

The night in which this lecture (Feb 5. 71) began, Starkey, and his party who I  
had invited, the following morning, did not come and on that occasion, Dr. M. S. St.  
made a new introduction & other modifications & delivered as it, the Lecture  
accompanying.

The God of Nature and the God of revelation  
are Identical. —

Our object in the following discourse is to show  
that what science reveals respecting God, and what  
revelation presents, are not contradictory. That  
the God that nature presents as an object of adora-  
tion is the very same that the Bible pre-  
sents not only as the object of adoration, but of  
love, not only as an object of wonder, but as the  
kind and merciful Father of us all.

It is well known that many men eminent for  
their scientific knowledge, in our own country, and  
in England & France and Germany - seem zealous  
in their efforts to make the revelations of science  
contradict the word of God. They are not contented  
with the candid presentation of what seems to be the  
truth, and their <sup>own</sup> reductions of that truth, which some-  
times in a very striking manner seem to contradict  
the scriptures, but they seem to take pleasure, in their  
attempt, to make science subvert the foundation of that  
religion, which has cheered so many in life and at  
death, and has done so much for the civilization  
of the nations of the earth, & we may add too, has  
resisted the ~~done~~ done so much, to render possible the  
accumulation and diffusion of that very science, which  
they make use of, for its overthrow.

There is something, <sup>however</sup> we think, that may be said  
by way of apology for scientific men, that a  
good deal of the bad feeling they have with us

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gave to revealed religion, arises from the course pursued by religiousists, who have a zeal for God but not according to knowledge - well meaning men they ~~so~~ may have been, and learned too, though unfortunately they understood neither science nor the scriptures. They saw contradictions where no contradictions existed, and when they had the power made the philosophers suffer in the flesh, who dares to teach doctrines contrary to the ~~&~~ teachings of the church. Scientific men finding themselves condemned, and held up to scorn as heretics and infidels, for teaching what they knew to be truth, and for interpreting correctly God's other book the book of Nature would naturally feel a contempt for those who condemned them, and suppose that their opponents, ought to understand the scriptures which they had made their especial study, would be disposed to reject <sup>the second book</sup> it too, on the ground that God, the God of truth, could not say one thing in his word and a different thing in his works.

Neither ought we to condemn Xteans in old times for the jealous care they manifested for the authority of the Sacred Scriptures. For it must be admitted that there are apparent contradictions between science and the ss. Nor is it always easy to see how these seeming discrepancies are to be reconciled. Take for example the Copernican theory of the Universe, first presented to the world in the year 1543 by Copernicus, now every where



received as true, & which very few think of doubting & nearly all believe, because they are taught to believe it in early life, and because those who are regarded as authority in these matters thus teach. We will find that at the time, Galileo was condemned by the Holy Inquisition, there was more to be said against Galileo, than in his favor - - This theory affirms that the sun stands still and the earth moves around it once a year, at the same time revolving around its axis once a day, & that the world is a heavenly body of the same order as the beautiful evening or morning star or the planet Jupiter just now (Feb 5<sup>th</sup> 1871) shining ~~out~~ in his splendor at his meridian altitude.

~~on the Evening star, which is just about the time of setting.~~  
It was said at the time of Copernicus, and perhaps some, who have not kept up with the times, may still be saying - What is all this? & not seeing believing? Do we not see that the sun moves and the earth stands still? Does any one feel that the earth is moving? Has the creator given us senses to deceive us? Do not the scriptures teach us differently? Hear what they say - "God caused the sun to arise both a the good and bad. (Mat 5) Let not the sun go down upon your wrath. Eph 5. (Joshua said "Sun stand thou still & the sun stood still & the moon stayed until the people had avenged themselves of their enemies" (Joh x. 12) The sun went back ten degrees - the dial of Ahab (2Kg xxviii) The sun rejoices as a strong man to run his race. (Ps xix)

The sun ariseth and the sun goeth down & hasteneth  
to his place where he rose , Eccl . 1 . 3 .

