THE AMERICAN PRESBYTERIAN, THURSDAY, APRIL 15, 1869.

Elye difmily Cincle.

## DIES IRE.


Then what terroo of
 II.




 vili.
King of mightiest coronation,
Some through grace gain aprobation-
Save me, source of all salvation!




With my shane ny fraco is burung ;
xiIf.



xyr.

xVII.

O that day so fulu of wer



## the bar or the polpit.

"What book is that. my son ?" asked ${ }^{2}$
niddlo-aged lady as has stepped out on the verandah of a Southern home, and took a
seat by bin inder young man who was porsoat by a slonder young man who was. por-
ing intenty over
bound in law calf.
"It is a volume of Blackston's Commen-
taries on the Laws of England. Would you taries on the Laws of England. Would you
like to read it, dear mother ?" was the smil-
 to study law?"
As the mother asked this quostion, another lady reached out of an adjoining window,
and replied for the young man: "Yes; since Richard came to Alabama he has caught the fever that most of our young men are
affected with, once in a lifo-timeatleast, and means to become a politician. He made a
speech a few weeks ago at a temperance speech a few weeks ago at a temperance
barbecue, which was very well indeed for a our boys and girls, particularly the last, ap-
plauded it so highly that he aetually fancies plauded it so highly that he actually fancies
he is an orator, and may yet electrify the he is an orator, and may yet electrify the
Congress of the United States with his eloquence; so aking his dreams a reality."
meano of mak,
"Now, aunt; you always did ridi-
"Now, now, aunt; you always did ridi-
cole my plans. Never mind; I'll make oua
cangh for pleasure some of these days. But, angh for pleasure some of these days. But,
mother dear, it is true ; since coming to the mother dear, it is trae; since coming to the
South I have decided on the law an a profes-
"But during your college life you had the
ministry in view. You certainly oannot ministry in view. You certainly oannot
think the profession of a Blackstone preferable to the calling of a Paul?"
"No ; but you know college life is not famy Saviour. I sought father's and your conmy
sent to come to Alabama after graduating,
because the associations of home reminded because the associations of home reminded
me too much of my former state and present anhappy condition.
"I have feared that, my dear bofy", said
the mother, with a tremalous voice," and I the mother, with a tremulous voice, " and I
have blamed myself for not manifesting a deeper interest in your spiritual welfare,
both while in college and after your return home. But I was proud of your valents, and acted as though I forgot that your saccess in the high caling you had marked out
for yourself depended as mach apon living
piety as upon talents."

The young man laid aside his book and
wept as his mother spoke. His past life came np lite a panormana before him. He
saw that mother and himself, then a say, bowing together in the chamber, as she
boured forth her soul to God that he might be brought early to Christ. He recalled it
scenes of that revival meeting wheu, bowed beneath the weight of conviction, he totter
ed up the crowded aisle to manifest his de sire for salvation. Then came the agonizing
struggle with his stubborn will, followed by
竍 the joy of submission. He remémbered that
mother's tears of happiness as ste clasped him in her arms on learning his hope o
pardon, and her exbortation to think pray
erfully of the ministry college course passed before his memory-
first, bis zeal and devotion; then, bis ardor cooing, his gradual withdrawing from asso
ciation with religions stũdents, pringing
into the inted backsliding,
firmed
"It may not be," he said bitterly.. "M "It may not be, he said bitterly," "My
religious friends havelost confídence in me.
In fact I have no confidence in myself. And God, I know, is angry with me. I can never
be as I once was. Aunt spoke the truth Ambition has taken possession of my heart for God bas left it,", dah while he was had come ont on the veran
around him and her arm
Did, "Pardon in in railery Diek: It was ill-timed. Cbeer ap, too. Yo
ought to know that there is ever for ought to know that there is ever for
giveness with God. It was only the morn
ing before your dear parents came to visi
us ing betore your doar parents came to visit
us that we read at family worship those
words of the apostle, "Where sin hath
abouded abounded grace did mach more abound
You repeated the words over and over again Surely, you have not forgotten their glorious
truth,",
The young man could not reply. It was true; that passage had atruck bim with in
usual force, and be took the words a it wer
out of his uncle's mouth repesting them, out of his uncle's moath, repeating them, a
one often passes the hand over an achin brow, with the hope of at east temporar
relief. But the joy of his parent's arriva
which which was not expected, and importan
cares, had temporarily checked the rising feeling of penitence and hope.
During this, scone the mother had remain-
ed silent; but her mind and heart wer ed silent; but her mind and heart were
busy. She saw that her fears were but too
truly founded She truly founded. Sky also saw with pain that
she bad greatly erred in permitting herson's she bad griatly erred in permitting her son's
religious iffe to swing ciear of her influance.
But with the humble confidence of an expe But with the humble confidence of an expe
rienced Christian she tarned to him, drawing his head to her side, and passing her hand
tbrough his hair in the familiar way of yore she sweetly said :
Thour aunt'speaks truly, my dear boy
There is hope for the penitent backslider Even he who denied his Lord with oathe was received into favor, and had a gloriou
work committed to his charge. I have faith
to beliere that to believe that God has great things in store
for you yet." for you yet."
Richard reti
exhed to his room. His ant' exhortation, but, above all his mother's atrik-
ing words, produced their dosired effoct He
threw aside his Blackstone. Ho retarned to threw aside his Blackstone. He returned to
his Bible. Not many years passed and that mother slept in Jesus; but her words lived
in the son's heart; and whê he gtood up
before the council that examined him for ordination, the widowed father, who wa
present, heard him ary: "My hopes of be coming a minister of eesus were revived by
the words of my sainted mother; $T$ have
faith to believe that God has great things in store for you yet.
His subsequen
mother's faith was not a phantom. - Th American Afessenger.

