

SYMBIOSIS

Or Mutual Help Between Animals and Plants.



DOWN ON THE LINKS.

the links where the lark's on the
shollows sway on the weeds as
ing.
isles and buttercups dot the greens
neath the glance of the players
pass.
the links far away from the
rs are playing with mashes and

the links they're addressing the
full of Gaelic as Scotch caddies
putters and drivers and niblicks
oons.
ers and lofters and cleebs on the
the links dudish chappie and
ng the royal, the fashionably

the links the ball they are put-
is pronounced just as if it were
g.")
Anglo-manic feels nearly dead,
are wilted and faces are red—
the links they have just robbed
of that golf was like plain Yankee

PENSATION—HER DAY.

mighty rolling river,
a little, rippling rill;
mountain naught could shiver,
a tiny, shifting bill.

lion, loudly roaring,
a lambkin, born to love;
eagle, proudly soaring,
a gentle, cooling dove.

sturdy oak, defiant,
a slender, clinging vine;
brave and brawny giant,
a wee thing feminine.

they day when they went shopping,
the one that took the lead;
the earth, so far o'eropping
it seemed a mustard seed.

LOVE'S PRODIGAL.

By Katherine Lyman.)
were dead and gone,
gone, and I alone,
I never tell him never
art's love that like a river
floweth over,
sheth my store.

him now my love,
all not fire thereof
desiring of new fashion
most subtle alterations
To convey
tale in many a way.

ad and cold as stone,
one and he alone,
I know 'twould ease his grieving
all measure of my giving
That doth hold
lack of gems or gold.

eggar is a king,
and of youth and spring,
the spendthrift hath got plenty,
the miser giveth scanty
So today
egared while we may.

A SONNET.

poet wrote a sonnet
ut a pretty bonnet,
critic sat upon it,
a sonnet,
ut the bonnet)
Nothing loath.

it if it were high treason,
Neither rhyme nor reason,
And its out of season,
high? The sonnet
the bonnet?
May be both

female imitation
nother creation,
thetic innovation
f a sonnet?
This was hard.

ere put together neatly,
mixing very sweetly,
a critic crushed completely,
ut the bonnet
r the sonnet.

But the bard—
—Buffalo Enquirer.

me, madam," said the paying
at you have not indorsed this
you will write your name on
it it will be all right."
course," said the little woman.
right."

indorsed the check: "Sincere-
Janette Hickworthy."

LIMO'S CELEBRATION.

ther Seriously Interfered With
the Sports.

May 25—Yesterday morn-
very unfavorably for the
akers. Rain commenced to
five o'clock, and when the
need to start the sports came
lites decided it would be to
of every one to postpone it,
s accordingly done until one
in the afternoon the rain let
er a time the sun shone out
splendor, but the sunshine did
ng, as it commenced to rain
has continued ever since, so
ports to-day promise to be a
The principal event yesterday
set reel contest. Nanaimo
et test and the coupling con-
ria winning the dry test.

It quickly cures

Cuts, Burns,
Corns, Bruises,
Chilblains, Bunions.

Cracks between the Toes,
Scalds, Piles,
Swellings, Ulcers,
Stiff Joints, Old Sores,
Inflammation of all kinds,
Lame Back, Pimples,
Rheumatism, Pustules,
Caked Breasts, Eruptions,

Diseased Tendons,
Contracted Muscles,
And all Lameness and
Soreness.

gents for B. C.

THE study of bi-
ology a most inter-
esting subject is to
be found in the cur-
ious comradeship be-
tween animals and
plants, known as
Symbiosis or Mutual-
ism. The more the
subject is studied the wider does
its range become. Till the stu-
dent wonders whether every higher
organism, be it animal or plant, will not
be found to depend at least upon the
much maligned bacteria for their very
existence. But of this wide extension
of symbiosis I will speak later on, and
will now describe some individual cases
of mutual help and dependence.

Amongst those extraordinarily intelli-
gent insects the ants instances of alli-
ances with plants are so common that a
large number of these latter are known
as the ant plants. Foremost amongst
ant plants in its ingenious arrangements
for protection is the "bull's horn" acacia
of the forests of Central and tropical
America. Here the leaf-cutting ants
(Pseudomyrmex) construct fearful
among trees, laboriously and persistently
carrying off in their mouths, piece by
piece, the foliage of trees and shrubs. I
have read accounts of the march of these
ants; the traveller sees a long procession
of small pieces of green leaves carried
off in a herring-bone fashion in the pincers
of these formidable ants, just in the fashion
that Malcolm's soldiers advanced from
Birmah Wood to Dunsinane. But the
bull's horn acacia rests in peace, for it
has established a devoted garrison for
its protection. In its hollow thorns ce-
tain curious little ants (Pseudomyrmex
tricolor) find a stronghold for them-
selves and their families; the entrance
to their fortress is at the tip of the thorn,
and at the base of the leaflets the obli-
gated acacia has a gland full of honey for
the food of its garrison. On the ap-
proach of any foe, whether it be a mam-
mal on the lookout for a juicy morsel, or
a battalion of leaf-cutting ants, the lit-
tle Pseudomyrmex rush out in fury and
drive off the enemy.

