

BREAKING THE JAM.

The cant-dogs clank, and the axes gleam,
And the bushes are black by the swollen stream...

The little sticks twirl and the big sticks
grind,
And Bob, as he runs, begins to sing...

SCIENCE AND INDUSTRY.

Cats are known sometimes to have
tuberculosis, and that they have in
many cases been carriers of diphtheria...

The advantages of cordite, the new
explosive, were recently shown in Eng-
land, where the factory manufacturing...

"Heat accumulators" are claimed
to save 15 to 20 per cent. in the fuel
consumption of locomotives on the Rus-
sian railway...

The terrible explosion that occurred
some months ago in a chocolate of pot-
ash factory at St. Helens, England, has
been a subject of careful investigation...

For many years efforts have been
made from time to time to measure the
heat radiated from some of the bright-
est stars...

Perhaps the most remarkable fea-
tures in the Kivu region in Central
Africa are the volcanoes, which lie
around it at some little distance to the
north...

OUR GREAT FARMING INDUSTRY.

\$16,000,000,000 Capital Invested and
8,466,365 Workers Engaged.
Professor John F. Crowell of New
York testified recently before the in-
dustrial commission, Washington...

What a defense it is against accident!
There have been times in all our expe-
riences when we have with the hand
warded off something that would have
extinguished our present or bettered
our future...

The Behemoth Was Not Fresh.

The waiter in a San Francisco grill-
room will admit to nothing that he
does not keep in stock. If it be a re-
quest for a slice of the moon he will
say "Yes, sir," and go to fetch it...

DR. TALMAGE'S SERMON.

SUNDAY'S DISCOURSE BY THE NOTED
DIVINE.

Subject: The Wonders of the Human
Hand—Our Physical Structure Proof
of Divine Wisdom—The Extended
Hand the Symbol of Infinite Mercy.

WASHINGTON, D. C.—The discourse of Dr.
Talmage is a lesson of gratitude for that
which none of us are worthy to receive,
and shows the Divine meaning in our physical
structure; text, I Corinthians xlii, 21, "The
eye cannot say unto the hand, I have no
need of thee."

These words suggest that some time two
very important parts of the human body go
into controversy, and the eye became inso-
lent and full of braggadoocio and said: "I
am an independent part of the human sys-
tem..."

How often has the hand decided a des-
tiny! Mary, Queen of Scots, was escaping
from imprisonment in the Tower in the
dress of a handmaid and had her face
thickly veiled...

Again, as the chief executive officer of
the soul, behold the hand busy in the art!
What a comparatively dull piece the
world would be without pictures, without
statuary, without music, without architec-
ture...

In two discourses, one concerning the
ear and the other concerning the eye, I
have written a "Paradise Lost" or a
"Samson Agonistes"; as in the case of Wil-
liam H. Prescott, and yet his hand may
write his agonizing "Conquest of Mexico."

What a defense it is against accident!
There have been times in all our expe-
riences when we have with the hand
warded off something that would have
extinguished our present or bettered
our future...

Again, the hand is the chief executive of-
ficer of the soul when wrong in agony.
Tears of relief are sometimes denied to
the sufferer, but the hand writes the story
of his pain and burning as the brow
is hot and parched and burning as the brow...

But it is not always in such glad greet-
ing that we can employ our right hand.
How often we have to employ the hand
in farewell salutation! If your right hand
retained some impress of all such uses, it
would be a volume of bereavements. Oh,
the goodbyes in which your right hand has
helped! Goodby to the goodby on the
wharf. Goodby to the rail train window.
Goodby before the opening of the battle.
Goodby at the dying pillow. We all need
grace for such handshakings, though our
hand is not for the tear glands to write in let-
ters of crystal on the cheek, the hand re-
lates the tragedy with more emphasis than
anything in "Macbeth" and "King Lear."

The great artists of the ages—Raphael
and Leonardo da Vinci and Quentin Matsys
and Rembrandt and Albert Durer and Ti-
tiano—have done their best in picturing the
face of Christ, but none except Ary Scheffer
seems to have put much of the truth before
the hand of Christ. Indeed, the mercy of that
hand, the gentleness of that hand, is be-
yond all artistic portrayal...