## WOMAN'S UNION MISSION TO WOMAN.

 "Her last completed handiwork (Mrs. LymanBeecher, who died March 13, , was to embroider a
tidy to we sold Beecher, who died Maroh 13, , was to embroider
tidy, to be sold the the coming fair for the suport.
the Zenana Mission."-Independent, March 18. Do you ask what a Zenana is? In India
means the women's apartwent of the house Mis mrittan, a Zenana teacher in Calcutta, says:"The house is generally the father's, who is it
head; or, if dead, he is succeeded by his eldes son, while their wives are the mistresses of th house. All the sons bring their wives to the
father's house, where they have each separat suites of npartments. In this way, perhaps, in
one Zenana there may be six or seven women and any number of children; quite a school o indin. the street, nor be seen anywhere. Should
go into they visit their relations, they are closely veiled
and shat up in palanquins so tight that no one can see in or out. Just fancy women frow fort
to fifty years old, niever having seen even the moon or a tree-not able to use properly that
glorious iftif of God, the sigt."
Wonld you like to loo Nottingham, another of our missionaries, says:
"Y esterday I opened a house which was ex
actly actly like those I had read of. The babu, or gen
tleman of the house, had a suit of rooms furnish tleman of the house, had a suit of rooms furcish-
ed elegantly, rich carpets, sofas, chairs, beautiful paiacings and statuary, with a centre table cover
ed with vases and curiosities. It was refreshiv
to see such beauty and to see such beauty and elegarice. But, alas!
was shown into the women's apartments, and tb tears came to my eyes. Ah, how sad! The bab
spoke English, and was a gentleman; his wif
sat on a dirty mat sat on a dirty mat, which was thrown on a dam
stone floor, her hair nocombed, her one artiele o
clothing a sauree, wretebedly dirty, and the ap pearance of everything in the bare, miserabb
litte rooom she lived in, was that of lowest hea Thill. quite recently, these apartments wer
closed against all foreignes ; but ta and Lucknow alone, a thounand ZZeeana pupil
are under the instruction of our Mission. Th work is spreading overt the length and breadth
the land. Miss Britan made a recent visit to the provinee of Jeypoor, invited by the native King
to consult with him in regard to this great educational movement for the women of India. On
her return she found petitions from seven differ ent places, all desiring ladies to be sent to open
Zenana schools. Her words are full of meaning

| - |  |
| :---: | :---: |
| for teachers. O that you could send out others | sliding down hill all alone by himself; this |
| for this deeply interesting roork, which can be | frequently repeated." |
| guaye. The work is immense. 0 , that I could plead wosands would cowe forward and give up one little luxury a yrar, to | GuEntifut. |