~~Fear before him all the earth , He who also shall~~  
~~be stable that it be not moved .~~ 1 - Ch . 16 , 30 - Ps . 105  
Prov . 8 . The world also is stablished that it cannot  
be moved . - Is it any wonder then that passing by  
many other passages of similar import , is it to be  
wondered that this then new revelation of science  
should be condemned as contradicting not only common  
sense but the sacred scriptures ? Is it to be wondered  
that the holy Inquisition , that careful guardian of  
faith and morals , should condemn the book of  
Copernicus teaching such heresy , and should make  
old Galileo recant . ( ~~¶~~ Father Dechales S.J. states  
that the inquisition at first prohibited the book of  
Copernicus . Afterwards , it permitted it , when cor-  
rected , ~~to remove~~ that is when Copernicus had removed all pas-  
sages from it where he absolutely stated that the  
world moved , & that the book in his time 1620 &  
presenting the theory of Copernicus only as an hypothesis  
was not prohibited . - The same author , Dechales , states  
with regard to Galileo , that because he seemed to incline  
too much to the opinion of Copernicus , was ~~con-~~  
to condemn such an opinion , & the Holy Inquisition  
decided , that the proposition <sup>as</sup> that the sun is the cen-  
ter of the universe and is immovable with local motion  
is a proposition false and absurd in philosophy & for-  
mally heretical . - In this connection it might  
not be ~~out~~ out of place to refer to the commen-

tary of the learned Jesuits Le Sene & Jacquier, on  
 Newton's principia, at the commencement of which  
 they state, that the Principia could not be explained  
 unless on the Coperican theory, & that they therefore  
 espoused this hypothesis, while they professed to be  
 liable in the laws propounded by the church with reference  
 to the motion of the earth, that is they professed to  
 believe as true what they knew to be false, for they  
 could not read the Principia, without being convinced  
 of the truth of <sup>the now universal</sup> received theory of the earth, ~~& others.~~)

Suppose these infallible doctors, could have had all  
 things their own way, and men like Copericus  
 & Galileo kept from promulgating their results  
 of their investigations, what would have been the con-  
 dition of science now - We would still have been  
 in the midnight of the dark ages. As the head of  
 this church is now, as always has been infallible -  
 we presume that these decisions with respect to the  
 motion of the earth are in force still. -

~~In point however we to reconcile the plain teachings  
 of God's word with such revelations of science.~~

But it was not only the doctors of the infallible  
 church, who were alarmed by the developments of  
 science, and looked with suspicious eyes & frowning  
 brows on men devoted to the study of the natural world.

Protestant doctors united with Rome-Catholics, in  
 condemning the apparently heretical teachings of  
 science. - We do not find fault with either, for  
 being startled and offended at these <sup>strange</sup> revelations of sci-

esse, which seemed so palpably contradictory of  
 the written word, nor for <sup>thinking</sup> ~~the study of Nat.~~ Phil.  
 led to infidelity; it was natural that they should do  
 so, just as natural as that the Jews in different parts  
 of the Roman empire, would be startled and offended, and  
 look with suspicion on the apostles, when preaching  
 the new doctrines of Christianity, and presenting the old  
 dispensation, with its long cherished and sacred ritual as  
 having come to an end. No wonder that their feelings  
 were aroused. When Paul and Silas went to Thessaloniki  
 & preached Christ Jesus, the Jews that believed not,  
 gathered some lewd fellows of the baser sort, and attack-  
 ed the house of their host Jason. They dragged Jason  
 before the rulers as the instigator and abettor of these  
 men who <sup>had</sup> turned the world upside down, <sup>were</sup> <sup>in</sup> ~~and do~~ things  
 contrary to the decrees of Caesar. Paul and Silas we are  
 informed escaped in the night and went to Berea.  
 We are told that these Bereans were more noble  
 than those of Thessalonica, they did not storm and rage  
 but heard what the <sup>at first</sup> apostles had to say with all ready  
 ness of mind, no doubt thinking their doctrine hereti-  
 cal, but we are told that they searched the scriptures  
 daily to find out whether these things are so. They ac-  
 ted, like Protestants ought to act - they appealed to the  
 proper authority, to the ss, to prove a scripture ges-  
 tion, and were guided accordingly - that is finding that  
 the apostles were right they believed. So Protestants  
 as a general thing, not being bound to ~~the~~ submit to  
 the so called infallible decisions of fallible men, with

