EVOLUTION - A THEORY THAT HAS SURVIVED 100 GLORIOUS YEARS

ON July 1, 1858-100 years ago — a paper "On the Tendency of Species to form Varieties; and on the Perpetuation of Varieties and Species by Natural Means of Selection" was read to members of the Linnean Society of London.

The authors of this joint essay, Charles Darwin and Aifred Russel Wallace, thereby presented the world with the theory of Evolution.

Little attention was given at that time to this idea whose force was to upset the foundation of then prevailing thought and belief and pave the way for a radical approach to the study of the natural sciences.

Interest began to be roused, however, in the Interest began to be aroused, however, in the following year, when Darwin published his great work "On the Origin of the Species." The whole edition of 1,250 copies was exhausted on the day of teams. issue.

A storm of controversy arose over the book, reach-ing its height at the British Association of Oxford in 1860, when a celebrated duel was fought between Bishop Wilberforce of Oxford and T.H. Huxley, who was the foremost champion of the evolutionary theory during its early struggles.

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Charles Darwin was born
in Shrewsbury in 1809, the
grandson of Dr. Erasmus
Darwin, famous scientist
and poet. He spent three
fruitless years preparing
for the medical profession,
for which he was temperamentally not suited.
His father then sent him
to Cambridge with the idea

to Cambridge with the idea that he should become a clergyman. After an undis-tinguished academic career, he set out on a global tour as the naturalist of a sur-veying expedition on H.M.S. Beagle,

Life pattern

The voyage was the real preparation for his life work. The pattern of life he saw around him made Darwin think in broad lines, in terms of continuity and gradual change. It led him

to the idea of evolution.

Although by that time, the notion was no longer original, it was he who marshalled the evidence in a more convincing manner

than had ever been done.

He deduced Evolution's agent—Natural Selection. Darwin dedicated the rest of his productive life build-ing up his case until he had

overwhelming evidence for

his conclusions.

Between 1854 and 1862,
another British naturalist,
Alfred Russel Wallace, was
working in the Malay Archipelago.

Wallace, too, struck upon the notion of evolution by natural selection.

Whereas Darwin brooded over the theory for twenty years, Wallace conceived the idea in a dramatic fashion.

He was under a severe attack of fever at Ternate, in in the Moluccas, when, to use his own words, "there suddenly flashed upon me the idea of survival of the fittest."

He wrote it down in the form of an essay—"On the Tendency of Varieties to Depart Indefinitely from the Original Type"—and posted it to Darwin.

What Darwin read was a summary of his own work. "I have never seen a more striking coincidence. his terms now stand at the head of my chapters," de-clared the astonished Dar-win to a friend. And so, their joint effort was read in the sombre dignified meeting room of the Linnean Society on the

the Linnean Society on that historic occasion exactly dne hundred years ago. The theory of evolution is

succinctly summarised

the last paragraph of the "Origin of the Species."
It states that the varying forms of nature are produced by the laws surround-

These laws are: "Growth

with reproduction;
Inheritance which is almost implied by reproduction:

Variability from the in-direct and direct action of the conditions of life, and from use and disuse; a ratio of Increase so high as to lead to a Struggle for Life and as a consequence to Natural Selection, en-tailing Divergence of character and the Extinction of less-improved forms.

War of nature

Thus, from the war of nature, from famine and death, the most exalted ob-ject which we are capable of conceiving, namely the production of higher animals directly follows..."
When the "Origin of the Species" was published, the public looked at it with ter-

rified fascination.

Today, the theory formu-lated by Darwin and Wal-lace is accepted the world over. It has withstood the test of time, it has lived a glorious century.