MEASURING EARTHOUAEESS, OR SEISOA great earthquake as usual accompanied by
smaller trewors, visited the kingdom of Naples and desolated the southern part of it on the 16th
of December, 1857. On the 27th of January of December, 1857 . On the 27th of January
1858, Mr. Mallet left London for the purpose or gathering evidence of the mode of artion which
had been left in the effects: on the 10 th of Feb raary he was permitted to begin his work; in
1862 appeared the volumes which contain the re sults, amply illustrated by maps, sections, and
representations of ruined cities and other interrepresentations of ruined cities and other inter-
esting objects. This is: the one great work on
'Observational. Seismology. In it the terrible hand-writing of nature in overthrown cities has
been translated into meehanical and mathematical language; and thus the conditions, unde
which the forces acted, to overthrow them, th
velogity with which the Velocity with which the ground was moved, the
extent of its oseillation, and ultimately the.cen
tre of the disturbance and the depth from which tre of the disturbancee and tio dep
it sprang, have been determined.
it sprang, have been determined. obvious truth that buildings fractured and solid ob
jeots displaced must furnish evidence of the fore and direction of the mechanical agencies which oc
casioned the effects-a method never tried before casioned the effects-a method never tried before
never indeed possibie to be tried, withot the ad
vantare of such ' working tools' as Mr. Mallet just vantage of such ' working tools, as Mr. Mallet just
ly entitles the series of mathematical equation
suited to suited to meet the various states of overthrow, frac
ture, and torsion, in which the injured houses and otheets, they all depend on one constant condi tion-the switt passage ander them all of a low
undulation of the ground, a real but far from bre unnoticeed, but passing as it does very swiftly
-600 miles an hour or more, half as fast as a cannon shot-objects may be lifted upward...
forward, or backward, or fractured or shaken t ruins, They are in no case moved through space
proportioned to the 'transit velocity' of the
wave but partake of the movenen whe particles of the ground whine the wave pass-
es through it, and that movement is often not more rapid than what bodies acquire by fallin
freely from a height of two or three feet. The nature of the eearthquake-wave in rock
may perhaps require illustration beyond stateneat, that it is a wave of selastic compres
sion? Let it be supposed that in the niidst of
mass of rock a cavity is 'prodnced mass of rock a cavpity is that in the the midst of Into th
cavity let high-pressure steam of great force en
ter cavity let high. pressure steam of great fore en
ter suddenly ; the effect will be to exercise out ward pressure on every part of the surface, the
pressure of many atmospheres on every square
inch. The carity may be enlarged by the steam. pressure ; the rock, being an elastic substance
yields to this pressure through a certain dept from the sirface, and more or less parallel to it,
thius a zone of coimpressed rock of a certain Lus. a zone of compressed rock of a certain
depth or 'thickness is formed, beyond whioh the
next zone in its turn receives the pressure and next zone in its trin receive in prend it onard, Thas there is always a zone o
sendsure in course of niovement through th
press pressure 'in course' of niovement through the
rocks ; the spacel behind recoversi its first condi
toind tion, the space in front is untroubled till its tur
arrives. This travelling zoie is the wave o
elastio compression:
elastic compression
If, instead of high presure stean entering
silch a cavity, any other action capable of sus taining and comrunicating sufficient pressure be
substituted, the effect is similar in any such case
the 'roek would be counpressed, the wave would be formed, and would be transmitted. All the par ticles of rock with in the wave are set into viWhioh they experience-a yoing, and réturning that of the zone or wave within' whicl all the par-
ticles are in motion. The earthquake-wave, then, shaken by these vibrations; objects may be dis placed by them by means of the force of their
short movements during the passage of the waye,
which bears' the system of the particle motions, but not the particles, onward at the rate of ten fifteen, or twenty miles in a minute.
The results arrived at by the inves

 about 75 miles east-south-cast of V Vesuvius, and
about 40 miles South of Mount Vultur. The
direction of the axis of the tll direction of the axis of the ellipse is nearly
north-west and south- east, and the intensity orves are so arranged as to insulate the Vesuvi
region, though it was nuch shaken, and form
anto separate system. into a separate system.
The areas disturbed by the earthquake are
grouped by Mr. Mallet round the focus in séveral
closed curves, according to the degree of the closed curves, acoording to the degree of the
dislocations produce. The curves are more or
less of an elliptical character, 制e focus of the curve corresponding nearly with the focus of the
earthquake. The innermost or meizoseismal earthquake. 716 area included 716 square goegraphical milese, and
within it was a total destruction of edifices and witeat loss of life; the notit"outward included
great
1,685 square miles, and was marked by great 1,685 square miles, and was marked by great
prostration of edifices and loss of life ; the third
included 4,976 square miles and in it houses
were partially overthrown, and alw were partially overthrown, and alwass fissured;
beyond this, 29,500 square miles felt the shock
and suffered ocoosional injury. Sounds accom.
panying the shock and suffered occasional injury. Sounds accom
panying the shock were heard over 2,500 squar
miles. The place on the surface of the ground miles. The place on the surface of the ground
frow which the wave-paths radiated; or seemed to
radiate all round was certainly contained within
a circle of 10 miles in tiameter the cinte a circle of 10 miles in diameter, the centre of
which was very nearly coincident with the town
of Caggaiano, situazed 58 geographical miles to Che eastiano, situated Naples, and 16 geographical miles to miles south of th
of city, in a sort of basin, in the midst of ridges of
Apennine limestone. Sixty lines on the map
representing wave-pathis fell within this circle foresenting wave-paths fell within thise circl
forty-eight fell within a smaller concentis circle two miles in diameter; thirty-two within
ly cross at a focal point, which isteen actual