The researches of a most painstaking
German naturalist, Fritz Muller, have
proved that the leaf-cutting ants in their
turn present an extraordinary instance
of symbiosis. They grow in their nests
a species of fungus, which they, however,
and literally feed with the most anxious
care. The leaves these ants bring
home are bitten into small pieces and
carefully chewed into round balls till
every cell is crushed, and the vegetable
matter thus reduced becomes fitted for
the use of the fungus. In a few homes
Fritz Muller found these balls permeated
with the filaments (hyphae) of the fun-
gus. The swollen part of these fila-
ments becomes food for the ants. If the
fungus be removed, the ants, however
plentifully supplied with leaves, give up
of hunger. Small workers are employed in
weeding this peculiar garden, and so ef-
fectually do they work that the mass of
fungi is kept perfectly free from bac-
teria.

Other species of ants clear spaces
round their nests, where only such plants
as serve them are allowed to grow, but
in the case of the leaf-cutting ants sym-
biosis has reached a pitch where the ants
would die without their associated plant.
A curious case of mutualism one sees
removed (as one says of cousins) is the
relation between those formidable fig-
trees, the Ectonots, and their slaves,
Ectonots, predators, a Hun amongst ants
in ferocity, hunts in dense hordes, a mov-
ing phalanx of this species often extend-
ing from over four to six yards. Every
insect encountered on the march is torn
to pieces and devoured. Of the details
of their military discipline I have no
time to speak; suffice it to say that it
would do credit to Roman soldiers.
Ectonots hunt both in the midst
in masses and in detached columns. In
the latter case the Ectonots are on a slave
hunting expedition, and deliberately at-
tack and ravage the nests of peaceable
and lazy ants known as Hypoclines, who
keep ant-cows and care no more for hon-
or or glory than did Falstaff. The
Hypoclines rush out of their nests when
attacked, carrying their pupae and lar-
vae in their jaws; the Ectonots immedi-
ately seize and carry off the babies, without
doing any injury to the parent ants, and
the Hypoclines go peacefully back to
milk their aphides. The young cap-
tives are carefully reared in the nests of
the Ectonots, and wait upon their masters
with the most assiduous care, feeding,
brushing and combing these big-jawed
warriors. The Ectonots deprived of their
slaves would starve to death, and the mis-
erably developed, for the purpose of
fighting, that they have ceased to be of
use for the mastication of food. The
experiment of isolating the warrior Ectonots
has been tried, and the helpless
creatures would have died but for the
introduction of a slave, which immedi-
ately hustled about feeding its masters
and assiduously giving them "a brush
up." So in the case of the Ectonots
everybody is made happy; the parents of
the slaves are left in peace with their
brought up and protected from enemies—
for what creature would be so bold as to
attack an Ectonot's nest?—and the war-
riors themselves live in a perfect Wal-
halla, where there is nothing to do but
to fight joyfully and have no further
trouble about anything.

The ants alone would take up an arti-
cle to themselves, so extraordinary is
the development of (what I am tempted
to call) their civilization in every direc-
tion; but it is time to turn our attention
to other mutualisms. The crabs known
as Hermit Crabs have the abdomen soft
and undefended, and as a rule find pro-
tection in taking possession of the empty
shell of some mollusc. They are

most amusing animals to watch in an
aquarium, as one can see them hunting
about for suitable houses; a big crab try-
ing to squeeze into an impossibly small
shell, and a small crab struggling with a
ridiculously large shell. But there is a
hermit crab, the Pagurus, which has
which has struck up an alliance offensive
and defensive with a sea anemone,
Adamsia palliata, the union being so
close that the two seem to make up one
animal. The crab makes the front part
of this century-like arrangement, and
with his long claws at work searches for
prey, of which fragments fall to the
share of the Adamsia, which hangs on
behind, mouth downwards. This ane-
mone is generally of a pale fawn color,
speckled over with beautiful crimson or
purple spots, while long delicate stream-
ers, white or lilac in color, hang out from
minute holes scattered over the body.
The short finger-like tentacles are snow
white, and brush over the sea bottom as
the crab walks along. Thus whilst the
Pagurus provides its friend with spare
scraps, the Adamsia as its share of the
alliance protects the soft "tail" of the
crab with its stinging hairs or nema-
tocytes, and makes a much more conven-
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