His own hands free, see how the Lord
sympathized with the man who had lost
the use of his hand. It was a case of
atrophy, a wasting away until the arm and
hand had been reduced in size beyond any
means or surgical restoration. More-
over, it was his right hand, the more im-
portant of the two, for the left side in all
its parts is weaker than the right side, and
we involuntarily in any exigency put out
the right hand because we know it is the
stronger hand. So that poor man had lost
more than half of his physical armament...

How often has the hand decided a des-
tiny! Mary, Queen of Scots, was escaping
from imprisonment in the Tower in the
dress of a handmaid and had her face
thickly veiled. When a boatman attempted
to remove the veil, she put up her hand to
defend it and so revealed the white and
fair hand of a queen, and so the boatman
was freed from his duty. Again, and
again it has been demonstrated that the
hand hath a language as certainly as the
mouth, Palmyra, or the science by which
character and destiny are read in the
lines of the hand, is a very crude and uncer-
tain and unsatisfactory art. The hand
was the mother of astronomy and alchemy
was the mother of chemistry; it may be
that palmyra will result in a science yet
to be born.

Again, as the chief executive officer of
the soul, behold the hand busy in the art!
What a comparatively dull piece the
world would be without pictures, without
statuary, without music, without architec-
ture! Have you ever realized what fifty
seemingly unimportant things in the five minutes'
space of a day are done by the hand?
The eternal God could make a hand
capable of that swift sweep of the keys or
that quick feeling of the pulses of a flute
or the twirl of the fingers amid the strings
of the harp? All the composers of music
since the dawn of time have had their
cantatas of the ages would have had their
work dropped flat and useless but for the
translations of the hand. Under the soft
fingers of the performer what eavies
gallop and what batteries boom and what
trains of carols and what temples of
what oceans billow! The great architects
of the earth might have thought out the
Alhambra and the Parthenon and the
St. Sophia and the Taj Mahal, but all
these glorious would have remained had it
not been for the hand of the mason, the
plumber, on trowel, on wall, on arch, on
pillar, on stairs, on dome.

Do not enlorge the eye and ear at the
expense of the hand, for the eye may be
blotted out, as in the case of Milton, and
yet his hand writes a "Paradise Lost" or a
"Samson Agonistes"; as in the case of Wil-
liam H. Prescott, and yet his hand may
write his agonizing "Conquest of Mexico."

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THE GREAT DESTROYER.

SOME STARTLING FACTS ABOUT
THE VICE OF INTEMPERANCE.

When He is Gone—Alcohol is Not Nutri-
tion—Northfield Committee Condemns
the Statements of Professor Atwater
on This Subject—Denied by Scientists.

"When I am gone," he sighed, "the sun
Will shine on in the sky;
The tinkling rivulets will run,
And flowers will bud and die!
When I am gone the breeze will blow
Across the meadow still,
And trees will bloom and grain will grow
Upon the distant hill!
When I am gone the waves will break
Upon the sloping strand,
And happy children still will make
Their castles on the sand.
When I am gone the birds will sing
As blithely as to-day,
And men and maidens, in the Spring
Will live to love away.
When you are gone," she said, "the rose
Will blow in June;
The winding brooklet, as it flows,
Will sing the same old tune!
When you are gone the ducks will quack
Just as they quack to-day,
And every plume will flaunt
Will swing through space away!
When you are gone the bumble bee
Will humble as before,
And sails will gleam upon the sea,
And waves will shake the shore.
When you are gone, the gentle breeze
Will blow as now it blows,
But, oh, my friend, some breweries
May be compelled to close!"
—S. E. Kiser, in Chicago Times-Herald.

Alcohol is Not a Food.
The committee appointed at the North-
field (Mass.) Summer Conference of Chris-
tian Workers, August 11, 1899, to investi-
gate the statements of Professor Atwater,
of Wesleyan University, on the nutritive
value of alcohol, have issued an explanatory
report in a sixteen page pamphlet entitled
"An Appeal to Truth."

This committee acted in co-operation
with the Advisory Board of the National
Temperance Society, the Presbyterian
Woman's Temperance Association, the Per-
manent Committee on Temperance of the
General Conference of the Methodist Epis-
copal Church, the Permanent Committee
on Temperance of the Presbyterian Church,
the National Woman's Christian Temperance
Union, the Massachusetts Total Abstinence
Society, the National Department of
Scientific Instruction and the Non-Parti-
san National Woman's Christian Temperance
Union.

