These facts are sufficient to indicate the earlier date of the Nahr-el-Kelb caverns, as stated above; but more detailed examination of the fragments of breccia collected will, no doubt, develop other points of interest. It is to be observed here that at the Nahr-el-Kelb River, Lartet has found a rock shelter which contains remains similar to those of Ant Elias, but these have not yet been found in connexion with the old caverns at the Pass.

In the breccia of Nahr-el-Kelb there are large and small knives of the ordinary form, curved flakes roughly chipped at one side, triangular flakes chipped at the edges (Pls. II. and III.), and a flake with the point rounded, and slightly chipped as if for a scraper. There are also remains of cores, and many minute chips, indicating that implements were made on the spot. No large implements of the Palæolithic type were observed. No charcoal was noticed, but a few of the fragments of bone have a brown colour, as if from exposure to fire. Some of the flint knives are perfectly fresh on their surfaces, others are much whitened and decayed.

In Plate III. I have represented some additional flint implements worked out from the breccia of the Nahr-el-Kelb Pass. Fig. 1 is a knife or scraper partly embedded in the breccia. One side has been shaped by fine chipping, or perhaps worn by use in scraping. Fig. 2 is part of a large flake, which may originally have been a spear or lance, but has been much worn at one side by use as a knife or scraper. Fig. 3 is a flake, which has had a curved notch chipped in one end, and the upper side chipped by use. Fig. 4 is a rough one-edged knife, much worn and chipped. Fig. 5 may possibly have been the end of a spear or arrow. Besides these there was found in a mass of the breccia a fragment of a stone hammer of diorite, broken by use. It may have been a naturally smoothed stone, or may have been artificially polished. As this kind of stone is not found at the locality, it may have been brought from some distance. It was reduced to a very fragile condition by decay of its felspar. There was also found in the breccia a fragment of crystalline alabaster, which may have been employed in the manufacture of ornaments, but no carvings or ornaments were observed.

In the cave earth at Ant Elias there are numerous and well-made flint knives (Pl. II., Figs. 2, 3). Some of these are very thin and delicate. There are also scrapers rounded and chipped at the edges, and many cores and minute flakes. A few of the fragments of bone are distinctly charred. Some of the knives and bones are encrusted with stalagmitic matter, but not in sufficient quantity to cement them together; and at the sides and front of the cave there are knives and fragments of bone enclosed in stalagmite, which is of a different colour and texture from that of Nahr-el-Kelb, and contains shells of a small *Helix*. Several specimens of the large edible *Helix* were found in the cave earth, and one shell of a small *Turbo*. No implements other than knives and scrapers were found, except a pointed instrument about four inches in length, and an inch thick at the butt, which had been roughly fashioned out of limestone.

According to Lartet (*Comptes Rendus*, 1864), Dr. Hedenborg was the first to direct attention to the Ant Elias caves, but he does not seem to have examined their contents. M. Botta was the first to notice the rock shelters near the Nahr-el-Kelb River, which Lartet himself afterwards explored, and which are obviously more modern in their contents than the breccias of the Nahr-el-Kelb Pass.

Appendix

Additions

To  
Chord Success  
Ie