exercising their right to think for themselves, & to prove all things and hold fast that which is good, appealed in these matters of science, not to the revelation of his will which we have in the SS. but to the revelation of his works which we have in nature - An appeal to this <sup>soon</sup> convinced them, that Galileo was right, & the Pope was <sup>a Holy Inquisition,</sup> wrong - But how are we to reconcile the plain teachings of the word of God, as already presented, with these discoveries of science. - In this way - First, It must be kept in mind that God never <sup>intended that</sup> designed the Bible should teach us science - Its great object is to shew man his moral condition - a sinner by the fall of Adam, & to point out the way of salvation by a crucified Redeemer - or in other words, to enable man to know himself - & to understand the relation in which he stands to God, & his responsibility to him, & to teach him how eternal happiness may be attained - every thing else we think, in the Bible is subordinate to these great points. God gave man a mind capable of investigating the laws of the material universe, God does not do for man what ~~he~~ man can do for himself. Man could never find out what the Bible reveals with respect to our moral relation to him, hence he has made this known by a special revelation. The laws of nature are <sup>on the other hand</sup> ~~as far as they are necessary to be known~~ for the comfort and well being of man in this life, & as still further than this, man can discover without a supernatural revelation, hence no revelation is given

and he is left to read this book for himself. and  
 Secondly, supposing that there can be no contradiction  
 between the words and works of God, as we know that  
 facts are stubborn things & cannot be made, if they  
 are really facts to yield, we must enquire, and as we  
 know that there is nothing more difficult than to  
 express our thoughts in language incapable of miscon-  
 struction, we must examine then whether or not we  
 have properly understood the purport of the language in  
 which these seeming contradictions occur. By way  
 of illustration of this want of precision in language, even  
 where precision is looked for, we present the following. In  
 teaching astronomy, I said, "The sun, young gentlemen, rises  
 in the ~~at~~<sup>it was</sup> east ~~and~~ not perpendicularly from the horizon  
~~but~~<sup>towards the South</sup> obliquely, and moves upward toward the ~~to~~ the  
 Meridian & then ~~to~~ sets in the west. Not long after  
 I took occasion to tell ~~them~~<sup>the class</sup> that the sun came later  
 to the meridian than the stars did, & the reason was  
 as every body knows, that the sun moves from the west  
 to the east, ~~in its annual motion~~<sup>in his orbit</sup>. Here was an interrup-  
 tion, didn't I mean from east to west? & the answer was  
 no, of course not. soon after, it was said, that the sun  
 did not move at all, but that the earth moved  
 and that the motions of the earth ~~only~~ made the sun  
 seem to move from east to west, & from west to east.  
 What is all this, proper, you had the sun moving from east  
 to west, a little while ago, and then from west to east,  
 and now you have stopped it altogether & what  
 does it do? & which way does it go? Of course we cannot

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go into minute explanations of all this, let simply state,  
that it is sometimes convenient <sup>even</sup> for the astronomer, to  
speak not according to absolute fact, but according to  
appearance. Even a scientific truth-loving Friend, who  
for fear of calling any man Master, would not say  
Master, would never think of saying, that the eastern  
horizon sunk beneath the sun's center at such an  
hour in the morning when he wanted to give the  
hour of sun-rise. - What we have presented shows us  
that there are several things to be looked at besides the  
plain literal meaning of words, before we get the  
right understanding of what is expressed. Applying this to  
the case before us, & is it to be wondered, that if learned  
as truth-loving astronomers, speak in language which  
does not exactly represent facts but appearances, & that  
it would be pedantry & folly for them to use any other, and  
that, in ancient times, ~~described~~ <sup>remembering this that</sup> the sacred writers  
spoke of natural phenomena as they appeared, & not  
as they were, & ~~this too~~, if they had spoken according to the  
reality, they would not have been understood. - What  
we have presented here, seems to us, to remove all the  
difficulty, good old divines in old times, <sup>had</sup> perchance some  
good people in later times, with respect to the Bible speakin  
of the earth as immovable and the sun like the strong  
man running his race. -