Under these auspices the data furnished
by Professor Atwater as the result of his
experiments at Middletown were subjected
to a searching analysis by leading experts
in physiological chemistry, and the follow-
ing deductions were made:
First—Professor Atwater says his experi-
ments proved that alcohol is oxidized in
the body. This is not denied, but it is
denied that Professor Atwater's claim
proved alcohol to be a food. Many poisons
besides alcohol are oxidized in the body.
The Middletown experiments are said to
prove that alcohol is being oxidized in the
body furnishes heat and energy. This,
again, is not denied. But the assertion is
made that the oxidation of alcohol in the
body is not a nutritive process, its injurious
action at the same time far outweighs the
value of the heat and energy it liberates,
as is the case with other poisons oxidized
in the body.

Second—Professor Atwater in his experi-
ments proved that alcohol protects the
materials of the body from consumption
just as effectively as corresponding
amounts of sugar, starch and fat. But
eminent scientific authorities testify that
besides alcohol, the body requires other
nutrients. The Middletown experiments are said to
prove that alcohol is being oxidized in the
body furnishes heat and energy. This,
again, is not denied. But the assertion is
made that the oxidation of alcohol in the
body is not a nutritive process, its injurious
action at the same time far outweighs the
value of the heat and energy it liberates,
as is the case with other poisons oxidized
in the body.

Third—These scientists, after careful
study of Professor Atwater's report, came
to the same conclusion, viz., that his tests
do not show that alcohol protected the
body materials from consumption. The
entire testimony in an "Appeal to Truth"
does show that, according to his own ta-
bles, Professor Atwater's experi-
ments have not shown to be sufficient to
obtain his charge of error against the present
temperance teaching that alcohol is not a
food, but a poison.

Fourth—The report says of Professor At-
water's unproved claim, "The body re-
quires the same loss of nitrogen in the man
who took alcohol as do bulletin No. 69,
such unanimity would by so much refute
the statement that alcohol protects the
materials of the body for the consumption,
if they should vary, the variation would
prove such data inadequate, for to be
worth anything for generalization there
should be uniformity in the results of such
a limited number of tests made under
conditions so unusual to everyday experi-
ence."

An English Soldier's Testimony.
An English soldier recently returned
from India, and at a temperance meeting
he stated that he had been in India for
some few hours but was proud to bear
testimony in favor of total abstinence. He
had been in engagements on the frontier,
marched under the burning rays of an In-
dian sun, camped and lived on the
frontier, and his superior officers ever present,
represented his country as swimming,
cricket and football matches, and amidst
it all enjoyed good health and had not
tasted a drop of intoxicating liquor. Drink
was the greatest enemy a young soldier
had to contend with in India. It unfitted
him for action, rendered him more liable
to fall into vicious habits, and was most dan-
gerous to health. As Secretary of the Army
Temperance Association in his regiment,
he had earnestly and successfully opposed
crime, sickness, etc., and but for the drink
would almost be unknown and the
hospital cases reduced more than one-half.
The teetotal soldier was more to be de-
pended upon when dangerous work had
to be done, and his superior officers used to
select men from the members of the A. T.
A. on such occasions, and these men were
not ashamed to be known as "Havelock's
Saints."

New Method of Temperance Work.
This has been started by the Illinois
Christian Citizenship League. It consists
of a series of meetings, at least four, and
a children's meeting. At these meetings the
people are asked to make a young soldier
pledge to the effect that they will do all
in their power to prevent the sale of in-
toxicating and malt liquors in their own
town, except it be for medicinal and chemi-
cal purposes. On each signer a bit of red
ribbon is carefully stamped on the return
of their meetings, when they promise to help.

The Crusade in Brief.
If you wish to keep out of debt, keep out
of the saloon.
The way to prevent drunkenness is to de-
stroy the cause.
Drink revenue is wet with tears and
stained with blood.
A good example is set by the Boston Fire
Department in that any member of the
force is subject to dismissal who enters a
saloon while in uniform.
A woman was the first person to cause
the arrest and conviction of a saloon keeper
at Bluffton, Ind., for keeping his drunkard
factory open on Sunday.