LOUIS PASTEUR, THE GREATEST BENEFACTOR OF THE HUMAN RACE

Centenary of the Birth of the Man of Genius Who Discovered Germs and Gave Us Our First Real Defense
Against Death.

The whole scientific world celebrated the centenary of Pasteur's birth on December 27 last. He was born in France, the son of a tanner. He showed no special aptitude in his early youth in the study of chemistry, to which he was to devote his life. He at first met with but meagre success. But he, however, soon showed a predllection for the study of crystals and their formation. It was while observing the formation of paratartrate of magnesis under the microscope that he was attracted by a multitude of wriggling germs in the field or the microscope. Thinking that they were alive he asked himself what might happen if they were destroyed by heat. Having done so, he found that these germs moved no longer, were killed, and the formation of crystals ceased. This was the first time that it ever dawned upon the mind of man that there exists about us a world of minute organisms that are directly concerned in the affairs of men.

Seeing an analogy between the phenomenon just observed and the ferment ation of beer, he found that the yeast plant was a living organism, that it grew upon the wort, decomposing it and producing as a result a third substance or beer. It is the life of the growing yeast which produces technique and not the mere chemical decomposition. Pasteur was attracted by the similarity of putrefaction to the phenomenon of fermentation, the similarity of putrefaction to the phenomenon of fermentation, the similarity of putrefaction to the phenomenon of fermentation, the similarity of putrefaction to the phenomenon of fermentation, the similarity of putrefaction to the phenomenon of fermentation, the similarity of putrefaction to the phenomenon of fermentation, the similarity of putrefaction to the phenomenon of fermentation, the similarity of putrefaction to the phenomenon of fermentation. He similarity of putrefaction to the phenomenon of fermentation to the phenomenon of fermentation. He similarity of putrefaction to the phenomenon of fermentation to the phenomenon of fermentation of the disease were found

composition. Pasteur was attracted by the similarity of putrefaction to the phenomenon of fermentation. He found that putrefying substances contained multitudes of germs, visible under the microscope. When these germs were killed by heat, the odor ceased and the putrefaction stopped. He then concluded that putrefaction stopped. He then concluded that putrefaction was due to the development of germs in dead animal matter. Indeed flasks containing bouillon, made sixty years ago, are

mal matter. Indeed flasks containing bouillon, made sixty years ago, are still preserved to-day, having been carefully sealed at that time and, no germs having had access to them, no decomposition has set in. It was thereby proved that spontaneous generation does not exist, and that there cannot be any putrefaction with the accompanying growth of germs.

Antiseptic Tramment of Wounds.

The first direct application of this discovery was made by Joseph Lister, who found in foul wounds a great similarity with putrefactive processes the provention and cure of the disease the prevention and cure of the disease



-AND THE WORST IS YET TO COME



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Antequity Presented of present the presentation and crost the leads by the ball and present the present the

treal, Charistalante and Memel. Vinjalmur Stefansson holds the same
theory of the northward trend of civilization, and I do not know that be
would stop short of the pole.

But stop intrepdie soul,
When at last they met and clinched,
Was left both gay and whole.

"There are other wings," said Death;
"Spread them in the light:
Drop the wood and drop the flesh;
Try a longer flight!"
Try a longer flight!"
Try a longer flight!" movement in the past, and this is due to man's increasing control of heating appliances, by which he can fight the excessive cold in northern latitudes. If now, science should endow man with like control of cooling appliances by which he can fight the excessive heat of southern latitudes, might not the tide turn? When systems of cooling the tide turn? When systems of cooling the tide turn? When systems are now many not seen the tropies become habitable to the highest civilization? We are already, thanks to refrigeration, beginning to live off the tropies. Perhaps sometime, we may, by the same means, be able to live in them.

Drop the wood and drop the first and the single condensating and the fight in the first all the fight in the fight could. They could not hear the lam dropped.

From a high, bright cloud.—Marion Couthouy high could be able to live in them.

Planting trees by the bleak highway? You have earned a home and an easy chair
In place of toiling and sweating there."
She answered, "I love the work, my son And rest comes aweet when the day is done."

"Why plant the flowers on the high way's hem?
"But the trees you're planting, you'll pass away
"But the trees you're planting, you'll pass away
"E'er they cast a shade by the bleak highway."
"It matters little that I should die, I can but plant them," she made reply.

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"Spread them in the light: Drop the wood and drop the flesh; Try a longer flight!"

Famous Fasters of History

Miracle Complete.

"Nor had the smell of fire passed on them."—Daniel iii. 27.
In flery furnace heated seven times, Full many a Shadrach walks untouched by flame
That round the fabric of the soul entwines.

Yet leaves thereon no ling ring trace behind.
These in the faithfulness of God have

The Tongue of a Bee.

For many years in New Zealand red clover was not a successful crop. It would grow well for one season and then would die without forming seed for another sowing. To ship in seed for every crop was so expensive that not many farmers sowed clover in their fields.

At last a man of science who had
These in the faithfulness of God have



how they old the work their age and meaning, are questions of perpetual interest to those who have studied them. The picture shows a famous totem of the Vancouver Island Siwash Indians. It is the Thunder Bird. The mouth opens and forms an entrance. Tradition tells that they invited a rival tribe to a "potlach" and as the men were admitted one by one through the mouth of the "Thunder Bird" they were mardered by their hosts.

Builder of Great Pyran

spring.

"Sir," said the haughty lady who was holding up traffic, "I never hold a conversation with a man to whom I have not properly been introduced."

"That's all right, madem," replied the traffic cop, as he jotted down her number, "you need me in the Police Court to morrow morning at 10 o'clock and the Judge will attend to that little formality."

Too Much Tonic.

Mrs. Smith (thoughtfully) "I'm afraid I shak have to stop giving Tonmy that tonic the doctor left for him."

Mr. Smith (anxiously) "Why, isn't se any better?"

Mrs. Smith—"Oh yes id down Ob.