Many will remember ~~the~~ the alarm of some good people  
both ministers and laymen, when it was whispered amon  
many others, that some of the leading doctors of the church  
were beginning to doubt ~~the~~ <sup>the</sup> fact, that what was once

universally received as a fact, that God was just six literal days in making the world. Certainly, it was said God who made the world knew better than the evolutionists how long it took him to make it, & what was to become of the Sabbath, if these days should be considered as periods of indefinite duration. — We may refer to this interesting subject again; it will be sufficient to say, that few if any Theologians of any consequence now, a-days, believe that days of the first Chapter of Genesis were ~~long~~ days of 24 hours each, & that they find the interpretation which science requires in no wise ~~con-~~ consistent ~~to~~ with the Mosaic record. —

We will now endeavor to present some things to show that what we may learn of God from his works, by science, is in remarkable accord with what he has revealed of himself in his word. —

As some men ~~know~~ of science, have run off into the extremes of Atheism and Pantheism, we ought perhaps to show that science does not necessarily lead in these directions, but as there are comparatively few, who have thus erred, the greater part believing in a the existence of a personal, intelligent, and eternal and controlling mind, & believing also, that all nature teaches this, our design is already stated is to show that this intelligent & controlling spirit corresponds in a remarkable degree to the God presented <sup>is indeed, identical.</sup> in the Bible. — We should bear in mind that the Bible does not attempt to prove the existence of God. It assumes this as a matter of course, as a truth universally received, as written in the book of

Units of Eng. in works - in general  
development -

See: a endue of Warden.  
put (in water of sun) p. 29. 29

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nature in plant characters, such as the mind of man can readily understand, & intelligently read, and God does not have recourse to the supernatural, when the natural will answer his purpose.

1. Let us <sup>then</sup> turn our attention to what science teaches ~~first~~ with respect to the ~~infinite~~ greatness of God ~~Definitely~~ which ~~fit~~ - We are aware that infinity, & eternity, are ideas incapable of ideas, which the human mind can hardly grasp, and hence our ideas of the infinite either in time or space are negative, we can conceive nothing with the space of a mile or ten miles, or perhaps a thousand miles - but when we get up to the hundred of thousands, & millions, we begin to think, feel that we have no very definite idea of such distances, still we can work with representing these magnitudes, such numbers, & can reckon by, millions & thousands of miles, ~~& millions~~ quite satisfactorily, without perhaps having any accurate idea of the magnitudes we are dealing with. But when any of these magnitudes has been definitely noted, or when we have conceived a body having moved this distance, represented by ~~black figures~~, or ~~conceived as well as~~ ~~we can in our minds~~, we can easily suppose imagine it, going further, we can conceive no limit to this, & though we cannot take in this vast distance, we feel sure that it exists, simply from the fact that we cannot conceive of it ~~not existing~~; and thus we go on & on in our conceptions assured that we can never reach an end, & we believe in infinity, not because we can comprehend it, but simply because we cannot conceive of its not existing - (The same thing may be said of ~~infinity~~ eternity infinite time, of which we get all the ~~idea~~ ~~number~~ of it we can conceive of no time so distant in the past, that

we cannot suppose, a more distant time. — or in other words, we cannot conceive any limit to time either past or future.  
 (by ~~suspending a moment taking place at a certain point along this infinite line.~~) If we look in the other direction to the infinitely small either in space or time, we will find ourselves in the same difficulty, though we are generally in the habit of thinking that, though the infinitely great is out of our reach, that the infinitely small, is easy to imagine & easy to reach. Looking at the thought in one way, perhaps it is. If we take a foot rule, & cut it off inch by inch, we will soon ~~as~~ bring it to nothing, but just before we get to nothing there was one inch remaining — suppose this length be divided into two, & what remains be halved, & so on, when will we ~~(we will find that there is always a half part of the last part remaining)~~ get to the end of it? In order to present the subdivision of time, we present an interesting illustration from science. We ourselves think that it is a demonstrated fact, perhaps as certain as that messages can be sent along the telegraphic wire in an incredible short space of time. It is this, that the ~~the~~ nervous fibril of the retina of the eye ~~stands~~ probably standing on end like the pile on velvet, makes a single vibration under the influence of light, in, we might give it more accurately, but we present it in round numbers, the 500 million millionth, part of a second. A second, all know, by the tick of the clock, is not a long time, indeed it is our shortest unit of time, well, a second is to this small time in which this vibration ~~real 1 of a ship tossed by the waves~~  
~~an accomplished fact, as much as the motion of a comet takes~~  
~~time as has been well said, it takes is, as best he can tell it,~~  
~~as it were an eternity of round numbers 15000000 years is~~  
 as much greater than a second, than a second is to the time of this motion which takes place, in the nerve, when light enters the eye. — We have been dealing here with ~~more abstract~~  
 'chemical arrangement for the purpose of producing the effect with regard to time and space, in order that we may the