Hit the eiriele, or elese within a airicl of of 50

 Te apgle at whith the weve emented. The com of the is eatasy, the collection and interpretation
of the very muech otherwise. Of these twenty-gix wave-paths twenty-three start from a
depth of about $\overline{\text { it }}$ geographioal miles $=43.24 \pm$ depth of about $7 \frac{1}{1}$ geographioal miles $=43,28 \pm$
feet. The greatest depth indicated is 88 miles
$-49,359$ feet, aud the least depth is $2 \pm$ mil
 oiles, or 34,930 feet, which may be regarded he depth of the focus; the whole vertical space
rom which the waves appear to start being proba-
ly 3 miles, or 18,225 feet at the utmost.

SUPPOSED TRAOES OF MAN IN THE Paleozoio age
The Buffalo Courier has the following "There are now on exhibition at the room the Society of Natural Sciences, in this ies in the annals of science. One is the
fossil imprint of the foot of a man, or ase imprint of
as discovered Miery in Western Pennsylvania, in the
sale overlying a run of coal, and under-
ling two other veins which were be lying two other veins which were be-
ing worked by the company. The ppot
where it was found was nearly a mile from the pit's mouth, and some three hundred
feet from the surface. The rock in which and the imprint, if such it be, was made cal era commenced. It is the cast of the ett foot of a man of ordinary size, and is
perfectly defined the foot was evidently perfectly defiued; the foot was evidently
protected by a gandal or mocasin; the
heel, the arch, and the ball of the foot, and the light impression made by the toess are peran or a freak of Dame Nature; the cast is
perfectly dolned as if the work of culptor.
By a curious coincidence, the society, a econd specimen from the Rev. Samue andstone, on which, stamped in the solid ook, can be sen the imprint of horses'
hoofs, as perfectly preservedis thongh they bank of a slaggish tstream. There are at in size from of the track impresionse, arying erent directions, as though the animals wer leisurely walking about and cropping the
uxuriant grasees of that ropical period, some of them being obliterated by the more
perfect form of a fresher imprint.
 and we look with interest for the theories
of those high authorities respecting the na
ture and character of the ormed, and the condition of the earth at the date of their formation. If the theorie ceived gentirely orerthrow the present $r$
ceal system, and to furth omplicate that terrible question, the effor to solve which has gaused learned men so
many soul-distarbing doubts and fears, and nid, that is, whether the geological and ariptaral record
The fossil foot-print was presented to the
society by John Magee, now in Europe. Wo society by John Magoe, now in Europe. We
advise all who take an interest in geology to inspect for themselves these curious spe-
cimens, which affect that science so momentously:"
Go gentlemen, at this rate of new
diboovery and overthrow of old theories, disoovery and overthrow of old theories,
Geology will soon become a fixed science.

- A direct adhesion to Darwinism is considvolume of hiven by Preat worssor, The Anat, in the last
telrates. At the of Verarefully written passange, he sofans that by by the
acquisition and comparison of all fresh faets, he
"has been led to recognize species st ing the continuous operation of natural law, or but progressively, from the first embodiment of
the vertebrate idea, under its old Iethyic vestment, until it became arrayed in the glorious
garb of the human form." [There seems to us still a very considerable ap between the great anatomist and the wild peculator. Ed.]
- From recent aceounts it would appear that he purchase of Alaska was a profitable specula-
ion aftor all. A despatoh from San Fracisco are reported on the maineorinas of gold placers
Kodiak Island 100 degrees west from Greenwich. ${ }^{\text {The }}$ Three seve-
ral discoveries have been made : the first on Kural discoveries have been made : the first on Ku-
yack River and Chigmet Mountain ; the second
about 60 miles abore Sitke about 60 miles above Sitka, and the third on an
sland, the name of which is well. koown. The
nines, on account of the climate, can only be worked five moonths in the year. Finne epeciinens
of gold frou these mines are on exhibition at f gold froun
San Franisisco.


## The solar engine invented by a Frenchman

 A concave reflector is used to concentrate theunshine on a boiler blackened with smoke. It is computed that in the latitnde of Paris the
heat reflected from a surface of a square meter, 10.75 square feet, will make a quart of water,
taken at the freezing point, boil in ten minntes. An area of 100 square metres will furnish as
niuch heat in 10 hours as can be got from burn-