that fixes definitely any of these remote dates, but would simply state that there is good reason to believe, from the evidences presented by the investigations of Geologists in this world on which we live, that, ~~in the ordinary course~~  
~~of nature, & there is every reason to believe that it has been~~  
~~through the whole Geological history of the world, inevitable~~  
~~that we may regard millions of years to have elapsed~~  
since God laid the granite foundations of our mountains.  
and it is very probable that in the first Chapter of Genesis instead of having a concise history of the work of six days we have a very concise history of the work of six periods each of consisting of many millenniums. As it <sup>partly</sup> is our design to show that Science does not contradict revelation, but rather corroborates it, it may not be out of place here to refer a little more particularly, to the account of the creation as given by Moses, in the light of modern science. And it is just here where there is the greatest apparent discrepancy. Many will remember well, when this then new view, with respect to the great length, that it was necessary to give to the days of creation, in order to make the Theological and Geological views correspond, how jubilant some inclined infidels were in the evidence they thought they had that the Biblical account was false, & how alarmed many good believers, both lay & clerical were, at these oppositions of science, & with what a scowl they looked upon men of science particularly the Geologists. We cannot do better than to present by way of quotation,

from the Geology of Dana, the cosmogony of the Bible which he tells us is especially that brought out by Prof Guyot (of Princeton) in his lectures. — p. 263.

"There is one ancient document on Cosmogony, (i.e. the origin of the world), the opening page of the Bible, which is not only admired for its sublimity, but is very generally believed to be of divine origin, —

In the first place, it may be observed that this document is true, is of divine origin. For no human mind was witness of the events and no such mind in the early age of the world unless gifted with superhuman intelligence could have described <sup>the</sup> scheme or, would have placed the creation of the sun the source of light to the earth so long after the creation of light, even on the fourth day, & what is equally singular between the creation of plants and animals when so important to both; and none could have reached the depths of philosophy in the whole plan.

Again, If divine, the account must bear marks of human imperfection, since it was communicated through man. Ideas suggested to a human mind by the Deity would take shape in that mind according to its range of knowledge and modes of thought and use of language unless it were at the same time supernaturally gifted with the profound knowledge and wisdom adequate to their conception and even then they could not be intelligibly expressed for want of words to represent them. × × ×

After stating that the word day even in the first chapter of genesis, is used to express different lengths of time,

from which it appears that there is no violence done to the sacred record by making it refer to an indefinite period, he goes on to say

"The order of events in the Scripture cosmogony corresponds especially with that given in Geology. There was first a void and formless earth, this was literally true of the heavens and the earth, if they were," (as there is every reason to believe they were once) "in the condition of a gaseous fluid. The succession is as follows.

- 1 Light, 2 The dividing the waters below from the waters above the earth (3) The dividing the land and water on the earth. (4) Vegetation, which, Menes appreciating the philosophical characteristic of the new creation, distinguishing it from previous inorganic substances defines, as that which has seed in itself.
- (5) The sun moon and stars - (6) The lower animals those that swarm in the waters and the creeping and flying species of the land. (7) Beasts of prey -
- (8) Man. In this succession we observe not only an order of events like that deduced from science, there is system in the arrangement, and far reaching prophecy, to which philosophy could not have attained, however instructed.

The account recognizes in creation two great eras of three days each, an Inorganic & an Organic.

Each of these eras opens with the appearance of light the first light cosmical, the second light from the sun for the special uses of the earth.

Each era ends in a day of two great works, the